City of Chino Hills



Jully 17, 2023 3151 Airway Ave, Suite F208 Costa Mesa, California 92626

City of Chino Hills Chino Valley Fire District 3969 College Crest Drive Los Angeles, CA 90065

Subject: Biological Reconnaissance Assessment for Report regarding the Fire Station 68 and the Essential Resource Facility (ERF) South of Intersection of Pipeline Avenue and Soquel Canyon Road, Chino Hills, California

Chambers Group, Inc. (Chambers Group) was retained by the City of Chino Hills to conduct a literature review and biological reconnaissance-level survey for the Chino Hills Fire Station 68 (Project). The purpose of this survey was to document existing vegetation communities, identify special status species with a potential for occurrence, and map habitats that could support special status wildlife species, as well as evaluate potential impacts of the Project to these resources.

Project Site Location and Description

The 3.74-acre Project site is located south of the intersection of Pipeline Avenue and Soquel Canyon Road in Chino Hills, San Bernardino County, California. The site is located within the United States Geological Survey (USGS) *Prado Dam,* California 7.5-minute topographic quadrangle. The property is currently a vacant undeveloped lot surrounded by single-family residential homes to the north, east, and west, and Chino Hills State Park to the south. The Project site is located along a moderately steep, northeast-facing slope with an elevational range of approximately 940 to 860 above mean sea level (amsl). A map of the Project location and Project vicinity is provided in Attachment 1: Figure 1.

Literature Review

Prior to performing the biological reconnaissance survey, a literature review was conducted for soils, jurisdictional water features that contribute to hydrology, and special status species known to occur within the Project's vicinity (approximately 5 miles) of the Project site.

Soils

Prior to performing the biological reconnaissance survey, soil maps for the Project site were referenced in accordance with categories set forth by the U.S. Department of Agriculture (USDA) Soil Conservation Service and the USDA Natural Resources Conservation Service (NRCS 2023) Web Soil Survey (USDA 2023).

Hydrology

Prior to performing the field survey, a database review of the U.S. Fish and Wildlife Service's (USFWS 2023) National Wetlands Inventory (NWI) and National Hydrography Database (NHD) blueline drainages was referenced (NHD 2023). A general assessment of waters potentially regulated by the U.S. Army Corps of Engineers (USACE), California Regional Water Quality Control Board (RWQCB), and California Department of Fish and Wildlife (CDFW) was conducted for the Survey 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,





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channel, or bank of any river, stream, or lake which supports fish or wildlife. A desktop assessment was conducted of available data prior to the biological reconnaissance survey in the field.

Special Status Habitats and Species

The most recent records of the California Natural Diversity Database (CNDDB) managed by CDFW (2023) and the California Native Plant Society's Electronic Inventory (CNPSEI) of Rare and Endangered Vascular Plants of California (CNPS 2023) were reviewed for the following quadrangles containing and surrounding the Project: *Prado Dam, Corona North, Guasti, Ontario, San Dimas, Yorba Linda, Orange, Black Star Canyon,* and *Corona South,* California USGS 7.5-minute quadrangles. These databases contain records of reported occurrences of federally or State listed endangered or threatened species, California Species of Concern (SSC), or otherwise special status species or habitats that may occur within or in the immediate vicinity of the Project site (Attachment 1: Figure 2 – CNDDB Occurrences Map).

Biological Reconnaissance Survey

The biological reconnaissance survey was conducted on foot within the Project site. During the survey, the biologists identified and mapped all vegetation communities found within the site onto aerial photographs (Attachment 1: Figure 3 – Vegetation Communities Map). Plant communities were determined in accordance with the *Manual of California Vegetation*, Second Edition (Sawyer et al. 2009). Plant nomenclature follows that of The Jepson Manual, Vascular Plants of California, Second Edition (Baldwin et al. 2012). Plant and wildlife species observed or detected within the Project site were recorded (Attachments 2 and 3). Site photographs were taken depicting current site conditions (Attachment 4).

Results

Chambers Group biologists Heather Franklin and Corey Jacobs conducted the biological reconnaissance survey within the Project site to identify vegetation communities, the potential for occurrence of special status species, and/or habitats that could support special status wildlife species. The survey was conducted on foot between 0800 and 1300 hours on March 6, 2023. Weather conditions during the survey included temperatures ranging from 56 to 60 degrees Fahrenheit, wind speeds between 1 and 3 miles per hour, with 40 percent cloud cover and 0 percent precipitation.

Biological Site Conditions

Soils

According to the results from the USDA NRCS Web Soil Survey (USDA 2023), the Project site is in San Bernardino County, CA677 part of the soil map. Two soil types are known to occur within and/or adjacent to the site. The soil types are described below.

- Nacimiento clay loam occurs within the majority of the Project site. The parent material is residuum weathered
 derived dominantly from calcareous shale. The available water storage is classified as low (approximately 4.8
 inches) with a depth to the water table of more than 80 inches (USDA 2023).
- Fontana clay loam occurs within 10 percent of the Project site. This occurs at the very northwest corner of the
 Project site. The parent material is residuum weathered from sedimentary rock. The available water storage is
 classified as low (approximately 4 inches) with a depth to the water table of more than 80 inches (USDA 2023).

Hydrology

No jurisdictional features such as drainages or swales were observed within the Project site (Attachment 1: Figure 4 – Jurisdictional Waters Map) during the survey. A large NWI/NHD mapped blue-line feature occurs directly south/southwest of the site outside of the Project boundary. The feature was historically mapped by the NHD as a riverine system flowing through the Project site. However, it appears that the historical flow path was altered during







City of Chino Hills

the development of the residential neighborhood surrounding the site. The feature now flows north through a cement-lined culvert located south and outside of the Project boundary, goes subsurface under the site, and continues under Soquel Canyon Parkway in a northeast direction. The drainage facilitates flow during storm events from the hills to the south within Chino Hills State Park.

One small depressional area was observed within the middle portion of the site near the northern boundary. The depressional feature is likely the result of human disturbance and manipulation of the area. Based on historical imagery of the area, the depression appears to have been excavated in 2014, and the site appears to be maintained on an annual basis. Currently, the area is composed primarily of non-native grasses with the exception of a few immature arroyo willow (*Salix lasiolepis*) and one Peruvian pepper tree (*Schinus molle*) located along the southern side of the depression. The area lacked evidence of hydrology and a test soil pit revealed non-hydric soils. Based on a lack of hydrological connectivity to a water feature in the area and the lack of hydric soils, this area is not classified as a wetland.

In addition, two areas inundated with water were observed within the northeast and northwest corners of the Project site. No hydrological features (i.e., ordinary high water mark, channelization, flow patterns) were observed in this area. Both areas are fed solely by nuisance water from the sprinklers located along the adjacent hillsides for ornamental vegetation within the residential community. Soil pits were investigated in each area. Soil pit one was taken in the northwest area and revealed a soil characteristic of 2.5y 4/1 with 10 percent redox of 2.5y 7/8 and consisted of clay loam. Evidence of hydrology included saturated soils and a water table at 10 inches. No hydrophytic vegetation was observed within the area. Soil pit two was taken in the northeast area and revealed a soil characteristic of 2.5y 4/1 with no redox and consisted of sandy clay loam. Evidence of hydrology included saturated soils and a water table at 3 inches. No hydrophytic vegetation was observed within the area. As stated above, both areas a fed completely by nuisance water from the surrounding residential community and lack any natural sources of hydrology or connectivity to hydrologic features. In addition, both areas lack hydrophytic vegetation. Therefore, neither inundated area qualifies as a wetland. Wetland determination forms are provided in Attachment 5.

Only one drainage feature was observed during the survey, located outside (south) of the Project. No impacts are anticipated to occur to the drainage feature; therefore, no impact to waters of the United States or waters of the State are anticipated to occur as a result of this Project.

Vegetation Communities and Other Areas

Two vegetation communities or land types were found within the Project site during the biological reconnaissance survey, Bare Ground and Non-Native Grassland. The majority of the Project site is comprised of Non-Native Grassland. The communities are described in the following subsections.

Bare Ground

Bare Ground areas are generally devoid of vegetation but do not contain any form of pavement. Bare Ground has higher water permeability and higher fossorial rodent habitat potential. Bare Ground is present throughout the northern portion of the Project site.

Non-Native Grassland

Non-Native Grassland, as described by Sawyer et al. (2009), is dominated by a continuous to open ground layer of annual grasses and herbs, less than 4 feet in height. They occur in foothills, waste places, rangelands, or openings in woodlands. The floristic composition of this vegetation community matches the non-native grassland described by Holland (1986); it exists on fine-textured, usually clay soils in valleys and foothills below 3,000 feet elevation. This community includes annual species that germinate with the onset of the late fall rains, with growth, flowering and seed production occurring from winter through spring. Plants usually die and persist as seeds through the summer-fall dry season (Holland 1986).

Non-Native Grassland was present throughout the majority of the Project site. Native species identified within this community within the Project site included common fiddleneck (Amsinckia menziesii), mediterranean stork's-bill







City of Chino Hills

(Erodium malacoides), and silver bush lupine (Lupinus albifrons var. albifrons). Non-native species within the Project site included ripgut grass (Bromus diandrus), shortpod mustard (Hirschfeldia incana), Foxtail chess (Bromus madritensis), wild oat (Avena fatua), rat-tail fescue (Festuca myuros), Italian ryegrass (Festuca perennis), glaucous foxtail barley (Hordeum murinum), annual bluegrass (Poa annua), tocalote (Centaurea melitensis), blessed thistle (Centaurea benedicta), bristly ox-tongue (Helminthotheca echioides), common sow thistle (Sonchus oleraceus), black mustard (Brassica nigra), shepherd's purse (Capsella bursa-pastoris), London rocket (Sisymbrium irio), Russian thistle (Salsola tragus), white sweetclover (Melilotus albus), cheeseweed (Malva parviflora), scarlet pimpernel (Anagallis arvensis), and curly dock (Rumex crispus). There are 2.41 acres of Non-Native Grassland within the Project site.

General Plants

A total of 24 plant species were observed within the Project site during the biological reconnaissance survey (Attachment 2: Plant Species Observed). Plant species observed during the survey were representative of the existing Project site conditions. No special status plant species were observed during the survey.

General Wildlife

A total of 14 wildlife species were observed within the Project site during the biological reconnaissance survey. Wildlife species observed or detected during the survey were characteristic of the existing Project site conditions. A complete list of wildlife species observed or detected is provided in Attachment 3 – Wildlife Species Observed/Detected List.

Sensitive Species

Special Status Species

The following information is a list of abbreviations used to help determine special status biological resources potentially occurring in the Survey Area.

CNPS California Rare Plant Rank (CRPR)

1A = Plants presumed extinct in California.

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

Plants rare, threatened or endangered in California but more common elsewhere in their range.

3 = Plants about which we need more information, a review 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

State

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







City of Chino Hills

RARE = State listed; Rare (Listed "Rare" animals have been re-designated as Threatened, but
Rare plants have retained the Rare designation.)

SSC = State Species of Special Concern

WL = CDFW Watch List

FP = CDFW Fully Protected

The following information was used to determine biological resources potentially occurring within the Survey Area. The criteria used to evaluate the potential for special status species to occur within the Survey Area are outlined in Table 1.

Table 1: Criteria for Evaluating Special Status Species Potential for Occurrence (PFO)

PFO*	CRITERIA
Absent:	Species is restricted to habitats or environmental conditions that do not occur within the
Absent.	Survey Area.
	Historical records for this species do not exist within the vicinity (approximately 5 miles) of the Survey
Low:	Area, and/or habitats or environmental conditions needed to support the species are
	of poor quality.
	Either a historical record exists of the species within the vicinity of the Survey Area (approximately
Madayata	5 miles) and marginal habitat exists on the Survey Area, or the habitat requirements or
Moderate:	environmental conditions associated with the species occur within the Survey Area, but no historical
	records exist within 5 miles of the Survey Area.
	Both a historical record exists of the species within the Survey Area or its immediate vicinity
High:	(approximately 1 mile), and the habitat requirements and environmental conditions associated with
	the species occur within the Survey Area.
Present:	Species was detected within the Survey Area at the time of the survey.

^{*}PFO: Potential for Occurrence

Special Status Plant Species

Database searches (CDFW 2023; CNPS 2023) resulted in a list of six federally and/or State listed threatened, endangered, or otherwise special status plant species documented to historically occur within the vicinity of Project site. Of the six plant species, it was determined that all six plant species are considered absent from the Project site due to the lack of suitable habitat or the Project site. No special status plant species were found during the biological reconnaissance survey.

The following 6 plant species are considered Absent from the Survey Area due to lack of suitable habitat:

- Braunton's milk-vetch (Astragalus brauntonii)—FE, CRPR 1B.1
- Gambel's water cress (Nasturtium gamnbelii)—FE, ST, CRPR 1B.1
- Nevin's barberry (Berberis nevinii)—FE, SE, CRPR 1B.1
- San Fernando valley spineflower (Chorizanthe parryi var. Fernandina)—SE, CRPR 1B.1
- Santa Ana River woollystar (Eriastrum densifolium ssp. Sanctorum) FE, SE, CRPR 1B.1
- slender-horned spineflower (Dodecahema leptoceras)—FE, SE, CRPR 1B.1

Special Status Wildlife Species

Database searches (CDFW 2023; USFWS 2023) resulted in a list of 17 federally and/or State listed endangered or threatened, State SSC, or otherwise special status wildlife species documented to occur within the Project site. After a





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City of Chino Hills

literature review and the assessment of the various habitat types within the Project site, it was determined that 16 special status wildlife species are considered absent and one species has a high potential to occur directly adjacent to the site.

The following 16 wildlife species are considered **Absent** from the Survey Area due to the absence of suitable habitat present within the site:

- arroyo toad (Anaxyrus californicus)—FE, SSC
- bald eagle (Haliaeetus leucocephalus)—SE
- California black rail (Laterallus jamaicensis coturniculus)—ST
- California least tern (Sternula antillarum browni)—FE, SE
- coastal California gnatcatcher (Polioptila californica californica)—FT, SSC
- Delhi sands flower-loving fly (Rhaphiomidas terminates abdominalis)—FE
- quino checkerspot butterfly (Euphydryas Editha quino)—FE
- San Bernardino kangaroo rat (Dipodomys merriami parvus)—FE, SSC
- Santa Ana sucker (Catostomus santaanae)—FT
- San Diego fairy shrimp (Branchinecta sandiegonensis)—FE
- southwestern willow flycatcher (Empidonax traillii extimus)—FE, SE
- steelhead-Southern California DPS (Oncorhynchus mykiss irideus pop.10)—FE
- Stephens' kangaroo rat (Dipodomys stephensi)—FT, ST
- Swainson's hawk (Buteo swainsoni)—ST
- tricolored blackbird (Agelaius tricolor)—ST
- western yellow-billed cuckoo (Coccyzus americanus occidentails)—FT, SE

The analysis of the CNDDB search and field survey resulted in one species with a **high** potential to occur directly adjacent to the Project site.

least Bell's vireo (Vireo bellii pusillus) FE, SE

The least Bell's vireo (nesting) is a federal- and state-listed endangered subspecies of the Bell's vireo. The least Bell's vireo typically nests in willows (*Salix* spp.) and other riparian trees or shrubs, and typically nests 3 to 6 feet above the ground. This species requires densely vegetated riparian habitat along streams and rivers during the spring and summer months to breed, and foraging in habitat adjacent to its nesting territory, which is typically riparian or chaparral (USFWS 2023). The Project site itself lacks riparian habitat required by this species for nesting; however, high quality habitat occurs within the drainage feature located south of the site. In addition, least Bell's vireo has been recorded within a half a mile of the Project site in a drainage located directly west of the site. Therefore, this species has a high potential to occur within the direct vicinity of the Project site.

United States Fish Wildlife Service Critical Habitat

Critical Habitat is defined as areas of land, water, and air space containing the physical and biological features essential for the survival and recovery of endangered and threatened species. Designated Critical Habitat includes sites for breeding and rearing, movement or migration, feeding, roosting, cover, and shelter. Designated Critical Habitats require special management and protection of existing resources, including water quality and quantity, host animals and plants, food availability, pollinators, sunlight, and specific soil types. Designated Critical Habitat delineates all suitable habitat, occupied or not, that is essential to the survival and recovery of the species. According to the USFWS Critical Habitat WebGIS map, the Project site does not fall within Designated Critical Habitat (USFWS 2023). However, critical habitat for least Bell's vireo occurs approximately 2.15 miles west of the Project site.





City of Chino Hills



Conclusions and Recommendations

Hydrology

A large drainage and culvert occur directly south/southwest (outside) of the Project site. Work will not occur outside of the proposed Project boundaries; therefore, no impacts to this drainage is anticipated to occur as a result of the Project. The two small inundated areas lack any connectivity to hydrologic features and are not considered wetlands; therefore, no impacts to jurisdictional waters or wetlands are anticipated to occur as a result of Project activities. In order to minimize temporary impacts to drainage and culvert located to the south, BMP's including silt fencing and straw waddle are recommended throughout construction activities.

Special Status Plant Species

Following the literature review and after the field assessment of the various habitat types in the Project site, it was determined that of the six special status plant species with a potential to occur are considered absent within the Project site due to a lack of suitable habitat for these species. No special status species were observed during the field survey.

Special Status Wildlife Species

Following the literature review and the assessment of the various habitat types within the Project site, it was determined that 16 of 17 special status wildlife species known to occur within the Project site are considered absent due to a lack of suitable habitat for these species.

No sensitive wildlife species were observed during the field survey.

Least Bell's vireo has a high potential to occur directly adjacent to the Project site, within 500 feet of the site. Although 100 percent of the habitat that is occupied or potentially occupied by LBVI will be avoided by the proposed Project, and habitat that represents long-term conservation value for LBVI will not be impacted by the proposed Project, Chambers Group recommends the following mitigation measures to ensure the nesting/breeding activities of this species are not disrupted and no impact to habitat that represents long-term conservation value for LBVI occurs as a result of the proposed Project:

- The project impact footprint, including any construction buffer, shall be staked and fenced (e.g., with
 orange snow fencing, silt fencing or a material that is clearly visible) and the boundary shall be
 confirmed by a qualified biological monitor prior to ground disturbance. The construction site manager
 shall ensure that the fencing is maintained for the duration of construction and that any required repairs
 are completed in a timely manner.
- Equipment operators and construction crews will be informed of the importance of the construction limits by the biological monitor prior to any ground disturbance.
- Construction activities within 500 feet of the nearest extent of adjacent riparian habitat will be avoided from April 1 to August 31.
- If construction cannot be avoided from April 1 to August 31, a preconstruction survey shall be conducted
 by a qualified biologist. If LBVI or nesting LBVI are observed, a 500-foot avoidance buffer shall be
 implemented, and a biological monitor should be present throughout work activities to ensure the
 individual is not impacted by work activities.
- For any vegetation clearing or work within 100 feet of riparian habitat, a biologist will monitor to ensure encroachment into the riparian habitat area does not occur.
- Active construction areas will be watered regularly (at least once every two hours) to control dust and thus minimize impacts on vegetation within and adjacent to the riparian habitat.





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City of Chino Hills

- Construction personnel will strictly limit their activities, vehicles, equipment, and construction materials
 to the limits of disturbance and designated staging areas and routes of travel approved by the biological
 monitor.
- All equipment maintenance, staging, and dispensing of fuel, oil, coolant, or any other toxic substances
 will occur only in designated areas within the limits of disturbance and at least 200 feet from
 jurisdictional aquatic features. These designated areas will be clearly marked and located in such a
 manner as to contain runoff and will be approved by the biological monitor.
- To avoid attracting predators, the project site will be kept clear of trash and debris. All food related trash items will be enclosed in sealed containers and regularly removed from the site.

To minimize potential impacts to nesting birds protected under the Migratory Bird Treaty Act (MBTA), construction activities should take place outside nesting season (February 1 to August 31) to the greatest extent practicable.

If construction activities occur during nesting season, a preconstruction nesting bird survey should be conducted prior to initiation of ground-disturbing activities. To the maximum extent practicable, a minimum buffer zone around occupied nests should be determined by a qualified biologist to avoid impacts to the active nest. The buffer should be maintained during physical ground-disturbing activities. Once nesting has ceased and the nestlings has fledged, the buffer may be removed.

Please contact me at (949) 261-5414 or hfranklin@chambersgroupinc.com if you have any questions or concerns regarding this memo report.

Sincerely,

CHAMBERS GROUP, INC.

Heather Franklin

Senior Biologist

hfranklin@chambersgroupinc.com





City of Chino Hills



Attachments

Attachment 1: Figure 1 – Project Location and Vicinity Map

Figure 2 – CNDDB Occurrences Map
Figure 3 – Vegetation Communities Map
Figure 4 – Jurisdictional Waters Map

Attachment 2: Plant Species ObservedAttachment 3: Wildlife Species Observed

Attachment 4: Site Photographs

Attachment 5: Wetland Determination Forms





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City of Chino Hills

References

Baldwin, B.G., D.H. Goldman, D.J. Keil, R. Patterson, and T.J. Rosatti, and D.H. Wilken (editors)

2012 *The Jepson Manual: Vascular Plants of California, Second Edition.* University of California Press, Berkeley, CA.

California Department of Fish and Wildlife (CDFW)

2023 California Natural Diversity Database (CNDDB). RareFind Version 3.1.0. Database Query for the *Prado Dam, Corona North, Guasti, Ontario, San Dimas, Yorba Linda, Orange, Black Star Canyon,* and *Corona South i,* California USGS 7.5-minute quadrangles. Wildlife and Habitat Data Analysis Branch. Accessed March 2023.

California Native Plant Society (CNPS)

2023 Inventory of Rare and Endangered Plants (online edition). Rare Plant Scientific Advisory Committee, California Native Plant Society, Sacramento, California. Accessed March 2023 from http://www.cnps.org/inventory for the *Prado Dam, Corona North, Guasti, Ontario, San Dimas, Yorba Linda, Orange, Black Star Canyon*, and *Corona South*, California USGS 7.5-minute quadrangles.

National Hydrology Dataset (NHD)

2023 U.S. Department of Interior, United States Geological Survey (USGS). Official NHD Accessed March 2023 from National Hydrography Dataset | U.S. Geological Survey (usgs.gov).

Preliminary Descriptions of the Terrestrial Natural Communities of California

1986 State of California, The Resources Agency Department of Fish and Game.

Sawyer, J.O., T. Keeler-Wolf, and J.M. Evens

2009 A Manual of California Vegetation Second Edition. California Native Plant Society, Sacramento, California.

United States Department of Agriculture (USDA)

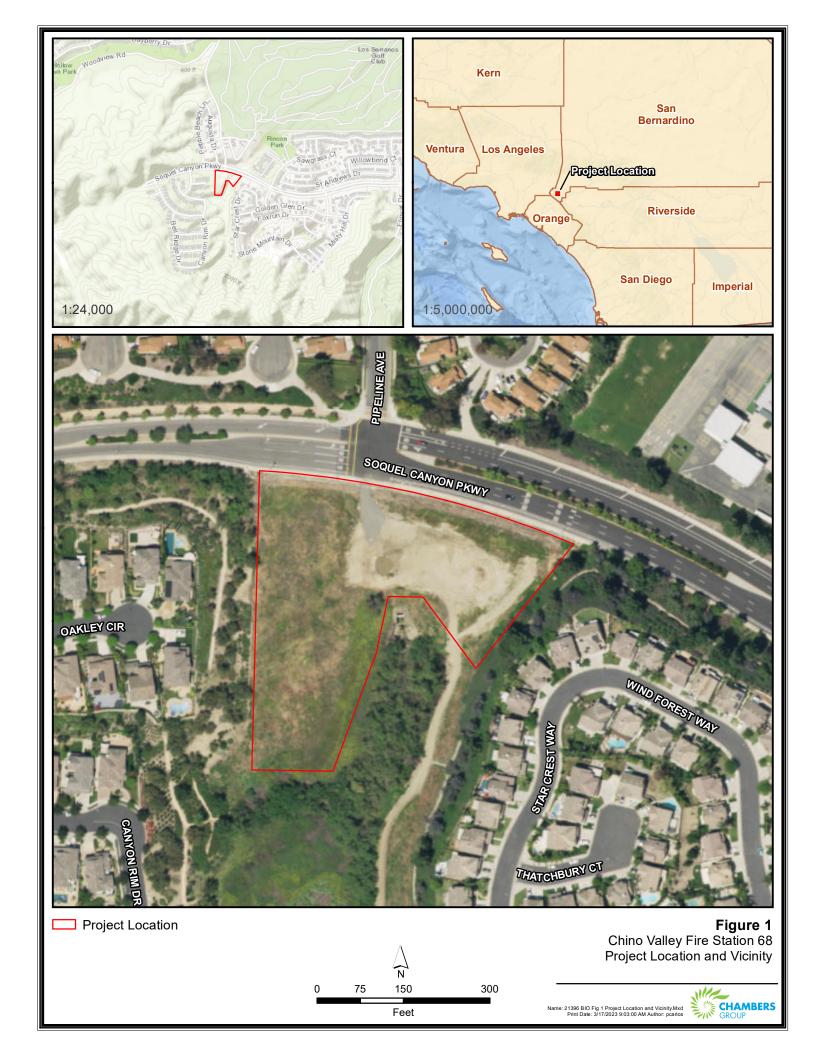
2023 Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Official Soil Series Descriptions Accessed March 2023 from https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx.

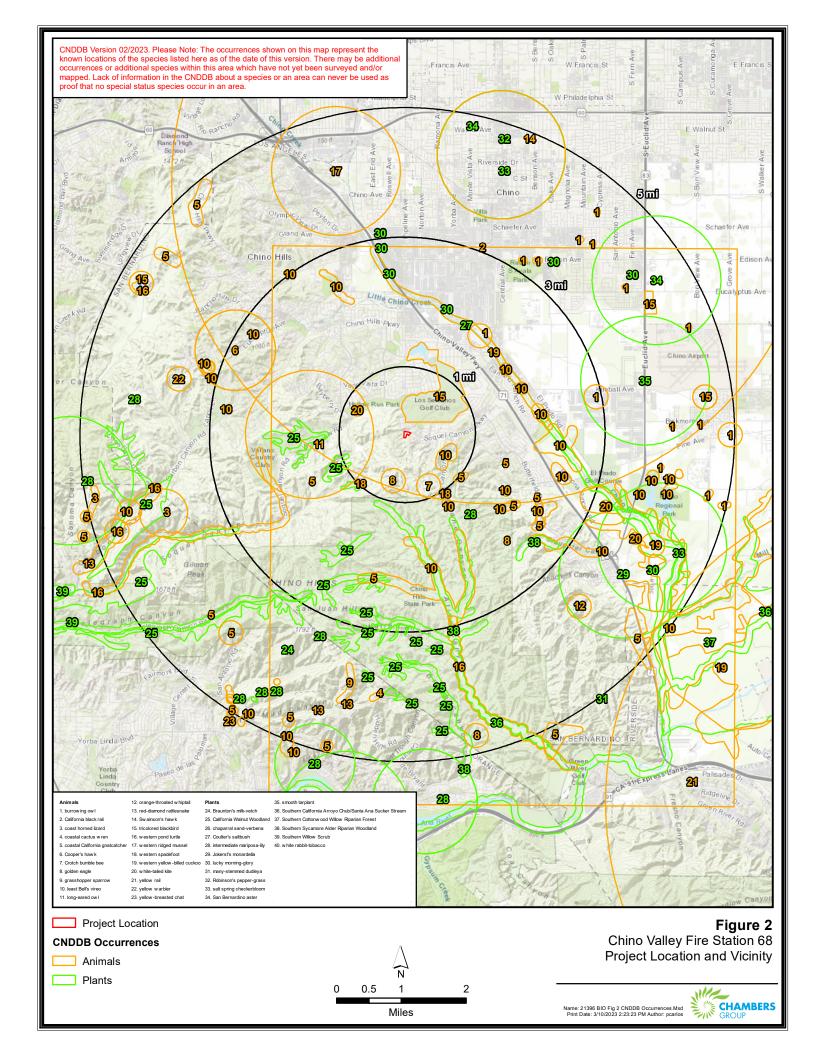
United States Fish and Wildlife (USFWS)

2023 Endangered Species Database. Accessed March 2023.

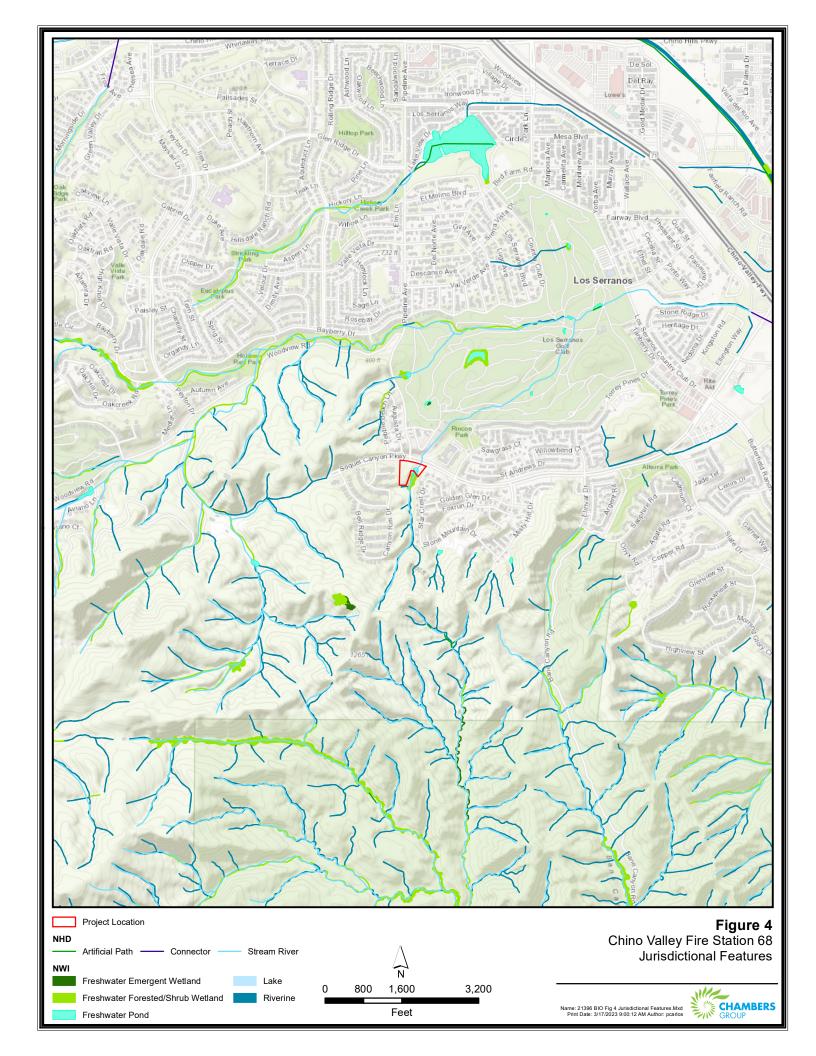












ATTACHMENT 2: PLANT SPECIES OBSERVED

Scientific Name	Common Name			
ANGIOSPERMS (EUDICOTS)				
ASTERACEAE	SUNFLOWER FAMILY			
Centaurea melitensis*	tocalote			
Centaurea benedicta*	Blessed thistle			
Helminthotheca echioides*	bristly ox-tongue			
Sonchus oleraceus*	Common sow thistle			
BORAGINACEAE	BORAGE FAMILY			
Amsinckia menziesii	Common fiddleneck			
BRASSICACEAE	MUSTARD FAMILY			
Brassica nigra*	black mustard			
Capsella bursa-pastoris*	Shepherd's purse			
Hirschfeldia incana*	shortpod mustard			
Sisymbrium irio*	London rocket			
CHENOPODIACEAE	GOOSEFOOT FAMILY			
Salsola tragus*	Russian thistle			
GERANIACEAE	GERANIUM FAMILY			
Erodium malacoides*	Mediterranean stork's-bill			
FABACEAE	LEGUME FAMILY			
Lupinus albifrons var. albifrons	Silver bush lupine			
Melilotus albus*	white sweetclover			
MALVACEAE	MALLOW FAMILY			
Malva parviflora*	cheeseweed			
MYRSINACEAE	MYRSINE FAMILY			
Anagallis (Lysimachia) arvensis*	Scarlet pimpernel			
POLYGONACEAE	BUCKWHEAT FAMILY			
Rumex crispus*	Curly dock			
SALICACEAE	WILLOW FAMILY			
Salix lasiolepis	Arroyo willow			
ANGIOSPERMS (MONOCOTS)				
POACEAE	GRASS FAMILY			
Avena fatua*	wild oat			
Bromus diandrus*	Ripgut grass			
Bromus madritensis subsp. rubens*	red brome			
Festuca myuros*	rat-tail fescue			
Festuca perennis*	Italian ryegrass			
Hordeum murinum*	glaucous foxtail barley			
Poa annua*	Annual bluegrass			

ATTACHMENT 3 – WILDLIFE SPECIES LIST

Scientific Name	Common Name
CLASS AVES	BIRDS
TROCHILIDAE	HUMMINGBIRDS
Calypte anna	Anna's hummingbird
AEGITHALIDAE	BUSHTITS
Psaltriparus minimus	bushtit
ANATIDAE	DUCKS, GEESE, SWANS
Anas discors	mallard
CHARADRIIDAE	PLOVERS
Charadrius vociferus	killdeer
CORVIDAE	JAYS & CROWS
Corvius brachyrhynchos	American crow
COLUMBIDAE	DOVES
Zenaida macroura	mourning dove
EMBERIZIDAE	EMBERIZIDS
Melospiza	song sparrow
MIMIDAE	MOCKINGBIRDS, THRASHERS
Mimus polyglottos	northern mockingbird
PICIDAE	WOODPECKERS
Melanerpes formicivorus	acorn woodpecker
TROGLODYTIDAE	WRENS
Thryomanes bewickii	Bewick's wren
TYRANNIDAE	TYRANT FLYCATCHERS
Sayornis nigricans	black phoebe
Sayornis saya	say's phoebe
FRINGILLIDAE	FINCHES
Carpodacus mexicanus	house finch
Spinus tristis	Lesser goldfinch

ATTACHMENT 4 – SITE PHOTOGRAPHS



Photo 1.

Overview of the Project site from the northwest corner of the site. Photo facing southeast.



Photo 2.

Photo showing an overview of the site from the northeast corner of project site. Photo facing southwest.



Photo 3.

Photo showing overview of the site from the southeast corner.

Photo facing north.



Photo 4.

Photo showing an overview of the site from the west side. Photo facing northeast.



Photo 5.

Photo depicts depression from disturbance with willows at the southern end of depression. Photo facing south.



Photo 6.

Photo depicts the potential wetland in the northeast corner of the Project site.
Photo facing northeast.



Photo 7.

Photo depicts
Soil Pit 1
taken near
the
northwest
corner. Photo
taken facing
northwest.



Photo 8.

Photo showing the riparian vegetation within the drainage and the concrete culvert that runs under the Project site, located outside the southeast portion of the Project boundary. Photo facing south.



Photo 9.

Photo showing the riparian vegetation and drainage located south/east of the site.

Photo facing northeast.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Chino Valley Fire Station 68	City/Cou	unty: Chino Hills	s/San Bernardino County	
Sampling Date: 03/06/2023	Applicar	nt/Owner:	City of Chino Hills State: CA	_ Sampling Point: WL1
Investigator(s): Heather Franklin and Corey Jacobs	Section	n, Township, Rai	nge:	
Landform (hillslope, terrace, etc.): depression	Local r	relief (concave, o	convex, none): concave	Slope (%): 0
Subregion (LRR): Lat:	: 33.9581	130 N	Long:117.713616 W	Datum:
Soil Map Unit Name:			NWI classification:	N/A
Are climatic / hydrologic conditions on the site typical for this time				
Are Vegetation, Soil, or Hydrology signific	-			es X No
Are Vegetation, Soil, or Hydrology natural			eeded, explain any answers in Rema	
SUMMARY OF FINDINGS – Attach site map show				
Hydrophytic Vegetation Present? Yes No X_		Is the Sampled	I Аг оа	
Hydric Soil Present? Yes X No		_	nd? Yes X No	
Wetland Hydrology Present? Yes X No				
Remarks: Not normal Circumstances as it is fed solely by nuisance within the residential community.	ce water from	the sprinklers lo	cated along the adjacent hillsides for	ornamental vegetation
within the residential community.				
VEGETATION				
	solute Dom	inant Indicator	Dominance Test worksheet:	
		ecies? Status	Number of Dominant Species	
1			That Are OBL, FACW, or FAC:	I (A)
2			Total Number of Dominant	
3			Species Across All Strata:	1 (B)
4			Percent of Dominant Species	
Total Cover: 0			That Are OBL, FACW, or FAC:	(A/B)
1			Prevalence Index worksheet:	
2			Total % Cover of:	Multiply by:
3			OBL species 0 x 1	= 0
4			FACW species 0 x 2	
5			FAC species 1 x 3	
Total Cover: 0			FACU species 1 x 4	
1. Rumex crispus 5	No	FAC	UPL species 0 x 5	
2. Festuca myuros 60			Column Totals: 2 (A)	/(Б)
3.			Prevalence Index = B/A = 3	3.5
4			Hydrophytic Vegetation Indicato	rs:
5			Dominance Test is >50%	
6			Prevalence Index is ≤3.0¹	
7			Morphological Adaptations¹ (P data in Remarks or on a see	
8			Problematic Hydrophytic Vege	. ,
Total Cover: 65_ Woody Vine Stratum				(13)
1			¹ Indicators of hydric soil and wetlan	nd hydrology must
2			be present.	
Total Cover: 0			Hydrophytic	
% Bare Ground in Herb Stratum 25 % Cover of Bio	iotic Crust 0		Vegetation Present? Yes	No X
Remarks:				
Tromand.				

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SOIL Sampling Point: WL1_____

(inches) Color	Matrix (moist) %		Redo lor (moist)	ox Feature: %	Type ¹	Loc ²	Texture	Remarks
	y 4/1 9		7.5yr	3	С	M	clay loan	
12 2.0	y 4/1	<u> </u>	7.0yi				Clay loan	
								
· '								
	-							
						 -		
ype: C=Concentrat						e Lining, R	C=Root Channe	
ydric Soil Indicator	s: (Applicable to	ali LRRS,			a.)			for Problematic Hydric Soils ³ :
_ Histosol (A1)	12)		Sandy Red					luck (A9) (LRR C)
Histic Epipedon (/ Black Histic (A3)	42)		Stripped MLoamy Mu		ol (E1)			luck (A10) (LRR B) ed Vertic (F18)
Hydrogen Sulfide	(A4)		_ Loamy Gle					arent Material (TF2)
Stratified Layers (, ,	_	_ Depleted N	-				Explain in Remarks)
1 cm Muck (A9) (Redox Dar	, ,				
Depleted Below D			_ Depleted D		` '			
_ Thick Dark Surface	ce (A12)		_ Redox Dep	ressions (F8)			
_ Sandy Mucky Mir	, ,		Vernal Pools	s (F9)				of hydrophytic vegetation and
Sandy Gleyed Ma							wetland	hydrology must be present.
estrictive Layer (if	oresent):							
Туре:								
Depth (inches):							Hydric Soil I	Present? Yes No X
Remarks:								
/DROLOGY								
	ndicators:						Second	dary Indicators (2 or more required)
Vetland Hydrology I		sufficient)						dary Indicators (2 or more required) (ater Marks (B1) (Riverine)
Vetland Hydrology I	ny one indicator is	sufficient)	Salt Crus	st (B11)			W	
Vetland Hydrology I Primary Indicators (ar X Surface Wate	ny one indicator is r (A1)	sufficient)	Salt Crus	` ,			W	rater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
Vetland Hydrology I Primary Indicators (ar X Surface Wate X High Water Tal	ny one indicator is r (A1) ble (A2)	sufficient) - -	Biotic Cru	ust (B12)	es (B13)		W Se Di	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine)
Vetland Hydrology I Primary Indicators (ar X Surface Wate X High Water Tal C Saturation (A:	ny one indicator is r (A1) ole (A2) 3)	sufficient) - - -	Biotic Cru Aquatic I	ust (B12) nvertebrat			W Se Di	rater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10)
Vetland Hydrology I Primary Indicators (ar X Surface Wate X High Water Tal C Saturation (A: Water Marks (B1)	ny one indicator is r (A1) ble (A2) 3) (Nonriverine)	- - -	Biotic Cru Aquatic Ii Hydroger	ust (B12) nvertebrat n Sulfide C	dor (C1)	Living Roo	W Se Di Di	rater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2)
Wetland Hydrology I Primary Indicators (ar X Surface Wate X High Water Tal C Saturation (A:	ny one indicator is r (A1) ble (A2) 3) (Nonriverine) is (B2) (Nonriveri	- - -	Biotic Cru Aquatic II Hydroger Oxidized	ust (B12) nvertebrate n Sulfide C Rhizosphe	dor (C1) res along	•	W Se De De De De Dest (C3) Th	rater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7)
Wetland Hydrology I Primary Indicators (ar X Surface Wate X High Water Tal C Saturation (A: Water Marks (B1) Sediment Deposit	ny one indicator is r (A1) ole (A2) B) (Nonriverine) ss (B2) (Nonriveri o) (Nonriverine)	- - -	Biotic Cru Aquatic II Hydroger Oxidized Presence	ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduc	dor (C1) res along ed Iron (C	•	W Se De De De De De De Co	rater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8)
Primary Indicators (ar X Surface Water X High Water Tal C Saturation (A: Water Marks (B1) Sediment Deposit Drift Deposits (B3) Surface Soil Crace	ny one indicator is r (A1) ole (A2) 3) (Nonriverine) is (B2) (Nonriveri) (Nonriverine) ks (B6)	- - - ne) _ -	Biotic Cru Aquatic II Hydroger Oxidized I Presence Recent Ir	ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduc	dor (C1) res along ed Iron (C ion in Plo	4)	W Se De De De De De Cos (C3) Tr Ce C6) Se	rater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C3)
Primary Indicators (ar X Surface Wate X High Water Tal C Saturation (A: Water Marks (B1) Sediment Deposit Drift Deposits (B3)	ny one indicator is r (A1) ble (A2) 3) (Nonriverine) is (B2) (Nonriverine) (Nonriverine) ks (B6) on Aerial Imager	- - - ne) _ -	Biotic Cru Aquatic II Hydroger Oxidized I Presence Recent Ir	ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduct on Reduct	dor (C1) res along ed Iron (C ion in Plo	4)	W Se Di Di Di Di CI Ots (C3) Tr C1 C6) Se	rater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8)
Primary Indicators (ar X Surface Water X High Water Tal C Saturation (A: Water Marks (B1) Sediment Deposit Drift Deposits (B3) Surface Soil Crace Inundation Visible Water-Stained Le	ny one indicator is r (A1) ble (A2) 3) (Nonriverine) is (B2) (Nonriverine) (Nonriverine) ks (B6) on Aerial Imager	- - - ne) _ -	Biotic Cru Aquatic II Hydroger Oxidized I Presence Recent Ir	ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduct on Reduct	dor (C1) res along ed Iron (C ion in Plo	4)	W Se Di Di Di Di CI Ots (C3) Tr C1 C6) Se	rater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8) eaturation Visible on Aerial Imagery (Cs) hallow Aquitard (D3)
Vetland Hydrology I Primary Indicators (ar X Surface Wate X High Water Tal (Saturation (A: Water Marks (B1) Sediment Deposit Drift Deposits (B3 Surface Soil Crace Inundation Visible Water-Stained Le	ny one indicator is r (A1) ble (A2) B) (Nonriverine) ss (B2) (Nonriveri c) (Nonriverine) ks (B6) e on Aerial Imager aves (B9)		Biotic Cru Aquatic II Hydroger Oxidized I Presence Recent Ir Other (Ex	ust (B12) nvertebrate n Sulfide C Rhizosphe of Reduct on Reduct xplain in R	res along ed Iron (C ion in Plot emarks)	4) wed Soils (W Se Di Di Di Di CI Ots (C3) Tr C1 C6) Se	rater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8) eaturation Visible on Aerial Imagery (Cs) hallow Aquitard (D3)
Primary Indicators (ar X Surface Water X High Water Talk C Saturation (A: Water Marks (B1) Sediment Deposit Drift Deposits (B3) Surface Soil Crace Inundation Visible Water-Stained Le	ny one indicator is r (A1) ple (A2) B) (Nonriverine) Its (B2) (Nonriverine) Its (B6) It on Aerial Imager Inverse (B9) It on Yes X		Biotic Cru Aquatic II Hydroger Oxidized I Presence Recent In Other (Ex	ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduct on Reduct xplain in R	dor (C1) res along ed Iron (C ion in Plov emarks)	4) wed Soils (W Se Di Di Di Di CI Ots (C3) Tr C1 C6) Se	rater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8) eaturation Visible on Aerial Imagery (Cs) hallow Aquitard (D3)
Primary Indicators (ar X Surface Water X High Water Tal C Saturation (A: Water Marks (B1) Sediment Deposit Drift Deposits (B3) Surface Soil Crace Inundation Visible Water-Stained Le Field Observations: Surface Water Present?	ny one indicator is r (A1) cole (A2) B) (Nonriverine) sis (B2) (Nonriverine) (Nonriverine) ks (B6) con Aerial Imager aves (B9) The second of	ne) y (B7) No	Biotic Cru Aquatic II Hydroger Oxidized II Presence Recent In Other (Ex	ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduct con Reduct cplain in R uches): uches): 6	dor (C1) res along ed Iron (C ion in Plot emarks)	4) wed Soils (W Se De De De De Ce Ce Ce Se Se	rater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Canallow Aquitard (D3) AC-Neutral Test (D5)
Primary Indicators (ar X Surface Water X High Water Tal C Saturation (A: Water Marks (B1) Sediment Deposit Drift Deposits (B3) Surface Soil Crace Inundation Visible Water-Stained Le Field Observations: Surface Water Present? Saturation Present? Saturation Present? Sincludes capillary frin	ny one indicator is r (A1) cole (A2) B) (Nonriverine) is (B2) (Nonriverine) is (B6) con Aerial Imager aves (B9) aves (B9) res X_ Yes X_ ge)	ne) y (B7) No No	Biotic Cru Aquatic II Hydroger Oxidized I Presence Recent In Other (Ex	ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduct con Reduct cplain in R uches): ches): 6_ aches):	res along ed Iron (C ion in Plo emarks)	4) wed Soils (W Se De De De Des (C3) Th Ce C6) Se F/	rater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8) eaturation Visible on Aerial Imagery (Cs) hallow Aquitard (D3)
Primary Indicators (ar X Surface Water X High Water Talk Saturation (A: Water Marks (B1) Sediment Deposits Drift Deposits (B3) Surface Soil Crace Inundation Visible Water-Stained Le Field Observations: Surface Water Presert Vater Table Present? Saturation Present? Includes capillary frin	ny one indicator is r (A1) cole (A2) B) (Nonriverine) is (B2) (Nonriverine) is (B6) con Aerial Imager aves (B9) aves (B9) res X_ Yes X_ ge)	ne) y (B7) No No	Biotic Cru Aquatic II Hydroger Oxidized I Presence Recent In Other (Ex	ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduct con Reduct cplain in R uches): ches): 6_ aches):	res along ed Iron (C ion in Plo emarks)	4) wed Soils (W Se De De De Des (C3) Th Ce C6) Se F/	rater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Canallow Aquitard (D3) AC-Neutral Test (D5)
Primary Indicators (ar X Surface Water X High Water Talk Saturation (A: Water Marks (B1) Sediment Deposits Drift Deposits (B3) Surface Soil Crace Inundation Visible Water-Stained Le Field Observations: Surface Water Presert Vater Table Present? Saturation Present? Includes capillary frin	ny one indicator is r (A1) cole (A2) B) (Nonriverine) is (B2) (Nonriverine) is (B6) con Aerial Imager aves (B9) aves (B9) res X_ Yes X_ ge)	ne) y (B7) No No	Biotic Cru Aquatic II Hydroger Oxidized I Presence Recent In Other (Ex	ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduct con Reduct cplain in R uches): ches): 6_ aches):	res along ed Iron (C ion in Plo emarks)	4) wed Soils (W Se De De De Des (C3) Th Ce C6) Se F/	rater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Canallow Aquitard (D3) AC-Neutral Test (D5)
Primary Indicators (ar X Surface Water X High Water Talk C Saturation (A: Water Marks (B1) Sediment Deposit Drift Deposits (B3) Surface Soil Crace Inundation Visible Water-Stained Le Field Observations: Surface Water Present Vater Table Present? Saturation Present? includes capillary frinces Describe Recorded Descriptions	ny one indicator is r (A1) cole (A2) B) (Nonriverine) is (B2) (Nonriverine) is (B6) con Aerial Imager aves (B9) aves (B9) res X_ Yes X_ ge)	ne) y (B7) No No	Biotic Cru Aquatic II Hydroger Oxidized I Presence Recent In Other (Ex	ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduct con Reduct cplain in R uches): ches): 6_ aches):	res along ed Iron (C ion in Plo emarks)	4) wed Soils (W Se De De De Des (C3) Th Ce C6) Se F/	rater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Canallow Aquitard (D3) AC-Neutral Test (D5)
Primary Indicators (ar X Surface Water X High Water Talk C Saturation (A: Water Marks (B1) Sediment Deposit Drift Deposits (B3) Surface Soil Crace Inundation Visible Water-Stained Lee Field Observations: Surface Water Present Vater Table Present? Saturation Present? includes capillary frind Describe Recorded Describe Recorded Describers (Articles)	ny one indicator is r (A1) cole (A2) B) (Nonriverine) is (B2) (Nonriverine) is (B6) con Aerial Imager aves (B9) aves (B9) res X_ Yes X_ ge)	ne) y (B7) No No	Biotic Cru Aquatic II Hydroger Oxidized I Presence Recent In Other (Ex	ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduct con Reduct cplain in R uches): ches): 6_ aches):	res along ed Iron (C ion in Plo emarks)	4) wed Soils (W Se De De De Des (C3) Th Ce C6) Se F/	rater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Canallow Aquitard (D3) AC-Neutral Test (D5)
Vetland Hydrology I Primary Indicators (ar X Surface Water X High Water Tal (Saturation (A: Water Marks (B1) Sediment Deposit Drift Deposits (B3 Surface Soil Crace Inundation Visible Water-Stained Le Water Deposits Surface Water Presert Vater Table Present? Saturation Present? Saturation Present? Sincludes capillary frint Describe Recorded D	ny one indicator is r (A1) cole (A2) B) (Nonriverine) is (B2) (Nonriverine) is (B6) con Aerial Imager aves (B9) aves (B9) res X_ Yes X_ ge)	ne) y (B7) No No	Biotic Cru Aquatic II Hydroger Oxidized I Presence Recent In Other (Ex	ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduct con Reduct cplain in R uches): ches): 6_ aches):	res along ed Iron (C ion in Plo emarks)	4) wed Soils (W Si Di Di Di Dis (C3) Th Ci C6) Si Fi and Hydrology	rater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Canallow Aquitard (D3) AC-Neutral Test (D5)
Primary Indicators (ar X Surface Water X High Water Talk X Saturation (A: Water Marks (B1) Sediment Deposit Drift Deposits (B3: Surface Soil Crace Inundation Visible Water-Stained Lee Field Observations: Surface Water Present Water Table Present? Saturation Present? includes capillary frinces Describe Recorded Descriptions	ny one indicator is r (A1) cole (A2) B) (Nonriverine) is (B2) (Nonriverine) is (B6) con Aerial Imager aves (B9) aves (B9) res X_ Yes X_ ge)	ne) y (B7) No No	Biotic Cru Aquatic II Hydroger Oxidized I Presence Recent In Other (Ex	ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduct con Reduct cplain in R uches): ches): 6_ aches):	res along ed Iron (C ion in Plo emarks)	4) wed Soils (W Si Di Di Di Dis (C3) Th Ci C6) Si Fi and Hydrology	rater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Canallow Aquitard (D3) AC-Neutral Test (D5)
X High Water Tal X Saturation (A: Water Marks (B1) Sediment Deposit Drift Deposits (B3 Surface Soil Crace Inundation Visible	ny one indicator is r (A1) cole (A2) B) (Nonriverine) is (B2) (Nonriverine) is (B6) con Aerial Imager aves (B9) aves (B9) res X_ Yes X_ ge)	ne) y (B7) No No	Biotic Cru Aquatic II Hydroger Oxidized I Presence Recent In Other (Ex	ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduct con Reduct cplain in R uches): ches): 6_ aches):	res along ed Iron (C ion in Plo emarks)	4) wed Soils (W Si Di Di Di Dis (C3) Th Ci C6) Si Fi and Hydrology	rater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Canallow Aquitard (D3) AC-Neutral Test (D5)

US Army Corps of Engineers Arid West – Version 11-1-2006

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Chino Valley Fire Station 68	C	ity/County:	Chino Hills	s/San Bernardino County
Sampling Date: 03/06/2023	A	pplicant/O	wner: City of	of Chino State: CA_ Sampling Point: W
Investigator(s): Heather Franklin and Corey Jacobs	;	Section, To	wnship, Rai	ange:
Landform (hillslope, terrace, etc.): depression		Local relief	(concave, c	convex, none): concave Slope (%): 0
Subregion (LRR):	Lat: <u>3</u>	3.958401		Long:117.715227 Datum:
Soil Map Unit Name:				NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this ti				
Are Vegetation X_, Soil X, or Hydrology sign	-			
Are Vegetation X , Soil X , or Hydrology nati				eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sh				ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	X	lo 4k	a Camplad	J Aven
Hydric Soil Present? Yes X No			ne Sampled sin a Wetlan	nd?
Wetland Hydrology Present? Yes X No _				
Remarks: Not normal Circumstances as it is fed solely by nuis within the residential community.	ance wate	er from the	sprinklers lo	ocated along the adjacent hillsides for ornamental vegetatio
within the residential community.				
VEGETATION				
	Ahsolute	Dominan	t Indicator	Dominance Test worksheet:
		r Species		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant
3				Species Across All Strata: 1 (B)
4			-	Percent of Dominant Species
Total Cover: 0 Sapling/Shrub Stratum)			That Are OBL, FACW, or FAC: 1 (A/B)
1				Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3				OBL species 0 x 1 = 0
4				FACW species 0 x 2 = 0
5			-	FAC species 1 x 3 = 3
Total Cover: 0)	•		FACU species 0 x 4 = 0 UPL species 1 x 5 = 5
1. Rumex crispus	5	No	FAC	Column Totals: 2 (A) 8 (B)
2. Helminthotheca echioides			UPL	(v) c(v)
3. Brassica nigra	15	No	None	Prevalence Index = B/A = 4
4				Hydrophytic Vegetation Indicators:
5				Dominance Test is >50%
6				 Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting
7				Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet)
8 Total Cover: 5				Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum				
1				¹ Indicators of hydric soil and wetland hydrology must
2				be present.
Total Cover: 0)			Hydrophytic Vegetation
% Bare Ground in Herb Stratum 20 % Cover o	f Biotic Cr	rust 30		Present? Yes No X
Remarks:				1

US Army Corps of Engineers

SOIL Sampling Point: WL2____

Depth (inches)	Color (moist)	%	Red Color (moist)	ox Feature %	_ Type¹	Loc ²	Texture	Remarks
18	2.5y 7/8	95	7.5yr	- - 3	- <u>Type</u> C	M	clay loam	Remarks
<u></u>	2.5y 170		7.5yi				Clay loain	
	_				-			
		- -			-			
					-			
		 -						
	ncentration, D=Dep					re Lining, R	C=Root Channel, M	
ydric Soil I	ndicators: (Applic	able to all L	RRs, unless othe	rwise not	ed.)		Indicators for P	roblematic Hydric Soils ³ :
_ Histosol	` '		Sandy Re	. ,			1 cm Muck	, , ,
	ipedon (A2)		Stripped I					(A10) (LRR B)
_ Black His			Loamy Mi	-	, ,		Reduced Ve	, ,
	n Sulfide (A4)	C \	Loamy GI	-				Material (TF2)
	Layers (A5) (LRR	L)		Matrix (F3			Other (Expl	ain in Remarks)
	ck (A9) (LRR D) I Below Dark Surfac	·Δ (Δ11)	Redox Da Depleted					
	rk Surface (A12)	~ (∧11)	Redox De		, ,			
	ucky Mineral (S1)		Vernal Poo		(1 0)		3Indicators of hyd	drophytic vegetation and
	leyed Matrix (S4)		vomai i oo	15 (1 5)				plogy must be present.
	• , ,							g,
estrictive L	.ayer (if present):							
Туре:							Hydric Soil Prese	ent? Yes No X
Type: Depth (inc							Hydric Soil Prese	ent? Yes No X
Type: Depth (inc	ches):						Hydric Soil Prese	ent? Yes No X
Type: Depth (inconservation) Remarks:	Ches):							
Type: Depth (included) demarks: COROLOG Wetland Hyde	GY drology Indicators	:					Secondary	Indicators (2 or more required)
Type: Depth (included) Remarks: Primary Indice	GY drology Indicators ators (any one indicators	:	cient)	st (B11)			Secondary Water	Indicators (2 or more required) Marks (B1) (Riverine)
Type: Depth (included) Temarks: Control	GY drology Indicators eators (any one indicators (A1)	:	cient) Salt Cru				Secondary Water Sedime	Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine)
Type: Depth (income semarks: Primary Indicome semary In	GY drology Indicators eators (any one indicators (A1) Vater Table (A2)	:	cient) Salt Cru Biotic Cr	ust (B12)	tas (B13)		Secondary Water Sedime	Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine)
Type: Depth (income the content of the content	GY drology Indicators eators (any one indicators (any one indicators (ace Water (A1)) Vater Table (A2) ration (A3)	: cator is suffic	cient) Salt Cru Biotic Cr Aquatic	ust (B12) Invertebra	. ,		Secondary Water Sedime Drift De	Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine) ge Patterns (B10)
Type: Depth (inc Remarks: YDROLOC Vetland Hyd Yrimary Indic X Surfa X High W X Satul Water Ma	ches):	: cator is suffic ine)	cient) Salt Cru Biotic Cru Aquatic Hydroge	ust (B12) Invertebra n Sulfide (Odor (C1)	LLiving Ro	Secondary Water Sedim Drift Do Draina Dry-Se	Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine) ge Patterns (B10) eason Water Table (C2)
Type: Depth (incomplete incomplete inco	ches):	: cator is suffic ine) nriverine)	cient) Salt Cru Biotic Cro Aquatic Hydroge Oxidized	rust (B12) Invertebra n Sulfide (Rhizosph	Odor (C1) eres along	_	Secondary Water Sedime Drift De Draina Dry-Se ots (C3) Thin M	Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine) ge Patterns (B10) eason Water Table (C2) uck Surface (C7)
Type: Depth (incomplete incomplete inco	ches):	: cator is suffic ine) nriverine)	cient) Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presenc	rust (B12) Invertebra n Sulfide (Rhizosph e of Reduc	Odor (C1) eres along ced Iron (C	24)	Secondary Water Sedime Drift December 2 Dry-Second (C3) Crayfis	Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine) ge Patterns (B10) eason Water Table (C2) uck Surface (C7) th Burrows (C8)
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