



Balancing the Natural and Built Environment

May 29, 2014 REVISED September 30, 2015

Ms. Jemellee Cruz, P.E. County of Los Angeles Department of Public Works Flood Maintenance Division 900 South Fremont Avenue, Annex Building, 2<sup>nd</sup> Floor Alhambra, California 91802-1460 VIA EMAIL jcruz@dpw.lacounty.gov

Subject: Results of Biological Inventory Surveys of Reach 112, Ballona Creek, Los Angeles County,

California

Dear Ms. Cruz:

This Letter Report presents the findings of plant and wildlife inventory and vegetation mapping surveys conducted at Reach 112, Ballona Creek, in the community of Marina del Rey in Los Angeles County (Exhibit 1). A habitat inventory survey was previously conducted for Reach 112, but it was limited to the "upper" section of the channel that consisted of about a half-mile segment downstream of Centinela Avenue (see BonTerra report dated July 26, 2012). The current Reach 112 survey area for these surveys is approximately three miles in length and extends from Centinela Avenue downstream to the end of the Los Angeles County Flood Control District's easement near the ocean outlet (at Vista del Mar extended). From about the Marina Freeway (State Route 90 [SR-90]), this new survey area is considered "sensitive" as it lies within the Ballona Wetlands Ecological Reserve. This soft-bottom channel (SBC) reach of Ballona Creek is in the process of being added to the Los Angeles County Department of Public Work's (LACDPW's) existing California Department of Fish and Wildlife (CDFW), U.S. Army Corps of Engineers (USACE), and Regional Water Quality Control Board (RWQCB) channel maintenance permits. The purpose of these surveys is to provide biological information in support of LACDPW's request for inclusion of SBC Reach 112, Ballona Creek, with the existing regulatory permits.

The LACDPW maintains numerous SBC reaches and debris basins that primarily function to control flood waters. Maintained SBC reaches are located in association with concrete-lined segments of rivers and creeks in order to prevent backup of debris and sediment that moves downstream during heavy rainfall events. High volumes of storm-water-carrying debris and sediment can cause considerable damage to downstream and upstream properties and result in the loss of human life. The dams, barriers, and debris basins also have spillways designed to allow removal of excess runoff water at safe velocities that will not damage the dam or downstream structures. Vegetation within the channels increases the collection of debris and requires periodic maintenance that involves removal of vegetation and debris from these SBC reaches. LACDPW maintenance activities in the SBC reaches and debris basins are conducted in conformance with permits issued by the CDFW, the USACE, and the RWQCB.

225 South Lake Avenue Suite 1000 Pasadena, CA 91101 Ms. Jemellee Cruz, P.E. Page 2 of 7 May 29, 2014 REVISED September 30, 2015 Ballona Creek Reach 112

#### **METHODS**

BonTerra Psomas Senior Biologist Brian Daniels and Jennifer Pareti and Biologist Sarah Thomas conducted the plant and wildlife inventory and vegetation mapping surveys on March 6, 2014. The surveys focused on the identification of all plant and wildlife species present within the channel. Previous survey reports of the upper portion of this SBC reach were reviewed, including the focused plant and biological reconnaissance surveys conducted in July 2009 at Ballona Creek (BonTerra 2009, 2010).

All plant and wildlife species observed were recorded in field notes. Plant species were identified in the field or collected for subsequent identification using keys in Baldwin et al. (2012). Taxonomy follows Baldwin et al. (2012) and current scientific data (e.g., scientific journals) for scientific and common names. Nomenclature for vegetation types generally follows that of the *List of Vegetation Alliances and Associations*, *Vegetation Classification and Mapping Program* (CDFW 2010).

Active searches for reptiles and amphibians included lifting, overturning, and carefully replacing rocks and debris. Birds were identified by visual and auditory recognition. Surveys for mammals were conducted during the day and included searching for and identifying diagnostic signs including scat, footprints, scratch-outs, dust bowls, burrows, and trails. Taxonomy and nomenclature for wildlife generally follows Stebbins (2012) for amphibians and reptiles, American Ornithologists' Union (2013) for birds, and Baker et al. (2003) for mammals.

## **RESULTS**

For a complete list of plant and wildlife species observed during the March 6, 2014 survey, see Attachment A. The following discussion is primarily limited to those plant and wildlife species observed during the survey.

## **Vegetation**

The Ballona Creek SBC reach supports four vegetation types (disturbed freshwater (cattail) marsh, disturbed saltwater marsh, ornamental, and ruderal) and two other areas (open water and developed) as illustrated on Exhibits 31a, 3b, 3c, 3d, 3e, 3f, 3g, 3h, 3i, 3j, and 3k and summarized in Table 1 below. Site photographs are included as Exhibits 4a and 4b. Vegetation in this SBC reach is limited to thin bands and patches at the toe of the levees. The native freshwater marsh vegetation is limited to the "upper" section of Reach 112 from Centinela Avenue downstream to SR-90 (see Exhibit 3a). Native saltwater marsh vegetation is limited to the "lower" section of Reach 112 from the ocean outlet upstream to about Lincoln Blvd (Pacific Coast Highway [PCH]). The vegetation becomes more sparse and bare areas begin to dominate just upstream of SR-90 in the "upper" section of this SBC reach. Essentially no vegetation is present in the "middle" section of this SBC reach from SR-90 to PCH. The tidal influence in the lower portion of this SBC reach is greater in the "middle" section and, as a result, the higher salt content of the water limits the downstream expansion of the upstream vegetation types.

Ms. Jemellee Cruz, P.E. Page 3 of 7 May 29, 2014 REVISED September 30, 2015 Ballona Creek Reach 112

## TABLE 1 VEGETATION TYPES

Vegetation Type	Acres
Freshwater (Cattail) Marsh	0.55*
Saltwater Marsh	4.47
Ornamental	1.00
Ruderal	6.24
Open Water	69.82
Developed	23.90
Total Acres	105.98

The freshwater marsh vegetation type in the "upper" section of Reach 112 is dominated by southern cattail (*Typha domingensis*), southern bulrush (*Schoenoplectus californicus* [*Scirpus californicus*]), and cocklebur (*Xanthium strumarium*). It is identified as disturbed freshwater marsh vegetation since it is intermixed with relatively high amounts of non-native ruderal (weedy) and exotic (or invasive) ornamental species. The ruderal vegetation consists of non-native species such as African fountain grass (*Pennisetum setaceum*), Mexican fan-palm (*Washingtonia robusta*), African umbrella-sedge (*Cyperus involucratus*), curly dock (*Rumex crispus*), and common beggar ticks (*Bidens pilosa*). The ornamental vegetation includes volunteers of several species of ornamental trees, including Brazilian pepper (*Schinus terebinthifolius*), shamel ash (*Fraxinus uhleri*), rain tree (*Koelreuteria paniculata*), and Chinese elm (*Ulmus parvifolia*).

Freshwater marsh vegetation typically provides high habitat values. This is particularly evident in Southern California where it is relatively scarce. The freshwater marsh vegetation at this SBC reach, however, has been degraded by numerous non-native ruderal (weedy) and invasive species such as the Mexican fan palms that intermix with the cattail and bulrush beds. The concreted levee also limits the distribution of these cattail and bulrush beds in the channel and diminishes their overall habitat value. The ruderal vegetation in this SBC reach is dominated by non-native ruderal species and ornamental species and provides low value habitat.

The saltwater marsh vegetation type in the "lower" section of Reach 112 is dominated by seablite (*Sueda* sp.) and pickleweed (*Salicornia* sp.). This vegetation type has adapted to the high salinity of ocean salt water. It is identified at this location as disturbed saltwater marsh vegetation since it is intermixed with relatively high amounts of non-native ruderal (weedy) and exotic (or invasive) ornamental species. The ruderal vegetation consists of non-native species such as Chrysanthemum (*Chrysanthemum* sp.), telegraph weed (*Heterotheca grandiflora*), sea-lavender (*Limonium* sp.). The ornamental vegetation includes volunteers of several widely used ornamental shrubs and trees including bottlebrush (*Callistemon* sp.), acacia (*Acacia* sp.), and Brazilian pepper. Shrubs cover roughly 35% of the ruderal vegetation. About 25% of the total shrub cover consists of scattered native species including coyotebush (*Baccharis pilularis*) and laurel sumac (*Malosma laurina*).

Saltwater marsh vegetation typically provides high habitat values. This is especially true in Southern California where it is a rare plant community with a very limited distribution. It is limited to those areas on the coast where natural or controlled tidal regimes still exist. The saltwater marsh vegetation at this SBC reach, however, has been degraded by the presence of numerous non-native ruderal (weedy) and invasive species. The rip-rap of the levee walls also limits the distribution and growth (i.e., its stature is not as tall or dense as in a natural setting) of the saltmarsh vegetation. The saltmarsh vegetation in this SBC reach still provides valuable foraging habitat for a variety of bird species, but its overall value is

Ms. Jemellee Cruz, P.E. Page 4 of 7 May 29, 2014 REVISED September 30, 2015 Ballona Creek Reach 112

limited due to its location on rip-rap and the presence of non-native ruderal species and ornamental species.

### Wildlife

Open water is the dominant habitat feature of this SBC reach. The water transitions from fresh at the upper end of this SBC reach (Centinela Avenue) to brackish near the SR-90 and to salt water in the lower part of the channel in the vicinity of the ocean outlet. The specific location of these zones is in constant flux due to tidal influences. Vegetation is limited in size and extent; it is primarily confined to the water's edge at the toe of the concrete and rip-rap levees. As a result, Reach 112 is expected to be used by a variety of water birds, but relatively few land birds. Water birds observed during the survey include American wigeon (Anas americana), mallard (Anas platyrhynchos), northern pintail (Anas acuta), bluewinged teal (Anas discors), cinnamon teal (Anas cyanoptera), green-winged teal (Anas crecca), bufflehead (Bucephala albeola), red-breasted merganser (Mergus serrator), ruddy duck (Oxyura jamaicensis), pied-billed grebe (Podilymbus podiceps), eared grebe (Podiceps nigricollis), western grebe (Aechmophorus occidentalis), double-crested cormorant (Phalacrocorax auritus), brown pelican (Pelecanus occidentalis), great blue heron (Ardea herodias), snowy egret (Egretta thula), American coot (Fulica americana), black-necked stilt (Himantopus mexicanus), black oystercatcher (Haematopus bachmani), killdeer (Charadrius vociferous), spotted sandpiper (Actitis macularius), greater yellowlegs (Tringa melanoleuca), willet (Tringa semipalmata), whimbrel (Numenius phaeopus), least sandpiper (Calidris minutilla), long-billed dowitcher (Limnodromus scolopaceus), ring-billed gull (Larus delawarensis), western gull (Larus occidentalis), and California gull (Larus californicus). Some of the above species may nest in the vegetation at the water's edge in this SBC reach. These species include the mallard, cinnamon teal, pied-billed grebe, and American coot. Other species on the list, such as the killdeer and black-necked stilt may also nest here. The other species on the above list, however, were using the channel habitats exclusively for foraging and/or loafing.

Land bird use of the channel is expected to be limited, with most species occurring primarily for bathing and drinking opportunities. For example, the mourning dove (*Zenaida macroura*) was observed during the survey in the vegetation adjacent to the water's edge, but is expected to nest and primarily forage in the vegetation outside the channel. Some bird species observed during the survey such as the common yellowthroat (*Geothlypis trichas*) and song sparrow (*Melospiza melodia*) may nest in the vegetation at the water's edge in this SBC reach. The open water habitats of the channel are expected to support insect life that provides foraging opportunities for aerial foraging bird species. Birds observed foraging over Reach 112 during the survey included tree swallow (*Tachycineta bicolor*) and northern rough-winged swallow (*Stelgidopteryx serripennis*).

This SBC reach provides minimal habitat for amphibians and reptiles and only two were observed during the survey: red-eared slider (*Trachemys scripta*) and the western fence lizard (*Sceloporus occidentalis*). While the lizard is a native species, the slider is a non-native turtle species that can be detrimental to native species. The California ground squirrel (*Otospermophilus beecheyi*) and domestic cat (*Felis catus*) were observed, as well as the sign of common raccoon (*Procyon lotor*) and coyote (*Canis latrans*) during the survey. No fish species were identified during the survey. The freshwater parts of this SBC reach provide limited habitat for fish, but a variety of species are expected to use the brackish and salt waters downstream of SR-90.

## CONCLUSIONS AND RECOMMENDATIONS

The 0.55 acre of freshwater marsh and 4.47 acres of saltmarsh vegetation in SBC Reach 112 is of high value due to its relative scarcity in the region. The habitat values for these two vegetation types, however,

Ms. Jemellee Cruz, P.E. Page 5 of 7 May 29, 2014 REVISED September 30, 2015 Ballona Creek Reach 112

are degraded by the abundance of invasive ornamental and non-native ruderal (weedy) vegetation that are found in association with these two native vegetation types in SBC Reach 112.

The results of the July 2009 biological reconnaissance surveys to determine the potential for special status plant and wildlife species at this SBC reach (BonTerra 2010) found that the southern tarplant (*Centromadia parryi* ssp. *australis*) had potential to occur and, as a result, focused surveys were warranted. The results of a southern tarplant survey conducted in July 2009 was negative; however, this focused survey was limited to the "upper" part of this SBC reach from Centinela Avenue to SR-90. The remainder of this SBC reach also provides potentially suitable habitat for the southern tarplant and it may occur.

Although the results of the July 2009 biological reconnaissance survey did not recommend any focused wildlife surveys, this survey was limited to the "upper" part of the Reach 112 from Centinela Ave to SR-90. The results of the July 2009 survey did indicate that the State and federally listed Endangered California least tern (Sternula antillarum browm) had potential to occur at this SBC reach for loafing and foraging activities, but not for nesting. The California least tern is more likely to occur downstream near the ocean outlet of this channel. Nesting California least terns are possible in the vicinity of the "lower" parts of this SBC reach; however, this species is not expected to nest on bare substrates (i.e., the access road) of this SBC reach. The California least tern is a migratory species; therefore, it is only present in the region for the nesting season from about April 1 to August 31. The State Endangered Belding's savannah sparrow (Passerculus sandwichensis beldingi) is a year-round resident of salt marsh habitats in the region. It is known to occur at the Ballona Wetlands and one individual was observed during the survey foraging in the salt marsh vegetation on the rip-rap of this SBC reach. As a result, focused surveys are not recommended for this species as the "lower" parts of this SBC reach that contain salt marsh vegetation are considered occupied by the Belding's savannah sparrow. The salt marsh vegetation on the rip-rap of this SBC reach provides suitable foraging habitat for the Belding's savannah sparrow, but is not tall or dense enough to provide suitable nesting habitat for this species.

To obtain the regulatory permits necessary for maintenance activities at this SBC reach, BonTerra Psomas recommends performing a focused survey for the southern tarplant that updates the 2009 survey results for the "upper" part of this SBC reach, Centinela Avenue to SR-90, but also covers for the first time, appropriate areas downstream of SR-90 in the "lower" part of this SBC reach. BonTerra Psomas recommends that the LACDPW perform maintenance activities in an alternating pattern similar to other maintained SBC reaches. BonTerra Psomas also proposes the following Maintenance Plan language for the "upper" part of this SBC reach: "The channel clearing work would involve an alternating pattern of hand-clearing of vegetation. Only one-half of the channel would be cleared each year. The other one-half of the channel would be cleared the following year. A Biologist would be present during clearing activities to recommend appropriate avoidance measures of any biological resources that may warrant such measures. All invasive plant species would be removed in a manner approved by the Monitoring Biologist".

In order to obtain regulatory permits for maintenance activities in the "lower" part of this SBC reach that supports habitat (i.e. salt marsh vegetation) for the State Endangered Belding's savannah sparrow, it will be necessary for the LACDPW to incorporate avoidance measures into their maintenance plan for this species. BonTerra Psomas proposes the following Maintenance Plan language for the "lower" part of this SBC reach: "The channel clearing work will involve hand-clearing of non-native vegetation outside the Belding's savannah sparrow nesting season (March – August). A Biologist familiar with Belding's savannah sparrow ecology will be present during all clearing activities and have the authority to delay or

Ms. Jemellee Cruz, P.E. Page 6 of 7 May 29, 2014 REVISED September 30, 2015 Ballona Creek Reach 112

stop any clearing activities that may affect individual Belding's savannah sparrows. Salt marsh vegetation will be avoided and protected during these clearing activities."

BonTerra Psomas has appreciated the opportunity to assist on this project. If you have any comments or questions, please call Marc Blain or Brian Daniels at (626) 351-2000.

Sincerely,

**BonTerra Psomas** 

Joan Patronite Kelly, AICP

Senior Vice President/Principal

Marc T. Blain

Senior Project Manager

Enclosures: Exhibit 1 – Regional Location

Exhibit 2 – Local Vicinity Exhibit 3 – Vegetation Types Exhibit 4 – Site Photographs

Attachment A – Plant and Wildlife Compendia

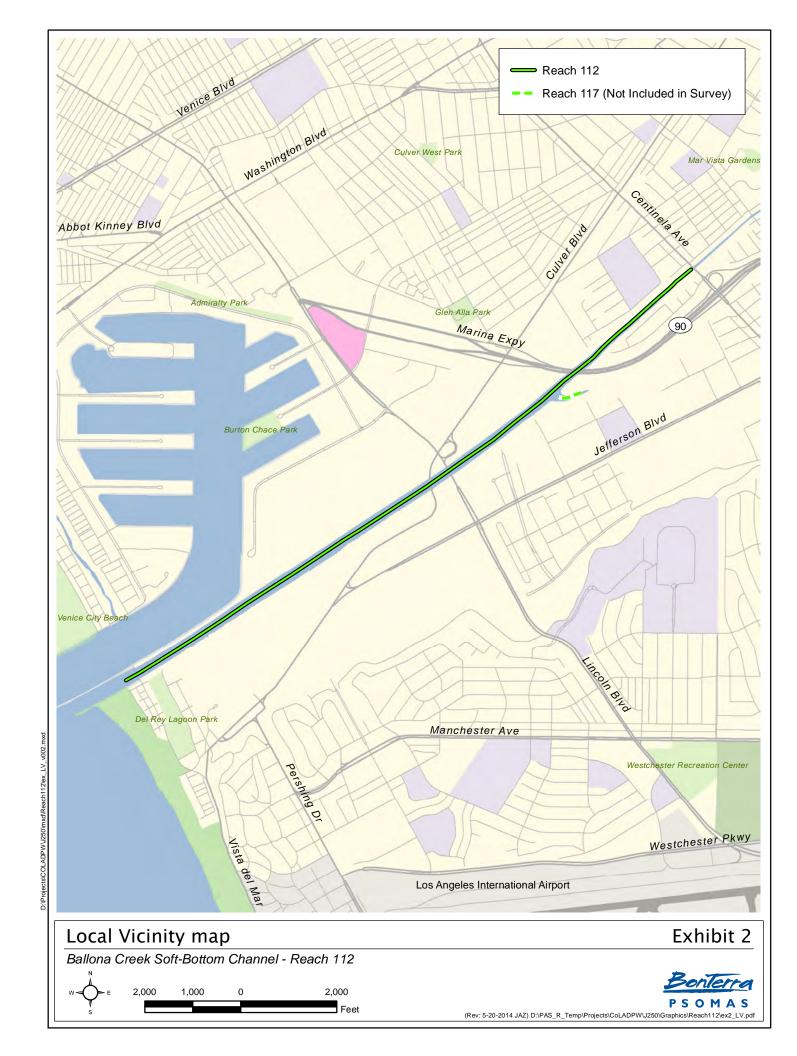
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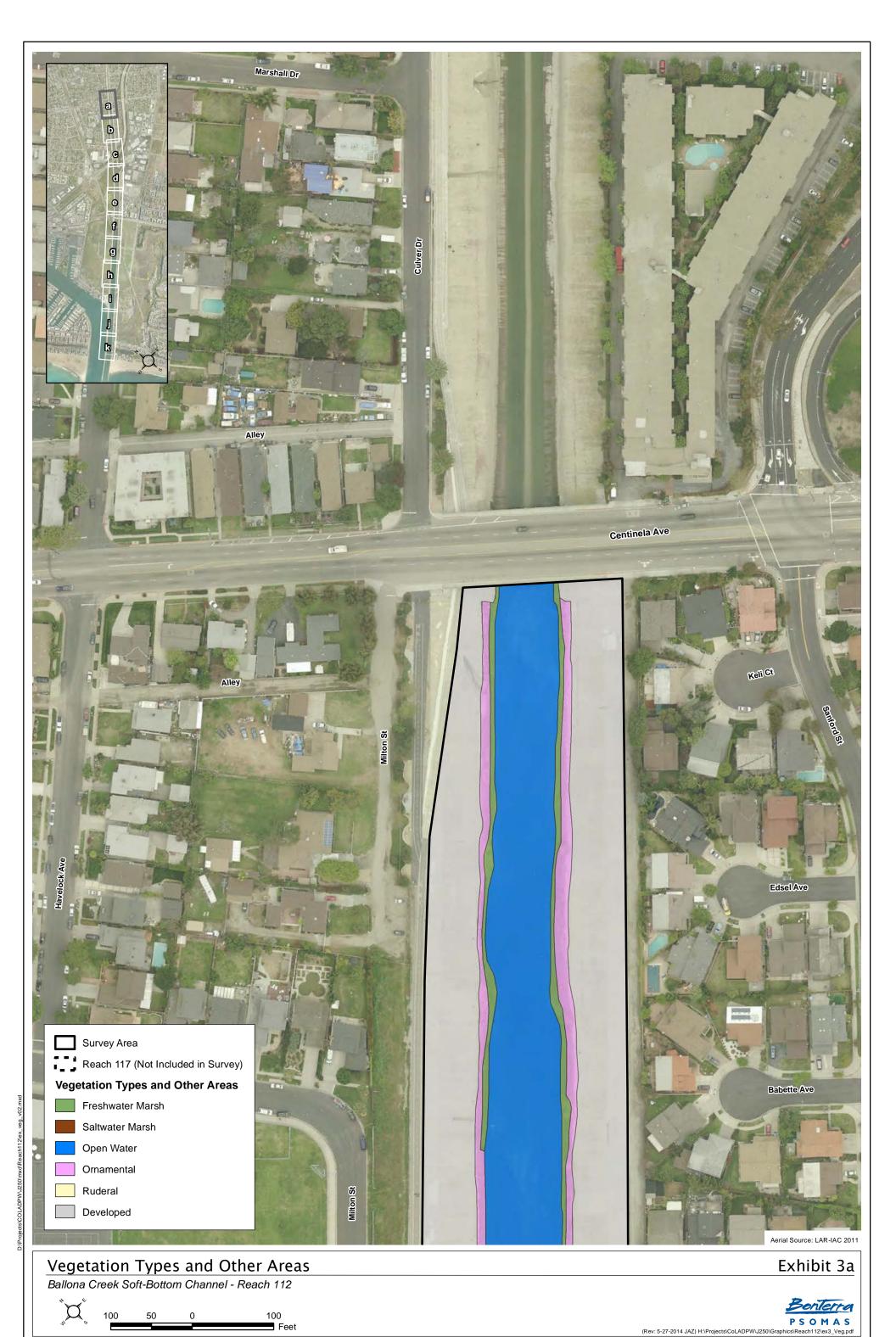
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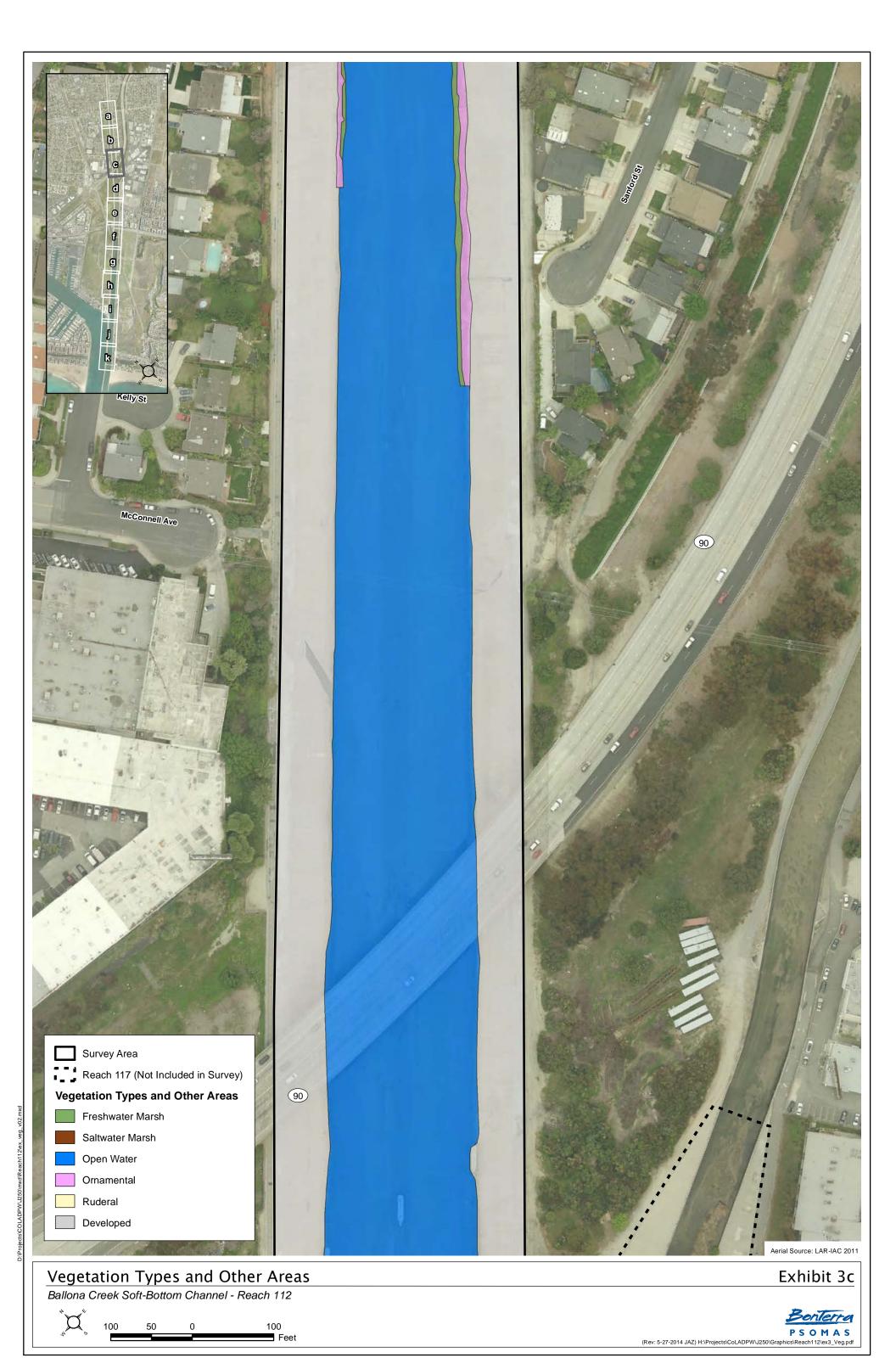
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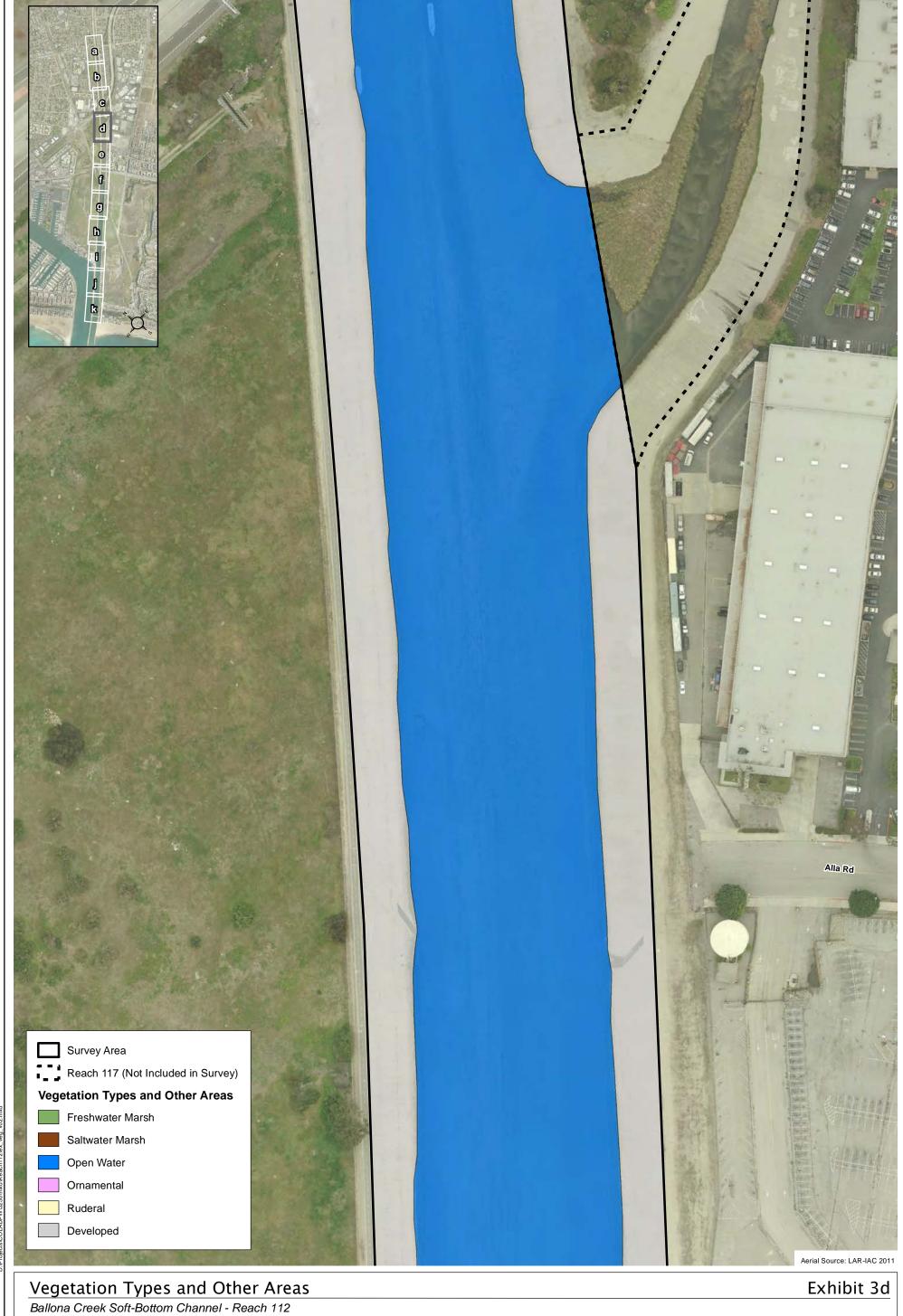
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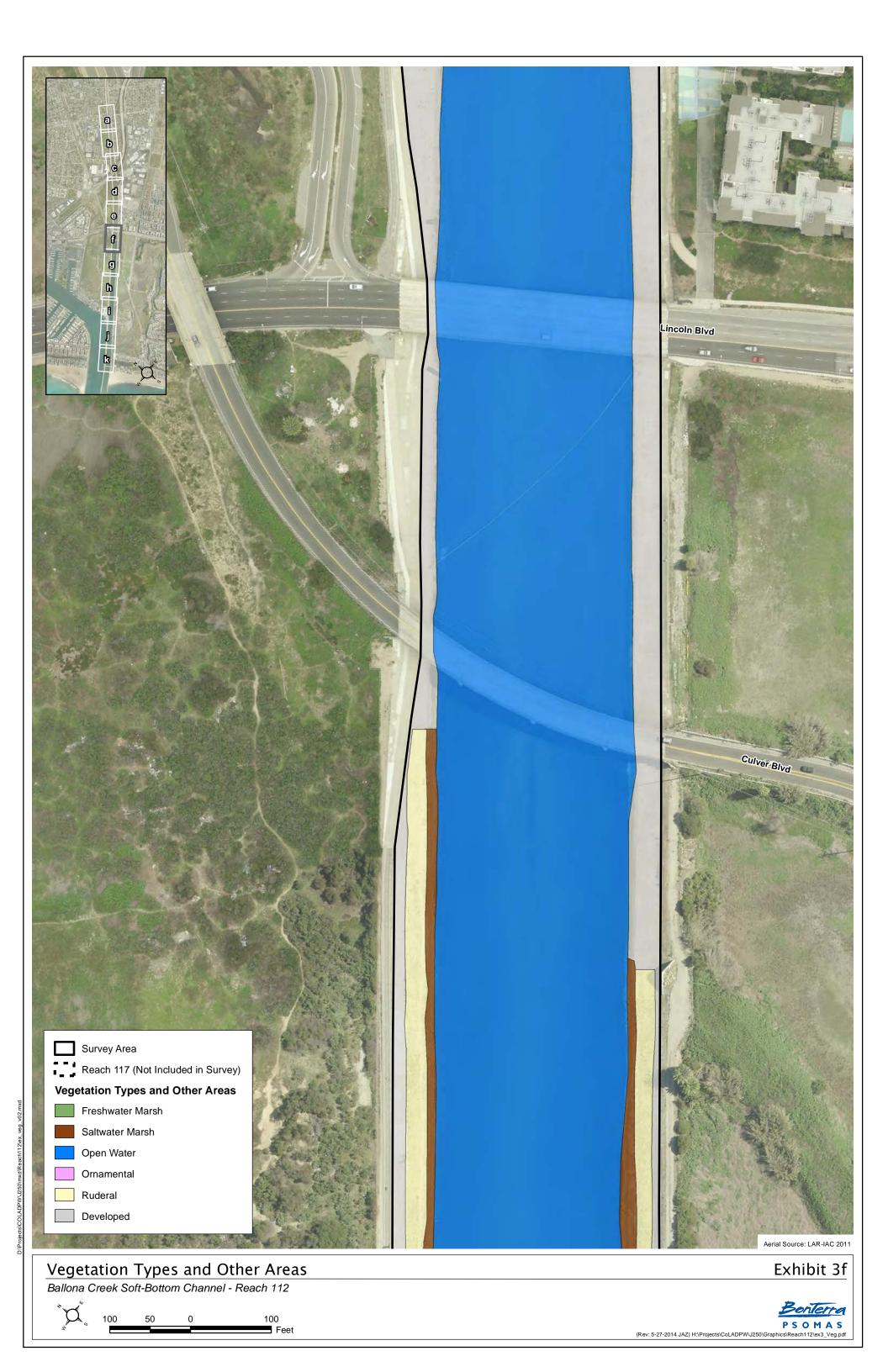


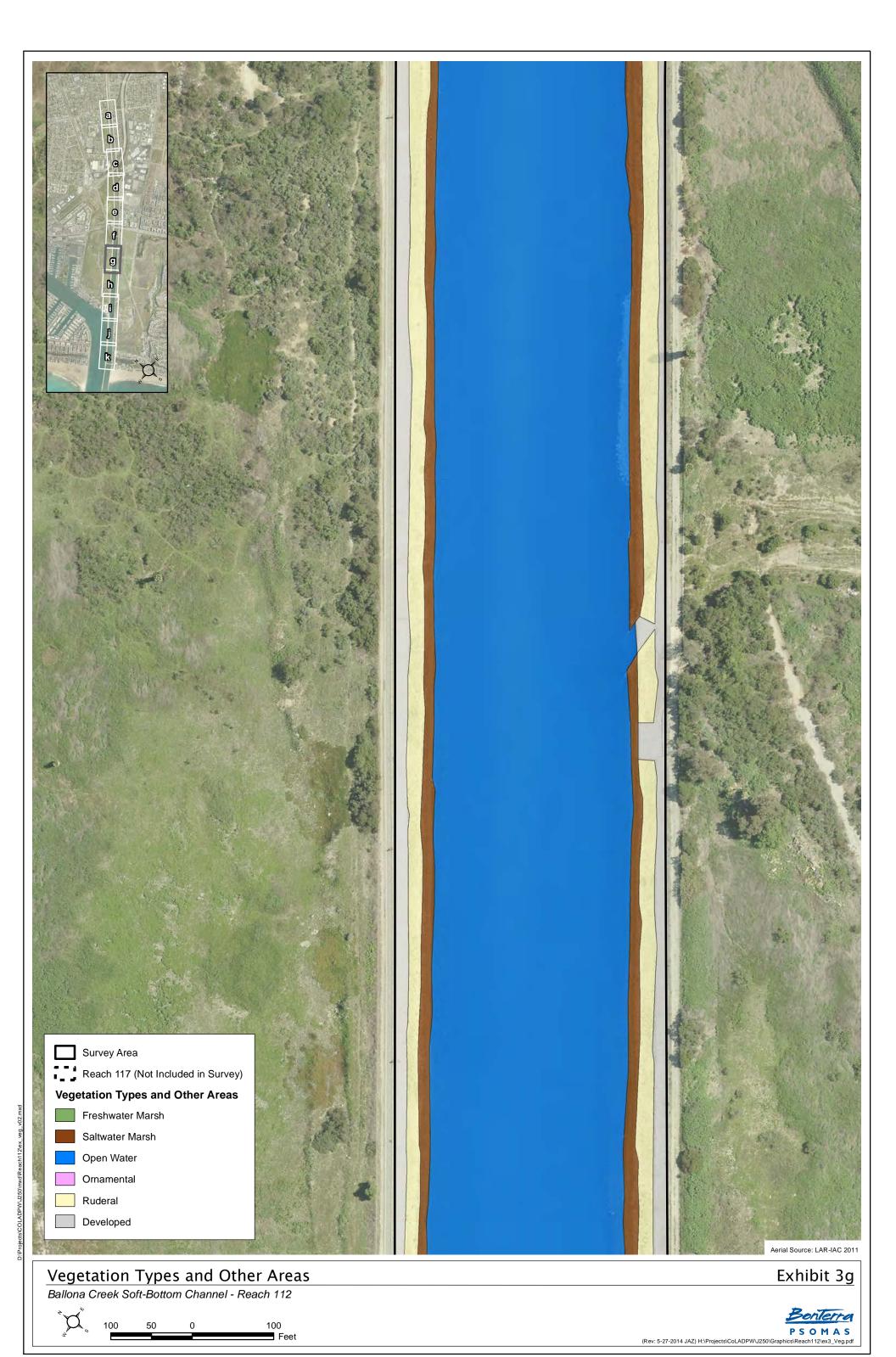


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Ballona Creek Soft-Bottom Channel - Reach 112



March 6, 2014. View Downstream from Centinela Ave.



March 6, 2014. View Upstream of Lower Ballona Channel from Pacific Ave Bridge.

# Site Photographs

Exhibit 4a

Ballona Creek Soft-Bottom Channel - Reach 112





March 6, 2014. View Downstream from North Bank of Lower Ballona Channel toward Ocean.



March 6, 2014. View Upstream of Lower Ballona Channel from North Bank.

# Site Photographs

Exhibit 4b

Ballona Creek Soft-Bottom Channel - Reach 112



# ATTACHMENT A PLANT AND WILDLIFE COMPENDIA

# BALLONA CREEK PLANT LIST

Species		
Species EUDICOTS		
AIZOACEAE – FIG-MARIGOLD FAMILY		
Carpobrotus edulis*	freeway iceplant	
	- SUMAC FAMILY	
Malosma laurina	laurel sumac	
Rhus integrifolia	lemonade berry	
Schinus terebinthifolius*	Brazilian pepper tree	
APIACEAE – CARROT FAMILY		
Foeniculum vulgare*	sweet fennel	
ASTERACEAE – SUNFLOWER FAMILY		
Ageratina adenophora*	crofton weed	
Artemisia californica	California sagebrush	
Baccharis pilularis ssp. consanguinea [B. pilularis]	coyote brush	
Baccharis salicifolia ssp. salicifolia [B. salicifolia]	mule fat	
Encelia californica	California brittlebush	
Erigeron canadensis [Conyza c.]	common horseweed	
Glebionis coronaria [Chrysanthemum coronarium]*	garland daisy	
Heterotheca grandiflora	telegraph weed	
Pseudognaphalium luteoalbum [Gnaphalium l.]*	weedy cudweed	
Sonchus oleraceus*	common sow thistle	
BRASSICACEAE –	MUSTARD FAMILY	
Raphanus sativus*	radish	
CHENOPODIACEAE -	GOOSEFOOT FAMILY	
Atriplex canescens	four-wing saltbush	
Chenopodium album*	lamb's quarters	
Suaeda sp.	seablite	
CONVOLVULACEAE – M	ORNING-GLORY FAMILY	
Ipomoea purpurea*	common morning-glory	
	– SPURGE FAMILY	
Ricinus communis*	castor bean	
	EGUME FAMILY	
Acacia sp.*	acacia	
	K/BEECH FAMILY	
Quercus agrifolia	coast live oak	
	MALLOW FAMILY	
Malva parviflora*	cheeseweed	
	MYRTLE FAMILY	
Callistemon sp.*	bottlebrush	
	OLIVE FAMILY	
Fraxinus sp.	ash	
	– PLANTAIN FAMILY	
Plantago lanceolata*	English plantain	
	- QUASSIA FAMILY	
Ailanthus altissima*	tree of heaven	

# BALLONA CREEK PLANT LIST

Species		
EUDICOTS		
SOLANACEAE – NIGHTSHADE FAMILY		
Nicotiana glauca*	tree tobacco	
Solanum douglasii	Douglas' nightshade	
TROPAEOLACEAE – NASTURTIUM FAMILY		
Tropaeolum majus*	garden nasturtium	
ULMACEAE –	ELM FAMILY	
Ulmus parvifolia*	Chinese elm	
MONOCOTYLEDONES - MONOCOTS		
ARECACEAE – PALM FAMILY		
Phoenix sp.*	date palm	
Washingtonia sp.	fan palm	
CYPERACEAE - SEDGE FAMILY		
Cyperus involucratus*	African umbrella-sedge	
Isolepis cernuus [Scirpus c.]	California club-rush	
POACEAE – G	RASS FAMILY	
Avena barbata*	slender wild oat	
Bromus madritensis ssp. rubens*	red brome	
Distichlis spicata	salt grass	
Festuca perennis [Lolium perenne, L. multiflorum]*	perennial ryegrass	
Pennisetum setaceum*	crimson fountain grass	
Stipa miliacea [Piptatherum miliacea]*	smilo grass	
TYPHACEAE - CATTAIL FAMILY		
Typha angustifolia	narrow-leaved cattail	
Typha latifolia	broad-leaved cattail	

## BALLONA CREEK WILDLIFE LIST

Species			
REPTILES			
TESTUDINES – TURTLES			
EMYDIDAE – WATER AND BOX TURTLES			
Trachemys scripta elegans*	red-eared slider		
PHRYNOSOMATIDAE – ZEBRA-TAILED, FRINGE-TOED, SPINY, TREE, SIDE-BLOTCHED, AND HORNED LIZARDS			
Sceloporus occidentalis	western fence lizard		
Uta stansburiana	side-blotched lizard		
BIRDS			
AVES – BIRDS			
ANATIDAE – WATERFOWL			
Anas americana	American wigeon		
Anas platyrhynchos	mallard		
Anas cyanoptera	cinnamon teal		
Anas acuta	northern pintail		

# BALLONA CREEK WILDLIFE LIST

Spe	cies	
Anas crecca	green-winged teal	
Bucephala albeola	bufflehead	
Mergus serrator	red-breasted merganser	
Oxyura jamaicensis	ruddy duck	
	DAE – GREBES	
Podilymbus podiceps	pied-billed grebe	
Podiceps nigricollis	eared grebe	
Aechmophorus occidentalis	western grebe	
PHALACROCORACIDAE – CORMORANTS		
Phalacrocorax auritus	double-crested cormorant	
PELECANIDAE - PELICANS		
Pelecanus occidentalis	brown pelican	
<i>ARDEIDAE</i> – HERONS,	BITTERNS, AND ALLIES	
Egretta thula	snowy egret	
ACCIPITRIDAE – HAWKS, K	ITES, EAGLES, AND ALLIES	
Buteo jamaicensis	red-tailed hawk	
RALLIDAE – RAILS		
Fulica americana	American coot	
RECURVIROSTRIDAE -	- STILTS AND AVOCETS	
Himantopus mexicanus	black-necked stilt	
HAEMATOPODIDAE -	- OYSTERCATCHERS	
Haematopus bachmani	black oystercatcher	
CHARADRIIDA	A <i>E</i> – PLOVERS	
Charadrius vociferus	killdeer	
SCOLOPACIDAE – SANDF	PIPERS AND PHALAROPES	
Actitis macularius	spotted sandpiper	
Tringa [Catoptrophorus] semipalmata	willet	
Numenius phaeopus	whimbrel	
Calidris minutilla	least sandpiper	
Limnodromus scolopaceus	long-billed dowitcher	
LARIDAE – GUL	LS AND TERNS	
Larus delawarensis	ring-billed gull	
Larus occidentalis	western gull	
Larus californicus	California gull	
	GEONS AND DOVES	
Columba livia*	rock pigeon	
Streptopelia decaocto*	Eurasian collared-dove	
Zenaida macroura	mourning dove	
	HUMMINGBIRDS	
Selasphorus sasin	Allen's hummingbird	
	E – FALCONS	
Falco sparverius	American kestrel	
TYRANNIDAE – TYRANT FLYCATCHERS		
Sayornis nigricans	black phoebe	

# BALLONA CREEK WILDLIFE LIST

Species		
CORVIDAE – CROWS AND JAYS		
Corvus brachyrhynchos	American crow	
Corvus corax	common raven	
HIRUNDINIDAE – SWALLOWS		
Tachycineta bicolor	tree swallow	
Stelgidopteryx serripennis	northern rough-winged swallow	
Hirundo rustica	barn swallow	
TROGLODYTIDAE – WRENS		
Cistothorus palustris	marsh wren	
PARULIDAE – WARBLERS		
Setophaga [Dendroica] coronata	yellow-rumped warbler	
EMBERIZIDAE – SPARROWS AND JUNCOS		
Passerculus sandwichensis	savannah sparrow	
Melospiza melodia	song sparrow	
Melospiza lincolnii	Lincoln's sparrow	
Zonotrichia leucophrys	white-crowned sparrow	
FRINGILLIDA	AE - FINCHES	
Haemorhous [Carpodacus] mexicanus	house finch	
MAMMALS		
MAMMALIA	- MAMMALS	
LEPORIDAE – HARES AND RABBITS		
Sylvilagus audubonii	desert cottontail	
SCIURIDAE – SQUIRRELS		
Spermophilus beecheyi	California ground squirrel	
CANIDAE – WOLVES AND FOXES		
Canis latrans	coyote	
PROCYONIDAE – RACCOONS		
Procyon lotor	northern raccoon	