BIOLOGICAL TECHNICAL REPORT FOR SOFT-BOTTOM CHANNEL REACH 119— RIVAS CANYON CHANNEL MAINTENANCE PROJECT LOS ANGELES COUNTY, CALIFORNIA

Prepared for:

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SECTION 1.0 – INTRODUCTION

This Biological Technical Report has been prepared for the Los Angeles County Flood Control District (LACFCD) to support the Regional Water Quality Control Board (RWQCB) Waste Discharge Requirements for the proposed actions relating to the Soft Bottom Reach 119- Rivas Canyon Channel (Reach 119 Rivas) Maintenance Project (Project). Information contained in this document is in accordance with accepted scientific and technical standards consistent with the requirements of United States Fish and Wildlife Service and the California Department of Fish and Wildlife (CDFW).

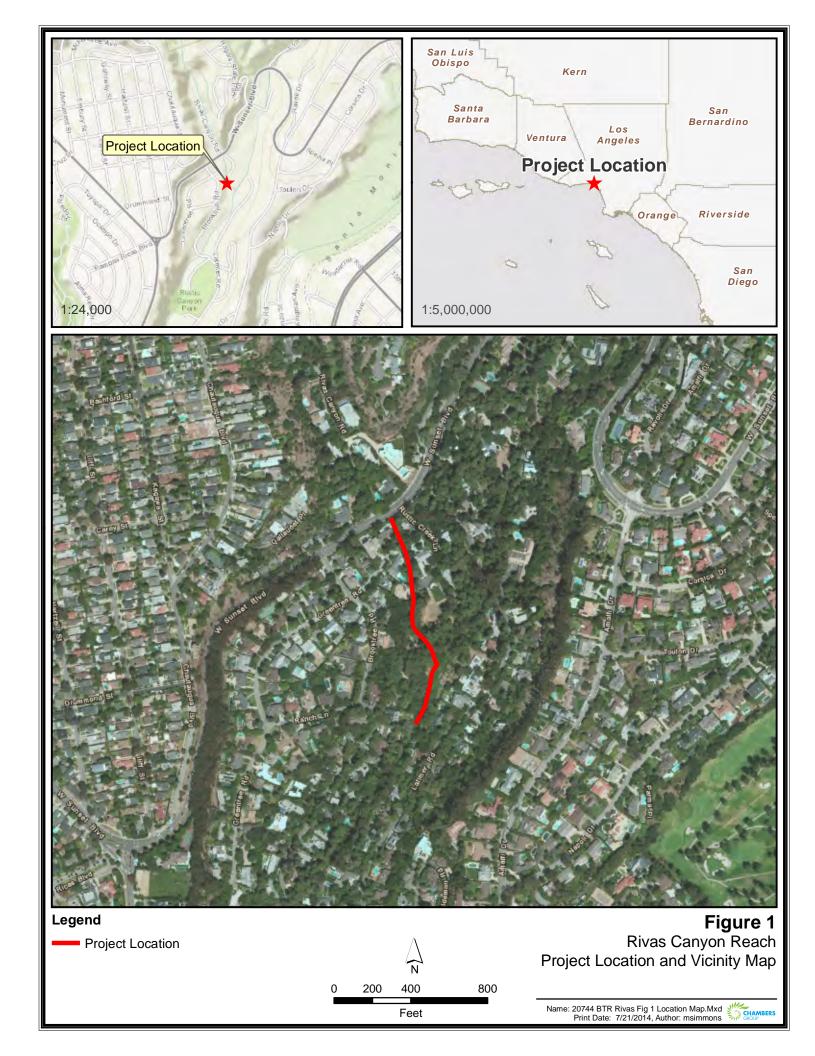
Over time; increased amounts of debris, sediment, and vegetation growth has accumulated within the Reach 119 Rivas channel. The LACFCD proposes to remove vegetation from within the proposed channel reach. The vegetation removal will allow LACFCD to assess the integrity of the channel and walls to maintain an acceptable level of flood protection to mitigate the significant risk of flooding of the adjacent residential communities.

Chambers Group, Inc. (Chambers Group) was retained by LACFCD to conduct a literature review and reconnaissance-level survey for the proposed Project. During the survey, biologists identified vegetation communities, determined the potential for the occurrence of sensitive species and habitats that could support sensitive wildlife species on site, and recorded all plants and animals observed or detected within the Project boundary.

1.1 PROJECT LOCATION

Reach 119 Rivas is located in the County of Los Angeles along Rivas Canyon Road, south of Sunset Blvd., in the City of Pacific Palisades. Reach 119 Rivas flows south into Rustic Canyon Reach, which is located just south of Rustic Creek Lane (Figure 1). Reach 119 Rivas is located in the United States Geological Survey (USGS) *Topanga* 7.5-minute topographic quadrangle. Elevation in the survey area ranges from 190 to 275 feet above mean sea level (amsl).

The Project site is approximately 0.16 miles total in length (Figure 1). The survey area is located in a highly developed area surrounded by private residences. Habitat in the survey area is composed primarily of red willow thickets, escaped ornamental species, ornamental landscaping, and developed vegetation communities (Figure 2).



SECTION 2.0 – METHODS

2.1 LITERATURE REVIEW

Chambers Group biologists conducted a literature review of the survey area prior to performing the reconnaissance survey. The most recent records of the California Natural Diversity Database (CNDDB; managed by CDFW 2014) and the California Native Plant Society's Electronic Inventory (CNPSEI) of Rare and Endangered Vascular Plants of California (CNPSEI 2014) were reviewed for the following six quadrangles: *Topanga, Beverly Hills, Van Nuys, Canoga Park, Calabasas,* and *Malibu Beach,* California, USGS 7.5-minute quadrangles. These databases contain records of reported occurrences of federally or state listed as endangered or threatened species, proposed endangered or threatened species, California Species of Special Concern (SSC), or otherwise sensitive species or habitats that may occur within or in the immediate vicinity of the Project site.

2.2 SOILS

Before the survey was conducted, soil maps for Los Angeles County were reviewed online (USDA 2014) to determine the types of soil found within the Project site. Soils were determined in accordance with categories set forth by the United States Department of Agriculture (USDA) Soil Conservation Service and by referencing the USDA Natural Resources Conservation Service (NRCS) Web Soil Survey (USDA 2014).

2.3 JURISDICTIONAL WATERS

A general assessment of jurisdictional waters regulated by the United States Army Corps of Engineers (USACE), RWQCB, and CDFW was conducted for the proposed Project study area. Pursuant to Section 404 of the Clean Water Act, USACE regulates the discharge of dredged and/or fill material into waters of the United States. The State of California (State) regulates discharge of material into waters of the State pursuant to Section 401 of the Clean Water Act and the California Porter-Cologne Water Quality Control Act (California Water Code, Division 7, §13000 et seq.). Pursuant to Division 2, Chapter 6, Sections 1600-1602 of the California Fish and Game Code, CDFW regulates all diversions, obstructions, or changes to the natural flow or bed, channel, or bank of any river, stream, or lake which supports fish or wildlife. The assessment was conducted by a desktop survey through the USGS National Hydrography Dataset for hydrological connectivity.

2.4 BIOLOGICAL RECONNAISSANCE-LEVEL FIELD SURVEY

Chambers Group biologists Heather Franklin and Rebecca Alvidrez conducted the general reconnaissance survey to map vegetation communities and identify the potential for occurrence of sensitive plant and wildlife species and habitats that could support sensitive wildlife species on site. All plants and animals observed or detected on site were recorded. Photographs of the Project site were taken to document existing site conditions and are provided in Appendix A.

2.4.1 Vegetation

All plant species observed within the Project site were recorded. Vegetation communities within the Project site were identified, qualitatively described, and mapped onto an aerial photograph. Plant communities were determined in accordance with the categories set forth in Holland (1986), Gray and

Bramlet (1992), or Sawyer et al. (2009). Plant nomenclature follows that of Baldwin et al. (2012). A comprehensive list of the plant species observed during the survey is provided in Appendix B.

2.4.2 Wildlife

All wildlife and wildlife sign observed and detected, including tracks, scat, carcasses, burrows, excavations, and vocalizations, were recorded. Additional survey time was spent in those habitats most likely to be utilized by wildlife (undisturbed native habitat, wildlife trails, etc.), and in habitats with the potential to support state and/or federally listed or otherwise sensitive species. Notes were made on the general habitat types, species observed, and the conditions of the Project site. A comprehensive list of the wildlife species observed or detected during the survey is provided in Appendix C.

SECTION 3.0 – RESULTS

Chambers Group biologists conducted the reconnaissance-level field survey on foot throughout the Project site between the hours of 7:00 a.m. and 3:30 p.m. on June 9, 2014. Weather conditions during the survey included temperatures ranging from 63 to 74 degrees Fahrenheit with 100 percent cloud cover, wind averaging 1 mph, and no precipitation.

3.1 SOILS

Review of USDA Soil Conservation Service and referencing the USDA NRCS Web Soil Survey (USDA 2014) determined that the Project site is located within the Los Angeles County Southeastern Area (CA696). Based on the results of the database search, no soil data exists for this area.

3.2 JURISDICTIONAL WATERS

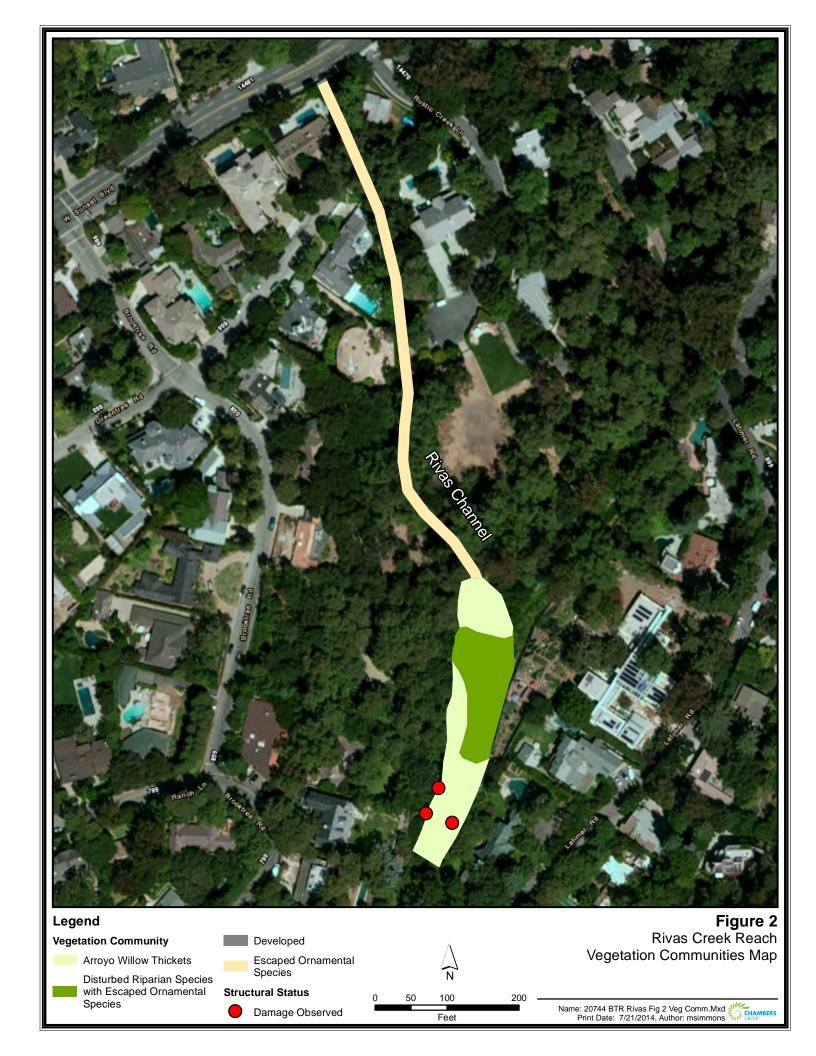
The Reach 119 Rivas is located in the Santa Monica Canyon Watershed, and is blue-line stream containing riparian vegetation and flowing water. Water flows in a westward direction toward the Pacific Ocean, a traditional navigational body of water. Therefore, this section of channel is subject to USACE, RWQCB, and CDFW jurisdiction. Although it may be required, a formal jurisdictional delineation was not prepared for this Project; however, potential impacts to waters of the United States and waters of the State may be calculated if the channel is the only potential water body to be impacted and by assuming the complete channel width and Project length as jurisdictional to USACE, RWQCB, and CDFW for waters.

3.3 VEGETATION COMMUNITIES

The Chambers Group biologists observed 76 plant species within the Project site during the time of the survey (Appendix B). One vegetation community, Escaped Ornamental Species, was observed within the Project site. A map showing the vegetation community observed within the Project site is provided in Figure 2. Representative site photographs were taken to document the vegetation communities of the site (Appendix A). A brief description of the vegetation communities is provided in the following subsections.

3.3.1 <u>Escaped Ornamental Species</u>

This community is based on the Gray and Bramlet description of Ornamental Landscaping (1992) as being dominated by non-native horticultural plants. This community is the result of landscaped ornamentals from adjacent private properties that have encroached and dominated the Project site. The majority of the Project site has a concrete lined bottom and manufactured side walls. English ivy, Japanese honeysuckle (*Lonicera japonica*), garden nasturtium (*Tropaeolum majus*) are dominant species that grow along the side walls and into the channel. Small percentages of castor bean (*Ricinus communis*) and umbrella sedge (*Cyperus involucratus*) are a few of the non-natives that occur within the Project site. The majority of the Project site is composed of Escaped Ornamental Species and make up 0.2 acre of the Project site.



3.4 SENSITIVE SPECIES

The following information is a list of abbreviations used to help determine the significance of biologically sensitive resources potentially occurring within the Project site.

California Rare Plant Rank (CRPR)

List 1A = Plants presumed extinct in California.

List 1B = Plants rare and endangered in California and throughout their range.

List 2 = Plants rare, threatened, or endangered in California but more common

elsewhere in their range.

List 3 = Plants about which we need more information; a review list.

List 4 = Plants of limited distribution; a watch list.

CRPR Extensions

0.1 = Seriously endangered in California (greater than 80 percent of occurrences threatened/high degree and immediacy of threat).

0.2 = Fairly endangered in California (20 to 80 percent occurrences threatened).

0.3 = Not very endangered in California (less than 20 percent of occurrences threatened).

Federal

FE = Federally listed; Endangered FT = Federally listed; Threatened FC = Federal Candidate for listing

State

ST = State listed; Threatened SE = State listed; Endangered

RARE = State-listed; Rare (Listed "Rare" animals have been redesignated as Threatened,

but Rare plants have retained the Rare designation.)

SSC = State Species of Special Concern

WL = CDFW Watch List

The criteria used to evaluate the potential for sensitive species to occur within the Project site are outlined in Table 1, below.

Table 1: Criteria for Evaluating Sensitive Species Potential for Occurrence

PFO*	CRITERIA
Absent:	Species is restricted to habitats or environmental conditions that do not occur within the Project site.
Low:	Habitats or environmental conditions needed to support the species are of poor quality within the Project site.
Moderate:	Either habitat requirements or environmental conditions associated with the species occur within the Project site; or marginal habitat exists within the site and a historical record exists of the species within the Project site or immediate vicinity of the Project site.
High:	Both the habitat requirements and environmental conditions associated with the species occur within the site and a historical record exists of the species within the Project site or its immediate vicinity.
Present:	Species was detected within the site at the time of the survey.

^{*} PFO: Potential for Occurrence

3.4.1 Sensitive Plants

Current database searches (CDFW 2014; CNPSEI 2014) resulted in a list of 27 federal and/or state listed threatened and endangered or rare sensitive plant species documented to occur within the vicinity of the Project site. After the literature review, it was determined that all 27 species are absent from the Project site based on the assessment of the various habitat types in the area of the site and the results of the reconnaissance survey. Factors used to determine the potential for occurrence included the quality of habitat, elevation, and the results of the reconnaissance survey. In addition, the locations of prior database records of occurrence were used as additional data; but since the CNDDB is a positive-sighting database, this data was used only in support of the analysis from the previously identified factors.

The following 27 plant species are considered **Absent** from the Project site due to lack of suitable habitat and/or the species is found outside the elevation range of the Project site:

- Braunton's milk-vetch (Astragalus brauntonii) FE, CRPR List 1B.2
- Ventura marsh milk-vetch (Astragalus pycnostachys var. lanosissimus) FE, SE, CRPR 1B.1
- coastal dunes milk-vetch (Astragalus tener var. titi) FE, SE, CRPR List 1B.1
- slender mariposa lily (Calochortus clavatus var. gracilis) CRPR List 1B.2
- Plummer's mariposa lily (Calochortus plummerae) CRPR List 4.2
- Lewis' evening primrose (Camissoniopsis lewisii) CRPR List 3
- southern tarplant (Centromadia parryi ssp. australis) CRPR List 1B.1
- Orcutt's pincushion (Chaenactis glabriscula var. orcuttiana) CRPR List 1B.1
- coastal goosefoot (Chenopodium littoreum) CRPR List 1B.2
- salt marsh bird's-beak (Chloropyron maritimum ssp. maritimum) FE, SE, CRPR List 1B.1
- Santa Susana tarplant (Deinandra minthornii) CR, CRPR List 1B.2
- beach spectaclepod (Dithyrea maritima) CT, CRPR List 1B.1
- Santa Monica dudleya (Dudleya cymosa ssp. ovatifolia) FT, CRPR List 1B.1
- many-stemmed dudleya (Dudleya multicaulis) CRPR List 1B.2
- island wallflower (Erysimum insulare) CRPR List 1B.3

- mesa horkelia (Horkelia cuneata var. puberula) CRPR List 1B.1
- white-veined monardella (Monardella hypoleuca subsp. hypoleuca) CRPR List 1B.3
- mud nama (Nama stenocarpum) CRPR List 2B.2
- spreading navarretia (Navarretia fossalis) FT, CRPR List 1B.1
- prostrate vernal pool navarretia (Navarretia prostrata) CRPR List 1B.1
- California Orcutt grass (Orcuttia californica) FE, SE, CRPR List 1B.1
- south coast branching phacelia (Phacelia ramosissima var. ausrolitoralis) CRPR List 3.2
- Brand's star phacelia (Phacelis stellaris) CRPR List 1B.1
- salt-spring checkerbloom (Sidalcea neomexicana) CRPR 2B.2
- estuary seablite (Suaeda esteroa) CRPR List 1B.2
- San Bernardino aster (Symphyotrichum defoliatum) CRPR List 1B.2
- Sonoran maiden fern (Thelypteris puberula var. sonorensis) CRPR List 2B.2

3.4.2 <u>Sensitive Wildlife</u>

A current database search (CDFW 2014) resulted in a list of 24 federally and/or state listed endangered or threatened, SSC, or otherwise sensitive wildlife species that may potentially occur within the Project site. A literature review and the assessment of the various habitat types within the Project site determined that 23 sensitive wildlife species were considered absent from the site, and 1 species has a low potential to occur. Factors used to determine potential for occurrence included the quality of habitat, and results of the reconnaissance-level survey. In addition, the locations of prior database records of occurrence were used as additional data, but since the CNDDB is a positive-sighting database, this data was used only in support of the analysis from the previously identified factors.

The following 23 wildlife species are considered **Absent** from the Project site due to lack of suitable habitat present or no recorded occurrences of these species within five miles of the Project site:

- arroyo chub (Gila orcuttii) SSC
- arroyo toad (Anaxyrus californicus) FE, SSC
- bank swallow (Riparia riparia) ST
- burrowing owl (Athene cunicularia) SSC
- California leaf-nosed bat (Macrotus californicus) SSC
- California mountain kingsnake (Lampropeltis zonata pulchra) SSC
- California red-legged frog (Rana draytonii) FT, SSC
- coast horned lizard (Phrynosoma blainvillii) SSC
- California gnatcatcher (Polioptila californica californica) FT, SSC
- least Bell's vireo (Vireo bellii pusillus) FE, SE
- Los Angeles pocket mouse (Perognathus longimembris brevinasus) SSC
- pallid bat (Antrozous pallidus) SSC
- San Diego desert woodrat (Neotoma lepida intermedia) SSC
- silvery legless lizard (Anniella pulchra pulchra) SSC
- south coast marsh vole (Microtus californicus stephensi) SSC
- southern steelhead southern California DPS (Oncorhynchus mykiss irideus) FE, SSC
- spotted bat (Euderma maculatum) SSC
- Swainson's hawk (Buteo swainsoni) ST
- tidewater goby (Eucyclogobius newberryi) FE, SSC
- tricolored blackbird (Agelaius tricolor) SSC
- western mastiff bat (Eumops perotis) SSC

- western pond turtle (Emys marmorata) SSC
- western red bat (Lasiurus blossevillii) SSC

The analysis of the reconnaissance survey and database searches resulted in one species with **Low** potential to occur within the Project site due to low quality or unsuitable habitat present. In addition, known occurrences are recorded within five miles of the Project site:

two-striped garter snake (Thamnophis hammondii) – SSC

3.5 GENERAL PLANTS

Biologists observed 76 plant species during the reconnaissance-level survey. Plant species observed during the survey were characteristic of the existing site conditions. No sensitive plant species were observed during the survey. A complete list of plants observed was recorded and appears in Appendix B.

3.6 GENERAL WILDLIFE

Biologists observed 23 wildlife species during the survey. Wildlife species observed or detected during the survey were characteristic of the existing site conditions. No sensitive wildlife species were observed during the survey effort. A complete list of wildlife observed or detected was recorded and is presented in Appendix C.

SECTION 4.0 – CONCLUSIONS AND RECOMMENDATIONS

4.1 SENSITIVE PLANTS

Results of the literature review, the assessment of the various habitat types within the survey site, and the results of the reconnaissance survey determined that all 29 sensitive plants with a potential to occur in the area are considered to be absent from the site. No focused plant surveys are recommended at this time.

4.2 SENSITIVE WILDLIFE

Of the 24 sensitive wildlife species identified in the literature review, it was determined that 23 sensitive wildlife species were considered absent from the survey site and one had a low potential to occur. The two-striped garter snake, a California Species of Special Concern, has low potential to occur within the Project site. To minimize potential impacts to this species, preconstruction sweeps and biological monitoring should be conducted. If the above species is identified within the Project site during surveys or monitoring, a monitoring plan may be required by the resource agencies for approval prior to construction.

4.3 RECOMMENDATIONS

LACFCD proposes the removal of vegetation within the channel to maintain an acceptable level of flood protection to mitigate the significant risk of flooding of the adjacent residential communities. The removal of vegetation will allow an assessment of the integrity of the flood channel and walls, and increase flow capacity within the channel. LACFCD proposes approximately 25 to 30 crews using hand tools including weed eaters, hedge trimmers, chain saws, hoes, pitch forks, tarps, loppers, and machetes. No ground disturbing activities are anticipated.

No sensitive plant species are expected to occur within the Project area; therefore, no impacts to sensitive plant species are anticipated.

Wildlife, including amphibians, reptiles, mammals and birds may be present within the Project area. The majority of the species with the potential to occur within the Project area are not considered sensitive species. To minimize impacts to wildlife species, vegetation removal will be conducted by hand tools. This process is a relatively slow process and will allow species to disperse from the immediate area. In addition, biological monitoring will be conducted to identify and flush wildlife from the immediate area.

4.4 MIGRATORY BIRD TREATY ACT, AS AMENDED (16 USC 703-711)

In order to comply with the MBTA, any vegetation clearing should take place outside the general bird breeding season (March 15 to August 31), to the maximum extent practical. If this is not possible, prior to Project activities, a qualified biologist should conduct and submit a migratory nesting bird and raptor survey report. The survey should occur no more than three days prior to vegetation removal in the proposed work area, and any occupied passerine and/or raptor nests occurring within or adjacent to the Project area should be delineated. Additional follow-up surveys may be required by the resource agencies. To the maximum extent practicable, a biologist approved exclusionary buffer zone around occupied nests should be maintained during physical ground-disturbing activities. The buffer zone

should be sufficient in size to prevent impacts to the nest. Once nesting has ceased, the buffer may be removed.

4.5 JURISDICTIONAL WATERS

The Project site is located within the Santa Monica Canyon watershed, a blue-line stream, which contains riparian vegetation and flowing water. This Project site is subject to USACE, RWQCB, and CDFW jurisdiction. No fill or dredging of the channel is proposed. A formal jurisdictional delineation to determine potential impacts to waters of the United States and waters of the State may be required for this Project.

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APPENDIX A: SITE PHOTOGRAPHS



Photo 1. Upstream limit of Rivas Canyon Channel. Photo showing the cement lined culvert that runs under Sunset Blvd. Area lacks vegetation. Photo facing northwest.



Photo 2. Photo taken from Rustic Creek Lane, showing non-native vegetation and ornamental trees along the edge of the walls. Photo facing southeast.



Photo 3. Section of the channel located just south of Rustic Creek Lane showing the thick leaf litter that was common throughout the Project site. Photo facing southeast.



Photo 4. Section of the channel located by Rustic Creek Lane. Thick litter layer present on top of concrete lined channel. A small stand of native alders are present in the photo. Photo facing northwest.



Photo 5. The convergence of the Rivas Canyon Reach and Rustic Canyon Reach. Photo showing that this is a heavily vegetated area within the channels. Photo facing northwest.

APPENDIX B: PLANT SPECIES OBSERVED

Scientific Name	Common Name
GYMNOSPERMS	
PINACEAE	PINE FAMILY
Pinus canariensis†	Canary Island Pine
PODOCARPACEAE	PODOCARP FAMILY
Afrocarpus gracilior†	fern pine
MAGNOLIIDS	
LAURACEAE	LAUREL FAMILY
Persea americana†	Avocado
ANGIOSPERMS (EUDICOTS)	
ADOXACEAE	MUSKROOT FAMILY
Sambucus nigra subsp. caerulea	blue elderberry
ANACARDIACEAE	SUMAC OR CASHEW FAMILY
Toxicodendron diversilobum	poison oak
APIACEAE	CARROT FAMILY
Conium maculatum*	poison hemlock
Foeniculum vulgare*	Fennel
APOCYNACEAE	DOGBANE FAMILY
Nerium oleander†	Oleander
Trachelospermum jasminoides†	star jasmine
Vinca major†	greater periwinkle
ARALIACEAE	GINSENG FAMILY
Hedera helix†	English ivy
Schefflera sp.†	umbrella tree
ASTERACEAE	SUNFLOWER FAMILY
Ageratina adenophora*	Eupatory
Artemisia douglasiana	Mugwort
BIGNONIACEAE	BIGNONIA FAMILY
Jacaranda mimosifolia†	Jacaranda
Tecomaria capensis†	Cape honeysuckle
BRASSICACEAE	MUSTARD FAMILY
Nasturtium officinale	water-cress
Sisymbrium altissimum*	tumble mustard
CAPRIFOLIACEAE	HONEYSUCKLE FAMILY
Lonicera japonica†	Japanese honeysuckle
ELAEAGNACEAE	OLEASTER FAMILY
Elaeagnus x ebbingei†	gilt edge

EUPHORBIACEAE	SPURGE FAMILY
Euphorbia peplus*	petty spurge
Ricinus communis*	castor-bean
FABACEAE	LEGUME FAMILY
Erythrina crista-galli†	coral tree
Medicago sp.	Clover
FAGACEAE	OAK FAMILY
Quercus agrifolia	coast live oak
ITEACEAE	
Itea ilicifolia†	hollyleaf sweetspire
JUGLANDACEAE	WALNUT FAMILY
Juglans californica	California black walnut
LAMIACEAE	MINT FAMILY
Salvia sp.†	sage
Stachys albens	white hedge-nettle
MAGNOLIACEAE	MAGNOLIA FAMILY
Magnolia grandiflora†	southern magnolia
MORACEAE	MULBERRY FAMILY
Ficus sp.†	fig
MYRSINACEAE	MYRSINE FAMILY
Anagallis arvensis*	scarlet pimpernel
MYRTACEAE	MYRTLE FAMILY
Agonis flexuosa†	Australian willow myrtle
Eucalyptus sp.*	gum tree
NYCTAGINACEAE	FOUR O'CLOCK FAMILY
Bougainvillea sp.†	Bougainvillea
OLEACEAE	OLIVE FAMILY
Fraxinus uhdei†	shamel ash
Ligustrum japonicum†	Japanese privet
Ligustrum lucidum†	Glossy privet
Olea europaea†	Olive
OXALIDACEAE	OXALIS FAMILY
Oxalis pes-caprae*	Bermuda buttercup
PITTOSPORACEAE	TOBIRA FAMILY
Pittosporum eugenioides†	lemonwood
PLANTAGINACEAE	PLANTAIN FAMILY
Veronica anagallis-aquatica*	water speedwell
PLATANACEAE	SYCAMORE FAMILY
Platanus racemosa	western sycamore

Clematis sp. ROSACEAE ROSE FAMILY Eriobotrya japonica† Loquat Prunus caroliniana† Carolina laurel cherry Rubus armeniacus† Rubus armeniacus† Rubus ursinus California blackberry Rubus creation blackberry Rubus armeniacus† Rubus armeniacus† RutaCEAE RUFAMILY Citrus sp.* Grapefruit SALICACEAE WILLOW FAMILY Populus fremontii subsp. fremontii Fremont cottonwood Solik lasiolepis arroyo willow SAPINDACEAE SOAPBERRY FAMILY Acer negundo California box-elder Acer sp.* maple SCROPHULARIACEAE FIGWORT FAMILY SCROPHULARIACEAE SIMAROUBACEAE Alianthus altissima† tree of heaven SOLANACEAE NIGHTSHADE FAMILY Brugmansia sp.† Nicotiana glauca* tree tobacco Solanum douglasii Douglas' nightshade NIGHTSHADE FROPACIACEAE NASTURTIUM FAMILY TROPACOLACEAE NASTURTIUM FAMILY Ulmus parvifolia† Chinese elm VERBENACEAE LEM FAMILY VITACEAE GRAPE FAMILY VITACEAE GRAPE FAMILY VITACEAE PHILODENDRON FAMILY VITACEAE ARECACEAE PHILODENDRON FAMILY VITACEAE PHILODENDRON FAMILY VITACEAE PHILODENDRON FAMILY ARECASETAM PALIM FAMILY ARECASETAM PALIM FAMILY ARECASETAM PALIM FAMILY ARECASETAM PALIM FAMILY ARECASCEAE ARECASCEAE PALIM FAMILY ARECASCEAE PALIM FAMILY ARECASCEAE ARECASCEAE PALI	RANUNCULACEAE	BUTTERCUP FAMILY
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Acer sp.* maple SCROPHULARIACEAE FIGWORT FAMILY Scrophularia californica California figwort SIMAROUBACEAE QUASSIA FAMILY Ailanthus altissima† tree of heaven SOLANACEAE NIGHTSHADE FAMILY Brugmansia sp.† angel's trumpet Nicotiana glauca* tree tobacco Solanum douglasii Douglas' nightshade Solanum sp. nightshade TROPAEOLACEAE NASTURTIUM FAMILY Tropaeolum majus* garden nasturtium ULMACEAE ELM FAMILY Ulmus parvifolia† Chinese elm VERBENACEAE VERVAIN FAMILY Lantana camara† common lantana VITACEAE GRAPE FAMILY VItis sp.† Grape ANGIOSPERMS (MONOCOTS) ARACEAE PHILODENDRON FAMILY Zantedeschia aethiopica† Calla-lily ARECACEAE PALIM FAMILY	SAPINDACEAE	SOAPBERRY FAMILY
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Scrophularia californica SIMAROUBACEAE Ailanthus altissima† tree of heaven SOLANACEAE NIGHTSHADE FAMILY angel's trumpet Nicotiana glauca* tree tobacco Solanum douglasii Douglas' nightshade TROPAEOLACEAE NASTURTIUM FAMILY Tropaeolum majus* garden nasturtium ULMACEAE LIM FAMILY Ulmus parvifolia† VERBENACEAE VERVAIN FAMILY VITACEAE GRAPE FAMILY VITACEAE ANGIOSPERMS (MONOCOTS) ARACEAE PHILODENDRON FAMILY Zantedeschia aethiopica† Calia-lily ARECACEAE	Acer sp.*	maple
SIMAROUBACEAE Ailanthus altissima† tree of heaven SOLANACEAE NIGHTSHADE FAMILY angel's trumpet Nicotiana glauca* tree tobacco Solanum douglasii Douglas' nightshade Solanum sp. nightshade TROPAEOLACEAE NASTURTIUM FAMILY Tropaeolum majus* garden nasturtium ULMACEAE ELM FAMILY Ulmus parvifolia† Chinese elm VERBENACEAE VERVAIN FAMILY Lantana camara† common lantana VITACEAE GRAPE FAMILY Vitis sp.† Grape ANGIOSPERMS (MONOCOTS) ARACEAE PHILODENDRON FAMILY Zantedeschia aethiopica† Calla-lily ARECACEAE	SCROPHULARIACEAE	FIGWORT FAMILY
Ailanthus altissima† tree of heaven SOLANACEAE NIGHTSHADE FAMILY Brugmansia sp.† angel's trumpet Nicotiana glauca* tree tobacco Solanum douglasii Douglas' nightshade Solanum sp. nightshade TROPAEOLACEAE NASTURTIUM FAMILY Tropaeolum majus* garden nasturtium ULMACEAE ELM FAMILY Ulmus parvifolia† Chinese elm VERBENACEAE VERVAIN FAMILY Lantana camara† common lantana VITACEAE GRAPE FAMILY Vitis sp.† Grape ANGIOSPERMS (MONOCOTS) ARACEAE PHILODENDRON FAMILY Zantedeschia aethiopica† Calla-lily ARECACEAE PALM FAMILY	Scrophularia californica	California figwort
SOLANACEAE Brugmansia sp.† Angel's trumpet Nicotiana glauca* tree tobacco Solanum douglasii Douglas' nightshade Solanum sp. nightshade TROPAEOLACEAE NASTURTIUM FAMILY Tropaeolum majus* garden nasturtium ULMACEAE ELM FAMILY Ulmus parvifolia† Chinese elm VERBENACEAE VERVAIN FAMILY Lantana camara† common lantana VITACEAE GRAPE FAMILY Vitis sp.† ANGIOSPERMS (MONOCOTS) ARACEAE PHILODENDRON FAMILY Zantedeschia aethiopica† Calla-lily ARECACEAE PALM FAMILY	SIMAROUBACEAE	QUASSIA FAMILY
Brugmansia sp.† angel's trumpet Nicotiana glauca* tree tobacco Solanum douglasii Douglas' nightshade Solanum sp. nightshade TROPAEOLACEAE NASTURTIUM FAMILY Tropaeolum majus* garden nasturtium ULMACEAE ELM FAMILY Ulmus parvifolia† Chinese elm VERBENACEAE VERVAIN FAMILY Lantana camara† common lantana VITACEAE GRAPE FAMILY Vitis sp.† Grape ANGIOSPERMS (MONOCOTS) ARACEAE PHILODENDRON FAMILY Zantedeschia aethiopica† Calla-lily ARECACEAE PALM FAMILY	Ailanthus altissima†	tree of heaven
Nicotiana glauca* Solanum douglasii Douglas' nightshade Solanum sp. nightshade TROPAEOLACEAE NASTURTIUM FAMILY Tropaeolum majus* garden nasturtium ULMACEAE ELM FAMILY Ulmus parvifolia† Chinese elm VERBENACEAE VERVAIN FAMILY Lantana camara† common lantana VITACEAE GRAPE FAMILY Vitis sp.† Grape ANGIOSPERMS (MONOCOTS) ARACEAE PHILODENDRON FAMILY Zantedeschia aethiopica† Calla-lily ARECACEAE PALM FAMILY	SOLANACEAE	NIGHTSHADE FAMILY
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TROPAEOLACEAE Tropaeolum majus* garden nasturtium ULMACEAE ELM FAMILY Chinese elm VERBENACEAE VERVAIN FAMILY Lantana camara† common lantana VITACEAE GRAPE FAMILY Vitis sp. † Grape ANGIOSPERMS (MONOCOTS) ARACEAE PHILODENDRON FAMILY Zantedeschia aethiopica† Calla-lily PALM FAMILY	Solanum douglasii	Douglas' nightshade
Tropaeolum majus* ULMACEAE ELM FAMILY Ulmus parvifolia† Chinese elm VERBENACEAE VERVAIN FAMILY Lantana camara† common lantana VITACEAE GRAPE FAMILY Vitis sp. † Grape ANGIOSPERMS (MONOCOTS) ARACEAE PHILODENDRON FAMILY Zantedeschia aethiopica† Calla-lily ARECACEAE PALM FAMILY	Solanum sp.	nightshade
ULMACEAE Ulmus parvifolia† Chinese elm VERBENACEAE VERVAIN FAMILY Lantana camara† common lantana VITACEAE GRAPE FAMILY Vitis sp.† Grape ANGIOSPERMS (MONOCOTS) ARACEAE PHILODENDRON FAMILY Zantedeschia aethiopica† Calla-lily PALM FAMILY	TROPAEOLACEAE	NASTURTIUM FAMILY
Ulmus parvifolia† Chinese elm VERBENACEAE VERVAIN FAMILY Lantana camara† common lantana VITACEAE GRAPE FAMILY Vitis sp.† Grape ANGIOSPERMS (MONOCOTS) PHILODENDRON FAMILY Zantedeschia aethiopica† Calla-lily ARECACEAE PALM FAMILY	Tropaeolum majus*	garden nasturtium
VERBENACEAE VERVAIN FAMILY Lantana camara† common lantana VITACEAE GRAPE FAMILY Vitis sp.† Grape ANGIOSPERMS (MONOCOTS) ARACEAE PHILODENDRON FAMILY Zantedeschia aethiopica† Calla-lily PALM FAMILY	ULMACEAE	ELM FAMILY
Lantana camara† common lantana VITACEAE GRAPE FAMILY Vitis sp. † Grape ANGIOSPERMS (MONOCOTS) PHILODENDRON FAMILY ARACEAE PHILODENDRON FAMILY Zantedeschia aethiopica† Calla-lily ARECACEAE PALM FAMILY	Ulmus parvifolia†	Chinese elm
VITACEAE Vitis sp. † Grape ANGIOSPERMS (MONOCOTS) ARACEAE PHILODENDRON FAMILY Zantedeschia aethiopica† Calla-lily ARECACEAE PALM FAMILY	VERBENACEAE	VERVAIN FAMILY
Vitis sp.† ANGIOSPERMS (MONOCOTS) ARACEAE PHILODENDRON FAMILY Zantedeschia aethiopica† Calla-lily ARECACEAE PALM FAMILY	Lantana camara†	common lantana
ANGIOSPERMS (MONOCOTS) ARACEAE PHILODENDRON FAMILY Zantedeschia aethiopica† Calla-lily ARECACEAE PALM FAMILY	VITACEAE	GRAPE FAMILY
ARACEAE PHILODENDRON FAMILY Zantedeschia aethiopica† Calla-lily ARECACEAE PALM FAMILY	Vitis sp.†	Grape
Zantedeschia aethiopica† Calla-lily ARECACEAE PALM FAMILY	ANGIOSPERMS (MONOCOTS)	
ARECACEAE PALM FAMILY	ARACEAE	PHILODENDRON FAMILY
	Zantedeschia aethiopica†	Calla-lily
Arecastrum romanzoffianum† queen palm	ARECACEAE	PALM FAMILY
	Arecastrum romanzoffianum†	queen palm

Phoenix canariensis†	Canary Island date palm
ASPARAGACEAE	ASPARAGUS FAMILY
Asparagus aethiopicus†	Sprenger's asparagus-fern
CYPERACEAE	SEDGE FAMILY
Cyperus involucratus*	umbrella-plant
POACEAE	GRASS FAMILY
Agrostis viridis*	water bentgrass
Arundo donax*	giant reed
Bambusa sp.†	Bamboo
Cortaderia selloana*	pampas grass
Stipa miliacea var. miliacea*	smilo grass
ТҮРНАСЕАЕ	CATTAIL FAMILY
Typha sp.	Cattail
ZINGIBERACEAE	GINGER FAMILY
Alpinia sp.†	Ginger
*Non-Native Species †Ornamental Species	

APPENDIX C: WILDLIFE SPECIES OBSERVED

WILDLIFE SPECIES OBSERVED		
Scientific Name	Common Name	
CLASS AMPHIBIA	AMPHIBIANS	
HYLIDAE	TREEFROGS	
Pseudacris regilla	Pacific chorus frog	
CLASS REPTILIA	REPTILES	
PHRYNOSOMATIDAE	ZEBRA-TAILED, EARLESS, FRINGE-TOED, SPINY, TREE, SIDE-	
	BLOTCHED, AND HORNED LIZARDS	
Sceloporus occidentalis	western fence lizard	
CLASS AVES	BIRDS	
ACCIPITRIDAE	HAWKS, KITES, EAGLES	
Buteo lineatus	red-shouldered hawk	
TROCHILIDAE	HUMMINGBIRDS	
Calypte anna	Anna's hummingbird	
Selasphorus sasin	Allen's hummingbird	
PICIDAE	WOODPECKERS	
Picoides nuttallii	Nuttall's woodpecker	
TYRANNIDAE	TYRANT FLYCATCHERS	
Empidonax difficilis	Pacific-slope flycatcher	
Sayornis nigricans	black phoebe	
CORVIDAE	JAYS & CROWS	
Corvus brachyrhynchos	American crow	
Corvus corax	common raven	
AEGITHALIDAE	BUSHTITS	
Psaltriparus minimus	bushtit	
TROGLODYTIDAE	WRENS	
Thryomanes bewickii	Bewick's wren	
TURDIDAE	THRUSHES	
Catharus ustulatus	Swainson's thrush	
MIMIDAE	MOCKINGBIRDS, THRASHERS	
Mimus polyglottos	northern mockingbird	
PARULIDAE	WOOD WARBLERS	
Geothlypis trichas	common yellowthroat	
EMBERIZIDAE	EMBERIZIDS	
Junco hyemalis	dark-eyed junco	
Melospiza melodia	song sparrow	
Pipilo maculatus	spotted towhee	
CARDINALIDAE	CARDINALS	
Passerina caerulea	blue grosbeak	
FRINGILLIDAE	FINCHES	
Spinus psaltria	lesser goldfinch	
Carpodacus mexicanus	house finch	
PSITTACIDAE	PARROTS	
Amazona viridigenalis	Red-crowned parrot	
CLASS MAMMALIA	MAMMALS	
SCIURIDAE	SQUIRRELS	
Sciurus niger	eastern fox squirrel	
Sciulus IIIgei	eastern fox squiffer	