
APPENDIX A: RESUMES

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Education

- B.S., Biological Sciences, California State University, Fullerton, 2003

Permits/Certifications

- U.S. Fish and Wildlife Service (USFWS) Quino Checkerspot Butterfly, Coastal California Gnatcatcher, and Vernal Pool Brachiopods 10 (A)(1)(a) Permit #TE 067347-3
- California Department of Fish and Game (CDFG) Scientific Collectors Permit #SC-008085
- CDFG Rare, Threatened, and Endangered Plant Voucher Collecting Permit #07014

Continuing Education

- Southern California Native Plant Identification, Santa Ana College, 2007
- Sparrow Identification, Sea and Sage Audubon Society, 2007
- Raptor Identification, The Wildlife Institute, 2007
- California Environmental Quality Act (CEQA) Advanced Workshop Series, 2007
- Plant Identification, Rancho Santa Ana Botanical Gardens, 2005
- Vegetation Community Classification, California Native Plant Society, 2004
- Fairy Shrimp Identification, Mary Schug Belk, MS, 2004 & 2005
- Executing, and Reporting for Botanical Surveys, Rancho Santa Ana Botanical Garden Rare Plants and Communities Planning, 2004
- California Burrowing Owl Symposium, 2003
- Sea and Sage Audubon Society, Bird Identification, 2003

Summary

Crysta Dickson is a biologist with over seven years of professional experience in the field of wildlife biology. Ms. Dickson has a strong background in southern California insects, flora, and fauna that she effectively applies to her mitigation monitoring, permit processing, wildlife surveys, and report writing. Using this background, Ms. Dickson has been able to build her professional expertise by effectively managing a dynamic array of projects that require specific expertise.

Ms. Dickson's expertise includes preparing technical biological resources assessments in accordance with CEQA and Natural Community Conservation Plan (NCCP) guidelines for a variety of projects in southern California. She has had extensive experience with the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) compliance guidelines and the Consistency Review Process. Additionally, she has had experience with regulatory compliance and permitting procedures, including field delineations under Sections 401 and 404 of the Clean Water Act, Section 1600 of the State Fish and Game Code and Sections 7 and 10 of Endangered Species Act.

Experience

Field Survey: Ms. Dickson has conducted several field surveys for federally endangered and federally listed native species, including the Arroyo toad, coastal California gnatcatcher, quino checkerspot butterfly, least Bell's vireo, southwestern willow flycatcher, desert tortoise, and fairy shrimp. She has accrued over 200 hours conducting protocol quino checkerspot butterfly surveys within Riverside County. She has had extensive experience conducting protocol burrowing owl surveys in Riverside, Los Angeles, and San Bernardino counties. Ms. Dickson's large-scale projects include a jurisdictional delineation on a project site over 20,000 acres in southern Arizona, the biological assessment for the 10,000-acre *Hesperia* Specific Plan, and desert tortoise surveys on a 2,200-acre California City development project, and a CEQA analysis for a large-scale development in the Lytle Creek area of San Bernardino County. She has also assisted in the trapping and removal of the parasitic, non-native cowbird and the monitoring of occupied least Bell's vireo and coastal California gnatcatcher habitat.

Ms. Dickson has assisted in the development and training of City employees for tree-trimming activities relative to their effect on the Migratory Bird Treaty Act (MBTA). Training included presentations to several city departments on federal and state regulations pertaining to the protection of nesting bird species. Additional training experience includes the development and leadership of the annual River Rally in Santa Clarita, a community education and outreach event focused on cleaning up the Santa Clara riverbed, since 2003.

Botany: In addition to wildlife surveys, Ms. Dickson has contributed to rare and sensitive plant surveys throughout southern California. Specific species surveyed include the Santa Ana River woollystar, slender-horned spineflower, smooth tarplant, mariposa lily, Coulter's matilija poppy, Joshua tree, scalebroom, and MSHCP Narrow Endemic and Criteria Area species in Riverside County. Ms. Dickson is also heavily involved in the extensive vegetation mapping throughout southern California.

Research: Ms. Dickson spent three months assisting in the field at Starr Ranch Audubon Society looking at the effects of artichoke thistle pollination on the native habitat. She has completed extensive collection, mounting, and identification of the regions insects and fauna.



Education

- M.S., California State Polytechnic University, Pomona, In Progress
- B.S., Zoology/Biology, California State Polytechnic University, Pomona, California, 1995

Permits/Certifications

- U.S. Fish and Wildlife Service (USFWS) Southwestern Willow Flycatcher, California Gnatcatcher, and Least Bell's Vireo Permit #TE-009015-2
- California Department of Fish and Game (CDFG) Scientific Collector's Permit #SC-000187

Professional Affiliations

- American Ornithologists' Union
- Cooper Ornithological Society
- Raptor Research Foundation
- American Society of Mammalogists
- Animal Behavior Society

Expertise

Jason Berkley is a biologist with over 17 years of academic and professional experience in terrestrial and aquatic biology. Mr. Berkley's expertise encompasses ornithology, herpetology, ichthyology, mammalogy, and wildlife ecology. He has experience collaborating with various government agencies dealing with threatened, endangered, and otherwise sensitive species. He has also been a co-instructor of a workshop for herpetofauna identification for the CDFG Fisheries Branch biologists.

Experience

Threatened and Endangered Species: He has conducted focused surveys for southwestern willow flycatcher, least Bell's vireo, California gnatcatcher, southwestern arroyo toad, red-legged frog, and desert tortoise in southern California. He has assisted in focused surveys for mountain yellow-legged frog, unarmored three-spine stickleback, Santa Ana sucker, San Bernardino kangaroo rat, and quino checkerspot butterfly.

Mr. Berkley has also performed focused protocol surveys for the federally endangered southwestern willow flycatcher in Apache, Pinal, and Mohave counties in Arizona.

Mr. Berkley conducted wildlife movement corridor surveys in Arizona requiring scat, track, and den identification of various species including: badger, coyote, javelina, mountain lion, bobcat, skunk, deer, and fox. He has performed similar wildlife corridor surveys on various projects within Orange County, California, including focused surveys for numerous sensitive species at project sites for Orange County Flood Control throughout the County, and for the Mountain Park Biological Assessment in Anaheim, California. He is currently conducting southern flying squirrel surveys for the Church of the Woods project in the San Bernardino Mountains. He has also conducted southern rubber boa surveys for the same project site.

Aquatic Monitoring: Mr. Berkley has experience seining and electro-shocking in both freshwater and marine environments. He is capable of using electroshock units for both land (by foot) and water (by boat). His responsibilities include identification, population impacts due to sluicing, and assessing manmade disaster impacts on the Santa Clara River and its tributaries, both the east and west forks of the San Gabriel River, Ballona Creek, and its adjacent wetlands.



Education

- B.A., Geography, emphasis in environmental analysis, California State University, Fullerton, California, 1998

Permits/Certifications

- ISA Certified Arborist, Certificate Number WE-5921A
- Certificate of Attendance: Introduction to Horticulture, Saddleback Community College, Mission Viejo, California, 2001

Continuing Education

- Oak trees in Southern California, 2003
- Recognizing tree disease, 2003
- Determining Wetlands Jurisdiction, 2003
- Are there Solutions to Southern California Tree Insect Problems, 2002
- Wastewater Laws and Regulations, 2002
- Managing and Protecting Heritage Trees, 2001
- Mastering the Basics of Tree Appraisal, 2001
- Tree Failure Risk Management Workshop, 2001

Expertise

Stephanie Picha is an environmental geographer with over six years of experience in regulatory work and environmental impact assessments. Ms. Picha's work has included 1602 Streambed Agreement process with the California Department of Fish and Game, as well section 404 of the Clean Water Act (CWA). In addition to her regulating and environmental impact assessment experience, she is a project manager for several projects. Currently she is managing a 200-plus acre site in Riverside County and an approximately 700-acre portion of the Santa Ana River for the County of Orange arundo removal program. Furthermore, she is familiar with the flora and fauna of southern California, including identification of wildlife and plant communities in this region.

Experience

Arboriculture: As an International Society of Arboriculture (ISA) certified arborist, Ms. Picha is familiar with city and county tree ordinances throughout southern California. Her experience includes the City of Los Angeles, the City of Rancho Cucamonga, and the County of Los Angeles to name a few. This work has entailed the application of various criteria by which to evaluate the health and value of trees. Most of these assessments have focused on native tree species, specifically oaks. In addition, she has been responsible for the completion of Joshua tree surveys and preservation and management plans for the City of Palmdale per their Joshua tree and native vegetation preservation ordinance.

U.S. Army Corps of Engineers: Ms. Picha has experience in evaluating Nationwide Permits pursuant to Section 404 of the CWA and has assisted in conducting jurisdictional wetland delineations.

California Department of Fish and Game: Ms. Picha's experience with the Department includes delineating Fish and Game jurisdictional areas and assessing impacts to these jurisdictional areas. Additionally, she has conducted mitigation compliance site visits.

Agency Contact: Ms. Picha has an excellent working relationship with the regulatory agencies and has worked closely with clients throughout project implementation, including coordination of project plans and correspondence.

Since Ms. Picha has worked for both U.S. Army Corps of Engineers and California Department of Fish and Game she has developed a close working relationship with the two, sharing a common objective of compromise between both applicant and regulatory agencies.



Education

- B.S., Applied Ecology, University of California, Irvine, California, 1998

Permits/Certifications

- U.S. Fish and Wildlife (USFWS) Vernal Pool Branchiopods Permit #TE031848-0
- Ventura County Wetlands Policy Advisory Team, 2004-Present

Continuing Education

- Jurisdictional Delineation of Wetlands using NRCS and U.S. Army Corps of Engineers Methodologies, UC Berkeley Extension, 1998
- San Diego County Vernal Pool Flora and Habitat Restoration, Wetland Training Institute, 2006
- Arroyo Toad Symposium: Natural History and Management Practices, Camp Pendleton, California, 2000
- California Red-legged Frog Workshop, The Wildlife Society, Stockton & Livermore, California, 2000
- Fairy Shrimp Identification Class, University of San Diego, 2000

Professional Affiliations

- Society of Wetland Scientists
- California Native Plant Society

Expertise

Ryan Henry has nine years of diverse professional experience as an ecologist focused on the integration of scientific principles for the investigation, assessment, and restoration of wetlands and other aquatic and terrestrial ecosystems. Mr. Henry's field-related experience includes performing wetland delineations and biological surveys of flora, fauna, and microbial communities, in addition to sensitive species investigations. He has prepared reports describing and inventorying biological resources for

a variety of habitats, wetland permitting, mitigation, and other California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) documents. Mr. Henry is skilled in Geographic Information System (GIS) software, analysis techniques, and custom application development.

Experience

Wetland and Vernal Pool Assessment: Mr. Henry has performed numerous jurisdictional delineations following both federal and state criteria within California and Arizona. He has prepared reports quantifying the jurisdictional extent of "waters of the U.S.," "waters of the State," wetlands, and vernal pool habitats. He has directed functional assessments of aquatic resources using the California Rapid Assessment Method (CRAM).

Biological Assessment/Habitat Evaluation: Mr. Henry has extensive experience conducting vegetation mapping and habitat analysis. He has conducted wildlife and botanical surveys, and applies his skills with GIS and Global Positioning Systems (GPS) technologies to collect and analyze natural resource data. Mr. Henry understands the regulatory issues involved in assessing potential impacts to habitats, and negotiating appropriate compensatory mitigation measures.

Regulatory Experience: Mr. Henry has extensive experience as a project manager requiring regulatory compliance for the development and conservation of public and private land holdings. He has coordinated with state and federal agencies in order to ensure compliance with CEQA, NEPA, Clean Water Act, Fish and Game Code, Endangered Species Act, National Historical Preservation Act, and Coastal Zone Management Act. He has prepared and facilitated the issuance of numerous regulatory permits, including programmatic authorizations for local municipalities. His experience includes facilitating negotiations between public agencies, private landowners, regulatory agencies, and natural resource land managers.

Habitat Restoration and Monitoring: Mr. Henry has managed several habitat restoration efforts. He has developed and implemented function-based assessments for riparian, wetland, and vernal pool restoration. He has prepared habitat mitigation plans, performed quantitative monitoring, and provided adaptive management recommendations to ensure success.

Geographic Information Systems: Mr. Henry is proficient with ESRI's ArcView, ArcGIS, ArcInfo, AutoCAD, and numerous extensions to these applications. His expertise has played an integral part in the management and development of GIS products for various environmental investigations. Mr. Henry is skilled at creating the electronic GIS media increasingly being sought by land managers and regulators for identifying solutions and facilitating expedient project completion.

Threatened, Endangered, and Sensitive Species: Mr. Henry has conducted focused surveys for federal- and state-listed species within central and southern California including the California red-legged frog, arroyo toad, and vernal pool fairy shrimp. He has completed numerous biological constraints analyses, biological assessments, CEQA- and NEPA-level environmental assessments, and designed and implemented habitat conservation plans.



Education

- M.S., Environmental Science (Concentration: Applied Ecology), (Highest Honors), Indiana University, Bloomington, Indiana, 2003
- B.A., Environmental Science/Biology, (Summa Cum Laude) Scripps College, Claremont, California, 2001

Permits/Certifications

- Certified Arborist, International Society of Arboriculture (ISA), #WE-8010A
- California Department of Fish and Game (CDFG) Scientific Collecting Permit #801241-04

Continuing Education

- Arboriculture: Planning, Planting, and Pests, Western Tree Management Symposium, 2007
- Federal Wetlands/Waters Policy, Wetlands Training Institute, 2006
- Identifying and Appreciating the Native and Naturalized Grasses of California, California Native Grassland Association, 2005
- Wetland Delineation, Wetlands Training Institute, 2004

Recognition

- Cambridge Who's Who Among Executive and Professional Women, 2007-2008
- Phi Beta Kappa (Academic Honor Society), Sigma Xi (Scientific Research Society), Pi Alpha Alpha (National Honor Society for Public Affairs and Administration)

Expertise

Joanna Nigro has nine years of academic and professional experience in environmental science and biology. Her undergraduate thesis included a study of arthropod biodiversity in the Municipal Forest of Atenas as a result of on-location research in Costa Rica.

As a consultant she has participated in surveys for threatened and endangered species, mitigation monitoring, general biological assessments, regulatory permitting, jurisdictional delineations, and prepared biological assessments and documentation for projects throughout southern California. She has worked as the project manager for several projects, including contracts with the County of Orange and private developers in Riverside, Los Angeles and San Bernardino counties.

Experience

Jurisdictional Delineations: Ms. Nigro's jurisdictional delineation project experience includes, Highland Crossing, Desert Hot Springs, Box Springs Road, Moreno Valley, and Cornishe of Bighorn in Riverside County; Carrari Ranch and Big Bear in San Bernardino County; and Fullerton Creek, Orange County.

Threatened & Endangered Species: Ms. Nigro has conducted burrowing owl, screech owl, desert tortoise, reptile, raptor, and San Joaquin kit fox surveys and assisted with southwestern willow flycatcher, California gnatcatcher and fairy shrimp surveys in Orange, Riverside, Los Angeles, Kern, and San Bernardino counties.

In addition to faunal surveys, Ms. Nigro has conducted sensitive plant surveys for properties in Lytle Creek, Laguna Beach, and Bakersfield as well as in the Orange, Riverside, San Diego, and San Bernardino counties. She has also worked with a variety of plant species including scalebroom, Joshua trees, and non-native artichoke thistle.

Arboriculture: Over the past two years she has completed numerous tree surveys and submitted many tree reports to both city and county jurisdictions throughout southern California. Her experience in arboriculture ranges from Joshua trees in the high desert to street trees in an urban setting.

Mitigation Monitoring/Restoration: Ms. Nigro has participated in wetland mitigation monitoring on the 800-acre Lake Hills Property in Riverside County and 2-acre riparian mitigation monitoring on the Crown Hill property also in Riverside County.

While with the National Audubon Society she conducted an inventory of riparian vegetation along Bell Creek and studied the differences in non-native plant distribution below and above urban runoff confluence as a part of an independent research project. She has also instructed environmental education programs for the Starr Ranch Junior Biologists Program in Orange County. While at Starr Ranch, she assisted in the restoration of native plants and removal of non-native species; scat and track identification; developed educational materials for mammal, reptile, amphibian, and bird identification; conducted aquatic invertebrate studies and radio telemetry bird surveys.



Education

- Master of Environmental Science & Management (MESM), University of California, Santa Barbara, California, 2002
- B.A., Geography/Environmental Studies, University of California, Los Angeles, California, 2000

Permits/Certifications

- U.S. Fish and Wildlife Service (USFWS) Coastal California Gnatcatcher Permit #TE085157-0
- California Department of Fish and Game (CDFG) Scientific Collecting Permit #SC-007969
- CDFG Sensitive Plant Voucher Collecting Permit #07013

Continuing Education

- 10-week lab and field course on Native Plants of Orange County
- Two California Tiger Salamander Conference Workshops, Western Section of the Wildlife Society
- Introductory Birding Skills, Warblers of North America, Audubon Society

Expertise

Susan Anon has five years of experience as a consulting biologist involving field ecology and restoration, ornithology, terrestrial and marine biology, and laboratory techniques and research.

Ms. Anon has worked on projects from “cradle to grave” and understands the full process that enables a project from an initial constraints analysis to permitted and approved by the appropriate regulatory agencies.

Ms. Anon completed a year-long group Master’s thesis focusing on the California red-legged frog and the western spadefoot toad. Her thesis involved the preparation of a restoration plan for the potential relocation of these protected amphibian species.

Experience

Sensitive Species Surveys: Ms. Anon has conducted ecological studies throughout California habitats. She has also worked in southeastern Arizona, in Pima and Cochise counties, as well as in Santa Barbara County, California. Her work included standardized vegetation sampling techniques and classification such as identification of natural community types, individual species, ecotones, biological diversity, and vegetative cover. She has performed sensitive plant surveys utilizing a variety of vegetation survey techniques, vegetation mapping, and has assisted with jurisdictional delineations.

Avian Surveys: She has also conducted surveys for the Federally-threatened coastal California gnatcatcher and assisted with least Bell’s vireo, southwestern willow flycatcher, and California red-legged frog surveys. She has also assisted with protocol burrowing owl surveys and general raptor surveys.

Biological Evaluation/Assessment: Ms. Anon has written several biological resource assessments to satisfy California Environmental Quality Act (CEQA) requirements and has managed several projects including the large-scale Lytle Creek Ranch Specific Plan. Other project management experience covers a range of issues including CEQA, sensitive species, tree ordinance compliance, jurisdictional waters, restoration, conservation easements, and regulatory permitting.

She has taken a number of professional workshops on Environmental Impact Assessment, focused on the CEQA and the National Environmental Policy Act. She also has experience working with the California Coastal Act and the Endangered Species Act.

Habitat Restoration: As part of Ms. Anon’s Master’s thesis involving the creation of an adaptive management plan. For this, she participated in reference site selection and data collection, development of a monitoring protocol, and creation of success criteria for the California red-legged frog and the western spadefoot toad. At PCR Ms. Anon has assisted in the preparation of several habitat mitigation and monitoring plans for habitat creation, restoration, and preservation.



Education

- M.S. Candidate, Wetlands Conservation, University of Massachusetts, Amherst
- B.S., Environmental Studies (Minor: Botany), University of Massachusetts, Amherst, 1993

Permits/Certifications

- Certified Arborist, International Society of Arboriculture (ISA), #WE-7618A

Professional Affiliations

- ISA Member
- ISA Western Chapter Member
- Xi Sigma Pi Academic Honor Society Member

Summary

Richard Haywood is a wetlands ecologist with over 12 years of professional and academic experience in the field of wetlands ecology, conservation, and creation. He is experienced in State & federal regulations, including the Clean Water Act (CWA), Sections 401 and 404, the Endangered Species Act (ESA) (California and federal), the Porter-Cologne Water Quality Control Act Fish and Game Code 1600 permitting processes, the Streambed Alteration Program, and agency coordination for application requirements associated with these regulations, i.e., 401 Water Quality Certifications, Section 7 of the Federal ESA, and a U.S. Army Corps of Engineers (ACOE) Programmatic General Permit. He employs his skills as a wetlands ecologist to facilitate the permitting process and agency coordination to support the development of residential developments, commercial sites, and institutional centers.

Mr. Haywood is an ISA-certified arborist and is experienced in conducting general tree inventory surveys, formal assessment surveys for oaks and other native tree species under numerous municipal and county tree preservation ordinances.

Aspects of these surveys include species identification, an assessment of each tree's individual health and structural condition and providing recommendations for the preservation or mitigation of each trees assessed.

Experience

Wetland Ecology: Mr. Haywood has performed several aspects of aquatic and wetland ecology. He has designed and overseen the construction and planting of multiple wetland replication areas and stormwater Best Management Practices designs and has follow up inspections for success determination of these areas, including extended detention basins and vegetated swales. He routinely performs wetlands delineations, including vegetative dominance tests and soil identification to complete ACOE field data plots. He is experienced in reading and understanding technical engineering and survey plans and keeps abreast of regulatory issues and wetland delineation techniques through the attendance of continuing education courses and workshops.

Mr. Haywood has performed numerous jurisdictional delineations within Orange, Riverside, and San Bernardino counties. He prepared a request for a determination of non-jurisdiction submitted to ACOE for a project in San Bernardino County, and prepared the submittal and performed on-going coordination of an Individual Permit application for a project near Rancho Cucamonga, which included a Section 7 Biological Assessment and on-going coordination with agency representatives. He performed a and a CWA Section 404(b)1 alternatives analysis for a proposed project in San Marcos near unincorporated areas of Riverside and San Bernardino counties. Mr. Haywood also completed the Individual Permitting process for a large Orange County project which included extensive coordination with the U.S. Fish and Wildlife Service, and a large Riverside County project which required extensive coordination with the California Department of Fish and Game under the Western Riverside County Multiple Species Habitat Conservation Plan.

In addition to his technical expertise, Mr. Haywood is also skilled in giving public presentations and coordinating project design and objectives with project team members including civil engineers, and registered land surveyors. As a result he regularly and effectively coordinates and leads site visits with clients, various regulatory agencies representatives, and other environmental professionals.

Arboriculture: Mr. Haywood's current projects include a number of large tree surveys in Los Angeles, Riverside, and San Bernardino counties. These projects include several Joshua Tree surveys in the high desert areas in the Victorville and Palmdale areas, and oak tree surveys and inventories in the City of Los Angeles. Mr. Haywood keeps up with current issues through the attendance of continuing education courses regarding plant identification and tree health and assessment techniques.

Wildlife: Mr. Haywood has conducted or assisted in various biological surveys throughout Orange, Riverside and San Bernardino counties, including presence/absence surveys for desert tortoise and burrowing owl.

Academic: As a part of his Master's project he maintained and experimented with a pilot plant scale constructed wetland. This project included the design, construction and maintenance of multiple constructed wetland "cells."



Education

- Master of Environmental Science & Management (MESM), University of California, Santa Barbara, California, 2006
- B.S., Ecology, Ethology, and Evolution, University of Illinois, Urbana-Champaign, Illinois, 2004

Continuing Education

- Plants of Orange County, Santa Ana College, 2007
- The Technical Writer's Workshop, National Seminar Group, 2007
- Introductory Birding Skills Workshop, Sylvia Gallagher, 2006

Expertise

Erin Hardison has over two years of experience in restoration ecology and environmental consulting. Her relevant coursework includes Restoration Ecology, Landscape Ecology, Plant Biology, Animal Behavior, Environmental Planning, Environmental Law and Policy, and Conservation Planning.

As a part of her Master's group project she compiled an Index of Biotic Integrity for sites within the Los Padres National Forest to evaluate stream condition. She also helped examine the impact of surrounding land uses on stream condition, using Geographic Information Systems (GIS). The results of the project led to the development of a monitoring plan to identify impaired streams in the forest and to the development of management recommendations that regulate land uses in order to improve stream condition.

Experience

Ms. Hardison has gained experience with biological constraints analyses, biological resource assessments, nesting bird surveys, jurisdictional delineations, sensitive species surveys, and mitigation monitoring and reporting for projects throughout southern California.

Prior to joining PCR, Ms. Hardison has experience removing and protecting steelhead/rainbow trout, Arroyo chub, three-spine stickleback, and Santa Ana sucker during streambed diversion projects in Ventura County.

Restoration Ecology: Ms. Hardison has experience identifying both native and invasive plant species in oak woodland, prairie, and coastal sage scrub communities and has assisted in the restoration of native species. Ms. Hardison has planted and maintained native species in coastal sage scrub communities, and removed invasive species by hand-pulling, solarizing, and burning. She is also trained and experienced in using a chainsaw and has been licensed to use herbicides for removal of invasive species.



APPENDIX B: FLORAL AND FAUNAL COMPENDIUM

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APPENDIX B: FLORAL AND FAUNAL COMPENDIUM

ANGIOSPERMS (DICOTYLEDONS)

SCIENTIFIC NAME	COMMON NAME
Amaranthaceae	Amaranth Family
<i>Amaranthus</i> sp.	pigweed
Anacardiaceae	Sumac or Cashew Family
<i>Malosma laurina</i>	laurel sumac
* <i>Schinus molle</i>	California pepper tree
<i>Toxicodendron diversilobum</i>	poison oak
Apiaceae	Carrot Family
* <i>Foeniculum vulgare</i>	sweet fennel
Asclepiadaceae	Milkweed Family
<i>Asclepias fascicularis</i>	narrow-leaf milkweed
Asteraceae	Sunflower Family
<i>Ambrosia</i> sp.	ragweed
<i>Baccharis pilularis</i>	coyote brush
<i>Baccharis salicifolia</i>	mule fat
* <i>Centaurea melitensis</i>	tocalote
* <i>Carduus pycnocephalus</i>	Italian thistle
* <i>Cirsium</i> sp.	thistle
<i>Gnaphalium californicum</i>	California everlasting
<i>Heterotheca sessiliflora</i>	hairy golden-aster
<i>Isocoma menziesii</i>	coastal goldenbush
* <i>Lactuca serriola</i>	prickly lettuce
* <i>Silybum marianum</i>	milk thistle
* <i>Stephanomeria virgata</i>	twiggy wreathplant
Brassicaceae	Mustard Family
* <i>Hirschfeldia incana</i>	shortpod mustard
<i>Raphanus sativus</i>	radish
Caprifoliaceae	Honeysuckle Family
<i>Sambucus mexicana</i>	Mexican elderberry
Convolvulaceae	Morning-Glory Family
<i>Calystegia macrostegia</i>	western bindweed

? Potentially present species

* Non-native species

ANGIOSPERMS (DICOTYLEDONS)

SCIENTIFIC NAME	COMMON NAME
Euphorbiaceae	Spurge Family
<i>Eremocarpus setigerus</i>	dove weed
<i>Chamaesyce albomarginata</i>	rattlesnake weed
Fabaceae	Legume Family
* <i>Acacia</i> sp.	acacia
* <i>Melilotus</i> sp.	sweet clover
Fagaceae	Oak Family
<i>Quercus agrifolia</i>	coast live oak
Geraniaceae	Geranium Family
* <i>Erodium cicutarium</i>	red-stemmed filaree
Juglandaceae	Walnut Family
<i>Juglans californica</i> var. <i>californica</i>	Southern California black walnut
Lamiaceae	Mint Family
* <i>Marrubium vulgare</i>	horehound
Malvaceae	Mallow Family
<i>Malva parviflora</i>	cheeseweed
Moraceae	Mulberry Family
<i>Ficus carica</i>	common fig
Myrtaceae	Myrtle Family
* <i>Eucalyptus</i> sp.	gum tree
Polygonaceae	Buckwheat Family
<i>Polygonum</i> sp.	knotweed
* <i>Rumex crispus</i>	curly dock
Rosaceae	Rose Family
<i>Heteromeles arbutifolia</i>	toyon
Salicaceae	Willow Family
<i>Salix gooddingii</i>	black willow
<i>Salix lasiolepis</i>	arroyo willow
Scrophulariaceae	Figwort Family
<i>Veronica</i> sp.	speedwell
Solanaceae	Nightshade Family
* <i>Datura wrightii</i>	jimson weed

* *Non-native species*

ANGIOSPERMS (MONOCOTYLEDONS)

SCIENTIFIC NAME	COMMON NAME
Arecaceae	Palm Family
* <i>Washingtonia robusta</i>	Mexican fan palm
Poaceae	Grass Family
* <i>Avena sp.</i>	wild oat
* <i>Bromus diandrus</i>	ripgut grass
* <i>Bromus madritensis</i>	red brome
<i>Distichlis spicata</i>	saltgrass
Typhaceae	Cattail Family
<i>Typha sp</i>	cattail

* *Non-native species*

AMPHIBIANS

SCIENTIFIC NAME

COMMON NAME

Plethodontidae

? *Batrachoseps major*

Bufonidae

? *Bufo boreas*

Hylidae

? *Hyla regilla*

Lungless Salamanders

garden slender salamander

True toads

western toad

Tree frogs and Relatives

Pacific treefrog

* *Non-native species*

REPTILES

SCIENTIFIC NAME	COMMON NAME
Phrynosomatidae	Spiny Lizards
<i>Sceloporus occidentalis</i>	western fence lizard
? <i>Uta stansburiana</i>	side-blotched lizard
Scincidae	Skinks
? <i>Eumeces skiltonianis skiltonianus</i>	Skilton's skink
Teiidae	Whiptails and Relatives
? <i>Cnemidoporus tigris stejnegeri</i>	coastal whiptail
Anguidae	Alligator Lizards and Relatives
? <i>Elgaria multicaudata webbii</i>	San Diego alligator lizard
Leptotyphlopidae	Slender Blind Snakes
? <i>Leptotyphlops humilis</i>	western blind snake
Colubridae	Colubrid snakes
? <i>Diadophis punctatus</i>	ring-necked snake
? <i>Masticophis lateralis lateralis</i>	chaparral whipsnake
? <i>Pituophus catenifer annectens</i>	San Diego gopher snake
? <i>Lampropeltis getula californiae</i>	California kingsnake
Viperidae	Vipers
? <i>Crotalus viridis helleri</i>	southern pacific rattlesnake

* *Non-native species*

BIRDS

SCIENTIFIC NAME	COMMON NAME
Cathartidae	New World Vultures
<i>Cathartes aura</i>	turkey vulture
Accipitridae	Hawks
<i>Accipiter cooperii</i>	Cooper's hawk
? <i>Accipiter striatus</i>	sharp-shinned hawk
<i>Buteo jamaicensis</i>	red-tailed hawk
<i>Buteo lineatus</i>	red-shouldered hawk
? <i>Elanus leucurus</i>	white-tailed kite
Falconidae	Falcons
<i>Falco sparverius</i>	American kestrel
Charadriidae	Plovers
<i>Charadrius vociferus</i>	killdeer
Columbidae	Pigeons and Doves
<i>Zenaida macroura</i>	mourning dove
Trochilidae	Hummingbirds
<i>Calypte anna</i>	Anna's hummingbird
Tyrannidae	Tyrant Flycatchers
<i>Sayornis nigricans</i>	black phoebe
Corvidae	Jays and Crows
<i>Aphelocoma californica</i>	western scrub-jay
<i>Corvus brachyrhynchos</i>	American crow
Aegithalidae	Bushtits
<i>Psaltriparus minimus</i>	bushtit
Troglodytidae	Wrens
<i>Thryomanes bewickii</i>	Bewick's wren
Muscicapidae	Wrentits
<i>Chamaea fasciata</i>	wrentit
Mimidae	Thrashers
<i>Mimus polyglottos</i>	northern mockingbird
Laniidae	Shrikes
? <i>Lanius ludovicianus</i>	loggerhead shrike
Parulidae	Wood Warblers and relatives
<i>Dendroica coronata</i>	yellow-rumped warbler

* *Non-native species*

BIRDS

SCIENTIFIC NAME

COMMON NAME

Cardinalidae*Pheucticus melanocephalus***Cardinals**

black-headed grosbeak

Emberizidae? *Ammodramus savannarum**Melospiza melodia**Pipilo crissalis**Pipilo maculatus***Emberizids**

grasshopper sparrow

song sparrow

California towhee

spotted towhee

Fringillidae*Carpodacus mexicanus***Finches**

house finch

* *Non-native species*

MAMMALS

SCIENTIFIC NAME	COMMON NAME
Didelphidae <i>Didelphis virginiana</i>	Opossums Virginia opossum
Soricidae ? <i>Sorex orantus</i>	Shrews orante shrew
Talpidae ? <i>Scapanus latimanus</i>	Moles broad-footed mole
Vespertilionidae ? <i>Myotis yumanensis</i> ? <i>Pipistrellus hesperus</i> ? <i>Antrozous pallidus</i>	Evening bats Yuma Myotis western pipistrelle pallid bat
Leporidae ? <i>Sylvilagus bachmani</i>	Rabbits and Hares brush rabbit
Sciuridae <i>Spermophilus beecheyi</i>	Squirrels California ground squirrel
Geomysidae <i>Thomomys bottae</i>	Pocket gophers Botta's pocket gopher
Heteromyidae ? <i>Chaetodipus fallax fallax</i>	Pocket Mice and Kangaroo Rats northwestern San Diego pocket mouse
Muridae ?* <i>Mus musculus</i> ? <i>Peromyscus maniculatus</i> ?* <i>Rattus rattus</i> ? <i>Neotoma fuscipes</i> ? <i>Neotoma lepida intermedia</i>	Mice, Rats and Voles house Mouse deer mouse black rat dusky-footed woodrat San Diego desert woodrat
Canidae <i>Canis latrans</i>	Wolves and Foxes coyote
Procyonidae <i>Procyon lotor</i>	Raccoons and Relatives raccoon
Mephitidae ? <i>Mephitis mephitis</i>	Skunks striped skunk
Felidae ? <i>Lynx rufus</i>	Cats bobcat

* Non-native species