

Jurisdictional Waters/Wetland Delineation for the San Diego Fire-Rescue Air Operations Hangar Project San Diego, California

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Acronyms and Abbreviations

City City of San Diego
FACU facultative upland
FACW facultative wetland

GPS global positioning system

NI no indicator

NRCS Natural Resource Conservation Service

OBL obligate

OHWM Ordinary High Water Mark

Project San Diego Fire-Rescue Air Operations Hangar Project

RWQCB Regional Water Quality Control Board

UDP upland data point

USACE U.S. Army Corps of Engineers
USDA U.S. Department of Agriculture
USFWS U.S. Fish and Wildlife Service

USGS U.S. Geological Survey

VPHCP Vernal Pool Habitat Conservation Plan

WDP wetland data point

1.0 Site Description and Landscape Setting

The project area is located in the northeastern corner of the Montgomery-Gibbs Executive Airport in the city of San Diego, California. It includes the main area proposed for project development and the access road leading from Ponderosa Avenue to the existing airport facilities. The Review Area for this analysis includes the project area plus a 100-foot buffer around the main portion of the project area (no buffer along the access road), totaling 7.98 acres (Attachment 1: Figure 1). The Review Area is found within an unsectioned portion of the Mission San Diego landgrant on the U.S. Geological Survey (USGS) 7.5-minute La Mesa and La Jolla quadrangles (Attachment 1: Figure 2, USGS 1975, 1996) and is presented on the City of San Diego 800-foot-scale maps, Number 234-1725 (Attachment 1: Figure 3). The Review Area is adjacent to the Air Traffic Control Tower between the Federal Aviation Administration lease area, the Runway Object Free Area, and the Runway Protection Zone for the northwest approach to Runway 5/23 (Attachment 1: Figure 4). Entry to the Review Area is via an asphalt road accessed from a security gate located off Ponderosa Avenue.

The majority of the Review Area occurs as mostly flat land vegetated with non-native grasses that had been moved at the time of the survey. The Review Area includes a number of developed areas that are associated with the airport facilities.

The applicant will accompany the U.S. Army Corps of Engineers (USACE) on all site visits. The USACE must contact the applicant prior to visiting the site. The contact information for the applicant is:

Property Owner: City of San Diego

Applicant: City of San Diego Public Works Department Project Biologist: Sean Paver, Senior Planner – Biologist

Telephone: (619) 533-3629

E-mail: spaver@sandiego.gov

2.0 Site Alterations, Current and Past Land Use

A majority of the Review Area has been altered by regular mowing of the vegetated land surrounding the buildings and other developed areas. Mowing is conducted as part of airport maintenance activities. The land within the Review Area has likely been graded historically as it occurs as mostly flat and does not match the surrounding topography in undisturbed areas.

2.1 Soils

Information on the soil types sampled in the Review Area is summarized from the Soil Survey for San Diego County (U.S. Department of Agriculture [USDA] 1973), the San Diego

Association of Governments' 1995 geographic information system data (SANDAG 1995), and the San Diego County Hydric Soils list obtained from the Natural Resource Conservation Service (NRCS; 2014).

One soil series, Redding gravelly loam (RdC), 2 to 9 percent slopes, has been mapped within the Review Area, appears on the hydric soil list, and is described below according to the classifications from the USDA characterizations of soil types in the County (USDA 1973; Attachment 1: Figure 5). These soils can be considered hydric soils when occurring in unnamed, ponded depressions (NRCS 2014).

2.2 Hydrology

The natural hydrology of the Review Area includes a network of shallow depressions, many of which function as vernal pools, as well as a small swale in the southeastern portion of the Review Area. The vernal pools occur mostly in the northern half of the Review Area, north of the developed areas. Some also occur east and west of the developed areas. These vernal pools pond seasonally during, and for extended periods following, rain events. The majority of vernal pools do not appear to be directly connected to each other or to any drainage courses. However, the vernal pools east of the access road may overflow into a nearby off-site drainage. The swale in the southeastern portion of the Review Area is fed by a culvert that drains some of the developed portions of the Review Area, and also may overflow into this off-site drainage. The off-site drainage has connectivity to downstream waterways within the San Diego River watershed. Along the access road portion of the Review Area, a culvert occurs under the paved road to allow overflow from potential vernal pools northwest of the road to those southeast of the road. This culvert and connected vernal pools likely also overflow into the nearby drainage.

2.3 Vegetation

Vegetation within the Review Area consists mostly of non-native grassland dominated by non-native bromes (*Bromus* sp.) and filaree (*Erodium* sp.). The presence of non-native grassland may be a result of the regular mowing mentioned above. Other herbaceous species scattered throughout these non-native grassland areas include fascicled tarweed (*Deinandra fasciculata*), graceful tarplant (*Holocarpha virgata*), and stinkwort (*Dittrichia graveolens*). Vegetation within the vernal pool depressions was notably different from the surrounding uplands areas, being dominated by hyssop loosestrife (*Lythrum hyssopifolia*) and dwarf woollyheads (*Psilocarphus brevissimus*). A small area in the northern portion of the Review Area and the eastern portion of the Review Area, east of the access road and developed areas, do not undergo regular mowing or maintenance and contains a mix of coastal sage scrub and native herbaceous vernal pool vegetation.

3.0 Precipitation Data and Analysis

Climate data, including precipitation totals, for the nearest recording station to the project site was gathered from the NRCS and National Water and Climate Center databases. The climate data obtained are discussed below.

3.1 Climate and Growing Season

The Review Area is located approximately seven miles from the Pacific Ocean, in an area generally characterized by warm, dry summers and mild winters, with the majority of precipitation typically falling between November and March. This area is influenced by coastal climate weather regimes, resulting in a marine layer during spring and early summer and milder summer temperatures than occur further inland. The growing season can vary but typically occurs after winter rains as temperatures begin to increase during the spring months and into early summer.

3.2 Precipitation and Natural Resource Conservation Service WETS Table Summary

Historical climate data for the nearest recording station to the Review Area is from San Diego Montgomery Field. Data summarized over the time period of 1971–2019 is presented in the WETS table (Attachment 2: Table 1). The total average annual precipitation for this time period and station is 9.79 inches. The total annual precipitation for 2019 was 9.31 inches.

Climate data summaries in 2019 for the months of April through June, which were prior to the first site visit, and July through October, which were prior to the second site visit, are provided in Attachment 2: Tables 2-8. Total 2019 precipitation for April was 0.35 inch, for May 1.03 inches, for June 0.09 inch, for July less than 0.01 inch, for August 0.00 inch, for September 0.06 inch, and for October 0.00 inch.

3.3 Wetland Hydrology and Analysis

The Review Area as a whole contains depressions that pond after rain events. Additionally, a swale occurs in the southern eastern portion of Review Area conveys flow from a culvert outfall eastward toward an off-site drainage and a culvert crosses under the paved access road portion of the Review Area.

4.0 Investigation Methods

RECON Environmental, Inc. wetland specialists Andrew Smisek and Karyl Field performed a routine aquatic resource delineation within the Review Area on July 17, 2019. Mr. Smisek conducted a follow-up site visit on November 1, 2019. The aquatic resources delineation was performed according to the guidelines set forth by the U.S. Army Corps of

Engineers (USACE; 1987, 2008). The potential jurisdictional areas were surveyed by walking throughout the site and making observations of those areas exhibiting characteristics of jurisdictional waters or wetlands. During both surveys, the RECON biologist was accompanied by a City of San Diego (City) biologist familiar with the known vernal pools and other biological resources on-site.

Wetland Parameters 4.1

Hydrophytic Vegetation 4.1.1

The wetland indicator status of each species recorded was determined by using the National Wetland Plant List (Lichvar et al. 2016). Plant species nomenclature follows that contained in the Jepson eFlora (Jepson Flora Project 2019). Dominant species with an indicator status of "NI" (not indicated) or not listed in the 2016 plant list were evaluated as either wetland or upland indicator species based on local professional knowledge of where the species are most often observed in habitats that are characteristic in southern California.

The vegetation of each vernal pool was assessed using the wetland determination data forms to determine if the hydrophytic vegetation parameter was met for each (Attachment 3). The presence of vernal pool indicator plant species was also noted.

Hydric Soils 4.1.2

Soil test pits were located: (1) within potential wetland areas and (2) in or adjacent to the spot where the boundary between wetland and upland was inferred (based on changes in the topography, hydrology, and composition of the vegetation). A total of 12 paired sample points were assessed, each pair containing a wetland data point (WDP) and an upland data point (UDP), with the exception that one upland point, UDP9/10 was paired with both WDP9 and WDP10 (see Attachment 3). The depth of the majority of pits dug during the surveys was restricted by a layer of hard rock and/or compact soil. In addition, in order to minimize impacts to the subsurface soil layers and the ponding ability of any given vernal pool basin, soil pits dug within basins were limited to only the depth necessary to determine the presence of hydric soils.

Wetland Hydrology 4.1.3

Hydrologic information for the site was obtained by reviewing USGS topographic maps and by directly observing hydrology indicators in the field. The hydrology indicators of each vernal pool and the swale were assessed using the wetland determination data forms to determine if the hydrology parameter was met for each (see Attachment 3).

4.2 Pre-Field Review

Prior to conducting the delineation, an aerial photograph, the USGS La Mesa (1975) & La Jolla (1996) quadrangles, and the U.S. Fish and Wildlife Service (USFWS) National Wetland Inventory were examined to aid in the determination of potential waters of the U.S. on-site (USFWS 2019; Attachment 1: Figure 6). Additionally, data provided by the City was analyzed prior to the surveys. This data includes the presence of vernal pool indicator plant species and fairy shrimp within a number of basins within the Review Area.

4.3 On-site Wetland Investigation

Once on-site, the parcel of land was examined to determine the presence of any indicators of wetlands, including wetland vegetation, hydric soils, and hydrology. In areas where signs of ponding were evident, special attention was paid to USACE vernal pool indicator species (USACE 1997).

Field data, including hand drawn maps and recorded global positioning system (GPS) points and lines, were later digitized/downloaded into ArcGIS. Mapped jurisdictional waters created using these data were analyzed in ArcGIS to provide acreages or target jurisdictional and vegetation boundaries. USACE wetland determination data forms are included as Attachment 3. Photographs of the Review Area are provided in Attachment 4.

4.4 On-site Ordinary High Water Mark Investigation

No potential non-wetland waters were observed during the surveys, so no Ordinary High Water Mark (OHWM) data was collected. The swale in the southeastern portion of the Review Area does not exhibit an obvious bed and bank structure that would necessitate a delineation of the lateral extent of OHWM features. The culvert along the access road portion of the Review Area was not sampled during the surveys.

5.0 Description of All Wetlands and Other Non-wetland Waters

The aquatic resources delineated include a total of 15 vernal pools and 1 wetland swale within the Review Area (Attachment 1: Figure 7 and Attachment 4). Five of the 15 vernal pools extend outside the limits of the Review Area. Therefore, only the areas of the portions occurring within the Review Area were used to calculate the total acreage of jurisdictional resources within the Review Area. The culvert that crosses under the paved access road within the Review Area is assumed to be considered non-wetland waters of the U.S. The aquatic resource features delineated within the Review Area total 0.187 acre of wetland waters of the U.S. and 24 square feet (15.5 linear feet) of non-wetland waters of the U.S. A summary of the aquatic resources and location of these resources in relation to the Review

Area boundary is provided in Attachment 2: Table 9 and on Attachment 1: Figure 7, respectively.

Wetlands 5.1

Wetlands delineated on the site include vernal pools and a swale. Each is discussed separately below.

Vernal Pool Wetlands 5.1.1

Of the 11 vernal pools sampled within the Review Area, nine met the hydrophytic vegetation standard via the dominance test or prevalence index. The remaining two vernal pools were not sufficiently dominated by hydrophytic plant species to pass the dominance test or prevalence index. However, these two pools are still considered to meet the hydrophytic vegetation parameter under a problematic wetland; where the vegetation criteria are considered met when the area meets both the hydric soils and wetland hydrology criteria. In fact, all of the vernal pools sampled within the Review Area could be considered to be problematic wetlands for vegetation because regular mowing occurs throughout these areas, which has likely significantly altered the percent cover and distribution of hydrophytic vegetation. The four vernal pools that were not sampled include one in the northern portion of the Review Area and three in the eastern portion, east of the access road. As mentioned above, these areas do not undergo regular mowing and, therefore, would not be considered to be problematic wetlands for vegetation. Based on data provided by the City, hydrophytic vegetation is assumed present within these four unsampled vernal pools.

Additionally, all 11 of the sampled vernal pools within the Review Area contain at least one vernal pool indicator plant species. The vernal pool plant indicator species observed includes dwarf woollyheads (Psilocarphus brevissimus; facultative wetland [FACW]) and Lemmon's canarygrass (Phalaris lemmonii; FACW). Dwarf wollyheads and hyssop loosestrife (Lythrum hyssopifolia; obligate [OBL]) dominated the vegetation cover within the majority of the vernal pool depressions.

The distribution of hydrophytic plant species and upland plant species throughout the Review Area clearly followed local topographic trends, with hydrophytic species being dominant within the depressions of the vernal pools and upland species being dominant outside the margin of the vernal pools. The common upland plant species observed included red brome (Bromus madritensis ssp. rubens; UPL), filaree (facultative upland [FACU]) and fascicled tarweed (FACU). Hydrophytic plant species, such as dwarf wollyheads and hyssop loosestrife, were occasionally observed in upland areas outside the topographic depression of the vernal pools within the Review Area, likely because these areas occur only inches above the vernal pool basins and may stay wet enough during some rain years to support individuals of these hydrophytic species. However, where hydrophytic plant species occurred in upland areas outside the vernal pools, they were observed with very low vegetation cover.

One hydric soil indicator, redox depressions, was observed during the surveys within all 11 vernal pools sampled (see Attachment 3, WDPs 1 through 11). This hydric soil indicator occurs in closed depressions that are subject to ponding. At each WDP, redox concentrations were observed within a layer at least 2 inches thick within the first 6 inches from the soil surface. In many cases, soil pits were only dug to 2 or 3 inches because redox concentrations were prevalent at these depths, just below the surface. Based on data provided by the City, hydric soils are assumed present within the four unsampled vernal pools.

The source of the water for the vernal pools is primarily from natural rainfall and local runoff from the surrounding land. The water that reaches these vernal pools is seasonal, temporarily ponds within the limits of the pools. Wetland hydrology indicators observed in a majority of the vernal pools within the Review Area included biotic crusts. Surface soil cracks were observed at WDP 2. The known presence of aquatic invertebrates (e.g., fairy shrimp), based on the City's data for on-site vernal pools, is also a primary indicator of wetland hydrology; as found in vernal pools at WDP 1, 3, 4, 5, 6, 7, 8, and 11 (see Attachment 3). Based on data provided by the City, wetland hydrology is assumed present within the four unsampled vernal pools.

5.1.2 Swale Wetland

As mentioned above, the swale in the southeastern portion of the Review Area is fed by a culvert leading from the existing developed structures. The vegetation observed within this swale includes a number of herbaceous hydrophytic plant species, including hyssop loosestrife, tall flatsedge (*Cyperus eragrostis*; FACW), and toad rush (*Juncus bufonius*; FACW). Outside of the swale, the surrounding upland areas contained Diegan coastal sage scrub dominated by California buckwheat (*Eriogonum fasciculatum*; no indicator [NI]) and red brome.

One hydric soil indicator, redox depressions, was observed within the wetland swale (see Attachment 3, WDP 12). This swale appears to function as a depression based on local topography, but it does not contain vernal pool indicator plant species. Both biotic crusts and non-riverine sediment deposits were observed during the survey. This swale has direct connectivity to a drainage that occurs just outside the Review Area which receives overflowing water from the swale. From here, water is conveyed southward off-site through a culvert and into a series of storm drains and canyons as part of the downstream watershed.

5.2 Non-wetland Waters

The culvert that crosses under the paved access road within the Review Area is assumed to be considered non-wetland waters of the U.S. (see Attachment 1, Figure 7). However, this culvert was not sampled during the surveys. The total estimate area for this non-wetland water feature is 24 square feet and 15.5 linear feet.

5.3 Waters of the State

The waters of the state under the jurisdiction of the Regional Water Quality Control Board (RWQCB) delineated within the Review Area entirely overlap with those waters of the U.S. described above, including the vernal pools, swale, and culvert. RWQCB waters within the Review Area total 0.187 acre of wetland waters of the state and 24 square feet (15.5 linear feet) of non-wetland waters of the state (Attachment 1, Figure 8).

5.4 City Wetlands

The City wetlands delineated within the Review Area include the vernal pools and the swale mapped as wetland waters of the U.S. as described above. But City wetlands on-site do not include the culvert mapped as non-wetland waters of the U.S. Therefore, City wetlands within the Review Area total 0.187 acre (Attachment 1, Figure 9).

6.0 Deviation from National Wetland Inventory

The results of this analysis vary substantially from the National Wetland Inventory (see Attachment 1, Figure 6). The National Wetlands Inventory includes a temporarily flooded Freshwater Forested/Shrub Wetland (code PSSA) crossing the access road within the Review Area, but does not include any other aquatic resource features within the Review Area. Based on this analysis and data provided by the City, a number of vernal pools occur within the Review Area and the surrounding undeveloped land.

7.0 Mapping Method

The maps of the delineated jurisdictional waters within the Review Area are based on the above analysis. The boundary of the majority of aquatic resource was obtained from previously collected data provided by the City. Additionally, the boundaries of two vernal pools were mapped during the surveys using sub-meter resolution GPS technology. The location of the culvert along the access road was estimated using aerial photography. GIS mapping software (ArcMap) was used to produce the graphical maps contained in this report.

8.0 Results and Conclusions

USACE jurisdictional waters include all 15 vernal pools mapped within the Review Area, as well as the swale in the southeastern portion of the Review Area. As described above, the vernal pools and the swale all meet the three wetland parameters and, therefore, would be considered wetland waters of the U.S. (see Attachment 1: Figure 7). The water type for the vernal pools is considered "isolate" (see Attachment 2, Table 10), as they do not have a distinct connection to any wetland or non-wetland water drainage courses. However, the

water type for the ephemeral swale and culvert are considered to be "non-relatively permanent waters" (see Attachment 2, Table 10) due to their connectivity with an off-site jurisdictional drainage.

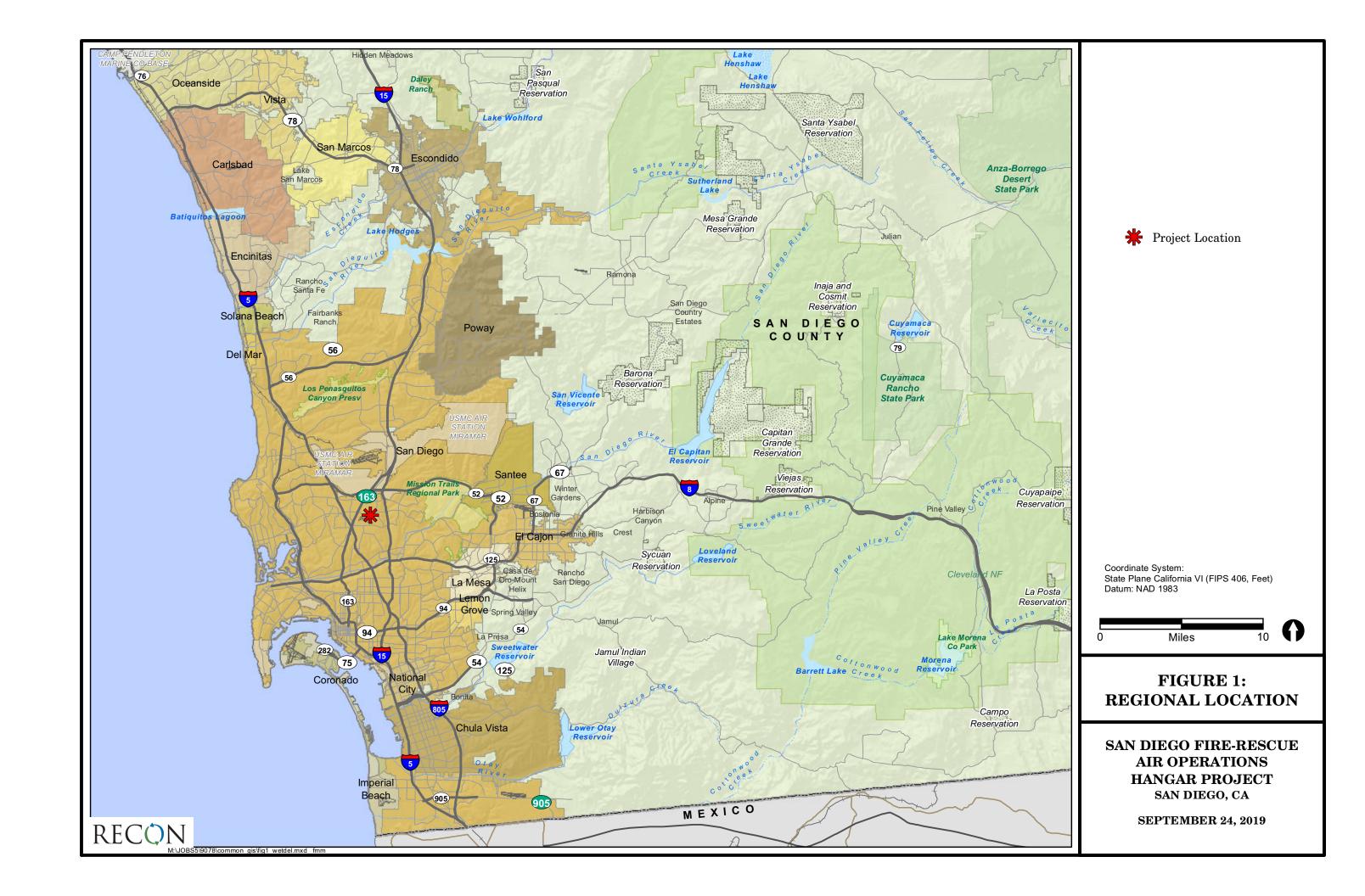
9.0 Disclaimer Statement

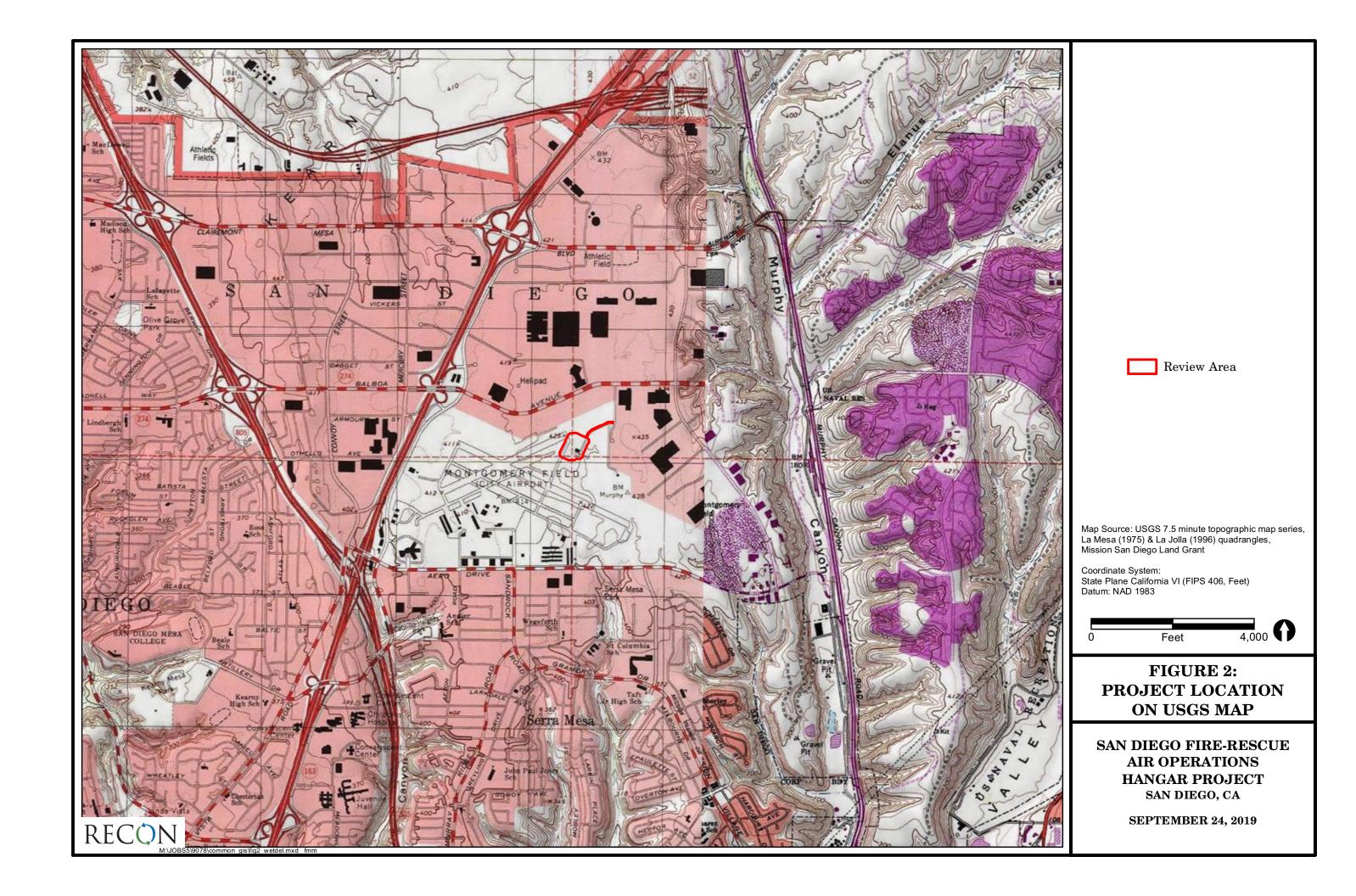
This report describes the results of a jurisdictional waters delineation conducted within the 7.98-acre Review Area. The jurisdictional waters delineation is used to identify and map the extent of the federal jurisdictional waters of the U.S. The purpose of this study was to identify and map the limits of any jurisdictional water features on the property to provide necessary background information for analysis by USACE in making a jurisdictional determination. USACE will review the content of this report and ultimately make a determination of federal jurisdiction for any waters of the U.S. that may be present in the Review Area. References used in the preparation of this report are included below in Attachment 5.

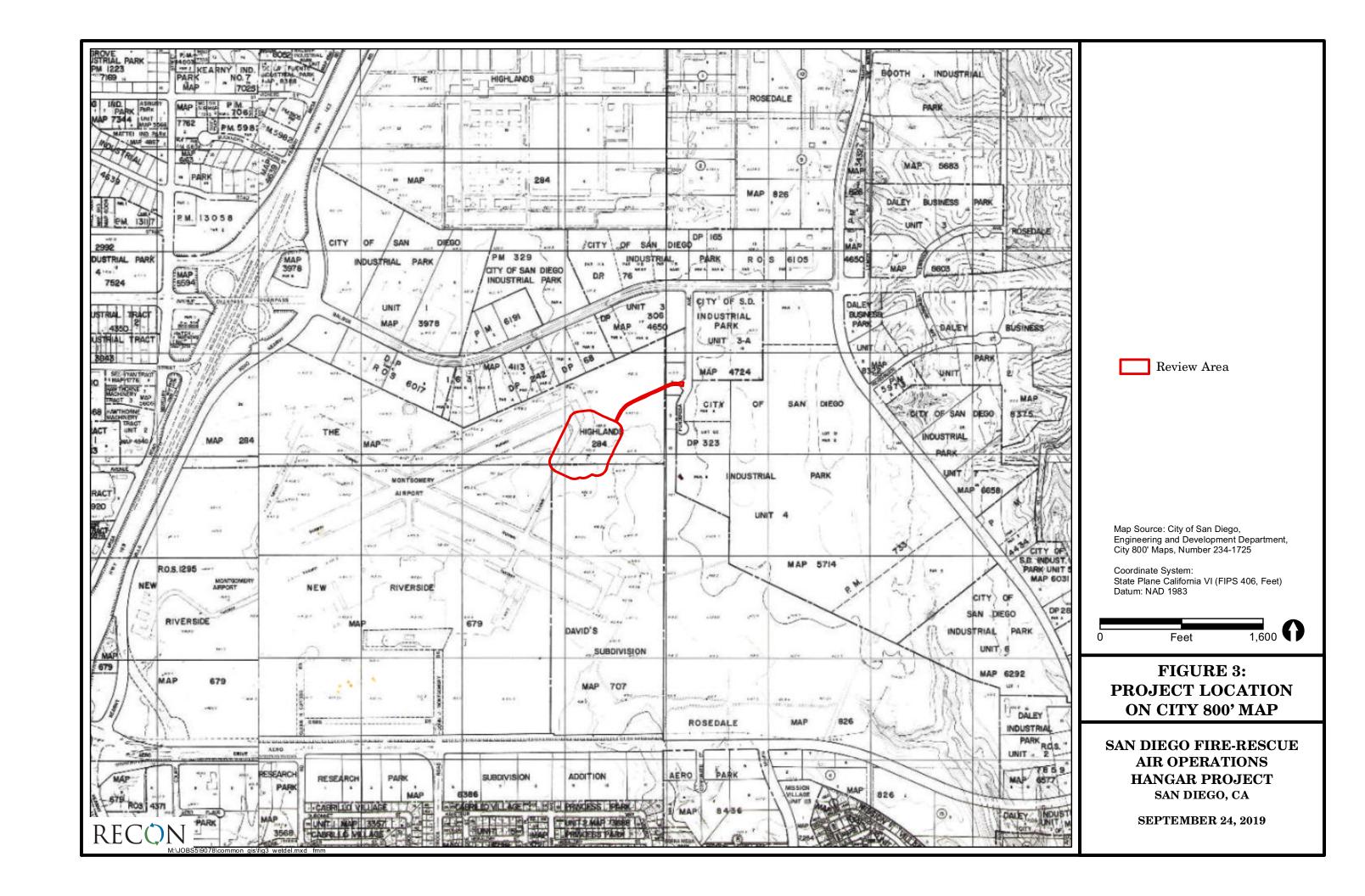
ATTACHMENTS

ATTACHMENT 1

Maps









Review Area

Image Source: Nearmap (flown September 2019)

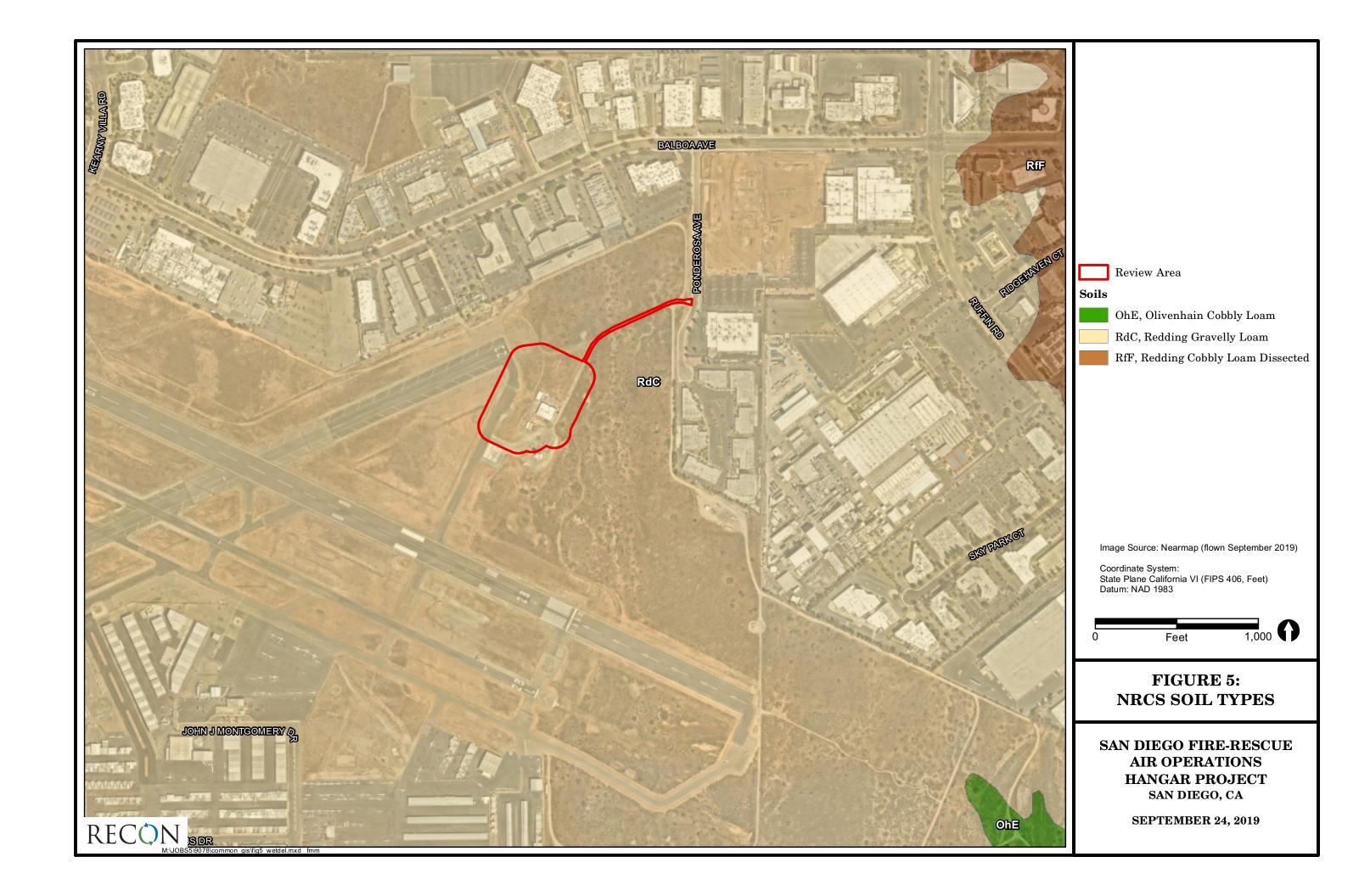
Coordinate System: State Plane California VI (FIPS 406, Feet) Datum: NAD 1983

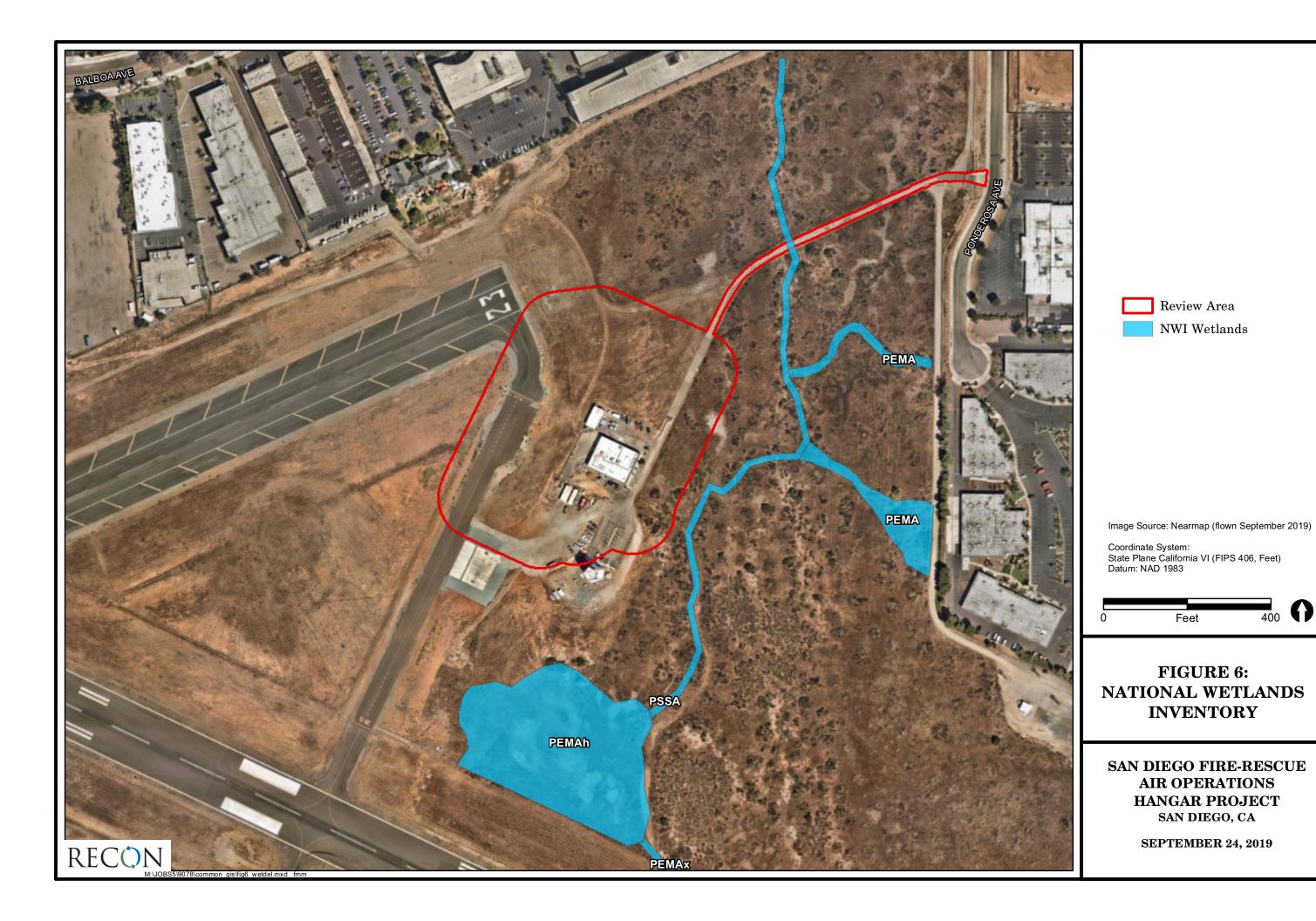
400

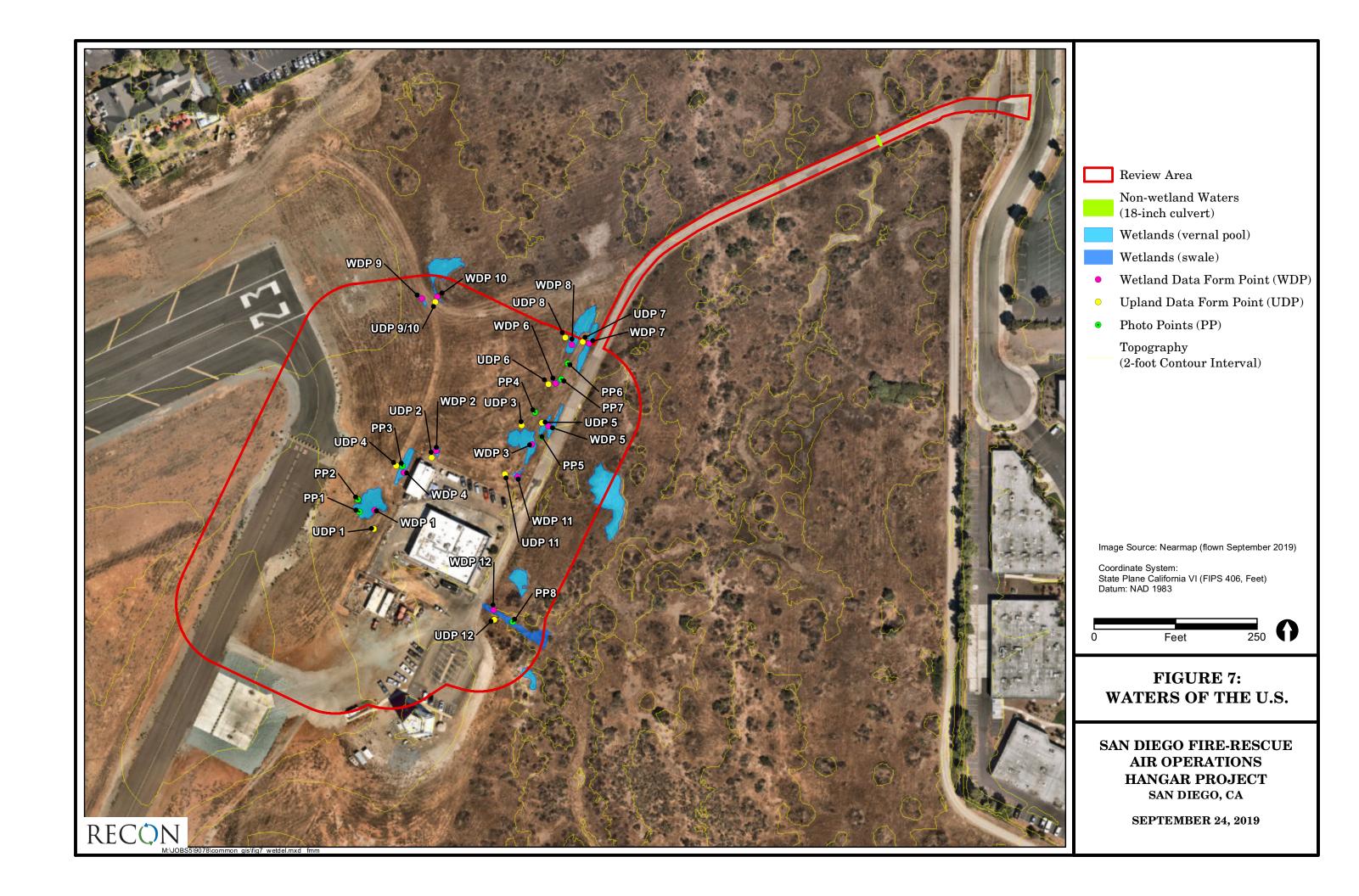
FIGURE 4: PROJECT LOCATION ON **AERIAL PHOTOGRAPH**

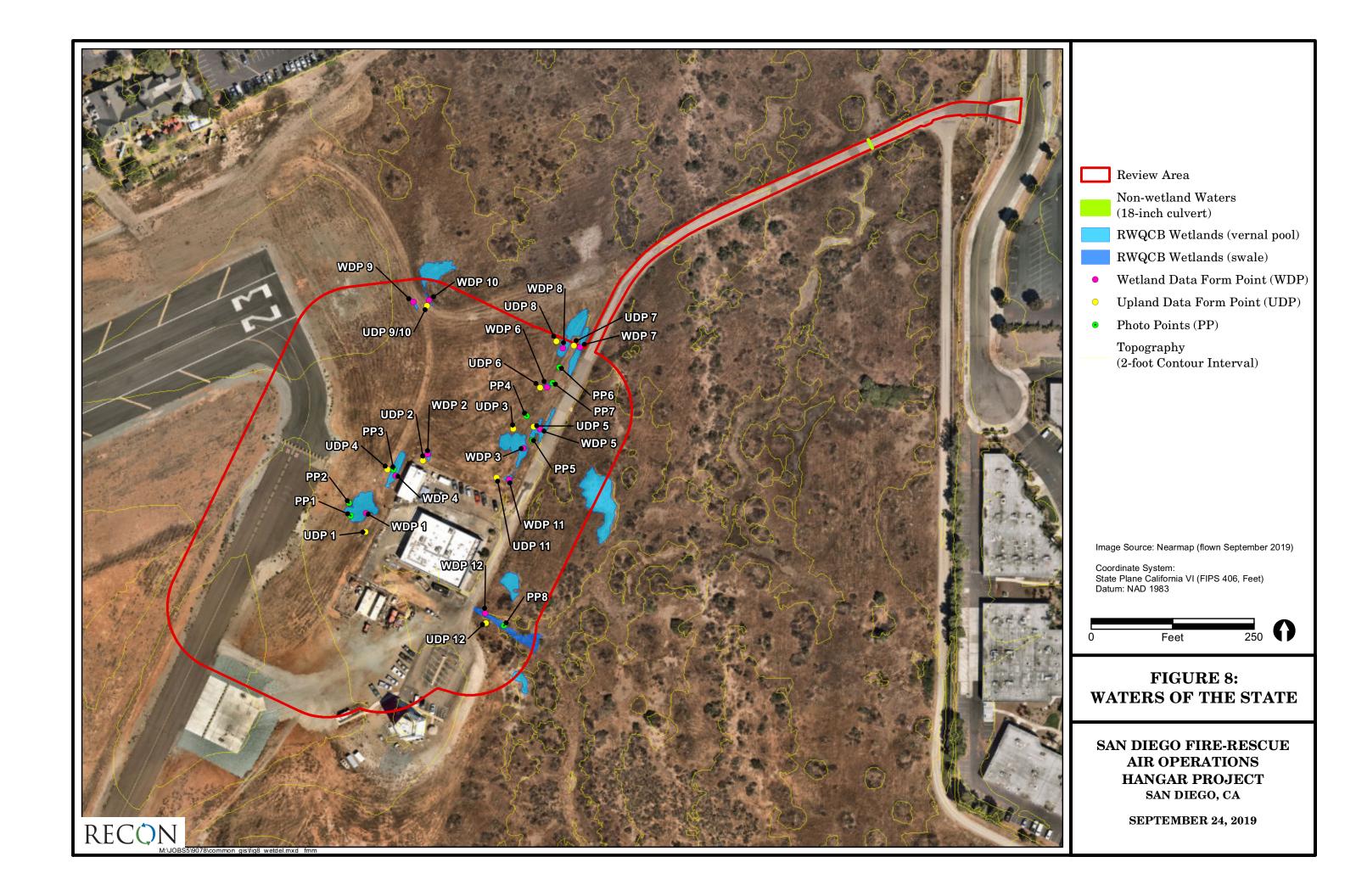
SAN DIEGO FIRE-RESCUE AIR OPERATIONS HANGAR PROJECT SAN DIEGO, CA

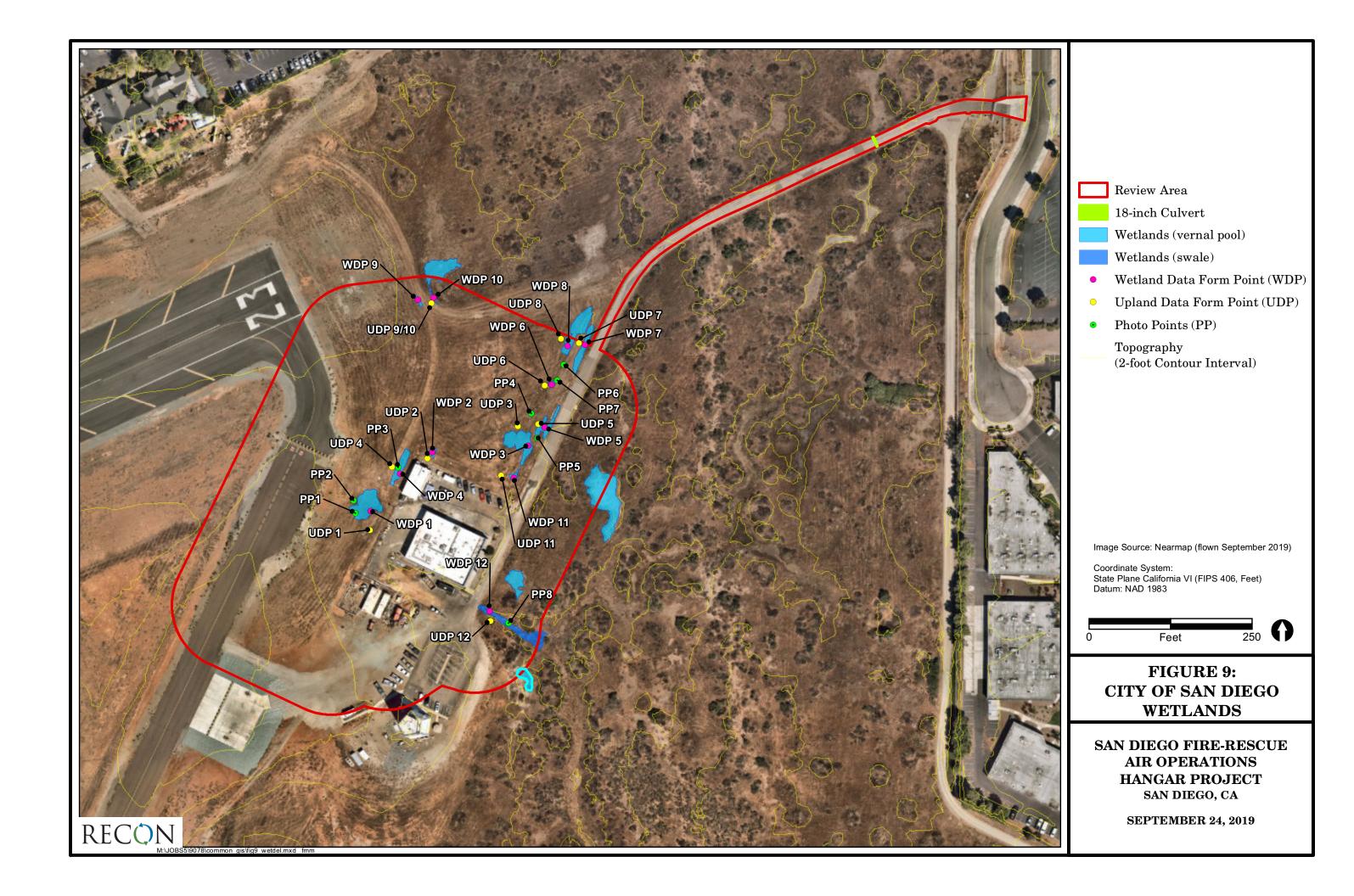
SEPTEMBER 24, 2019











ATTACHMENT 2

Tables

WETS Station: SAN DIEGO MONTGOMERY FIELD, CA													
Requested years: 1971 - 2019													
Month	Avg Max Temp	Avg Min Temp	Avg Mean Temp	Avg Precip	30% chance precip less than	30% chance precip more than	Avg number days precip 0.10 or more	Avg Snowfall					
Jan	67.5	45.9	56.7	1.75	0.45	2.04	3	-					
Feb	66.5	46.6	56.6	2.38	1.00	2.80	4	-					
Mar	68.0	49.7	58.9	0.97	0.49	1.19	3	-					
Apr	69.7	52.3	61.0	0.73	0.23	0.86	2	-					
May	70.8	56.7	63.8	0.34	0.08	0.29	1	-					
Jun	74.2	60.2	67.2	0.03	0.00	0.04	0	-					
Jul	79.4	64.6	72.0	0.13	0.00	0.00	0	-					
Aug	81.3	65.5	73.4	0.01	0.00	0.01	0	-					
Sep	80.8	63.6	72.2	0.18	0.00	0.14	0	-					
Oct	77.1	58.0	67.5	0.61	0.11	0.56	1	-					
Nov	72.1	50.7	61.4	0.87	0.34	1.05	2	-					
Dec	66.7	45.4	56.0	1.80	0.60	2.15	3	-					
Annual:					7.75	11.09							
Average	72.8	54.9	63.9	-	-	-	-	-					
Total	-	-	-	9.79			20	-					
CDOWING CEACON DATES													
GROWING SEASON DATES	04 dog - 07	00 dos - 07	20 dos - 20										
Years with missing data: Years with no occurrence:	24 deg = 27 24 deg = 22	28 deg = 27 28 deg = 22	32 deg = 28 32 deg = 21										
Data years used:		28 deg = 22	32 deg = 21										
Probability	24 deg - 22 24 F or	28 F or	32 F or										
50 percent *	higher	higher	higher										
70 percent *	occurrence	occurrence	occurrence										
* Percent chance of the	occurrence	occurrence	occurrence										
growing season occurring between the Beginning and Ending dates.													
STATS TABLE - total precipitation (inches)													
Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
1998				1.60	0.82	0.14	T	0.01	0. 10	0. 06	1.15	0. 88	4.76
1999	2.06	0.69	1.23	1.65	T	0.07	0.03	0.00	0. 08	0. 01	0.05	0. 17	6.04
2000	0.21	3.61	1.17	0.56	0.02	Т	Т	0.01	0. 04	1. 12	0.16	0. 02	6.92
2001	2.70	2.56	0.75	M0.97	T	T	Т -	0.00	0. 01	0. 02	0.87	0. 54	8.42
2002	0.47	0.10	0.71	0.72	0.01	0.00	T	0.00	0. 37	0. 13	1.33	2. 41	6.25
2003	0.08	3.55 2.87	0.27	0.47	0.58 T	0.06 T	0.04	0.02 T	T 0.	0. 05 5.	0.56	0. 98 1.	9.21
2005	5.29	5.72	2.41	0.44	M0.29	' Т	0.00 T	0.00	0.	0.5 0.5	0.43	76 0.	49 15.
2006	0.64	1.34	2.42	1.69	0.64	0.07	0.26	0.02	15 T	69 0.	0.35	34 0.	50 9.24
2007	0.58	2.53	0.21	0.71	Т	0.00	0.00	Т	0.	95 0.	1.67	1.	7.39
									09	22		38	

2008	3.88	1.81	0.18	0.01	0.26	0.02	Т	Т	Т	0. 06	1.65	3. 85	11. 72
2009	0.14	5.40	0.16	0.16	0.03	0.03	0.00	Т	0. 00	0. 08	0.42	M3. 27	9.69
2010	M5.24	2.74	0.50	1.89	Т	T	Т	0.00	0. 21	1. 89	1.16	6. 49	20. 12
2011	0.15	3.47	1.78	0.28	0.45	0.05	T	Т	0. 11	0. 70	3.08	0. 61	10. 68
2012	0.45	M1.55	1.35	1.16	0.02	0.00	Т	0.02	0. 00	0. 51	0.37	2. 93	8.36
2013	1.35	0.65	1.31	0.08	0.35	0.00	Т	Т	Т	0. 51	0.29	0. 41	4.95
2014	0.04	1.31	0.99	0.35	Т	0.00	0.07	0.08	1. 08	T	0.55	1. 75	6.22
2015	0.09	T	M0.17	0.07	1.81	0.09	2.46	0.01	1. 05	0. 69	1.97	1. 58	9.99
2016	4.47	0.06	1.08	0.88	0.60	Т	0.00	0.00	0. 38	0. 16	0.92	4. 81	13. 36
2017	4.32	4.96	0.15	0.02	0.59	0.03	Т	Т	0. 11	Т	0.02	0. 07	10. 27
2018	1.94	0.46	1.08	0.05	0.04	0.00	Т	0.00	0. 00	0. 50	1.04	2. 69	7.80
2019	M2.09	4.51	1.10	0.35	1.03	0.09	Т	0.00	0. 06	0. 00	M0. 08		9.31

Notes: Data missing in any month have an "M" flag. A "T" indicates a trace of precipitation.

Data missing for all days in a month or year is blank.

Creation date: 2016-07-22

Attachment 2: Table 2

Climatological Data for ALPINE, CA - April 2019

Date	Max Temperature	Min Temperature	Avg Temperature	GDD Base 40	GDD Base 50	Precipitation	Snowfall	Snow Depth
2019-04-01	82	56	69.0	29	19	0.00	М	М
2019-04-02	69	48	58.5	19	9	0.00	М	М
2019-04-03	64	51	57.5	18	8	0.12	М	М
2019-04-04	64	48	56.0	16	6	0.00	М	М
2019-04-05	57	50	53.5	14	4	0.06	М	М
2019-04-06	69	50	59.5	20	10	0.01	М	М
2019-04-07	80	47	63.5	24	14	0.00	М	М
2019-04-08	88	56	72.0	32	22	0.00	М	М
2019-04-09	73	54	63.5	24	14	0.00	М	М
2019-04-10	71	43	57.0	17	7	0.00	М	М
2019-04-11	71	44	57.5	18	8	0.00	М	М
2019-04-12	67	48	57.5	18	8	0.00	М	М
2019-04-13	76	47	61.5	22	12	0.00	М	М
2019-04-14	77	49	63.0	23	13	0.00	М	М
2019-04-15	72	47	59.5	20	10	0.00	М	М
2019-04-16	57	51	54.0	14	4	0.00	М	М
2019-04-17	77	48	62.5	23	13	0.00	М	М
2019-04-18	85	49	67.0	27	17	0.00	М	М
2019-04-19	83	54	68.5	29	19	0.00	М	М
2019-04-20	69	51	60.0	20	10	0.00	М	М
2019-04-21	67	51	59.0	19	9	0.00	М	М
2019-04-22	72	48	60.0	20	10	0.00	М	М
2019-04-23	78	49	63.5	24	14	0.00	М	М
2019-04-24	83	54	68.5	29	19	0.00	М	М
2019-04-25	83	53	68.0	28	18	0.00	М	М
2019-04-26	77	51	64.0	24	14	0.00	М	М
2019-04-27	76	52	64.0	24	14	0.00	М	М
2019-04-28	76	51	63.5	24	14	0.00	М	М
2019-04-29	59	52	55.5	16	6	0.11	М	М
2019-04-30	58	50	54.0	14	4	0.18	М	М
Average Sum	72.7	50.1	61.4	649	349	0.48	М	М

Attachment 2: Table 3
Climatological Data for SAN DIEGO MONTGOMERY FIELD, CA - May 2019

Date	Max Temperature	Min Temperature	Avg Temperature	GDD Base 40	GDD Base 50	Precipitation	Snowfall	Snow Depth
2019-05-01	69	58	63.5	24	14	0.00	0.0	0
2019-05-02	69	56	62.5	23	13	0.00	0.0	0
2019-05-03	72	56	64.0	24	14	0.00	0.0	0
2019-05-04	73	57	65.0	25	15	0.00	0.0	0
2019-05-05	70	57	63.5	24	14	Т	0.0	0
2019-05-06	70	58	64.0	24	14	0.04	0.0	0
2019-05-07	68	58	63.0	23	13	Т	0.0	0
2019-05-08	64	56	60.0	20	10	T	0.0	0
2019-05-09	64	57	60.5	21	11	0.04	0.0	0
2019-05-10	65	56	60.5	21	11	0.04	0.0	0
2019-05-11	70	57	63.5	24	14	0.12	0.0	0
2019-05-12	71	57	64.0	24	14	0.00	0.0	0
2019-05-13	70	60	65.0	25	15	0.00	0.0	0
2019-05-14	73	59	66.0	26	16	0.00	0.0	0
2019-05-15	66	59	62.5	23	13	0.00	0.0	0
2019-05-16	66	56	61.0	21	11	0.10	0.0	0
2019-05-17	67	51	59.0	19	9	T	0.0	0
2019-05-18	70	50	60.0	20	10	0.00	0.0	0
2019-05-19	65	54	59.5	20	10	0.16	0.0	0
2019-05-20	64	53	58.5	19	9	0.23	0.0	0
2019-05-21	64	53	58.5	19	9	0.01	0.0	0
2019-05-22	63	54	58.5	19	9	0.12	0.0	0
2019-05-23	66	53	59.5	20	10	T	0.0	0
2019-05-24	68	50	59.0	19	9	0.00	0.0	0
2019-05-25	66	52	59.0	19	9	0.00	0.0	0
2019-05-26	62	54	58.0	18	8	0.15	0.0	0
2019-05-27	64	51	57.5	18	8	0.02	0.0	0
2019-05-28	67	48	57.5	18	8	0.00	0.0	0
2019-05-29	70	54	62.0	22	12	0.00	0.0	0
2019-05-30	71	58	64.5	25	15	0.00	0.0	0
2019-05-31	68	58	63.0	23	13	0.00	0.0	0
Average Sum	67.6	55.2	61.4	670	360	1.03	0.0	0.0

Attachment 2: Table 4
Climatological Data for SAN DIEGO MONTGOMERY FIELD, CA - June 2019

Date	Max Temperature	Min Temperature	Avg Temperature	GDD Base 40	GDD Base 50	Precipitation	Snowfall	Snow Depth
2019-06-01	66	58	62.0	22	12	0.00	0.0	М
2019-06-02	68	58	63.0	23	13	0.00	0.0	0
2019-06-03	67	58	62.5	23	13	0.01	0.0	0
2019-06-04	67	59	63.0	23	13	T	0.0	0
2019-06-05	70	59	64.5	25	15	0.00	0.0	0
2019-06-06	70	59	64.5	25	15	0.00	0.0	0
2019-06-07	69	60	64.5	25	15	0.00	0.0	0
2019-06-08	70	59	64.5	25	15	0.00	0.0	0
2019-06-09	82	58	70.0	30	20	0.00	0.0	0
2019-06-10	91	57	74.0	34	24	0.00	0.0	0
2019-06-11	79	59	69.0	29	19	0.00	0.0	0
2019-06-12	76	62	69.0	29	19	0.00	0.0	0
2019-06-13	72	59	65.5	26	16	0.00	0.0	0
2019-06-14	70	60	65.0	25	15	0.00	0.0	0
2019-06-15	71	61	66.0	26	16	0.00	0.0	0
2019-06-16	69	60	64.5	25	15	0.00	0.0	0
2019-06-17	65	59	62.0	22	12	0.00	0.0	0
2019-06-18	72	60	66.0	26	16	0.00	0.0	0
2019-06-19	73	58	65.5	26	16	0.00	0.0	0
2019-06-20	69	60	64.5	25	15	0.02	0.0	0
2019-06-21	68	59	63.5	24	14	0.06	0.0	0
2019-06-22	72	60	66.0	26	16	0.00	0.0	0
2019-06-23	74	62	68.0	28	18	0.00	0.0	0
2019-06-24	70	61	65.5	26	16	0.00	0.0	0
2019-06-25	69	60	64.5	25	15	0.00	0.0	0
2019-06-26	70	60	65.0	25	15	0.00	0.0	М
2019-06-27	74	60	67.0	27	17	0.00	0.0	М
2019-06-28	77	61	69.0	29	19	0.00	0.0	М
2019-06-29	83	60	71.5	32	22	0.00	0.0	М
2019-06-30	86	63	74.5	35	25	0.00	0.0	М
Average Sum	72.6	59.6	66.1	791	491	0.09	0.0	0.0

Attachment 2: Table 5
Climatological Data for SAN DIEGO MONTGOMERY FIELD, CA - July 2019

Date	Max Temperature	Min Temperature	Avg Temperature	GDD Base 40	GDD Base 50	Precipitation	Snowfall	Snow Depth
2019-07-01	79	60	69.5	30	20	0.00	0.0	0
2019-07-02	74	61	67.5	28	18	0.00	0.0	0
2019-07-03	71	61	66.0	26	16	0.00	0.0	0
2019-07-04	72	62	67.0	27	17	0.00	0.0	0
2019-07-05	73	61	67.0	27	17	0.00	М	М
2019-07-06	73	62	67.5	28	18	0.00	М	М
2019-07-07	73	62	67.5	28	18	0.00	М	М
2019-07-08	71	61	66.0	26	16	0.00	М	М
2019-07-09	77	63	70.0	30	20	0.00	М	М
2019-07-10	79	60	69.5	30	20	0.00	М	М
2019-07-11	79	63	71.0	31	21	0.00	М	М
2019-07-12	78	62	70.0	30	20	0.00	М	М
2019-07-13	76	61	68.5	29	19	0.00	М	М
2019-07-14	79	61	70.0	30	20	0.00	М	М
2019-07-15	83	62	72.5	33	23	0.00	М	М
2019-07-16	75	61	68.0	28	18	0.00	М	М
2019-07-17	72	61	66.5	27	17	0.00	М	М
2019-07-18	79	63	71.0	31	21	0.00	М	М
2019-07-19	73	63	68.0	28	18	0.00	М	М
2019-07-20	76	64	70.0	30	20	0.00	М	М
2019-07-21	78	65	71.5	32	22	0.00	М	М
2019-07-22	83	65	74.0	34	24	T	М	М
2019-07-23	88	68	78.0	38	28	0.00	М	М
2019-07-24	92	70	81.0	41	31	0.00	М	М
2019-07-25	90	71	80.5	41	31	0.00	М	М
2019-07-26	87	68	77.5	38	28	0.00	М	М
2019-07-27	85	68	76.5	37	27	0.00	М	М
2019-07-28	78	64	71.0	31	21	0.00	М	М
2019-07-29	80	63	71.5	32	22	0.00	М	М
2019-07-30	74	64	69.0	29	19	0.00	М	М
2019-07-31	78	62	70.0	30	20	0.00	М	М
Average Sum	78.2	63.3	70.8	960	650	T	0.0	0.0

Attachment 2: Table 6
Climatological Data for SAN DIEGO MONTGOMERY FIELD, CA - August 2019

Date	Max Temperature	Min Temperature	Avg Temperature	GDD Base 40	GDD Base 50	Precipitation	Snowfall	Snow Depth
2019-08-01	81	65	73.0	33	23	0.00	0.0	0
2019-08-02	83	65	74.0	34	24	0.00	0.0	0
2019-08-03	79	65	72.0	32	22	0.00	0.0	0
2019-08-04	81	62	71.5	32	22	0.00	0.0	0
2019-08-05	83	64	73.5	34	24	0.00	0.0	0
2019-08-06	79	65	72.0	32	22	0.00	0.0	0
2019-08-07	77	64	70.5	31	21	0.00	0.0	0
2019-08-08	78	63	70.5	31	21	0.00	0.0	0
2019-08-09	78	61	69.5	30	20	0.00	0.0	0
2019-08-10	78	65	71.5	32	22	0.00	0.0	0
2019-08-11	75	63	69.0	29	19	0.00	0.0	0
2019-08-12	75	62	68.5	29	19	0.00	0.0	0
2019-08-13	80	61	70.5	31	21	0.00	0.0	0
2019-08-14	82	61	71.5	32	22	0.00	0.0	0
2019-08-15	82	62	72.0	32	22	0.00	0.0	0
2019-08-16	77	62	69.5	30	20	0.00	0.0	0
2019-08-17	75	62	68.5	29	19	0.00	0.0	0
2019-08-18	75	63	69.0	29	19	0.00	0.0	0
2019-08-19	79	65	72.0	32	22	0.00	0.0	0
2019-08-20	81	64	72.5	33	23	0.00	0.0	0
2019-08-21	82	63	72.5	33	23	0.00	0.0	0
2019-08-22	73	62	67.5	28	18	0.00	0.0	0
2019-08-23	77	63	70.0	30	20	0.00	0.0	0
2019-08-24	82	63	72.5	33	23	0.00	0.0	0
2019-08-25	91	66	78.5	39	29	0.00	0.0	0
2019-08-26	88	69	78.5	39	29	0.00	0.0	0
2019-08-27	83	67	75.0	35	25	0.00	0.0	0
2019-08-28	77	66	71.5	32	22	0.00	0.0	0
2019-08-29	81	66	73.5	34	24	0.00	0.0	0
2019-08-30	84	66	75.0	35	25	0.00	0.0	0
2019-08-31	86	68	77.0	37	27	0.00	0.0	0
Average Sum	80.1	64.0	72.0	1002	692	0.00	0.0	0.0

Attachment 2: Table 7
Climatological Data for SAN DIEGO MONTGOMERY FIELD, CA - September 2019

Date	Max Temperature	Min Temperature	Avg Temperature	GDD Base 40	GDD Base 50	Precipitation	Snowfall	Snow Depth
2019-09-01	83	67	75.0	35	25	0.00	0.0	0
2019-09-02	88	68	78.0	38	28	0.00	0.0	0
2019-09-03	88	72	80.0	40	30	0.00	0.0	0
2019-09-04	91	72	81.5	42	32	0.01	0.0	0
2019-09-05	88	71	79.5	40	30	0.00	0.0	0
2019-09-06	90	69	79.5	40	30	0.00	0.0	0
2019-09-07	86	67	76.5	37	27	0.00	0.0	0
2019-09-08	76	64	70.0	30	20	0.00	0.0	0
2019-09-09	75	64	69.5	30	20	0.00	0.0	0
2019-09-10	75	64	69.5	30	20	0.00	0.0	0
2019-09-11	78	65	71.5	32	22	0.00	0.0	0
2019-09-12	81	61	71.0	31	21	0.00	0.0	0
2019-09-13	89	64	76.5	37	27	0.00	0.0	0
2019-09-14	94	65	79.5	40	30	0.00	0.0	0
2019-09-15	93	65	79.0	39	29	0.00	0.0	0
2019-09-16	82	67	74.5	35	25	0.00	0.0	0
2019-09-17	81	64	72.5	33	23	0.00	0.0	0
2019-09-18	77	60	68.5	29	19	0.00	0.0	0
2019-09-19	75	61	68.0	28	18	0.00	0.0	0
2019-09-20	77	58	67.5	28	18	0.00	0.0	0
2019-09-21	81	61	71.0	31	21	0.00	0.0	0
2019-09-22	84	60	72.0	32	22	0.00	0.0	0
2019-09-23	78	61	69.5	30	20	0.00	0.0	0
2019-09-24	84	59	71.5	32	22	0.00	0.0	0
2019-09-25	76	66	71.0	31	21	T	0.0	0
2019-09-26	74	68	71.0	31	21	0.00	0.0	0
2019-09-27	73	67	70.0	30	20	0.00	0.0	0
2019-09-28	72	63	67.5	28	18	0.05	0.0	0
2019-09-29	71	58	64.5	25	15	0.00	0.0	0
2019-09-30	74	52	63.0	23	13	0.00	0.0	0
Average Sum	81.1	64.1	72.6	987	687	0.06	0.0	0.0

Attachment 2: Table 8
Climatological Data for SAN DIEGO MONTGOMERY FIELD, CA - October 2019

Date	Max Temperature	Min Temperature	Avg Temperature	GDD Base 40	GDD Base 50	Precipitation	Snowfall	Snow Depth
2019-10-01	72	54	63.0	23	13	0.00	0.0	0
2019-10-02	76	53	64.5	25	15	0.00	0.0	0
2019-10-03	76	55	65.5	26	16	0.00	0.0	0
2019-10-04	79	53	66.0	26	16	0.00	0.0	0
2019-10-05	81	53	67.0	27	17	0.00	0.0	0
2019-10-06	87	55	71.0	31	21	0.00	0.0	0
2019-10-07	87	57	72.0	32	22	0.00	0.0	0
2019-10-08	84	56	70.0	30	20	0.00	0.0	0
2019-10-09	73	63	68.0	28	18	0.00	0.0	0
2019-10-10	75	59	67.0	27	17	0.00	0.0	0
2019-10-11	87	55	71.0	31	21	0.00	0.0	0
2019-10-12	80	53	66.5	27	17	0.00	0.0	0
2019-10-13	75	61	68.0	28	18	0.00	0.0	0
2019-10-14	73	60	66.5	27	17	0.00	0.0	0
2019-10-15	80	55	67.5	28	18	0.00	0.0	0
2019-10-16	84	60	72.0	32	22	0.00	0.0	0
2019-10-17	74	63	68.5	29	19	0.00	0.0	0
2019-10-18	77	57	67.0	27	17	0.00	0.0	0
2019-10-19	81	56	68.5	29	19	0.00	0.0	0
2019-10-20	80	54	67.0	27	17	0.00	0.0	0
2019-10-21	91	57	74.0	34	24	0.00	0.0	0
2019-10-22	97	62	79.5	40	30	0.00	0.0	0
2019-10-23	88	61	74.5	35	25	0.00	0.0	0
2019-10-24	96	60	78.0	38	28	0.00	0.0	0
2019-10-25	91	61	76.0	36	26	0.00	0.0	0
2019-10-26	87	59	73.0	33	23	0.00	0.0	0
2019-10-27	68	57	62.5	23	13	0.00	0.0	0
2019-10-28	77	52	64.5	25	15	0.00	0.0	0
2019-10-29	71	49	60.0	20	10	0.00	0.0	0
2019-10-30	80	50	65.0	25	15	0.00	0.0	0
2019-10-31	78	44	61.0	21	11	0.00	0.0	0
Average Sum	80.8	56.3	68.5	890	580	0.00	0.0	0.0

Attachment 2: Table 9 Summary of Jurisdictional Waters									
Jurisdiction	Area (linear feet)								
Waters of the U.S USACE	Waters of the U.S USACE								
Vernal pools	0.164 ac								
Wetland (swale)	0.023 ac								
Non-wetland Water (culvert)	24 sq. ft. (15.5)								
Total Waters of the U.S.	0.187 ac (15.5)								
Waters of the State - RWQCB									
Vernal pools	0.164 ac								
Wetland (swale)	0.023 ac								
Non-wetland Water (culvert)	24 sq. ft. (15.5)								
Total Waters of the State - RWQCB	0.187 ac (15.5)								
City of San Diego Wetlands									
Vernal pools	0.164 ac								
Wetland (swale)	0.023 ac								
Total City of San Diego Waters	0.187 ac (15.5)								

						ment 2: Table 10 quatic Resources				
Waters	Cowardin		Area (Sq.	Linear	Waters	Latitude	Longitude	Local		
ID	Code	HGM Code	Ft)	Feet	Type	(dd NAD83)	(dd NAD83)	Waterway	Dominant Vegetation	
WDP 1	P	Depress	1381		Isolate	32.81788651770	-117.13557392600	Depression	Lythrum hyssopifolia	
WDP 2	P	Depress	104		Isolate	32.81813787510	-117.13526848500	Depression	Lythrum hyssopifolia	
WDP 3	P	Depress	1211		Isolate	32.81816850630	-117.13479181100	Depression	Psilocarphus brevissimus	
WDP 4	P	Depress	587		Isolate	32.81804586220	-117.13542924100	Depression	Lythrum hyssopifolia	
WDP 5	P	Depress	501		Isolate	32.81824660260	-117.13470848300	Depression	Psilocarphus brevissimus	
WDP 6	P	Depress	71		Isolate	32.81842640010	-117.13467545600	Depression	Lythrum hyssopifolia	
WDP 7	P	Depress	644		Isolate	32.81859580850	-117.13451168800	Depression	Lythrum hyssopifolia	
WDP 8	P	Depress	1238		Isolate	32.81859086300	-117.13459745300	Depression	Psilocarphus brevissimus	
WDP 9	P	Depress	88		Isolate	32.81878000080	-117.13534626000	Depression	Psilocarphus brevissimus	
WDP 10	P	Depress	53		Isolate	32.81878865810	-117.13526933300	Depression	Psilocarphus brevissimus	
WDP 11	P	Depress	143		Isolate	32.81803285540	-117.13486054600	Depression	Psilocarphus brevissimus	
WDP 12	R	Riverine	1195		NRPW	32.81746897750	-117.13497485800	Riverine	Lythrum hyssopifolia	
13	P	Depress	1217		Isolate	32.81891223	-117.13524099	Depression	unknown (not sampled)	
14	P	Depress	3218		Isolate	32.81795266	-117.13440880	Depression	unknown (not sampled)	
15	P	Depress	715		Isolate	32.81759730	-117.13484744	Depression	unknown (not sampled)	
16	P	Depress	396	-	Isolate	32.81718727	-117.13479255	Depression	unknown (not sampled)	
17	R	Riverine	24	15.5	NRPW	32.81946200000	-117.13307200000	Riverine	unknown (not sampled)	
P = Palusti	P = Palustrine; HGM = hydrogeomorphic									

ATTACHMENT 3

Jurisdictional Waters Data Sheets

Project/Site: San Diego Fire-Rescue Air Operations Ha	ngar	City/Count	y: San Dieg	o / San Diego	Sampling Da	ate: July 17	', 2019
Applicant/Owner: City of San Diego				State: CA	Sampling Po	oint: <u>UDP 1</u>	
Investigator(s): Andrew Smisek, Karyl Field		Section,	Township, R	Range: See Remarks			
Landform (hillslope, terrace, etc.): upland		Local reli	ef (concave,	, convex, none): none		Slope (%): (0-2
Subregion (LRR): LRR-C	Lat: -	-117.13557742	22	Long: 32.8178077472	D	atum: NAD8	33
Soil Map Unit Name: Redding gravelly loam (RdC), 2 t	o 9 percent :	slopes		NWI classifica	tion: Paulstrine	e Emergent '	Wetland
Are climatic / hydrologic conditions on the site typical fo	r this time of	year? Yes	x No	(If no, explain	in Remarks.)		
Are Vegetation X, Soil , or Hydrology				· · · · · · · · · · · · · · · · · · ·		Yes x	No
Are Vegetation , Soil , or Hydrology				(If needed, explain any a			
SUMMARY OF FINDINGS – Attach site map sh	nowing sa	mpling poin	t location	s, transects, importa	nt features,	etc.	
Hydrophytic Vegetation Present? Yes	No x						
Hydric Soil Present? Yes	No X		e Sampled	Yes	No	Х	
Wetland Hydrology Present? Yes	No x	— with	in a Wetlan	a <i>r</i> —			
Remarks:							
Paired point to WDP1 occurring in upload just outside	WDP1 depre	ession.					
Section, Touwnship, Range: unsectioned portion of the	e Mission Sa	an Diego lando	grant on the	La Mesa and La Jolla qu	uadrangles		
VEGETATION – Use scientific names of plants							
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wor			
1. None	70 COVE	Opecies:	Status	Number of Dominant S That Are OBL, FACW		0	(A)
2				Total Number of Domi	· —		_(^)
3.				Species Across All Str		0	(B)
4.				Percent of Dominant S	Species		
		= Total Cove	r	That Are OBL, FACW	, or FAC:	0	(A/B)
Sapling/Shrub Stratum (Plot size:)							
1. None				Prevalence Index wo	rksheet:		
2.				Total % Cover of:	N	fultiply by:	_
3				OBL species	0 x 1 =	0	<u> </u>
4				FACW species	0 x 2 =	0	_
5				FAC species	0 x 3 =	0	_
		= Total Cove	r		3 x 4 =	12	_
Herb Stratum (Plot size:)					2 x 5 =	-	_
1. Bromus madritensis	30	Υ	FACU	Column Totals:	5 (A)	22	_(B)
2. Festuca myuros	10	N	UPL	Prevalence Inc	dex = B/A = 4.4		
3. Erodium sp	10	N	FACU				
4. Deinandra fasciculata	5	N	FACU	Hydrophytic Vegetat		i:	
5. Gazania linearis	1	N	UPL	Dominance Tes			
6				Prevalence Inde			
7. 8.				Morphological A data in Rema	Adaptations¹ (Pl arks or on a se		
	46	= Total Cove	er	Problematic Hy	drophytic Vege	tation ¹ (Expl	ain)
Woody Vine Stratum (Plot size:)							
1. None				¹ Indicators of hydric s			must
2				be present, unless di	sturbed or prob	olematic.	
		= Total Cove	r	Hydrophytic			
% Bare Ground in Herb Stratum % Co	var of Diotio	Cmuch		Vegetation Present?	Vaa	No. v	
	ver of Biotic			i icaciit:	Yes	No_x	_
Remarks: Vegetation has been recently mowed (possil	oly today).						

SOIL Sampling Point: <u>UDP 1</u>

Depth (inches)	Matrix Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-1	Color (moist)		Odior (moist)		Турс	LOC	Texture	lote of or	ganic debris	
	7. FVD 4/0		7.5\/D.5/0					1013 01 01	gariic debris	
1-7	7.5YR 4/3	93	7.5YR 5/8	7	<u> </u>	М	sandy loam			
			-	_	·			_		
			· -							
	- <u></u>						- · ·	_		
	ncentration, D=Depletion					s. ² l	Location: PL=Pore			
Hydric Soi	Indicators: (Application	able to all	•		•				atic Hydric So	ils³:
Histoso	` '			Redox (S5)	•			ıck (A9) (LR		
	pipedon (A2)			ed Matrix (S				ıck (A10) (L		
	listic (A3)			Mucky Min	, ,			d Vertic (F18	,	
, ,	en Sulfide (A4)	-1		Gleyed Ma				ent Material Explain in Re	` '	
	d Layers (A5) (LRR (uck (A9) (LRR D)	•)		ed Matrix (F Dark Surfa			Other (E	хріаін ін ке	erriarks)	
	ed Below Dark Surfac	e (Δ11)		ed Dark Sulla	` ,					
	ark Surface (A12)	0 (7111)		Depression	` ,		³ Indicators o	f hydrophyti	c vegetation an	d
	Mucky Mineral (S1)			Pools (F9)	.5 (. 5)				ust be present,	-
	Gleyed Matrix (S4)			(,				sturbed or p		
Restrictive	Layer (if present):									
Type ha	ra rack/compacted si	oil .								
	rd rock/compacted so	Oil					Hydric Soil Pre	sent? V	/os	No X
Depth (inc		int would						in a depres	sional landform	
Depth (income per per per per per per per per per pe	thes): 7 soils at this sample pour y be present due to h	int would ardpan su					ocation occurred	in a depres nged satura	sional landform	. Redox rainy seaso
Depth (inc Remarks: S eatures ma YDROLO Wetland H	ches): 7 coils at this sample poy be present due to h GY ydrology Indicators:	int would ardpan su	bsurface that minmiz	zes drainag			cation occurred ely causes prolo	in a depres nged satura	sional landform tion during the	. Redox rainy seaso
Depth (inc Remarks: Seatures ma YDROLO Wetland H	ches): 7 soils at this sample poy be present due to h GY ydrology Indicators: icators (minimum of c	int would ardpan su	bsurface that minmiz	zes drainag			cation occurred ely causes prolo	in a depres nged satura ondary Indie Vater Marks	sional landform tion during the cators (2 or mo	Redox ainy seaso ore require
Depth (income per per per per per per per per per pe	ches): 7 soils at this sample poy be present due to h GY ydrology Indicators: icators (minimum of o	int would ardpan su	bsurface that minmized; check all that apports	zes drainag			cation occurred ely causes prolo	in a depres nged satura ondary India Vater Marks Sediment De	cators (2 or ma (B1) (Riverine	. Redox rainy seaso ore require) /erine)
Depth (income per per per per per per per per per pe	ches): 7 soils at this sample por y be present due to h GY ydrology Indicators: icators (minimum of or water (A1) ater Table (A2)	int would ardpan su	ed; check all that app Salt Cru Biotic C	oly) st (B11) rust (B12)	e of this are		cation occurred ely causes prolo	in a depres nged satura ondary India Vater Marks Sediment De Drift Deposits	cators (2 or mo (B1) (Riverine eposits (B2) (Riverine s (B3) (Riverine	. Redox rainy seaso ore require) /erine)
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Primary Ind Surface High W Saturat Water I	GY ydrology Indicators: icators (minimum of of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver	int would ardpan su one require	ed; check all that appears and the second se	oly) st (B11) rust (B12) Invertebrate	es (B13) Odor (C1)	ea and like	Seco	ondary India Vater Marks Sediment De Orainage Par	cators (2 or more (B1) (Riverine (B2) (Riverine (B3) (Riverine (B10) Water Table (C	Redox ainy seaso ore require) //erine
Primary Ind Surface High W Saturat Water I Sedime	GY ydrology Indicators: icators (minimum of of water (A1) dater Table (A2) ion (A3) Marks (B1) (Nonriverent Deposits (B2) (No	int would ardpan su one require ine) nriverine)	ed; check all that app Salt Cru Biotic Co Aquatic Hydroge Oxidized	oly) st (B11) rust (B12) Invertebrate en Sulfide Cd d Rhizosphe	es (B13) Odor (C1) eres along	ea and like	Secondary Control of C	ondary India Vater Marks Sediment De Orift Deposits Oranage Pa	cators (2 or more posits (B2) (Riverine tems (B10) Water Table (C7)	Redox ainy seaso ore require) //erine
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YDROLO Wetland H Primary Ind Surface High W Saturat Water I Sedime Drift De Surface	GY ydrology Indicators: icators (minimum of of the Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver and Deposits (B2) (No aposits (B3) (Nonriver as Soil Cracks (B6)	int would ardpan su one require ine) nriverine)	ed; check all that app Salt Cru Biotic C Aquatic Hydroge Oxidized Presenc Recent	oly) Ist (B11) rust (B12) Invertebrate en Sulfide C d Rhizosphe e of Reduc	es (B13) Ddor (C1) eres along ced Iron (C4 tion in Tilled	ea and like	Second S	ondary India Vater Marks Sediment De Orift Deposits Orainage Pa Ory-Season Thin Muck S Crayfish Buri	cators (2 or ma (B1) (Riverine eposits (B2) (Riverine s (B3) (Riverine tterns (B10) Water Table (C urface (C7) rows (C8) sible on Aerial	n. Redox ainy seaso pre require) verine) 2)
YDROLO Wetland H Primary Ind Surface High W Saturat Water I Sedime Drift De Surface Inundar	GY ydrology Indicators: icators (minimum of de Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriverent Deposits (B2) (Noriverent Deposits (B3) (Nonriverent Deposits (B6) icon Visible on Aerial	int would ardpan su one require ine) nriverine)	ed; check all that app Salt Cru Biotic C Aquatic Hydroge Oxidizer Presence Recent Thin Mu	oly) st (B11) rust (B12) Invertebrate en Sulfide C d Rhizosphe ee of Reduct iron Reduct	es (B13) Ddor (C1) eres along ded Iron (C4) tion in Tilled (C7)	ea and like	Second S	ondary India Vater Marks Sediment De Orift Deposits Orainage Par Ory-Season Thin Muck S Crayfish Burn Saturation Vi Shallow Aqu	cators (2 or mo (B1) (Riverine eposits (B2) (Riverine tterns (B10) Water Table (C urface (C7) rows (C8) sible on Aerial itard (D3)	n. Redox ainy seaso pre require) verine) 2)
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YDROLO Wetland H Primary Ind Surface High W Saturat Water I Sedime Drift De Surface Inundat Water-S	GY ydrology Indicators: icators (minimum of of the Water (A1) iater Table (A2) ion (A3) Marks (B1) (Nonriver and Deposits (B2) (No aposits (B3) (Nonriver and Deposits (B6) icino Visible on Aerial (Stained Leaves (B9) rvations: ier Present?	int would ardpan su one require ine) nriverine) magery (E	ed; check all that app Salt Cru Biotic C Aquatic Hydroge Oxidized Presenc Recent Thin Mu Other (E	bly) Ist (B11) rust (B12) Invertebrate en Sulfide C d Rhizosphe e of Reduct lron Reduct lock Surface explain in Reduct ches):	es (B13) Ddor (C1) eres along ded Iron (C4) tion in Tilled (C7)	ea and like	Second S	ondary India Vater Marks Sediment De Orift Deposits Orainage Par Ory-Season Thin Muck S Crayfish Burn Saturation Vi Shallow Aqu	cators (2 or mo (B1) (Riverine eposits (B2) (Riverine tterns (B10) Water Table (C urface (C7) rows (C8) sible on Aerial itard (D3)	n. Redox ainy seaso pre require) verine) 2)
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Project/Site: San Diego Fire-Rescue Air Operations Ha	ıngar	City/County	: San Diego	o / San Diego	_Sampling Date	: July 17, 2019
Applicant/Owner: City of San Diego				State: CA	_Sampling Poin	t: <u>WDP 1</u>
Investigator(s): Andrew Smisek, Karyl Field		Section, T	ownship, R	ange: See Remarks		
Landform (hillslope, terrace, etc.):		Local relie	f (concave,	convex, none): concave	Slo	pe (%): <u>0-2</u>
Subregion (LRR): LRR-C		117.135573920	6	Long: <u>32.8178865177</u>	Datu	ım: NAD83
Soil Map Unit Name: Redding gravelly loam (RdC), 2 to	o 9 percent :	slopes		NWI classificati	on: Paulstrine E	mergent Wetland
Are climatic / hydrologic conditions on the site typical fo	r this time of	year? Yes _	x No	(If no, explain in	Remarks.)	
Are Vegetationx,Soil, or Hydrology	signifi	cantly disturbed	d? Yes A	Are "Normal Circumstance	es" present? Yes	s No
Are Vegetation, Soil, or Hydrology						
SUMMARY OF FINDINGS – Attach site map sl	nowing sa	mpling point	locations	s, transects, importan	t features, etc	>.
Hydrophytic Vegetation Present? Yes x	No	In the	0	A		
Hydric Soil Present? Yes x	No		Sampled A	YAS	x No	
Wetland Hydrology Present? Yesx	No		i a wedan			
Remarks: Sample point occurs in a known vernal pool Section, Touwnship, Range: unsectioned portion of the Known presence of San Diego Fairy Shrimp VEGETATION – Use scientific names of plants	e Mission Sa		ant on the l	La Mesa and La Jolla qua	adrangles.	
	Absolute		Indicator	Dominance Test work	sheet:	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant S		
1. None				That Are OBL, FACW,		(A)
				Total Number of Domin Species Across All Stra		4 (D)
4.				Percent of Dominant Sp		(B)
T		= Total Cover		That Are OBL, FACW,		100 (A/B)
Sapling/Shrub Stratum (Plot size:)		- rotal cover				
1. None				Prevalence Index wor	ksheet:	
2.				Total % Cover of:	Multi	iply by:
3.				OBL species	x 1 =	
4.				FACW species		
5.				FAC species		
		= Total Cover		FACU species		
Herb Stratum (Plot size:)				UPL species		
1. Lythrum hyssopifolia	40		OBL	Column Totals:	(A)	(B)
2. Psilocarphus brevissimus	5		FACW	Prevalence Inde	ex = B/A =	
3. Dittrichia graveolens	1	N	UPL	Hadrankadia Vanatadia		
4.				Hydrophytic Vegetation		
5.				x Dominance Test		
6. 7.				Prevalence Index Morphological Ac		:
8.					ks or on a separ	
o	46	= Total Cover		Problematic Hydi	•	,
Woody Vine Stratum (Plot size:)		- 10ta 0010t		i iobiematic riyu	opriyiic vegetati	OII (Explain)
1 None				¹ Indicators of hydric so	oil and wetland h	vdrology must
2.				be present, unless dist	turbed or probler	natic.
		= Total Cover		Hydrophytic		
				Vegetation		
% Bare Ground in Herb Stratum % Co	ver of Biotic	Crust		Present? Y	es <u>x</u> N	lo
Remarks:						
Vegetation has been recently mowed (possibly today). Vernal pool indicator specicies present.						

SOIL Sampling Point: WDP 1

	ription: (Describe to	o the depth ne				confirm	the absenc	e of inc	dicators.)	
Depth	Matrix			edox Featu		. 2				
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Textu	ıre	Remarks	
0-1	7.5YR 3/1				RM	M	sandy loa	am	lots of organic debris	
1-7	7.5YR 4/2	95 7.5	YR 5/8	5	С	PL & M	sandy loa	am		
		· · <u></u>								
		· 		·			_			
1							2	 .		
	ncentration, D=Depletion					S. '			ning, RC=Root Channel, M=Matrix.	
_	Indicators: (Applic	able to all LRF			•				Problematic Hydric Soils ³ :	
Histosol	` '			Redox (S5)					k (A9) (LRR C)	
	pipedon (A2)			d Matrix (S					k (A10) (LRR B)	
	listic (A3)			Mucky Min	, ,				Vertic (F18)	
	en Sulfide (A4)	C /		Gleyed Ma ed Matrix (F					nt Material (TF2)	
	d Layers (A5) (LRR (uck (A9) (LRR D)	G)		Dark Surfa	,		0	ilei (LX	olain in Remarks)	
	d Below Dark Surfac	e (A11)		ed Dark Su	` ,					
	ark Surface (A12)	,	x Redox I				3Indicat	tors of h	nydrophytic vegetation and	
	Mucky Mineral (S1)			Pools (F9)	(- (-				drology must be present,	
	Gleyed Matrix (S4)			()				-	urbed or problematic.	
Postrictive	Layer (if present):								•	
Type:	Layer (ii present).									
Depth (inc	hoo):		-				Hydric Soi	il Droop	nt? Yes x No	
, ,			-				-			
Remarks: re	edox features obvious	s and observed	throughout 1-7	inch layer.	Only dug 7	7 inches d	due to verna	al pool s	ensitivity.	
HYDROLOG	GY									
Wetland Hy	drology Indicators:	:						Secon	dary Indicators (2 or more red	quired)
Primary Indi	icators (minimum of	one required; c	neck all that app	ly)				Wa	ater Marks (B1) (Riverine)	
Surface	Water (A1)	•	Salt Crus	st (B11)				Se	diment Deposits (B2) (Riverine)
	ater Table (A2)		x Biotic Cr				•		ft Deposits (B3) (Riverine)	,
Saturati	` ,		x Aquatic I		es (B13)		•		ainage Patterns (B10)	
	Marks (B1) (Nonriver	rine)		n Sulfide C			•		/-Season Water Table (C2)	
	ent Deposits (B2) (No			Rhizosphe		Living Ro	nots (C3)		in Muck Surface (C7)	
	posits (B3) (Nonrive			e of Reduc	_	_	000 (00)		ayfish Burrows (C8)	
	Soil Cracks (B6)			ron Reduct	•	,	:6)		turation Visible on Aerial Image	rv (C9)
	ion Visible on Aerial	Imagery (B7)		ck Surface		a 00110 (0			allow Aquitard (D3)	19 (00)
	Stained Leaves (B9)	imagery (Dr)		xplain in R	` '		•		C-Neutral Test (D5)	
water c	Diamed Leaves (D3)		Outer (E	λριαιιτιιτικ	Jiliaiks)			—'^	O Neutral Test (DS)	
Field Obser										
Surface Wat			_x Depth (inc							
Water Table			_x Depth (inc							
Saturation P		es No	_x_ Depth (inc	ches):		Wetla	and Hydrol	logy Pro	esent? Yes <u>x</u> No _	
(includes cap		aouae1	ng well active	hoto- ::::	laue !===	ations\ '	ovellable:			
Describe Rec	corded Data (stream of	gauge, monitor	ng well, aerial pi	notos, prev	ious inspe	ctions), if	avallable:			
Remarks: Dr	ied biotic crust obser	ved throughout	pool.							
	nce of San Diego fair	•	1							
,		. '								

Project/Site: San Diego Fire-Rescue Air Operations Ha	ingar	City/Count	ty: San Dieg	o / San Diego	Sampling Date: No	ov 1, 2019
Applicant/Owner: City of San Diego				State: CA	_Sampling Point: U	OP 2
Investigator(s): Andrew Smisek		Section,	Township, R	lange: See Remarks		
Landform (hillslope, terrace, etc.): upland		Local reli	ef (concave,	, convex, none): none	Slope (%): <u>0-2</u>
Subregion (LRR): LRR-C	Lat: -	117.1352923	64	Long: 32.8181105697	Datum: N	NAD83
Soil Map Unit Name: Redding gravelly loam (RdC), 2 to	o 9 percent :	slopes		NWI classification	on: Paulstrine Emer	gent Wetland
Are climatic / hydrologic conditions on the site typical fo	r this time of	year? Yes	x No	o(If no, explain in	Remarks.)	
Are Vegetation X, Soil , or Hydrology	signifi	cantly disturbe	ed? No	Are "Normal Circumstance	s" present? Yes	x No
Are Vegetation, Soil, or Hydrology	natura	ally problemati	ic? No	(If needed, explain any ans	swers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map sh	nowing sa	mpling poin	t location	s, transects, importan	t features, etc.	
Hydrophytic Vegetation Present? Yes	No X			_		
Hydric Soil Present? Yes	No X		e Sampled	Yes	No X	
Wetland Hydrology Present? Yes	No X	with	in a Wetlan	u :		=
Remarks: Paired point to WDP2 occurring in upload just outside Section, Township, Range: unsectioned portion of the VEGETATION – Use scientific names of plants	Mission San		ant on the L	a Mesa and La Jolla quad	rangles	
	Absolute	Dominant	Indicator	Dominance Test works	sheet:	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Sp		
1. 2.				That Are OBL, FACW, o	·	(A)
3.				Total Number of Domina Species Across All Strat	to:	(D)
4.				Percent of Dominant Sp		(B)
T		= Total Cove		That Are OBL, FACW, o		(A/B)
Sapling/Shrub Stratum (Plot size:)						
1.				Prevalence Index work	sheet:	
2.				Total % Cover of:	Multiply b	oy:
3.				OBL species	x 1 =	
4				FACW species	x 2 =	
5				FAC species	x 3 =	
		= Total Cove	r	FACU species	x 4 =	
Herb Stratum (Plot size:)				UPL species	x 5 =	
1. Bromus madritensis	30	Yes	FACU	Column Totals:	(A)	(B)
2. Erodium sp	50	Yes	FACU	Prevalence Inde	x = B/A =	
3. Dittrichia graveolens		No	NI NI	Hydrophytic Vegetatio	n Indiantero	
Gazania linearis Croton setiger	1	No No	NI NI	Dominance Test i		
			INI	Prevalence Index		
7					aptations¹ (Provide s	cupporting
8.					ks or on a separate	
	87	= Total Cove	er	Problematic Hvdr	ophytic Vegetation ¹ ((Explain)
Woody Vine Stratum (Plot size:)					-p.i., ii. i egeisiii. i	(=
1				¹ Indicators of hydric so	il and wetland hydro	logy must
2.				be present, unless dist	urbed or problemation).
		= Total Cove	r	Hydrophytic		
% Bare Ground in Herb Stratum % Co	over of Biotic	Crust		Vegetation Present?	es No_	X
Remarks: Vegetation has been mowed.						

SOIL Sampling Point: <u>UDP 2</u>

Depth	ription: (Describe to Matrix		Re	edox Featu	res					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Rem	arks
0-6	5YR 3/3	70	5YR 4/6	10	С	М	Sandy Clay	/		
							- <u> </u>			
				-			-			
			-							
								· ·		
				-						
* .	ncentration, D=Depletion		*			. 2	Location: PL=P			
Hydric Soil	Indicators: (Applica	ble to all	LRRs, unless other	rwise note	d.)		Indicator	s for Proble	matic Hydr	ic Soils³:
Histoso	` '			Redox (S5)				Muck (A9) (L	,	
	pipedon (A2)			d Matrix (S				Muck (A10) (
	listic (A3)			Mucky Min				ced Vertic (F	,	
	en Sulfide (A4)	•\		Gleyed Ma				Parent Materi	` ,	
	d Layers (A5) (LRR C uck (A9) (LRR D)	•)		d Matrix (F Dark Surfa	,		Otne	r (Explain in F	kemarks)	
	d Below Dark Surface	Δ11)		d Dark Sulla						
	ark Surface (A12)	, (, (, 1, 1)		Depression			³ Indicator	s of hydrophy	rtic vegetati	on and
	Mucky Mineral (S1)			Pools (F9)	10 (1 0)			nd hydrology i	-	
	Gleyed Matrix (S4)			(,				s disturbed or		
	Layer (if present):								<u> </u>	
	rd rock/compacted co	il								
Type: ha	rd rock/compacted so	il					Lludria Cail F	Propont?	Voc	No v
Type: ha		int would r						red in a depre		
Type: ha Depth (inc Remarks: S features mag	hes): 6 oils at this sample po	int would r					ocation occur	red in a depre	essional lan	dform. Redox
Type: ha Depth (inc Remarks: S features may	hes): 6 oils at this sample po y be present due to he	int would r					ocation occuri	red in a depre olonged satur	essional land ration during	ofform. Redox
Type: had Depth (incomplete Remarks: Signatures may be seen as the	hes): 6 oils at this sample po y be present due to ha	int would r ardpan sul	bsurface that minmiz	es drainag			ocation occuri	red in a depre olonged satur econdary Inc	essional land ration during	of more requi
Type: ha Depth (inco Remarks: S features may HYDROLOG Wetland Hy Primary Indo	hes): 6 oils at this sample po y be present due to he GY ydrology Indicators: icators (minimum of c	int would r ardpan sul	bsurface that minmiz	es drainag			ocation occuri	red in a depre olonged satur econdary Inc Water Mark	essional land ation during licators (2 ss (B1) (Riv	or more requirerine)
Type: ha Depth (inc Remarks: S features may HYDROLOG Wetland Hy Primary Ind Surface	hes): 6 oils at this sample po y be present due to ha GY ydrology Indicators: icators (minimum of co	int would r ardpan sul	bsurface that minmiz ed; check all that appSalt Crus	es drainago			ocation occuri	red in a depre olonged satur econdary Inc Water Mark Sediment D	essional landation during licators (2 KS (B1) (Riv	or more requirerine) 2) (Riverine)
Type: ha Depth (inc Remarks: S features may HYDROLOG Wetland Hy Primary Ind Surface	hes): 6 oils at this sample po y be present due to he GY ydrology Indicators: icators (minimum of c	int would r ardpan sul	bsurface that minmiz ed; check all that appSalt Crus	es drainag			ocation occuri	red in a depre olonged satur econdary Inc Water Mark	essional landation during licators (2 KS (B1) (Riv	or more requirerine) 2) (Riverine)
Type: had Depth (incomplete incomplete incom	hes): 6 oils at this sample po y be present due to he grade description of color of the color	int would r ardpan sul	ed; check all that app Salt Crus Biotic Cr	es drainago	e of this are		ocation occuri	econdary Inc Water Mark Sediment D Drift Depos	dicators (2 ks (B1) (Riv Deposits (B2 its (B3) (Riv atterns (B1	or more requirerine) (2) (Riverine) (0)
Type: ha Depth (inc Remarks: S features may HYDROLOG Wetland Hy Primary Ind Surface High W Saturat Water N	hes): 6 oils at this sample po y be present due to ha gradient of the sample po y drology Indicators: icators (minimum of co a Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver)	int would r ardpan sul ne require	ed; check all that app Salt Crus Biotic Cr Aquatic I Hydroge	ly) st (B11) ust (B12) nvertebrate n Sulfide C	e of this are	a and like	ocation occurrely causes pro	econdary Inc Water Mark Sediment Depose Drainage P	essional landration during licators (2 ss (B1) (Riv Deposits (B2 its (B3) (Riv catterns (B1 n Water Tat	or more requirerine) (2) (Riverine) (3) (Riverine) (4) (Riverine) (5) (Riverine)
Type: ha Depth (inc Remarks: S features may HYDROLOG Wetland Hy Primary Ind Surface High W Saturat Water N	hes): 6 oils at this sample po y be present due to he grade description of color of the color	int would r ardpan sul ne require	ed; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized	ly) st (B11) ust (B12) nvertebrate n Sulfide C Rhizosphe	e of this are es (B13) odor (C1) eres along l	a and like	ocation occurrely causes pro	econdary Inc Water Mark Sediment D Drift Depos Drainage P Dry-Seasor	dicators (2 ks (B1) (Riv Deposits (B2 its (B3) (Riv latterns (B1 n Water Tal Surface (CT	or more requirerine) (2) (Riverine) (3) (Riverine) (4) (Riverine) (5) (Riverine)
Type: ha Depth (incomplete incomplete incomp	oils at this sample po y be present due to have ydrology Indicators: icators (minimum of co wWater (A1) ater Table (A2) ion (A3) Warks (B1) (Nonriver int Deposits (B2) (Nonriver	int would r ardpan sul ne require ine)	ed; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized	ly) st (B11) ust (B12) nvertebrate n Sulfide C Rhizosphe	e of this are	a and like	ocation occurrely causes pro	econdary Inc Water Mark Sediment D Drift Depos Drainage P Dry-Seasor Thin Muck Crayfish Bu	dicators (2 ks (B1) (Riv Deposits (B2) dits (B3) (Riv datterns (B1) n Water Tal Surface (C7)	or more requirerine) (2) (Riverine) (4) (C2) (7)
Type: ha Depth (incomplete incomplete incomp	oils at this sample po y be present due to have ydrology Indicators: icators (minimum of co water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriverient Deposits (B2) (No	int would r ardpan sul ne require ine)	ed; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence	ly) st (B11) ust (B12) nvertebrate n Sulfide C Rhizosphe	e of this are es (B13) odor (C1) eres along l	a and like	ocation occurrely causes pro	econdary Inc Water Mark Sediment D Drift Depos Drainage P Dry-Seasor Thin Muck Crayfish Bu Saturation	dicators (2 ks (B1) (Riv Deposits (B2 dits (B3) (Riv detterns (B1) n Water Tal Surface (C7 durrows (C8) Visible on A	or more requirerine) (2) (Riverine) (3) (Riverine) (4) (Riverine) (5) (Riverine)
Type: ha Depth (inco Remarks: S features may HYDROLOG Wetland Hy Primary Indo Surface High W Saturat Water N Sedime Drift De Surface	oils at this sample po y be present due to have ydrology Indicators: icators (minimum of co wWater (A1) ater Table (A2) ion (A3) Warks (B1) (Nonriver int Deposits (B2) (Nonriver	int would r ardpan sul ne require ine) nriverine)	ed; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I	ly) st (B11) ust (B12) nvertebrate n Sulfide C Rhizosphe	es (B13) dor (C1) eres along Led Iron (C4 ion in Tilled	a and like	ocation occurrely causes pro	econdary Inc Water Mark Sediment D Drift Depos Drainage P Dry-Seasor Thin Muck Crayfish Bu	dicators (2 ks (B1) (Riv Deposits (B2 dits (B3) (Riv detterns (B1) n Water Tal Surface (C7 durrows (C8) Visible on A	or more requirerine) (2) (Riverine) (4) (C2) (7)
Type: ha Depth (inco Remarks: S features may HYDROLOG Wetland Hy Primary Indo Surface High W Saturat Water N Sedime Drift De Surface Inundat	coils at this sample po y be present due to have ydrology Indicators: icators (minimum of co water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (Non- posits (B3) (Nonriver es Soil Cracks (B6)	int would r ardpan sul ne require ine) nriverine)	ed; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent II Thin Muc	ly) st (B11) ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduc	es (B13) bdor (C1) eres along l ed Iron (C4) ion in Tilled (C7)	a and like	ocation occurrely causes pro	econdary Inc Water Mark Sediment D Drift Depos Drainage P Dry-Seasor Thin Muck Crayfish Bu Saturation	dicators (2 ks (B1) (Riv Deposits (B2 its (B3) (Riv latterns (B1 n Water Tat Surface (C7 urrows (C8) Visible on A	or more requirements erine) 2) (Riverine) verine) 0) ble (C2) 7) aerial Imagery (
Type: ha Depth (inco Remarks: S features may HYDROLOG Wetland Hy Primary Indo Surface High W Saturat Water M Sedime Drift De Surface Inundat Water-S	oils at this sample po y be present due to have ydrology Indicators: icators (minimum of co water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (Nonriver es Soil Cracks (B6) ion Visible on Aerial I	int would r ardpan sul ne require ine) nriverine)	ed; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent II Thin Muc	ly) st (B11) ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduct ron Reduct ck Surface	es (B13) bdor (C1) eres along l ed Iron (C4) ion in Tilled (C7)	a and like	ocation occurrely causes pro	econdary Inc Water Mark Sediment D Drift Depos Drainage P Dry-Seasor Thin Muck Crayfish Bu Saturation Shallow Aq	dicators (2 ks (B1) (Riv Deposits (B2 its (B3) (Riv latterns (B1 n Water Tat Surface (C7 urrows (C8) Visible on A	or more requirements erine) 2) (Riverine) verine) 0) ble (C2) 7) aerial Imagery (
Type: ha Depth (inco Remarks: S features may HYDROLOG Wetland Hy Primary Indo Surface High W Saturat Water N Sedime Drift De Surface Inundat Water-S	oils at this sample po y be present due to have ydrology Indicators: icators (minimum of co water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (Non eposits (B3) (Nonriver e) Soil Cracks (B6) ion Visible on Aerial II Stained Leaves (B9)	int would r ardpan sul ne require ine) nriverine) magery (E	ed; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent II Thin Muc	ly) st (B11) ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re	es (B13) bdor (C1) eres along l ed Iron (C4) ion in Tilled (C7)	a and like	ocation occurrely causes pro	econdary Inc Water Mark Sediment D Drift Depos Drainage P Dry-Seasor Thin Muck Crayfish Bu Saturation Shallow Aq	dicators (2 ks (B1) (Riv Deposits (B2 its (B3) (Riv latterns (B1 n Water Tat Surface (C7 urrows (C8) Visible on A	or more requirements erine) 2) (Riverine) verine) 0) ble (C2) 7) aerial Imagery (
Type: ha Depth (inco Remarks: S features may HYDROLOG Wetland Hy Primary Indo Surface High W Saturat Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Wat	hes): 6 oils at this sample po y be present due to he gradient of the present due to he gradient of the present due to he ydrology Indicators: icators (minimum of co to Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver tent Deposits (B2) (Non posits (B3) (Nonriver tent Deposits (B6) ion Visible on Aerial II Stained Leaves (B9) rvations: ter Present?	int would rardpan sul	ed; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent II Thin Muc	ly) st (B11) ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re	es (B13) bdor (C1) eres along l ed Iron (C4) ion in Tilled (C7)	a and like	ocation occurrely causes pro	econdary Inc Water Mark Sediment D Drift Depos Drainage P Dry-Seasor Thin Muck Crayfish Bu Saturation Shallow Aq	dicators (2 ks (B1) (Riv Deposits (B2 its (B3) (Riv latterns (B1 n Water Tat Surface (C7 urrows (C8) Visible on A	or more requirements erine) 2) (Riverine) verine) 0) ble (C2) 7) aerial Imagery (
Type: ha Depth (inco Remarks: S features may HYDROLOG Wetland Hy Primary Indo Surface High W Saturat Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Wat Water Table	hes): 6 oils at this sample po y be present due to ha oils at this sample po y be present due to ha order of the present du	int would rardpan sul	ed; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent II Thin Muc Other (E	ly) st (B11) ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re	es (B13) bdor (C1) eres along l ed Iron (C4) ion in Tilled (C7)	a and like	ocation occurrely causes programmed by causes progr	econdary Inc Water Mark Sediment D Drift Depos Drainage P Dry-Seasor Thin Muck Crayfish Bu Saturation Shallow Aq FAC-Neutra	dicators (2 ks (B1) (Riv Deposits (B2 its (B3) (Riv atterns (B1 in Water Tal Surface (C7 urrows (C8) Visible on A uitard (D3) al Test (D5)	or more requirerine) (2) (Riverine) (3) (Riverine) (4) (Riverine) (5) (Riverine) (6) (C2) (7) (Riverine)
Type: ha Depth (inco Remarks: S features may HYDROLOG Wetland Hy Primary Indo Surface High W Saturat Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Wat Water Table Saturation P	hes): 6 oils at this sample po y be present due to ha oils at this sample po y be present due to ha oils at this sample po y be present due to ha or various Indicators: icators (minimum of or or vater (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (Non ion (Deposits (B3) (Nonriver or Soil Cracks (B6) ion Visible on Aerial I or Stained Leaves (B9) vations: er Present? Y resent? Y	int would rardpan sul	ed; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent II Thin Muc	ly) st (B11) ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re	es (B13) bdor (C1) eres along l ed Iron (C4) ion in Tilled (C7)	a and like	ocation occurrely causes pro	econdary Inc Water Mark Sediment D Drift Depos Drainage P Dry-Seasor Thin Muck Crayfish Bu Saturation Shallow Aq FAC-Neutra	dicators (2 ks (B1) (Riv Deposits (B2 its (B3) (Riv latterns (B1 n Water Tat Surface (C7 urrows (C8) Visible on A	or more requirerine) (2) (Riverine) (3) (Riverine) (4) (Riverine) (5) (Riverine) (6) (Riverine) (7) (Riverine) (8) (Riverine) (9) (Riverine)
Type: ha Depth (inco Remarks: S features may HYDROLOG Wetland Hy Primary Indo Surface High W Saturat Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Wat Water Table Saturation P (includes ca	hes): 6 oils at this sample po y be present due to ha oils at this sample po y be present due to ha order of the present du	int would rardpan sul	ed; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent II Thin Muc Other (E No X Depth (inc No X Depth (inc	ly) st (B11) ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduct ck Surface xplain in Re ches):	es (B13) bdor (C1) eres along L ed Iron (C4 ion in Tilled (C7) emarks)	a and like	ocation occurrely causes properties of the causes of the cause	econdary Inc Water Mark Sediment D Drift Depos Drainage P Dry-Seasor Thin Muck Crayfish Bu Saturation Shallow Aq FAC-Neutra	dicators (2 ks (B1) (Riv Deposits (B2 its (B3) (Riv atterns (B1 in Water Tal Surface (C7 urrows (C8) Visible on A uitard (D3) al Test (D5)	or more requirerine) (2) (Riverine) (3) (Riverine) (4) (Riverine) (5) (Riverine) (6) (C2) (7) (Riverine)
Type: ha Depth (inco Remarks: S features may HYDROLOG Wetland Hy Primary Indo Surface High W Saturat Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Wat Water Table Saturation P (includes ca	hes): 6 oils at this sample po y be present due to ha oils at this sample po y be present due to ha oils at this sample po y be present due to ha or variology Indicators: icators (minimum of co or Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver) oin (Deposits (B2) (Nonriver) or color (B3) (Nonriver) or color (B3) (Nonriver) or color (B3) (Nonriver) or color (B3) (Nonriver) or color (B4) or co	int would rardpan sul	ed; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent II Thin Muc Other (E No X Depth (inc No X Depth (inc	ly) st (B11) ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduct ck Surface xplain in Re ches):	es (B13) bdor (C1) eres along L ed Iron (C4 ion in Tilled (C7) emarks)	a and like	ocation occurrely causes properties of the causes of the cause	econdary Inc Water Mark Sediment D Drift Depos Drainage P Dry-Seasor Thin Muck Crayfish Bu Saturation Shallow Aq FAC-Neutra	dicators (2 ks (B1) (Riv Deposits (B2 its (B3) (Riv atterns (B1 in Water Tal Surface (C7 urrows (C8) Visible on A uitard (D3) al Test (D5)	or more requirerine) (2) (Riverine) (3) (Riverine) (4) (Riverine) (5) (Riverine) (6) (C2) (7) (Riverine)
Type: ha Depth (inco Remarks: S features may HYDROLOG Wetland Hy Primary Ind Surface High W Saturat Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Wat Water Table Saturatino P (includes ca Describe Rec	ioils at this sample pour be present due to have be present due to have be present due to have be water (A1) atter Table (A2) ion (A3) Marks (B1) (Nonriversitant Deposits (B2) (Nonriversitant Deposits (B3) (Nonriversitant Deposits (B6) ion Visible on Aerial In Stained Leaves (B9) vations: The Present? Present? Yeresent?	int would rardpan sul	ed; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent II Thin Muc Other (E No X Depth (inc No X Depth (inc	ly) st (B11) ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduct ck Surface xplain in Re ches):	es (B13) bdor (C1) eres along L ed Iron (C4 ion in Tilled (C7) emarks)	a and like	ocation occurrely causes properties of the causes of the cause	econdary Inc Water Mark Sediment D Drift Depos Drainage P Dry-Seasor Thin Muck Crayfish Bu Saturation Shallow Aq FAC-Neutra	dicators (2 ks (B1) (Riv Deposits (B2 its (B3) (Riv atterns (B1 in Water Tal Surface (C7 urrows (C8) Visible on A uitard (D3) al Test (D5)	or more requirerine) (2) (Riverine) (3) (Riverine) (4) (Riverine) (5) (Riverine) (6) (C2) (7) (Riverine)
Type: ha Depth (inco Remarks: S features may HYDROLOG Wetland Hy Primary Ind Surface High W Saturat Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Wat Water Table Saturatino P (includes ca Describe Rec	hes): 6 oils at this sample po y be present due to ha oils at this sample po y be present due to ha oils at this sample po y be present due to ha or variology Indicators: icators (minimum of co or Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver) oin (Deposits (B2) (Nonriver) or color (B3) (Nonriver) or color (B3) (Nonriver) or color (B3) (Nonriver) or color (B3) (Nonriver) or color (B4) or co	int would rardpan sul	ed; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent II Thin Muc Other (E No X Depth (inc No X Depth (inc	ly) st (B11) ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduct ck Surface xplain in Re ches):	es (B13) bdor (C1) eres along L ed Iron (C4 ion in Tilled (C7) emarks)	a and like	ocation occurrely causes properties of the causes of the cause	econdary Inc Water Mark Sediment D Drift Depos Drainage P Dry-Seasor Thin Muck Crayfish Bu Saturation Shallow Aq FAC-Neutra	dicators (2 ks (B1) (Riv Deposits (B2 its (B3) (Riv atterns (B1 in Water Tal Surface (C7 urrows (C8) Visible on A uitard (D3) al Test (D5)	or more requirerine) (2) (Riverine) (3) (Riverine) (4) (Riverine) (5) (Riverine) (6) (C2) (7) (Riverine)
Type: ha Depth (inco Remarks: S features may HYDROLOG Wetland Hy Primary Ind Surface High W Saturat Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Wat Water Table Saturatino P (includes ca Describe Rec	ioils at this sample pour be present due to have be present due to have be present due to have be water (A1) atter Table (A2) ion (A3) Marks (B1) (Nonriversitant Deposits (B2) (Nonriversitant Deposits (B3) (Nonriversitant Deposits (B6) ion Visible on Aerial In Stained Leaves (B9) vations: The Present? Present? Yeresent?	int would rardpan sul	ed; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent II Thin Muc Other (E No X Depth (inc No X Depth (inc	ly) st (B11) ust (B12) nvertebrate n Sulfide C Rhizosphe e of Reduct ck Surface xplain in Re ches):	es (B13) bdor (C1) eres along L ed Iron (C4 ion in Tilled (C7) emarks)	a and like	ocation occurrely causes properties of the causes of the cause	econdary Inc Water Mark Sediment D Drift Depos Drainage P Dry-Seasor Thin Muck Crayfish Bu Saturation Shallow Aq FAC-Neutra	dicators (2 ks (B1) (Riv Deposits (B2 its (B3) (Riv atterns (B1 in Water Tal Surface (C7 urrows (C8) Visible on A uitard (D3) al Test (D5)	or more requirerine) (2) (Riverine) (3) (Riverine) (4) (Riverine) (5) (Riverine) (6) (C2) (7) (Riverine)

Project/Site: San Diego Fire-Rescue	Air Operations Ha	angar	City/Count	ty: San Dieg	o / San Diego	_Sampling Date	e: July 17, 2019
Applicant/Owner: City of San Diego					State: CA	Sampling Poir	nt: WDP 2
Investigator(s): Andrew Smisek, Karyl				Township, R	lange: See Remarks		
Landform (hillslope, terrace, etc.):					convex, none): concave	SI	ope (%): <u>0-2</u>
Subregion (LRR): LRR-C		Lat:	-117.1352684	85	Long: <u>32.8181378751</u>	Dat	um: NAD83
Soil Map Unit Name: Redding gravell	y Ioam (RdC), 2 t	to 9 percent	slopes		NWI classificat	ion: Paulstrine E	Emergent Wetland
Are climatic / hydrologic conditions on			-		` ' ' '		
Are Vegetation X, Soil	_				Are "Normal Circumstanc	es" present? Ye	es <u>x</u> No
Are Vegetation, Soil	<u>,</u> or Hydrology _	natur	ally problemat	ic? No	(If needed, explain any ar	swers in Remar	rks.)
SUMMARY OF FINDINGS – Atta	ich site map sl	howing sa	mpling poin	nt location	s, transects, importa	nt features, et	c.
Hydrophytic Vegetation Present?	Yes x	No	lo th	a Camplad	Aron		
Hydric Soil Present?	Yes x	No		e Sampled in a Wetlan	YAS	x No	
Wetland Hydrology Present?	Yes x	_No	_				
Remarks: Section, Touwnship, Rang VEGETATION – Use scientific n			Mission San I	Diego landgr	ant on the La Mesa and	La Jolla quadrar	ngles
VEGETATION – Use scientific in	arries or plant	Absolute	Dominant	Indicator	Dominance Test work	sheet:	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant S		
1. None					That Are OBL, FACW,		1 (A)
2					Total Number of Domir		
3.					Species Across All Stra		1(B)
4					Percent of Dominant S That Are OBL, FACW,	•	100 (A/B)
Sapling/Shrub Stratum (Plot size:	,		= Total Cove	r			, , ,
1. None					Prevalence Index wor	rkshoot	
2					Total % Cover of:		tiply by:
3					OBL species		
4.					FACW species		
5.			-		FAC species		
			= Total Cove	r	FACU species		
Herb Stratum (Plot size:)				UPL species	x 5 =	
1. Lythrum hyssopifolia		30	Υ	OBL	Column Totals:	(A)	(B)
2. Psilocarphus brevissimus		10	N	FACU	Prevalence Inde	ex = B/A =	
3. Deinandra fasciculata		10	N	FACW			
4. Bromus madritensis		1	N	FACU	Hydrophytic Vegetati	on Indicators:	
5					x Dominance Test		
6.					Prevalence Inde		
7					Morphological A	daptations¹ (Prov rks or on a sepa	
8			T-1-1-0			•	,
Woody Vine Stratum (Plot size:	1	51	= Total Cov	er	Problematic Hyd	rophytic Vegetat	tion' (Explain)
1. None					¹ Indicators of hydric se	oil and watland b	avdrology must
2					be present, unless dis	turbed or proble	matic.
			= Total Cove	r	Hydrophytic		
% Bare Ground in Herb Stratum	% Cc	over of Biotic	Crust		Vegetation Present?	res <u>x</u> !	No
Remarks: Vernal pool indicator specie	es present.				1		

SOIL Sampling Point: WDP 2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix	aop	Re	edox Featu			inc abscince		,
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	<u> </u>	Remarks
0-6	5YR 3/3	70	5YR 4/6	20	C	М	sandy clay	<u>/</u>	
	-								
	-	_	-						
-			-	· 					
			· -				_		
¹ Type: C=Co	oncentration, D=Depletion	n, RM=Red	uced Matrix, CS=Covere	d or Coated	Sand Grain	S. 2	Location: PL=F	Pore Lining,	RC=Root Channel, M=Matrix.
	il Indicators: (Applic								blematic Hydric Soils ³ :
Histoso	ol (A1)		Sandy F	Redox (S5)			1 cm	Muck (A9) (LRR C)
	Epipedon (A2)			d Matrix (So			2 cm	Muck (A1	0) (LRR B)
	Histic (A3)			Mucky Min				uced Vertic	` ,
	gen Sulfide (A4)			Gleyed Ma					iterial (TF2)
	ed Layers (A5) (LRR (C)		d Matrix (F			Othe	er (Explain	in Remarks)
	Muck (A9) (LRR D)	o (A11)		Dark Surfac	` ,				
	ed Below Dark Surfac Dark Surface (A12)	e (ATT)	X Redox I	d Dark Sur			3Indicato	re of bydro	phytic vegetation and
	Mucky Mineral (S1)			Pools (F9)	15 (1 0)			•	egy must be present,
	Gleyed Matrix (S4)			00.0 (1 0)				-	d or problematic.
	Layer (if present):								•
Type:									
Depth (in							Hydric Soil	Present?	Yes x No
	Many redox features						i iyano con	. 1000111.	
HYDROLO									1 11 / 10
	lydrology Indicators		andronal all that area	L A			<u> </u>		Indicators (2 or more required
	dicators (minimum of	one requir							Marks (B1) (Riverine)
	e Water (A1)		Salt Crus	. ,			_		nt Deposits (B2) (Riverine)
	Vater Table (A2)			ust (B12)			_		posits (B3) (Riverine)
	tion (A3)		 ·	nvertebrate	` '		_		e Patterns (B10)
	Marks (B1) (Nonrive			n Sulfide O	. ,		- (00)		ason Water Table (C2)
	ent Deposits (B2) (No			Rhizosphe	_	-	ots (C3)		ick Surface (C7)
	eposits (B3) (Nonrive	rine)		e of Reduc	,	,			Burrows (C8)
	e Soil Cracks (B6)			ron Reduct		d Soils (C	6) <u> </u>		on Visible on Aerial Imagery (C9
	ation Visible on Aerial	Imagery (E	<i>'</i>	k Surface			_		Aquitard (D3)
wvater-	Stained Leaves (B9)		Other (E	xplain in Re	emarks)		_	FAC-Ne	eutral Test (D5)
Field Obse	rvations:								
Surface Wa	nter Present?	'es	No x Depth (inc	:hes):					
Water Table	e Present?	'es	No x Depth (inc	:hes):					
Saturation F	Present? \ Apillary fringe)	'es	No x Depth (inc	:hes):		Wetla	and Hydrolo	gy Presen	t? Yes <u>x</u> No
	corded Data (stream	nauge mo	nitoring well aerial pl	notos prev	ious inspe	ctions) if	available:		
Describe No	oorded Bala (Stream)	gaago, me	rintoring well, dental pr	iotos, prov	iodo iriopo	otionoj, ii	available.		
Remarks: S	oil cracking observed								
I IC A Ca	rns of Engineers								Arid West - Version 2.0

US Army Corps of Engineers

Project/Site: San Diego Fire-Rescue Air Operations Ha	ngar	City/Count	ty: San Dieg	o / San Diego	Sampling Date: Nov	/ 1, 2019
Applicant/Owner: City of San Diego				State: CA	Sampling Point: UDI	P 3
Investigator(s): Andrew Smisek		Section,	Township, R	lange: See Remarks		
Landform (hillslope, terrace, etc.): upland		Local reli	ief (concave,	convex, none): none	Slope (%	b): <u>0-2</u>
Subregion (LRR): LRR-C	Lat: -	117.1348426	75	Long: 32.8182494581	Datum: NA	AD83
Soil Map Unit Name: Redding gravelly loam (RdC), 2 to	o 9 percent :	slopes		NWI classification	on: Paulstrine Emerge	ent Wetland
Are climatic / hydrologic conditions on the site typical for	r this time of	year? Yes	xNo	o(If no, explain in	Remarks.)	
Are Vegetation X, Soil , or Hydrology	signifi	cantly disturb	ed? No	Are "Normal Circumstance	s" present? Yesx	No
Are Vegetation, Soil, or Hydrology	natura	ally problemat	ic? No	(If needed, explain any ans	swers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map sh	nowing sa	mpling poir	nt location	s, transects, importan	t features, etc.	
Hydrophytic Vegetation Present? Yes	No X					
Hydric Soil Present? Yes	No X		e Sampled in a Wetlan	Yes	No X	
Wetland Hydrology Present? Yes	No X	_	iii a wellan	u:		
Remarks: Paired point to WDP3 occurring in upload just outside bection, Touwnship, Range: unsectioned portion of the VEGETATION – Use scientific names of plants	e Mission Sa		grant on the	La Mesa and La Jolla quad	drangles	
	Absolute	Dominant	Indicator	Dominance Test work	sheet:	
Tree Stratum (Plot size:) 1.	% Cover	Species?	Status	Number of Dominant Sp		(4)
2.				That Are OBL, FACW, of		(A)
3.				Total Number of Domina Species Across All Stra		(B)
4.				Percent of Dominant Sp	pecies	```
		= Total Cove	r	That Are OBL, FACW, o	or FAC: 0	(A/B)
Sapling/Shrub Stratum (Plot size:)						
1.				Prevalence Index worl	ksheet:	
2				Total % Cover of:	Multiply by	
3				OBL species	x 1 =	
4				FACW species	x 2 =	
5				FAC species	x 3 =	
Harb Christian (District)		= Total Cove	er	FACU species	x 4 =	
Herb Stratum (Plot size:) 1. Erodium sp.	50	Yes	FACU	UPL species Column Totals:	x 5 = (A)	(B)
2. Bromus madritensis	30	Yes	FACU			
3. Gazania linearis	5	No No	NI	Prevalence Inde	x = B/A =	
4. Lofia gallica	1	No	NI	Hydrophytic Vegetation	n Indicators:	
5. Croton setiger	1	No	NI	Dominance Test		
6.				Prevalence Index		
7.				Morphological Ad	laptations ¹ (Provide su	upporting
8.				data in Remar	ks or on a separate sh	neet)
	87	= Total Cov	er	Problematic Hydr	ophytic Vegetation ¹ (E	Explain)
Woody Vine Stratum (Plot size:)						
1				¹ Indicators of hydric so be present, unless dist	il and wetland hydrolo urbed or problematic.	gy must
		= Total Cove	r	Hydrophytic		
% Bare Ground in Herb Stratum % Co	ver of Biotic	Crust		Vegetation	esNo	X
Remarks: Vegetation has been recently mowed				1		

SOIL Sampling Point: <u>UDP 3</u>

Depth	scription: (Describe to Matrix		Re	edox Feat					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textu	ure	Remarks
0-4	5YR 3/3						sandy lo	am	
4-8	2.5YR 3/4	70	2.5YR 4/8	5	C	М	clay		redox features present
	oncentration, D=Depletion					s.			.ining, RC=Root Channel, M=Matrix. r Problematic Hydric Soils ³ :
Histos		able to al		Redox (S5	•				ck (A9) (LRR C)
	Epipedon (A2)			d Matrix (S					ck (A10) (LRR B)
	Histic (A3)			Mucky Mir					Vertic (F18)
	gen Sulfide (A4)			Gleyed Ma	` '				ent Material (TF2)
	ied Layers (A5) (LRR (C)		d Matrix (plain in Remarks)
	Muck (A9) (LRR D)	,		Dark Surfa				,	,
Deplet	ted Below Dark Surfac	e (A11)	Deplete	d Dark Su	urface (F7)				
Thick [Dark Surface (A12)		Redox	Depressio	ns (F8)		³ Indica	tors of	hydrophytic vegetation and
Sandy	Mucky Mineral (S1)		Vernal I	Pools (F9))		wet	tland h	ydrology must be present,
Sandy	Gleyed Matrix (S4)						unle	ess dis	turbed or problematic.
Restrictive	Layer (if present):								
	ard rock/compacted so	oil							
.) [
Depression	Redox features in the	occurred in	n a depressional landf	orm. Redo	ox features	oils at this may be p	Hydric So s sample po present due	int wou	Ild meet the criteria for Redox
Remarks: Depression of this area	Redox features in the ns (F8) if this location of a and likely causes pro	occurred in	n a depressional landf	orm. Redo	ox features	oils at this may be p	s sample po	int wou	Ild meet the criteria for Redox
Remarks: Depression of this area	Redox features in the ns (F8) if this location of and likely causes pro	occurred ir longed sa	n a depressional landf	orm. Redo	ox features	oils at this	s sample po	int wou to hard	lld meet the criteria for Redox Ipan subsurface that minmizes draina
Remarks: Depression of this area	Redox features in the ns (F8) if this location of a and likely causes pro	occurred ir longed sa	n a depressional landf turation during the rai	orm. Redo	ox features	oils at this	s sample po	int wou to hard	ald meet the criteria for Redox dpan subsurface that minmizes drainated and the subsurface that minmizes draina
Remarks: Depression of this area HYDROLO Wetland H Primary Inc	Redox features in the ns (F8) if this location of a and likely causes pro	occurred ir longed sa	n a depressional landf turation during the rai	orm. Redony season	ox features	bils at this	s sample po	secor	Ild meet the criteria for Redox Ipan subsurface that minmizes draina Indary Indicators (2 or more require Indary Marks (B1) (Riverine)
Remarks: Depression of this area HYDROLO Wetland F Primary Inc. Surface	Redox features in the as (F8) if this location of a and likely causes pro	occurred ir longed sa	n a depressional landf turation during the rai ded; check all that app	orm. Reddiny season	ox features	bils at this	s sample po	Secor W	Ild meet the criteria for Redox Ilpan subsurface that minmizes draina Indary Indicators (2 or more require Index Marks (B1) (Riverine) Indicators (B2) (Riverine)
Remarks: Depression of this area HYDROLO Wetland H Primary Ind Surfac High V	Redox features in the ns (F8) if this location of a and likely causes pro hydrology Indicators dicators (minimum of the Water (A1)	occurred ir longed sa	n a depressional landf turation during the rai ed; check all that app Salt Crus Biotic Cr	orm. Reddiny season ly) st (B11) ust (B12)	ox features	bils at this	s sample po	Secor W	Indicators (2 or more require ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
Remarks: Depression of this area HYDROLO Wetland F Primary Ind Surfact High V Satura	Redox features in the ns (F8) if this location of a and likely causes pro hydrology Indicators (minimum of other Water (A1) Water Table (A2) action (A3)	cccurred ir longed sa : one requir	ed; check all that app Salt Crus Biotic Cr Aquatic I	ly) st (B11) ust (B12) nvertebrat	ox features h. tes (B13)	bils at this	s sample po	Secor W Secor Dr	Indicators (2 or more required atternment Deposits (B2) (Riverine) remaining Patterns (B1) (Riverine) remaining Patterns (B3) (Riverine) remaining Patterns (B1) (Riverine) remaining Patterns (B10)
Remarks: Depression of this area HYDROLO Wetland H Primary Ind Surface High V Satura Water	Redox features in the as (F8) if this location of a and likely causes pro OGY Hydrology Indicators dicators (minimum of other cause) Water Table (A2) ation (A3) Marks (B1) (Nonriver	cccurred ir longed sa : one requir	ed; check all that app Salt Crus Biotic Cr Aquatic I Hydroge	orm. Reddiny season ly) st (B11) ust (B12) nvertebrat n Sulfide (ex features tes (B13) Odor (C1)	may be p	s sample po present due	Secor W Secor Dr	Indicators (2 or more required attention of the position of th
Remarks: Depression of this area HYDROLO Wetland F Primary In Surface High V Satura Water Sedim	Redox features in the as (F8) if this location of a and likely causes pro and likely causes pro and likely causes pro adicators (minimum of ace Water (A1) Water Table (A2) action (A3) Marks (B1) (Nonriverment Deposits (B2) (No	cccurred ir longed sa : one requir rine)	ed; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized	orm. Reddiny season ly) st (B11) ust (B12) nvertebrat n Sulfide (Rhizosph	tes (B13) Odor (C1) neres along	may be p	s sample po present due	Secon W Se Di Di Tr	Independent the criteria for Redox dipan subsurface that minmizes drains and ary Indicators (2 or more require later Marks (B1) (Riverine) and the diment Deposits (B2) (Riverine) arinage Patterns (B10) arinage Patterns (B10) arin Muck Surface (C7)
Remarks: Depression of this area HYDROLO Wetland F Primary In Surfac High V Satura Water Sedim	Redox features in the as (F8) if this location of a and likely causes pro OGY Hydrology Indicators dicators (minimum of other cause) Water Table (A2) ation (A3) Marks (B1) (Nonriver	cccurred ir longed sa : one requir rine)	ed; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized	orm. Reddiny season ly) st (B11) ust (B12) nvertebrat n Sulfide (Rhizosph	ex features tes (B13) Odor (C1)	may be p	s sample po present due	Secon W Se Di Di Tr	Indicators (2 or more required attention (B1) (Riverine) and and Indicators (2 or more required attention (B2) (Riverine) and Indicators (B2) (Riverine) and Indicators (B3) (Riverine) and Indicators (B3) (Riverine) and Indicators (B4) (Riverine) an
Remarks: Depression of this area HYDROLO Wetland F Primary Inc Surfac High V Satura Water Sedim Drift D Surfac	Redox features in the as (F8) if this location of a and likely causes pro and likely causes (Marks (M	cccurred ir longed sa : one requir rine) erine)	ed; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent Ii	ly) st (B11) ust (B12) nvertebrat n Sulfide (Rhizosph	tes (B13) Odor (C1) neres along	may be p Living Ro	s sample po present due	Secor W Se Dr Dr Tr	and meet the criteria for Redox dipan subsurface that minmizes drains and ary Indicators (2 or more require ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) hin Muck Surface (C7) rayfish Burrows (C8)
Remarks: Depression of this area HYDROLO Wetland F Primary Inc Surfac High V Satura Water Sedim Drift D Surfac	Redox features in the as (F8) if this location of a and likely causes pro and likely causes pro and likely causes pro and likely causes pro dicators (minimum of a ce Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonriver and Deposits (B2) (No proposits (B3) (Nonriver)	cccurred ir longed sa : one requir rine) erine)	ed; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent Ii	ly) st (B11) ust (B12) nvertebrat n Sulfide (Rhizosph	tes (B13) Odor (C1) neres along ced Iron (C4 ction in Tille	may be p Living Ro	s sample po present due	Secon W Se Di Di Ci Si	and meet the criteria for Redox dipan subsurface that minmizes drains and ary Indicators (2 or more require ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) hin Muck Surface (C7) rayfish Burrows (C8)
Remarks: Depression of this area HYDROLO Wetland H Primary Ind Surfact High V Satura Water Sedim Drift D Surfact Inunda	Redox features in the as (F8) if this location of a and likely causes pro and likely causes (Marks (M	cccurred ir longed sa : one requir rine) erine)	ed; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent II B7) Thin Muc	ly) st (B11) ust (B12) nvertebrat n Sulfide (Rhizosph e of Reductor	tes (B13) Odor (C1) heres along ced Iron (C4 tion in Tille	may be p Living Ro	s sample po present due	Secon W Se Dri Dri Cri Sa Sr	and meet the criteria for Redox dipan subsurface that minmizes drains and ary Indicators (2 or more require ater Marks (B1) (Riverine) additional dipant Deposits (B2) (Riverine) arinage Patterns (B10) arinage Patterns (B10) ary-Season Water Table (C2) and Muck Surface (C7) aryfish Burrows (C8) aturation Visible on Aerial Imagery (Cartina subsurface)
Remarks: Depression of this area HYDROLO Wetland H Primary Ind Surfact High V Satura Water Sedim Drift D Surfact Inunda	Redox features in the as (F8) if this location of and likely causes properties of the properties of the control	cccurred ir longed sa : one requir rine) erine)	ed; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent II B7) Thin Muc	ly) st (B11) ust (B12) nvertebrat n Sulfide (Rhizosph e of Reduct ron Reduct ck Surface	tes (B13) Odor (C1) heres along ced Iron (C4 tion in Tille	may be p Living Ro	s sample po present due	Secon W Se Dri Dri Cri Sa Sr	and meet the criteria for Redox dipan subsurface that minmizes drains and ary Indicators (2 or more require ater Marks (B1) (Riverine) addiment Deposits (B2) (Riverine) addiment Deposits (B3) (Riverine) addiment Deposits (B10) addiment Deposits (B10) addiment Deposits (B10) addiment Deposits (B2) (Riverine) addiment Deposits (Rive
Remarks: Depression of this area HYDROLO Wetland F Primary Inc Surfac High V Satura Water Sedim Drift D Surfac Inunda Water Field Obse	Redox features in the as (F8) if this location of a and likely causes pro and likely causes (Manipulation (A3) and	cccurred ir longed sa : one requir rine) erine)	ed; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent II B7) Thin Muc	ly) st (B11) ust (B12) nvertebrat n Sulfide (Rhizosph e of Reduc ron Reduc ck Surface	tes (B13) Odor (C1) heres along ced Iron (C4 tion in Tille	may be p Living Ro	s sample po present due	Secon W Se Dri Dri Cri Sa Sr	and meet the criteria for Redox dipan subsurface that minmizes drainal andary Indicators (2 or more require ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) arinage Patterns (B10) ary-Season Water Table (C2) and Muck Surface (C7) aryfish Burrows (C8) aturation Visible on Aerial Imagery (Canallow Aquitard (D3)
Remarks: Depression of this area HYDROLO Wetland F Primary Inc Surfac High V Satura Water Sedim Drift D Surfac Inunda Water Field Obse	Redox features in the as (F8) if this location of a and likely causes pro and likely causes (Manimum of a ce Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonriver the Deposits (B2) (No Deposits (B3) (Nonriver the Soil Cracks (B6) ation Visible on Aerial -Stained Leaves (B9) Pervations: ater Present?	cocurred ir longed sa : one requir rine) priverine erine) Imagery (I	ed; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent II B7) Thin Muc	ly) st (B11) ust (B12) nvertebrar n Sulfide (Rhizosph e of Reduc ron Reduc ck Surface xplain in R	tes (B13) Odor (C1) heres along ced Iron (C4 tion in Tille	may be p Living Ro	s sample po present due	Secon W Se Dri Dri Cri Sa Sr	Indicators (2 or more require ater Marks (B1) (Riverine) rediment Deposits (B2) (Riverine) reinage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Canallow Aquitard (D3)
Remarks: Depression of this area HYDROLO Wetland F Primary Ind Surface High V Satura Water Sedim Drift D Surface Inunda Water- Field Obse Surface Water Table Saturation I	Redox features in the ns (F8) if this location of a and likely causes pro dicators (minimum of a ce Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonriver the proposits (B3) (Nonriver the proposits (B3) (Nonriver the proposits (B3) (Nonriver the proposits (B3)) Pervation Servations: ater Present?	coccurred ir longed sar cone requir crine) crine) crine) lmagery (I	ed; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent II B7) Thin Muc Other (E	ly) st (B11) ust (B12) nvertebrar n Sulfide (Rhizosph e of Reduct ron Reduct ck Surface xplain in R	tes (B13) Odor (C1) heres along ced Iron (C4 tion in Tille	Living Ro	s sample po present due	Secon W Secon Dr. Cr. Sa Sr. F.	Indicators (2 or more required attention and ary Indicators (2 or more required attention attention and ary Indicators (2 or more required attention attenti
Remarks: Depression of this area HYDROLO Wetland F Primary Ind Surface High V Satura Water Sedim Drift D Surface Inunda Water- Field Obse Surface Water Table Saturation I (includes ca	Redox features in the ns (F8) if this location of a and likely causes pro and likely causes (Marks (M	coccurred ir longed sar cone requir rine) priverine rine) Imagery (I	ed; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent II B7) Thin Muc Other (E	orm. Redony season ly) st (B11) ust (B12) nvertebrat n Sulfide (Rhizosph e of Reduct ck Surface xxplain in Reduct ches): ches):	tes (B13) Odor (C1) neres along ced Iron (C4 ction in Tille e (C7) Remarks)	Living Read (Control of the Control	cots (C3)	Secon W Secon Dr. Cr. Sa Sr. F.	and meet the criteria for Redox dipan subsurface that minmizes drains and ary Indicators (2 or more require ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) arinage Patterns (B10) ary-Season Water Table (C2) anin Muck Surface (C7) aryfish Burrows (C8) aturation Visible on Aerial Imagery (Canallow Aquitard (D3) AC-Neutral Test (D5)
Remarks: Depression of this area HYDROLO Wetland F Primary Ind Surface High V Satura Water Sedim Drift D Surface Inunda Water- Field Obse Surface Water Table Saturation I (includes ca Describe Re	Redox features in the as (F8) if this location of a and likely causes properties of the properties of the control of the contr	coccurred ir longed sar cone requirer rine) porriverine erine) Imagery (I	ed; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent II B7) Thin Muc Other (E No X Depth (inc	orm. Redony season ly) st (B11) ust (B12) nvertebrat n Sulfide (Rhizosph e of Reduct ck Surface xxplain in Reduct ches): ches):	tes (B13) Odor (C1) neres along ced Iron (C4 ction in Tille e (C7) Remarks)	Living Read (Control of the Control	cots (C3)	Secon W Secon Dr. Cr. Sa Sr. F.	and meet the criteria for Redox Indary Indicators (2 or more require ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Ca) allow Aquitard (D3) AC-Neutral Test (D5)
Remarks: Depression of this area HYDROLO Wetland F Primary Ind Surface High V Satura Water Sedim Drift D Surface Inunda Water- Field Obse Surface Water Table Saturation I (includes ca Describe Re	Redox features in the ins (F8) if this location of a and likely causes properties of the ins (F8) if this location of a and likely causes properties of the ins (F8) if this location of the instance of the i	coccurred ir longed sar cone requirer rine) porriverine erine) Imagery (I	ed; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent II B7) Thin Muc Other (E No X Depth (inc	orm. Redony season ly) st (B11) ust (B12) nvertebrat n Sulfide (Rhizosph e of Reduct ck Surface xxplain in Reduct ches): ches):	tes (B13) Odor (C1) neres along ced Iron (C4 ction in Tille e (C7) Remarks)	Living Read (Control of the Control	cots (C3)	Secon W Secon Dr. Cr. Sa Sr. F.	and meet the criteria for Redox Indary Indicators (2 or more require ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Ca) allow Aquitard (D3) AC-Neutral Test (D5)
Remarks: Depression of this area HYDROLO Wetland F Primary Ind Surface High V Satura Water Sedim Drift D Surface Inunda Water- Field Obse Surface Wa Water Table Saturation I (includes ca Describe Re	Redox features in the as (F8) if this location of a and likely causes properties of the properties of	coccurred ir longed sar cone requirer rine) porriverine erine) Imagery (I	ed; check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent II B7) Thin Muc Other (E No X Depth (inc	orm. Redony season ly) st (B11) ust (B12) nvertebrat n Sulfide (Rhizosph e of Reduct ck Surface xxplain in Reduct ches): ches):	tes (B13) Odor (C1) neres along ced Iron (C4 ction in Tille e (C7) Remarks)	Living Read (Control of the Control	cots (C3)	Secon W Secon Dr. Cr. Sa Sr. F.	and meet the criteria for Redox dipan subsurface that minmizes drain and ary Indicators (2 or more requirater Marks (B1) (Riverine) atter Marks (B2) (Riverine) additional dipage (B2) (Riverine) arinage Patterns (B10) ary-Season Water Table (C2) and Muck Surface (C7) aryfish Burrows (C8) atturation Visible on Aerial Imagery (Ca) and Ac-Neutral Test (D5)

Project/Site: San Diego Fire-Rescue Air Operations Ha	ngar	City/County	: San Dieg	o / San Diego	Sampling Date: July 17, 2019	
Applicant/Owner: City of San Diego				State: CA	Sampling Point: WDP 3	
Investigator(s): Andrew Smisek, Karyl Field		Section, T	ownship, R	ange: See Remarks		
Landform (hillslope, terrace, etc.):		Local relie	f (concave,	convex, none): concave	Slope (%): <u>0-2</u>	
Subregion (LRR): LRR-C	Lat: -	117.13479181	1	Long: 32.8181685063	Datum: NAD83	
Soil Map Unit Name: Redding gravelly loam (RdC), 2 to	o 9 percent s	slopes		NWI classificatio	n: Palustrine Emergent Wetland	d
Are climatic / hydrologic conditions on the site typical for	r this time of	year? Yes _	x No	(If no, explain in	Remarks.)	
Are Vegetation X, Soil , or Hydrology	signific	cantly disturbed	d? No /	Are "Normal Circumstances	s" present? Yes x No	
Are Vegetation, Soil, or Hydrology	natura	lly problemation	? No ((If needed, explain any ans	wers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map sh	nowing sar	mpling point	locations	s, transects, important	features, etc.	
Hydrophytic Vegetation Present? Yes X	No	la tha	Commissi	A		
Hydric Soil Present? Yes x	No		Sampled on a Wetland	Y 29Y	(No	
Wetland Hydrology Present? Yesx	No	_	Ta Wellan	4.		
Remarks: Sample point occurs in a known vernal pool Section, Touwnship, Range: unsectioned portion of the Known presence of San Diego Fairy Shrimp VEGETATION – Use scientific names of plants	e Mission Sa		ant on the I	_a Mesa and La Jolla quad	drangles.	
	Absolute	Dominant	Indicator	Dominance Test works	sheet:	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Sp		
1. <u>None</u> 2.				That Are OBL, FACW, o		
3.				Total Number of Domina Species Across All Strata		
4.				Percent of Dominant Spe	(D)	
·	-	= Total Cover		That Are OBL, FACW, o	or FAC: 100 (A/B))
Sapling/Shrub Stratum (Plot size:)						
1. None				Prevalence Index work	sheet:	
2.				Total % Cover of:	Multiply by:	
3.				OBL species	x 1 =	
4				FACW species	x 2 =	
5				FAC species	x 3 =	
		= Total Cover		FACU species	x 4 =	
Herb Stratum (Plot size:)	40	V	E4014/	UPL species	x 5 =(P)	
Psilocarphus brevissimus Psilocarphus faceiguleta	40		FACW	Column Totals:	(A)(B)	
Deinandra fasciculata Holicarpha virgata	<u>5</u>	N	FACU UPL	Prevalence Index	x = B/A =	
4.			OI L	Hydrophytic Vegetation	n Indicators:	
				X Dominance Test is		
				Prevalence Index		
7					aptations ¹ (Provide supporting	
8.					ks or on a separate sheet)	
	46	= Total Cove	r	Problematic Hydro	ophytic Vegetation ¹ (Explain)	
Woody Vine Stratum (Plot size:)						
1. None					l and wetland hydrology must	
2.				be present, unless distu	urbed or problematic.	
		= Total Cover		Hydrophytic		
% Bare Ground in Herb Stratum % Co	ver of Biotic	Cruet 7	0	Vegetation Present?	es X No	
		Olubi /		r resent: Ye	esX No	
Remarks: Vegetation has been recently mowed (possit Vernal pool indicator specicies present.	oly today).					
September of the septem						

SOIL Sampling Point: WDP 3

Profile Descr	iption: (Describe to	the depth	needed to docum	ent the inc	dicator or o	confirm	the absence	of indicators.)
Depth	Matrix			edox Featu			<u> </u>	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	e Remarks
0-5	7.5 YR 3/2	80	5YR 4/6	20	C	M	sandy loan	<u>n</u>
5-7	2.5YR 3/6	100					clay	
	_							
-							_	
¹ Type: C=Con	centration, D=Depletion	, RM=Reduc	ed Matrix, CS=Covere	d or Coated	Sand Grains).	² Location: PL=P	Pore Lining, RC=Root Channel, M=Matrix.
Hydric Soil	Indicators: (Applica	ible to all L	RRs, unless other	wise note	d.)		Indicator	rs for Problematic Hydric Soils ³ :
Histosol				Redox (S5)				Muck (A9) (LRR C)
	pipedon (A2)			d Matrix (Se				Muck (A10) (LRR B)
Black His	· ·			Mucky Mine	, ,			uced Vertic (F18)
	n Sulfide (A4)	•\		Gleyed Mat d Matrix (F				Parent Material (TF2)
	l Layers (A5) (LRR C ck (A9) (LRR D)	•)		o Mailix (F. Dark Surfac	,		Othe	r (Explain in Remarks)
	Below Dark Surface	e (A11)		d Dark Sur	` ,			
	ark Surface (A12)	(,	x Redox [³ Indicator	rs of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)			Pools (F9)	` '			nd hydrology must be present,
Sandy G	leyed Matrix (S4)						unles	s disturbed or problematic.
Restrictive L	ayer (if present):							
Type:								
Depth (inch	nes):		<u></u>				Hydric Soil F	Present? Yes x No No
Remarks: re	dox features obvious	and obser	ved throughout 0-5 i	nch laver	Only dua 7	inches o	due to vernal r	pool sensitivity
				,	,			
HYDROLOG	·V							
	drology Indicators:						S	econdary Indicators (2 or more required)
•	cators (minimum of o	ne required	l: check all that ann	v)			<u></u>	Water Marks (B1) (Riverine)
	Water (A1)	no roquiroc	Salt Crus					Sediment Deposits (B2) (Riverine)
	iter Table (A2)		x Biotic Cr				_	Drift Deposits (B3) (Riverine)
Saturation	` ,		x Aquatic I	` '	es (B13)		_	Drainage Patterns (B10)
	arks (B1) (Nonriveri	ne)		n Sulfide O	. ,		_	Dry-Season Water Table (C2)
	nt Deposits (B2) (No			Rhizosphe		l ivina Ro	oots (C3)	Thin Muck Surface (C7)
	oosits (B3) (Nonriver			of Reduce	•	-		Crayfish Burrows (C8)
	Soil Cracks (B6)	,		on Reducti	,			Saturation Visible on Aerial Imagery (C9)
	on Visible on Aerial I	magery (B7		k Surface		`	, <u> </u>	Shallow Aquitard (D3)
	tained Leaves (B9)	337	<i>'</i> —	kplain in Re	. ,		_	FAC-Neutral Test (D5)
Field Observ	vations:		`					_
Surface Water		es	No x Depth (inc	hes)·				
Water Table			No x Depth (inc			_		
Saturation Pr			No x Depth (inc			Wetl	and Hydrolog	gy Present? Yes x No
(includes cap			Tto <u>x</u> Boptii (iiio					<u> </u>
Describe Reco	orded Data (stream g	auge, mon	toring well, aerial pl	notos, previ	ious inspec	ctions), if	available:	
Remarks: Ala	al crusts consitent th	roughout	Known presence of	San Diego	fairy shrim	ın		
Nomano. Alg	ar crasts consiterit tri	rougilout.	Wildwin presence of	Can Diego	iany Simin	ip .		

Project/Site: San Diego Fire-Rescue Air Operations Ha	angar	City/Coun	ty: San Dieg	o / San Diego	_Sampling Date:	Nov 1, 2019
Applicant/Owner: City of San Diego				State: CA	_Sampling Point:	UDP 4
Investigator(s): Andrew Smisek		Section,	Township, R	lange: See Remarks		
Landform (hillslope, terrace, etc.): upland		Local rel	ief (concave,	convex, none): none	Slop	oe (%): 0-2
Subregion (LRR): LRR-C	Lat: -	-117.1354690	55	Long: 32.8180743603	Datur	n: NAD83
Soil Map Unit Name: Redding gravelly loam (RdC), 2 to	o 9 percent	slopes		NWI classification	on: Paulstrine Em	nergent Wetland
Are climatic / hydrologic conditions on the site typical fo	r this time of	year? Yes	x No	o(If no, explain in	Remarks.)	
Are Vegetation X, Soil , or Hydrology	signifi	cantly disturb	ed? No	Are "Normal Circumstance	es" present? Yes	xNo
Are Vegetation, Soil, or Hydrology	natura	ally problemat	ic? No	(If needed, explain any ans	swers in Remarks	s.)
SUMMARY OF FINDINGS – Attach site map si	nowing sa	mpling poir	nt location	s, transects, importan	t features, etc.	
Hydrophytic Vegetation Present? Yes	No X					
Hydric Soil Present? Yes	No X		ne Sampled nin a Wetlan	Yes	No X	
Wetland Hydrology Present? Yes	No X		iii a vvetiaii	u:		
Remarks: Paired point to WDP4 occurring in upload just outside Section, Touwnship, Range: unsectioned portion of the VEGETATION – Use scientific names of plant:	e Mission Sa		grant on the	La Mesa and La Jolla qua	idrangles	
	Absolute	Dominant	Indicator	Dominance Test work	sheet:	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Sp		
1				That Are OBL, FACW, o		0 (A)
3				Total Number of Domina Species Across All Strat		2 (B)
4.				Percent of Dominant Sp		(D)
Sapling/Shrub Stratum (Plot size:)		= Total Cove	er	That Are OBL, FACW, o	or FAC:	0 (A/B)
1.				Prevalence Index worl	ksheet:	
2.				Total % Cover of:	Multip	olv bv:
3.				OBL species	x 1 =	
4.				FACW species	x 2 =	
5.				FAC species	x 3 =	
		= Total Cove	er	FACU species	x 4 =	
Herb Stratum (Plot size:)				UPL species	x 5 =	
1. Erodium sp.	50	Yes	FACU	Column Totals:	(A)	(B)
2. Bromus madritensis	20	Yes	FACU	Prevalence Inde	x = B/A =	
3. Deinandra fasciculata	5	No	FACU		<u> </u>	
4. Croton setiger	5	No	NI	Hydrophytic Vegetation		
5.				Dominance Test		
6.				Prevalence Index		
7. 8.				Morphological Ad data in Remar	ks or on a separa	
	80	= Total Cov	er	Problematic Hydr	ophytic Vegetatio	n¹ (Explain)
Woody Vine Stratum (Plot size:)						
1. 2.				¹ Indicators of hydric so be present, unless dist	il and wetland hydurbed or problem	drology must atic.
		= Total Cove	er	Hydrophytic Vegetation		
	over of Biotic	Crust			esNo	DX
Remarks: Vegetation has been recently mowed						

SOIL Sampling Point: <u>UDP 4</u>

Depth	Matri	-	needed to docum Re	edox Featu					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textu	re	Remarks
0-8	5YR 3/3	70	2.5YR 3/6	5	С	М	sandy cla	ny	much gravel throughout
-				•	· —— -				
	_								
					· -				
	_	<u> </u>							
		<u> </u>			·		_		
¹ Type: C=Co	oncentration, D=Deple	tion, RM=Reduc	ed Matrix, CS=Covere	d or Coated	Sand Grains		Location: PL=	=Pore Li	ining, RC=Root Channel, M=Matrix.
Hydric So	il Indicators: (App	licable to all L	RRs, unless other	wise note	ed.)		Indicate	ors for	Problematic Hydric Soils ³ :
Histoso			Sandy F	Redox (S5))		1 c	m Muc	k (A9) (LRR C)
Histic E	Epipedon (A2)			d Matrix (S	•		2 ci	m Muc	k (A10) (LRR B)
Black I	Histic (A3)		Loamy	Mucky Min	eral (F1)		Red	duced \	Vertic (F18)
Hydrog	gen Sulfide (A4)		Loamy	Gleyed Ma	trix (F2)		Red	d Parer	nt Material (TF2)
	ed Layers (A5) (LR I	R C)		d Matrix (F	•		Oth	er (Exp	plain in Remarks)
	Muck (A9) (LRR D)			Dark Surfa	, ,				
	ed Below Dark Surf	ace (A11)		d Dark Su	` '				
	Dark Surface (A12)			Depression	ns (F8)				nydrophytic vegetation and
	Mucky Mineral (S1) Gleyed Matrix (S4)		Vernal I	Pools (F9)					drology must be present, aurbed or problematic.
	Layer (if present)								and or production
	ard rock/compacted								
Depth (in							Hydric Soi	l Prese	ent? Yes No X
HYDROLO)GY								
	lydrology Indicato	rs.						Secon	dary Indicators (2 or more required
			d; check all that app	lv)					ater Marks (B1) (Riverine)
	e Water (A1)	51 0110 10 quii 0 c	Salt Crus	•					diment Deposits (B2) (Riverine)
	Vater Table (A2)		Biotic Cr	` ,			-		ft Deposits (B3) (Riverine)
	tion (A3)			nvertebrat	ac (B13)		-		ainage Patterns (B10)
	Marks (B1) (Nonri v	(orino)		n Sulfide C	. ,		-		y-Season Water Table (C2)
	ent Deposits (B2) (I	,			eres along L	ivina Da	- 		in Muck Surface (C7)
					•	•	0015 (C3)		ayfish Burrows (C8)
	eposits (B3) (Nonri	verifie)			ed Iron (C4)		·e\		• ,
	e Soil Cracks (B6)	al las a sam : /D3			tion in Tilled	Solis (C	,o) _		turation Visible on Aerial Imagery (CS
	ation Visible on Aeri -Stained Leaves (B		<i>'</i> —	ck Surface xplain in R	` '		-		allow Aquitard (D3) C-Neutral Test (D5)
Field Obse	rvations:		<u> </u>	•			-		
	ater Present?	Yes	No X Depth (inc	hes).					
Water Table			No X Depth (inc			-			
Saturation F			No X Depth (inc			- Wetl	and Hydrol	oav Pr	esent? Yes No X
	apillary fringe)	103	TVO X Deptir (inc			-	ana myaron	ogyii	103NOX
`	· · · · · · · · · · · · · · · · · · ·	m gauge, mon	itoring well, aerial pl	notos, prev	ious inspec	tions), if	available:		
Remarks: N	lo hydrology indicate	ors observed							

Project/Site: San Diego Fire-Rescue Air Operations Ha	ngar	City/County	: San Dieg	o / San Diego	Samp	ling Date:	Nov 1,	2019
Applicant/Owner: City of San Diego				State: CA	Samp	ling Point:	WDP 4	1
Investigator(s): Andrew Smisek		Section, To	ownship, R	ange: See Remarks				
Landform (hillslope, terrace, etc.):		Local relie	f (concave,	convex, none): conca	ve	Slop	oe (%):	0-2
Subregion (LRR): LRR-C		117.13542924 ²	1	Long: 32.818045862	22	Datu	m: <u>NAD</u> 8	33
Soil Map Unit Name: Redding gravelly loam (RdC), 2 to	o 9 percent :	slopes		NWI classific	cation: Par	ulstrine Er	nergent	Wetland
Are climatic / hydrologic conditions on the site typical for	r this time of	year? Yes _	x No	(If no, explai	n in Rema	rks.)		
Are Vegetation X, Soil , or Hydrology	signifi	cantly disturbed	d? No	Are "Normal Circumsta	nces" pres	sent? Yes	Х	No
Are Vegetation , Soil , or Hydrology				(If needed, explain any				
SUMMARY OF FINDINGS – Attach site map sh	nowing sa	mpling point	location	s, transects, impor	tant featu	ıres, etc		
Hydrophytic Vegetation Present? Yes X	No							
Hydric Soil Present? Yes X	No		Sampled a Wetlan	YAS	X	No		
Wetland Hydrology Present? Yes X	_No		i a vvetiani	и.				
Section, Touwnship, Range: unsectioned portion of the Known presence of San Diego Fairy Shrimp VEGETATION – Use scientific names of plants		n Diego landgr	ant on the	La Mesa and La Jolla	quadrangle	es		
T. O (D	Absolute		Indicator	Dominance Test w	orksheet:			
Tree Stratum (Plot size:) 1.	% Cover	Species?	Status	Number of Dominan				(4)
2.				That Are OBL, FAC		·	1	(A)
3.				Total Number of Dor Species Across All S			2	(B)
4.				Percent of Dominan				(D)
		= Total Cover		That Are OBL, FAC	N, or FAC:	: <u> </u>	50	(A/B)
Sapling/Shrub Stratum (Plot size:)								
1.				Prevalence Index v	orksheet	:		
2.				Total % Cover o	f:	Multip	oly by:	_
3.				OBL species	35	x 1 =	35	_
4				FACW species	5	x 2 =	10	_
5				FAC species		x 3 =		_
		= Total Cover		FACU species	5	x 4 =	20	_
Herb Stratum (Plot size:)	0.5		0.01	UPL species	15	x 5 =	75	
1. Lythrum hyssopifolia	35	Yes	OBL	Column Totals:	60	(A)	140	_(B)
Euphorbia maculata Deinandra fasciculata	<u>15</u>	Yes No	UPL FACU	Prevalence I	ndex = B/A	= 2.33		
Deinandra fasciculata Psilocarphus brevissimus	<u>5</u>	No No	FACW	Hydrophytic Veget	ation India	catore:		
			TACW	Dominance To				
6				X Prevalence In				
7.				Morphological data in Rer	Adaptatio	ns¹ (Provi		•
o	60	= Total Cover		Problematic H		•		•
Woody Vine Stratum (Plot size:)					, , ,	J	\ \ \	,
1				¹ Indicators of hydric	soil and v	vetland hy	drology	must
2.				be present, unless	disturbed o	or problem	atic.	
		= Total Cover		Hydrophytic				
% Bare Ground in Herb Stratum % Co	ver of Biotic	Crust		Vegetation Present?	Yes >	(N	0	
Remarks: Vegetation has been recently mowed (possit	oly today).							
Vernal pool indicator specicies present.	,							

SOIL Sampling Point: WDP 4

(inches) 0-6	Matr			edox Featur					
0-6	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Text	ure	Remarks
	5YR 3/3	85	5YR 4/6	15	C	М	sandy cl loam	lay 	
Type: C=Coi	ncentration, D=Deple	etion, RM=Redu	 uced Matrix, CS=Covere	ed or Coated S	 Sand Grains.	² L	ocation: PL	Pore Lining, R	RC=Root Channel, M=Matrix
			LRRs, unless othe						lematic Hydric Soils ³ :
Histosol	l (A1)		Sandy	Redox (S5)			1 (cm Muck (A9)	(LRR C)
Histic E	pipedon (A2)			d Matrix (S6)		2 (cm Muck (A10) (LRR B)
Black H	listic (A3)		Loamy	Mucky Mine	eral (F1)		Re	educed Vertic	(F18)
Hydroge	en Sulfide (A4)		Loamy	Gleyed Mat	rix (F2)		Re	ed Parent Mat	erial (TF2)
	d Layers (A5) (LR			ed Matrix (F3	•		Ot	ther (Explain in	n Remarks)
	uck (A9) (LRR D)			Dark Surfac	, ,				
	ed Below Dark Sur	, ,		ed Dark Surf	` ,		•		
	ark Surface (A12)			Depressions	s (F8)				hytic vegetation and
	Mucky Mineral (S1 Gleyed Matrix (S4	,	Vernal	Pools (F9)					gy must be present, or problematic.
estrictive	Layer (if present)):							
Type:		•							
Depth (inc	ches):						Hydric Sc	oil Present?	Yes X No
YDROLOG	GV								
	ydrology Indicato	ore:						Socondary	ndicators (2 or more re
_			ed; check all that app	alva)					arks (B1) (Riverine)
		or one require							
	e Water (A1)		Salt Cru	, ,					t Deposits (B2) (Riverin
	ater Table (A2)		X Biotic Cı	, ,	- (D40)				osits (B3) (Riverine)
Saturati	ion (A3)			Invertebrate					Patterns (B10)
	Marks (B1) (Nonri	•		n Sulfide O			. (00)		son Water Table (C2)
Water N				d Rhizosphe	res along L		nts ((;; X)	I hin Mud	ck Surface (C7)
Water N Sedime	. , ,	(Nonriverine)	· 	•	•	-	10 (00)		D (00)
Water N Sedime Drift De	eposits (B3) (Nonr	iverine)	Presenc	e of Reduce	d Iron (C4)	-	` '		Burrows (C8)
Water M Sedime Drift De Surface	eposits (B3) (Nonr e Soil Cracks (B6)	iverine)	Presenc	e of Reduce ron Reducti	d Iron (C4) on in Tilled	-	` '	Saturation	n Visible on Aerial Imag
Water M Sedime Drift De Surface Inundat	eposits (B3) (Nonr	iverine) ial Imagery (E	Presence Recent I Thin Mu	e of Reduce	ed Iron (C4) on in Tilled C7)	-	` '	Saturation Shallow	, ,
Water M Sedime Drift De Surface Inundat Water-S	eposits (B3) (Nonr e Soil Cracks (B6) tion Visible on Aer Stained Leaves (B	iverine) ial Imagery (E	Presence Recent I Thin Mu	e of Reduce ron Reduction ck Surface (ed Iron (C4) on in Tilled C7)	-	` '	Saturation Shallow	on Visible on Aerial Imag Aquitard (D3)
Water M Sedime Drift De Surface Inundat Water-S	eposits (B3) (Nonr e Soil Cracks (B6) tion Visible on Aer Stained Leaves (B	iverine) ial Imagery (E	Presence Recent I Thin Mu	e of Reduce ron Reducti ck Surface (xplain in Re	ed Iron (C4) on in Tilled C7)	-	` '	Saturation Shallow	on Visible on Aerial Imag Aquitard (D3)
Water M Sedime Drift De Surface Inundat Water-S Gield Obser	eposits (B3) (Nonrese Soil Cracks (B6) tion Visible on Aer Stained Leaves (Brvations: ter Present?	iverine) ial Imagery (E	Presence Recent I Thin Mu Other (E	e of Reduce ron Reduction ck Surface (explain in Resches):	ed Iron (C4) on in Tilled C7)	-	` '	Saturation Shallow	on Visible on Aerial Imag Aquitard (D3)
Water M Sedime Drift De Surface Inundat Water-S Geld Obser Surface Water Table Saturation P	eposits (B3) (Nonrese Soil Cracks (B6) tion Visible on Aer Stained Leaves (Bryations: ter Present?	iverine) ial Imagery (E	Presence Recent I Thin Mu Other (E	e of Reduce ron Reducti ck Surface (explain in Re ches):	ed Iron (C4) on in Tilled C7)	Soils (C6	;)	Saturation Shallow	on Visible on Aerial Imag Aquitard (D3) utral Test (D5)
Water M Sedime Drift De Surface Inundat Water-S Field Obser Surface Wat Vater Table Saturation P Includes cap	eposits (B3) (Nonrese Soil Cracks (B6) tion Visible on Aer Stained Leaves (Bryations: ter Present? Present? Present? Present?	iverine) ial Imagery (E 9) Yes Yes Yes Yes	Presence Recent I Thin Mu Other (E No Depth (inc	e of Reduce ron Reducti ck Surface (explain in Re ches): ches):	d Iron (C4) on in Tilled C7) marks)	Soils (C6	nd Hydro	Saturation Shallow FAC-Neu	on Visible on Aerial Imag Aquitard (D3) utral Test (D5)
Water M Sedime Drift De Surface Inundat Water-S Field Obser Surface Wat Vater Table Saturation P Includes cap	eposits (B3) (Nonrese Soil Cracks (B6) tion Visible on Aer Stained Leaves (Bryations: ter Present? Present? Present? Present?	iverine) ial Imagery (E 9) Yes Yes Yes Yes	Presence Recent I Recent I Recent I Recent I Ro Depth (inc	e of Reduce ron Reducti ck Surface (explain in Re ches): ches):	d Iron (C4) on in Tilled C7) marks)	Soils (C6	nd Hydro	Saturation Shallow FAC-Neu	on Visible on Aerial Imag Aquitard (D3) utral Test (D5)
Water M Sedime Drift De Surface Inundat Water-S Geld Obser Surface Water Table Saturation P includes cap escribe Rec	eposits (B3) (Nonrese Soil Cracks (B6) tion Visible on Aer Stained Leaves (Bervations: ter Present? Present? Present? pillary fringe) corded Data (streated Soil Crack (Streated Soil Control	iverine) ial Imagery (E 9) Yes Yes Yes Yes m gauge, mo	Presence Recent I Recent I Recent I Ro Depth (inc No Depth (inc No Depth (inc	e of Reduce ron Reductick Surface (explain in Reduction in Red	d Iron (C4) on in Tilled C7) marks)	Soils (C6	nd Hydro	Saturation Shallow FAC-Neu	on Visible on Aerial Imag Aquitard (D3) utral Test (D5)

Project/Site: San Diego Fire-Rescue Air Operations Ha	angar	City/Count	ty: San Dieg	o / San Diego	Sampling Date: Nov	1, 2019
Applicant/Owner: City of San Diego				State: CA	Sampling Point: UDP	95
Investigator(s): Andrew Smisek		Section,	Township, R	lange: See Remarks		
Landform (hillslope, terrace, etc.): upland		Local reli	ef (concave,	, convex, none): none	Slope (%)	: 0-2
Subregion (LRR): LRR-C	Lat: -	117.1347415	89	Long: 32.8182598933	Datum: NA	D83
Soil Map Unit Name: Redding gravelly loam (RdC), 2 to	to 9 percent :	slopes		NWI classification	on: Paulstrine Emerge	nt Wetland
Are climatic / hydrologic conditions on the site typical for	or this time of	year? Yes	x No	o(If no, explain in	Remarks.)	
Are Vegetation X, Soil , or Hydrology	signifi	cantly disturb	ed? No	Are "Normal Circumstance	es" present? Yes x	No
Are Vegetation, Soil, or Hydrology	natura	ally problemat	ic? No	(If needed, explain any ans	swers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map si	howing sa	mpling poir	nt locations	s, transects, importan	t features, etc.	
Hydrophytic Vegetation Present? Yes	No X					
Hydric Soil Present? Yes	No X		e Sampled in a Wetlan	res	No X	
Wetland Hydrology Present? Yes	No X	_	iii a wellan	u:		
Remarks: Paired point to WDP5 occurring in upload just outside Section, Touwnship, Range: unsectioned portion of the VEGETATION – Use scientific names of plant	e Mission Sa		grant on the	La Mesa and La Jolla qua	drangles	
T. O. (D. ()	Absolute	Dominant	Indicator	Dominance Test work	sheet:	
Tree Stratum (Plot size:) 1.	% Cover	Species?	Status	Number of Dominant Sp		(4)
2.	· 			That Are OBL, FACW, of Total Number of Domina	-	(A)
3.	· 			Species Across All Strat		(B)
4.				Percent of Dominant Sp	pecies	``'
		= Total Cove	r	That Are OBL, FACW, o	or FAC: 0	(A/B)
Sapling/Shrub Stratum (Plot size:)						
1.				Prevalence Index work	ksheet:	
2				Total % Cover of:	Multiply by:	
3.				OBL species	x 1 =	
4				FACW species	x 2 =	
5				FAC species	x 3 =	
, , , , , , , , , , , , , , , , , , ,		= Total Cove	r	FACU species	x 4 =	
Herb Stratum (Plot size:)	20	V	FACIL	UPL species Column Totals:	x 5 =	
1. Erodium sp.	30	Yes	FACU	Column Totals:	(A)	(B)
Bromus madritensis Lythrum hyssopifolium	10	Yes No	FACU OBL	Prevalence Inde	ex = B/A =	
Deinandra fasciculata	5	No	FACU	Hydrophytic Vegetation	n Indicators:	
5			1 700	Dominance Test i		
6				Prevalence Index		
7					laptations¹ (Provide sur	porting
8.	· 				ks or on a separate she	
	75	= Total Cov	er	Problematic Hydr	ophytic Vegetation ¹ (Ex	xplain)
Woody Vine Stratum (Plot size:)					, , , , , , , , , , , , , , , , , , , ,	. ,
1.				¹ Indicators of hydric so	il and wetland hydrolog	gy must
2				be present, unless dist	urbed or problematic.	
		= Total Cove	r	Hydrophytic Vegetation		,
	over of Biotic	Crust		Present? Ye	esNo_X	
Remarks: Vegetation has been recently mowed						

SOIL Sampling Point: <u>UDP 5</u>

Depth	Matrix			edox Featu			_					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Text	ure		Rem	arks	
D-8	5YR 3/2	70 5	YR 4/6	20	C	М	sandy c	lay	gravel m	ixed in		
	- ·											
							_					
	.			· -								
Type: C=Co	 oncentration, D=Depletion	 , RM=Reduced	d Matrix, CS=Covere	ed or Coated	Sand Grains	. 2	Location: P	L=Pore L	ining, RC=	Root Chann	el, M=Matri	X.
	il Indicators: (Applica									natic Hydr		
Histoso	ol (A1)		Sandy I	Redox (S5)	•		1	cm Muc	k (A9) (Li	RR C)		
Histic F	Epipedon (A2)		Strippe	d Matrix (S	6)		2	cm Muc	k (A10) (L	RR B)		
Black I	Histic (A3)		Loamy	Mucky Min	eral (F1)		R	educed	Vertic (F1	8)		
Hydroç	gen Sulfide (A4)		Loamy	Gleyed Ma	trix (F2)		R	ed Pare	nt Materia	l (TF2)		
	ed Layers (A5) (LRR C	;)		ed Matrix (F	•		O	ther (Ex	plain in R	emarks)		
	/luck (A9) (LRR D)			Dark Surfa								
	ed Below Dark Surface	e (A11)		d Dark Su	` '		2					
	Dark Surface (A12)			Depression	ıs (F8)					ic vegetati		
	Mucky Mineral (S1) Gleyed Matrix (S4)		Vernal	Pools (F9)						nust be pre problemati		
estrictive	Layer (if present):											
Type: ha	ard rock/compact soil											
Depth (inc	ches): 8						Hydric So	oil Prese	ent?	Yes	No	Χ
eatures ma	ay be present due to ha		et the criteria for F Irface that minmiz									
	ay be present due to ha											
YDROLO	ay be present due to ha	ardpan subsu						s prolon	ged satura	ation during	g the rainy	seaso
YDROLO Wetland H	ay be present due to ha	ardpan subsu	ırface that minmiz	es drainag				s prolone Secor	ged satura	ation during	g the rainy	seaso
YDROLO Wetland H Primary Ind	OGY Nydrology Indicators: dicators (minimum of o	ardpan subsu	urface that minmiz	es drainag				Secor W	ged satura dary India ater Mark	ation durino cators (2 s (B1) (Riv	or more r	seaso
YDROLO Wetland H Primary Ind Surfac	OGY Hydrology Indicators: dicators (minimum of o	ardpan subsu	urface that minmiz	es drainag				Secor W Se	ged satura dary Indi ater Mark	cators (2 s (B1) (Riveposits (B2)	or more rerine) 2) (Riverine)	seaso
YDROLO Wetland H Primary Inc Surfac High W	OGY Nydrology Indicators: dicators (minimum of o	ardpan subsu	check all that app Salt Crus	ly) st (B11) ust (B12)	e of this are			Secor W Se	ndary Indi ater Marks diment D	icators (2 is (B1) (Riv eposits (B2 is (B3) (Riv	or more refree (Riverine) (Riverine)	seaso
YDROLO Wetland H Primary Inc Surfac High W Satura	OGY Hydrology Indicators: dicators (minimum of one Water (A1) Vater Table (A2) ution (A3)	ardpan subsu	check all that appSalt CrusBiotic CrAquatic I	ly) st (B11) ust (B12)	e of this are			Secor W Secor Dr	ndary Indi ater Marks diment D ift Depositainage Pa	cators (2 s (B1) (Riv eposits (B2 is (B3) (Riv atterns (B1	or more refine) (2) (Riverine) (0)	seaso
YDROLO Wetland H Primary Inc Surfac High W Satura Water	OGY Indicators: Idicators (minimum of one Water (A1) Vater Table (A2) Ition (A3) Marks (B1) (Nonriveri	ne required;	check all that app Salt Crus Biotic Cr Aquatic I Hydroge	ly) st (B11) ust (B12) lnvertebrate	es (B13)	a and lik	ely causes	Secor W Se Dr Dr	ndary Indi ater Markediment D ift Depositatinage Pa y-Season	cators (2 s (B1) (Riv eposits (B2 is (B3) (Riv atterns (B1 Water Tab	or more r erine) 2) (Riverine) 0) ole (C2)	seaso
YDROLO Wetland H Primary Ind Surfac High W Satura Water Sedim	OGY Industry Industry Industry Industry Industry Industry Indu	ne required; ine) nriverine)	check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized	ly) st (B11) ust (B12) Invertebrate n Sulfide C	es (B13) Idor (C1) Idores along I	and lik	ely causes	Secor W Se Dr Dr	ndary Indi ater Markediment D ift Depositainage Pa y-Season in Muck S	cators (2 s (B1) (Riv eposits (B2 ts (B3) (Riv tterns (B1 Water Tab Surface (C7	or more r erine) 2) (Riverine) 0) ole (C2)	seaso
YDROLO Wetland H Primary Inc Surfac High W Satura Water Sedim	OGY Hydrology Indicators: dicators (minimum of o e Water (A1) Vater Table (A2) tition (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Nor eposits (B3) (Nonriver	ne required; ine) nriverine)	check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence	ly) st (B11) ust (B12) invertebrate n Sulfide C I Rhizosphe e of Reduce	es (B13) dor (C1) eres along l ed Iron (C4	a and like	ely causes	Secor W Secor Dr Dr	ndary Indi ater Markediment D ift Depositainage Pa y-Season in Muck S ayfish Bul	cators (2 s (B1) (Riveposits (B2 ts (B3) (Riveposits (B4) Water Tak Surface (C7 Trows (C8)	or more rerine) 2) (Riverine) 0) ble (C2)	equire
YDROLO Wetland H Primary Inc Surfac High W Satura Water Sedim Drift Do	OGY Inducators: dicators (minimum of ore Water (A1) Vater Table (A2) Ation (A3) Marks (B1) (Nonrivering the More (B2) (Norrivering the Soil Cracks (B6)	ne required; (ne) (ne) (nine) (nine)	check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I	ly) st (B11) ust (B12) nvertebrate n Sulfide C I Rhizosphe e of Reductor	es (B13) dor (C1) eres along I ed Iron (C4 ion in Tilled	a and like	ely causes	Secor W Se Dr Dr Tr	dary Indi ater Marks diment D ift Depositainage Pa y-Season in Muck S ayfish Bul aturation V	icators (2 s (B1) (Riv eposits (B2 is (B3) (Riv atterns (B1) Water Tak Gurface (C7 rrows (C8)	or more rerine) 2) (Riverine) 0) ble (C2)	equire
YDROLO Wetland H Primary Inc Surfac High W Satura Water Sedim Drift Do Surfac Inunda	OGY Hydrology Indicators: dicators (minimum of o e Water (A1) Vater Table (A2) tition (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Nor eposits (B3) (Nonriver	ne required; (ne) (ne) (nine) (nine)	check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Mu	ly) st (B11) ust (B12) invertebrate n Sulfide C I Rhizosphe e of Reduce	es (B13) dor (C1) eres along I ed Iron (C4 ion in Tilled (C7)	a and like	ely causes	Secor W Secor Dr Dr Cr Sa	ndary Indi ater Marks diment D ift Depositainage Pa y-Season in Muck S ayfish Bui turation V	cators (2 s (B1) (Riveposits (B2 ts (B3) (Riveposits (B4) Water Tak Surface (C7 Trows (C8)	or more refree (Perine) (2) (Riverine) (3) (4) (5) (6) (7) (6) (7) (6)	equire
YDROLO Wetland H Primary Ind Surfac High W Satura Water Sedim Drift Do Surfac Inunda	OGY Alydrology Indicators: dicators (minimum of o e Water (A1) Vater Table (A2) ation (A3) Marks (B1) (Nonriveri ent Deposits (B2) (Nor eposits (B3) (Nonriver es Soil Cracks (B6) ation Visible on Aerial In -Stained Leaves (B9)	ne required; (ne) (ne) (nine) (nine)	check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Mu	ly) st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface	es (B13) dor (C1) eres along I ed Iron (C4 ion in Tilled (C7)	a and like	ely causes	Secor W Secor Dr Dr Cr Sa	ndary Indi ater Marks diment D ift Depositainage Pa y-Season in Muck S ayfish Bui turation V	cators (2 s (B1) (Riv eposits (B2 sts (B3) (Riv atterns (B1 Water Tat Surface (C7 rrows (C8) fisible on A	or more refree (Perine) (2) (Riverine) (3) (4) (5) (6) (7) (6) (7) (6)	equire
YDROLO Wetland H Primary Inc Surfac High W Satura Water Sedim Drift Do Surfac Inunda Water- Field Obse	OGY Inducators: dicators (minimum of ore Water (A1) Vater Table (A2) Indicators (B1) (Nonrivering ent Deposits (B2) (Norrivering ent Case (B6) Indicators (B3) (Nonrivering ent Case (B4) Indicators (B	ne required; ine) nriverine) rine) magery (B7)	check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Mu	ly) st (B11) ust (B12) invertebrate n Sulfide C l Rhizosphe e of Reduct ron Reduct ck Surface xplain in R	es (B13) dor (C1) eres along I ed Iron (C4 ion in Tilled (C7)	a and like	ely causes	Secor W Secor Dr Dr Cr Sa	ndary Indi ater Marks diment D ift Depositainage Pa y-Season in Muck S ayfish Bui turation V	cators (2 s (B1) (Riv eposits (B2 sts (B3) (Riv atterns (B1 Water Tat Surface (C7 rrows (C8) fisible on A	or more refree (Perine) (2) (Riverine) (3) (4) (5) (6) (7) (6) (7) (6)	equire
YDROLO Wetland H Primary Inc Surfac High W Satura Water Sedim Drift Dr Surfac Inunda Water- Field Obse	OGY Industry	ne required; ne) nriverine) rine) magery (B7)	check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc	ly) st (B11) ust (B12) invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in R	es (B13) dor (C1) eres along I ed Iron (C4 ion in Tilled (C7)	a and like	ely causes	Secor W Secor Dr Dr Cr Sa	ndary Indi ater Marks diment D ift Depositainage Pa y-Season in Muck S ayfish Bui turation V	cators (2 s (B1) (Riv eposits (B2 sts (B3) (Riv atterns (B1 Water Tat Surface (C7 rrows (C8) fisible on A	or more refree (Perine) (2) (Riverine) (3) (4) (5) (6) (7) (6) (7) (6)	equire
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YDROLO Wetland H Primary Inc Surfac High W Satura Water Sedim Drift Do Surfac Inunda Water- Field Obse Surface Water Table Saturation Fincludes ca	OGY Industry Industr	ne required; ine) magery (B7) es N es N	check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E	es drainag	es (B13) ador (C1) eres along I ed Iron (C4 ion in Tilled (C7) emarks)	Living Ro) Soils (C	ots (C3)	Secor W Secor Dr Dr Dr Cr Secor FA	adary Indi ater Markediment D ift Deposite ainage Pa y-Season in Muck S ayfish Bur in Muck S	icators (2 is (B1) (Riverse (B2)) (Riverse (B3) (Riverse (B4)) (Riverse (B4)) (Riverse (B4)) (Riverse (C8)) (Riverse (C8)) (Riverse (B4)) (Ri	or more rerine) 2) (Riverine) 0) ole (C2) 7) herial Imag	equire
YDROLO Wetland H Primary Inc Surfac High W Satura Water Sedim Drift Do Surfac Inunda Water- Field Obse Surface Wa Water Table Saturation F includes ca escribe Re	Present? Pogy Alydrology Indicators: dicators (minimum of ore Water (A1) Vater Table (A2) Marks (B1) (Nonriveriment Deposits (B2) (Norreposits (B3) (Nonriveriment Deposits (B6)) Action Visible on Aerial Instance (B9) Present? Present? Present? Present? Present? Accorded Data (stream general management of the position of t	ne required; ne required; ne) nriverine) magery (B7) es N es N auge, monito	check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E	es drainag	es (B13) ador (C1) eres along I ed Iron (C4 ion in Tilled (C7) emarks)	Living Ro) Soils (C	ots (C3)	Secor W Secor Dr Dr Dr Cr Secor FA	adary Indi ater Markediment D ift Deposite ainage Pa y-Season in Muck S ayfish Bur in Muck S	icators (2 is (B1) (Riverse (B2)) (Riverse (B3) (Riverse (B4)) (Riverse (B4)) (Riverse (B4)) (Riverse (C8)) (Riverse (C8)) (Riverse (B4)) (Ri	or more rerine) 2) (Riverine) 0) ole (C2) 7) herial Imag	equire equire (C
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YDROLO Wetland H Primary Inc Surfac High W Satura Water Sedim Drift Do Surfac Inunda Water- Field Obse Surface Wa Vater Table Saturation F includes calescribe Re	Present? Pogy Alydrology Indicators: dicators (minimum of ore Water (A1) Vater Table (A2) Marks (B1) (Nonriveriment Deposits (B2) (Norreposits (B3) (Nonriveriment Deposits (B6)) Action Visible on Aerial Instance (B9) Present? Present? Present? Present? Present? Accorded Data (stream general management of the position of t	ne required; ne required; ne) nriverine) magery (B7) es N es N auge, monito	check all that app Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E	es drainag	es (B13) ador (C1) eres along I ed Iron (C4 ion in Tilled (C7) emarks)	Living Ro) Soils (C	ots (C3)	Secor W Secor Dr Dr Dr Cr Secor FA	adary Indi ater Markediment D ift Deposite ainage Pa y-Season in Muck S ayfish Bur in Muck S	icators (2 is (B1) (Riverse (B2)) (Riverse (B3) (Riverse (B4)) (Riverse (B4)) (Riverse (B4)) (Riverse (C8)) (Riverse (C8)) (Riverse (B4)) (Ri	or more rerine) 2) (Riverine) 0) ole (C2) 7) herial Imag	equir equir

Project/Site: San Diego Fire-Rescue A	vir Operations Ha	ingar	City/Coun	ty: San Dieg	o / San Diego	San	npling Date	: Nov 1	, 2019
Applicant/Owner: City of San Diego					State:	CA San	npling Poin	t: WDP	5
Investigator(s): Andrew Smisek			Section,	Township, R	ange: See Remark	KS			
Landform (hillslope, terrace, etc.):			Local rel	ief (concave,	convex, none): cor	ncave	Slo	pe (%):	0-2
Subregion (LRR): LRR-C		Lat:	-117.1347084	83	Long: 32.818246	6026	Datu	ım: <u>NAD</u>	83
Soil Map Unit Name: Redding gravelly	y loam (RdC), 2 t	o 9 percent	slopes		NWI class	sification: P	aulstrine E	mergent	Wetland
Are climatic / hydrologic conditions on	the site typical fo	r this time of	year? Yes	x No	(If no, exp	olain in Rem	narks.)		
Are Vegetation X, Soil	or Hydrology _	signif	cantly disturb	ed? No	Are "Normal Circum	stances" pr	esent? Ye	s x	No
Are Vegetation, Soil,	or Hydrology _	natura	ally problemat	ic? No	(If needed, explain a	any answers	s in Remar	ks.)	
SUMMARY OF FINDINGS – Atta	ch site man sl	nowing sa	mplina poir	nt location	s. transects. imp	ortant fea	tures, etc	C.	
	<u> </u>				o, aooo.o,p			<u> </u>	
Hydrophytic Vegetation Present?	Yes X	No	_ Is th	e Sampled	Area				
Hydric Soil Present?	Yes X	_No		in a Wetlan	Ye	es X	No		
Wetland Hydrology Present?	Yes X	_No	_						
Remarks: Sample point occurs in a k Section, Touwnship, Range: unsectio Known presence of San Diego Fairy S VEGETATION – Use scientific na	ned portion of the Shrimp	e Mission Sa		grant on the	La Mesa and La Jo	ılla quadranı	gles		
72021ATION 030 SOICHMIO II	unics or plant	Absolute	Dominant	Indicator	Dominance Test	workshee	t:		
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Domin				
1					That Are OBL, FA			1	(A)
2					Total Number of I				
3.					Species Across A			3	(B)
4					Percent of Domin That Are OBL, FA			33	(A/B)
Combiner/Charle Charterer (Diet singe	,		= Total Cove	r	,	, ,			` ` ′
Sapling/Shrub Stratum (Plot size:)				Prevalence Inde	v worksho			
2					Total % Cove			iply by:	
3.					OBL species	5	x 1 =	5	_
4.					FACW species	20	x 2 =	40	
5.		-			FAC species		x 3 =		_
· -			= Total Cove	er	FACU species	15	x 4 =	60	
Herb Stratum (Plot size:)				UPL species	10	x 5 =	50	_
Psilocarphus brevissimus		20	Yes	FACW	Column Totals:	50	(A)	155	(B)
2. Deinandra fasciculata		15	Yes	FACU	Prevalenc	ce Index = B	/Δ = 3.1		
3. Dittrichia graveolens		10	Yes	NI	1 Tevalerie	oc macx = B	// (<u> </u>		_
4. Lythrum hyssopifolium		5	No	OBL	Hydrophytic Veg	getation Inc	dicators:		
5					Dominance	e Test is >50	0%		
6					Prevalence	e Index is ≤3	3.0 ¹		
7. 8.					Morphologi data in F	ical Adaptat Remarks or			
		50	= Total Cov	er	X Problematic	c Hydrophy	tic Vegetat	ion¹ (Exp	olain)
Woody Vine Stratum (Plot size:)					. •	-		•
1.					¹ Indicators of hyd	dric soil and	wetland h	ydrology	must
2.					be present, unle	ss disturbed	or probler	matic.	
		-	= Total Cove	r	Hydrophytic				
% Bare Ground in Herb Stratum	% Cc	over of Biotic	Crust		Vegetation Present?	Yes	X N	No	
Remarks: Although vegetation doesn the hydrophyticstandard as problemati purposes which may alter the vegetatic Vernal pool indicator specicies present	c due to the activ on away from nat	e managem	ent of vegetat	tion here. Mo					

SOIL Sampling Point: WDP 5

Depth	Matrix			edox Featu	ıres		_		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Text	ure	Remarks
)-3	5YR 3/3	70 2.	5YR 3/6	10	C	M	sandy c loam	lay	
					· ·				
Turo: C-Co	ncentration, D=Depletion,	PM-Poducod	Matrix CS-Covere	od or Coated	Sand Grain	2	Location: Pl	-Poro Lin	ning, RC=Root Channel, M=Matrix.
	I Indicators: (Applicat					J			Problematic Hydric Soils ³ :
Black H Hydrog Stratifie 1 cm M Deplete Thick D	ol (A1) Epipedon (A2) Histic (A3) en Sulfide (A4) ed Layers (A5) (LRR C) luck (A9) (LRR D) ed Below Dark Surface Oark Surface (A12) Mucky Mineral (S1)		Stripped Loamy Loamy Deplete Redox I Deplete X Redox I	Redox (S5 d Matrix (S Mucky Mir Gleyed Ma d Matrix (F Dark Surfa d Dark Su Depression Pools (F9)	6) heral (F1) atrix (F2) F3) ce (F6) rface (F7)		2 (cm Muck educed V ed Parent ther (Exp	(A9) (LRR C) (A10) (LRR B) ertic (F18) t Material (TF2) lain in Remarks) ydrophytic vegetation and drology must be present,
Sandy (Gleyed Matrix (S4)						un	less distu	irbed or problematic.
Depth (inc	ches): 3		_				Hydric So	oil Preser	nt? Yes X No No
	ches): 3	d throughout	sample				Hydric Sc	oil Preser	nt? Yes <u>X</u> No
	edox features observed	d throughout	sample				Hydric Sc	oil Preser	nt? Yes <u>X</u> No
Remarks: re	edox features observed	d throughout	sample				Hydric Sc		nt? Yes X No
YDROLOG	edox features observed			ly)			Hydric Sc	Second	lary Indicators (2 or more requir
YDROLOG Wetland Hy Primary Ind Surface High W	GY ydrology Indicators: dicators (minimum of or e Water (A1) /ater Table (A2)			st (B11)			Hydric So	Second Wat	lary Indicators (2 or more requirer Marks (B1) (Riverine) liment Deposits (B2) (Riverine) to Deposits (B3) (Riverine)
YDROLOG Wetland Hy Primary Ind Surface High W Saturat	GY ydrology Indicators: dicators (minimum of or e) Water (A1) //ater Table (A2) tion (A3)	ne required; o	check all that app Salt Crus X Biotic Cr X Aquatic I	st (B11) ust (B12) nvertebrat			Hydric So	Second Wat Sed Drift	lary Indicators (2 or more requirer Marks (B1) (Riverine) liment Deposits (B2) (Riverine) to Deposits (B3) (Riverine) limage Patterns (B10)
YDROLO Wetland H Primary Ind Surface High W Saturat Water I	edox features observed GY ydrology Indicators: dicators (minimum of or e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverir	ne required; o	check all that app Salt Crus X Biotic Cr X Aquatic I	st (B11) ust (B12) nvertebrat n Sulfide C	Odor (C1)			Seconc Wat Sed Drift Drai Dry	lary Indicators (2 or more requirer Marks (B1) (Riverine) liment Deposits (B2) (Riverine) to Deposits (B3) (Riverine) tinage Patterns (B10) the Season Water Table (C2)
YDROLO Wetland Hy Primary Ind Surface High W Saturat Water I Sedime	edox features observed gy ydrology Indicators: dicators (minimum of or e Water (A1) /ater Table (A2) dion (A3) Marks (B1) (Nonriverir ent Deposits (B2) (Non	ne required; one)	check all that app Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized	st (B11) ust (B12) nvertebrat n Sulfide C	Odor (C1) eres along	_		Second Wat Sed Drift Drai Dry. Thir	lary Indicators (2 or more requirement Marks (B1) (Riverine) iment Deposits (B2) (Riverine) in Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) in Muck Surface (C7)
YDROLOG Wetland Hy Primary Ind Surface High W Saturat Water I Sedime Drift De	edox features observed gydrology Indicators: dicators (minimum of or e Water (A1) //ater Table (A2) tion (A3) Marks (B1) (Nonriverir ent Deposits (B2) (Non eposits (B3) (Nonriverir	ne required; one)	check all that app Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized Presence	st (B11) ust (B12) nvertebrat n Sulfide C Rhizosph	Odor (C1) eres along ed Iron (C4	4)	ots (C3)	Second Wat Sed Driff Dra Dry Thir Cra	lary Indicators (2 or more requirement Marks (B1) (Riverine) iment Deposits (B2) (Riverine) it Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) in Muck Surface (C7) yfish Burrows (C8)
YDROLOG Wetland Hy Primary Ind Surface High W Saturat Water I Sedime Drift De Surface	edox features observed gy ydrology Indicators: dicators (minimum of or e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverir ent Deposits (B2) (Non eposits (B3) (Nonriveri e Soil Cracks (B6)	ne required; one) ne) riverine) ine)	check all that app Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized Presence Recent I	st (B11) ust (B12) nvertebrat n Sulfide C Rhizosph e of Reduc	Odor (C1) eres along ed Iron (C4 tion in Tille	4)	ots (C3)	Seconc Wat Sed Drift Drai Dry Thir Cra Satu	lary Indicators (2 or more requirement Marks (B1) (Riverine) Imment Deposits (B2) (Riverine) Image Patterns (B10) Image Patterns (B10) Image Patterns (B7) Image Mater Table (C2) Image Mater Mater Table (C2) Image Mater Mat
YDROLOG Wetland Hy Primary Ind Surface High W Saturat Water N Sedime Drift De Surface Inundat	edox features observed GY ydrology Indicators: dicators (minimum of or e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverir ent Deposits (B2) (Non eposits (B3) (Nonriveri e Soil Cracks (B6) tion Visible on Aerial Im	ne required; one) ne) riverine) ine)	check all that app Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized Presence Recent II Thin Muc	st (B11) ust (B12) nvertebrat n Sulfide C Rhizosph e of Reduct ron Reduct ck Surface	Odor (C1) eres along eed Iron (C2 tion in Tilled (C7)	4)	ots (C3)	Seconc Wat Sed Drift Drai Dry Thir Crai Satt	lary Indicators (2 or more requirer Marks (B1) (Riverine) liment Deposits (B2) (Riverine) to Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) in Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3)
YDROLOG Wetland Hy Primary Ind Surface High W Saturat Water I Sedime Drift De Surface Inundat Water-S	edox features observed gydrology Indicators: dicators (minimum of or e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverir ent Deposits (B2) (Non eposits (B3) (Nonriveri e Soil Cracks (B6) tion Visible on Aerial In Stained Leaves (B9)	ne required; one) ne) riverine) ine)	check all that app Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized Presence Recent II Thin Muc	st (B11) ust (B12) nvertebrat n Sulfide C Rhizosph e of Reduc	Odor (C1) eres along eed Iron (C2 tion in Tilled (C7)	4)	ots (C3)	Seconc Wat Sed Drift Drai Dry Thir Crai Satt	lary Indicators (2 or more requirement Marks (B1) (Riverine) Imment Deposits (B2) (Riverine) Image Patterns (B10) Image Patterns (B10) Image Patterns (B7) Image Mater Table (C2) Image Mater Mater Table (C2) Image Mater Mat
YDROLOG Wetland Hy Primary Ind Surface High W Saturat Water I Sedime Drift De Surface Inundat Water-S	edox features observed gydrology Indicators: dicators (minimum of or e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverir ent Deposits (B2) (Non eposits (B3) (Nonriveri e Soil Cracks (B6) tion Visible on Aerial In Stained Leaves (B9) rvations:	ne required; one) riverine) ine) nagery (B7)	check all that app Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized Presence Recent II Thin Muc	ust (B11) ust (B12) nvertebrat n Sulfide C Rhizosph e of Reduc ron Reduc ck Surface xplain in R	Odor (C1) eres along eed Iron (C2 tion in Tilled (C7)	4)	ots (C3)	Seconc Wat Sed Drift Drai Dry Thir Crai Satt	lary Indicators (2 or more requirer Marks (B1) (Riverine) liment Deposits (B2) (Riverine) to Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) in Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3)
YDROLOG Wetland Hy Primary Ind Surface High W Saturat Water N Sedime Drift De Surface Inundat Water-S	edox features observed GY ydrology Indicators: dicators (minimum of or e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverir ent Deposits (B2) (Non eposits (B3) (Nonriveri e Soil Cracks (B6) tion Visible on Aerial Im Stained Leaves (B9) rvations: ter Present? Ye	ne required; one) riverine) ine) nagery (B7)	check all that app Salt Crus X Biotic Cr X Aquatic I Oxidized Presence Recent Io Thin Muc Other (E	ust (B11) ust (B12) nvertebrat n Sulfide C Rhizosph e of Reduct ron Reduct ck Surface xplain in R	Odor (C1) eres along eed Iron (C2 tion in Tilled (C7)	4)	ots (C3)	Seconc Wat Sed Drift Drai Dry Thir Crai Satt	lary Indicators (2 or more requirer Marks (B1) (Riverine) liment Deposits (B2) (Riverine) to Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) in Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3)
YDROLOG Wetland Hy Primary Ind Surface High W Saturat Water N Sedime Drift De Surface Inundat Water-S Field Obser Surface Wat Water Table Saturation P	edox features observed GY ydrology Indicators: dicators (minimum of or e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverir ent Deposits (B2) (Non eposits (B3) (Nonriveri e Soil Cracks (B6) tion Visible on Aerial Im Stained Leaves (B9) rvations: ter Present? Ye Present? Ye	ne required; of the req	check all that app Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized Presence Recent II Thin Muc	ust (B11) ust (B12) nvertebrat n Sulfide C Rhizosphe e of Reduct ron Reduct ck Surface xplain in R	Odor (C1) eres along eed Iron (C2 tion in Tilled (C7)	4) d Soils (Co	ots (C3)	Seconc Wat Sed Drift Drai Dry Thir Crai Satt Sha	lary Indicators (2 or more requirer Marks (B1) (Riverine) liment Deposits (B2) (Riverine) to Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) in Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3) C-Neutral Test (D5)
YDROLOG Wetland Hy Primary Ind Surface High W Saturat Water I Sedime Drift De Surface Inundat Water-S Field Obser Surface Wat Water Table Saturation P includes ca	edox features observed GY ydrology Indicators: dicators (minimum of or e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverir ent Deposits (B2) (Non eposits (B3) (Nonriveri e Soil Cracks (B6) tion Visible on Aerial In Stained Leaves (B9) rvations: ter Present? Ye	ne required; of the req	check all that app Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized Presence Recent II Thin Muc Other (E	st (B11) ust (B12) nvertebrat n Sulfide C Rhizosphe e of Reduct ron Reduct ck Surface xplain in R ches): ches):	Odor (C1) eres along ed Iron (C4 tion in Tiller (C7) emarks)	4) d Soils (Ce	ots (C3)	Seconc Wat Sed Drift Drai Dry Thir Crai Satt Sha	lary Indicators (2 or more requirer Marks (B1) (Riverine) liment Deposits (B2) (Riverine) to Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) in Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3) C-Neutral Test (D5)
YDROLOG Wetland Hy Primary Ind Surface High W Saturat Water I Sedime Drift De Surface Inundat Water-S Field Obser Surface Wat Water Table Saturation P includes ca	edox features observed GY ydrology Indicators: dicators (minimum of or e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverir ent Deposits (B2) (Non eposits (B3) (Nonriveri e Soil Cracks (B6) tion Visible on Aerial In Stained Leaves (B9) rvations: ter Present? Present? Ye Present? Ye pillary fringe)	ne required; of the req	check all that app Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized Presence Recent II Thin Muc Other (E	st (B11) ust (B12) nvertebrat n Sulfide C Rhizosphe e of Reduct ron Reduct ck Surface xplain in R ches): ches):	Odor (C1) eres along ed Iron (C4 tion in Tiller (C7) emarks)	4) d Soils (Ce	ots (C3)	Seconc Wat Sed Drift Drai Dry Thir Crai Satt Sha	lary Indicators (2 or more requirer Marks (B1) (Riverine) liment Deposits (B2) (Riverine) to Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) in Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3) C-Neutral Test (D5)
YDROLOG Wetland Hy Primary Ind Surface High W Saturat Water I Sedime Drift De Surface Inundar Water-S Field Obser Surface Wat Water Table Saturation P includes ca escribe Rec	edox features observed GY ydrology Indicators: dicators (minimum of or e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverir ent Deposits (B2) (Non eposits (B3) (Nonriveri e Soil Cracks (B6) tion Visible on Aerial In Stained Leaves (B9) rvations: ter Present? Present? Ye Present? Ye pillary fringe)	ne required; of ne) riverine) ine) nagery (B7) es Notes	check all that app Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized Presence Recent II Thin Muc Other (E	st (B11) ust (B12) nvertebrat n Sulfide C Rhizosphe e of Reduct ron Reduct ck Surface explain in R ches): ches):	Odor (C1) eres along ed Iron (C4 tion in Tiller (C7) emarks)	4) d Soils (Ce	ots (C3)	Seconc Wat Sed Drift Drai Dry Thir Cra Satt Sha FAC	lary Indicators (2 or more requirer Marks (B1) (Riverine) liment Deposits (B2) (Riverine) to Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) in Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3) C-Neutral Test (D5)
YDROLOG Wetland Hy Primary Ind Surface High W Saturat Water I Sedime Drift De Surface Inundat Water-S Field Obser Surface Wat Water Table Saturation P includes ca escribe Rec	edox features observed GY ydrology Indicators: dicators (minimum of or e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverir ent Deposits (B2) (Non eposits (B3) (Nonriveri e Soil Cracks (B6) tion Visible on Aerial In Stained Leaves (B9) rvations: ter Present? Ye e Present? Ye eresent? Ye pillary fringe) corded Data (stream ga	ne required; of the req	check all that app Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized Presence Recent II Thin Muc Other (E	st (B11) ust (B12) nvertebrat n Sulfide C Rhizosphe e of Reduct ron Reduct ck Surface explain in R ches): ches):	Odor (C1) eres along ed Iron (C4 tion in Tiller (C7) emarks)	4) d Soils (Ce	ots (C3)	Seconc Wat Sed Drift Drai Dry Thir Cra Satt Sha FAC	lary Indicators (2 or more requirer Marks (B1) (Riverine) liment Deposits (B2) (Riverine) it Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) in Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery Illow Aquitard (D3) C-Neutral Test (D5)

Project/Site: San Diego Fire-Rescue Air Ope	erations Hanga	ar	City/Count	ty: San Dieg	o / San Diego	_Sampling Date:	Nov 1, 2019
Applicant/Owner: City of San Diego					State: CA	_Sampling Point:	UDP 6
Investigator(s): Andrew Smisek			Section,	Township, R	tange: See Remarks		
Landform (hillslope, terrace, etc.): upland			Local reli	ef (concave,	, convex, none): none	Slop	e (%): <u>0-2</u>
Subregion (LRR): LRR-C		Lat: -	117.1347105	54	Long: 32.8184234723	Datur	n: NAD83
Soil Map Unit Name: Redding gravelly loam	(RdC), 2 to 9	percent s	slopes		NWI classification	on: Paulstrine Em	nergent Wetland
Are climatic / hydrologic conditions on the site	e typical for thi	s time of	year? Yes	x No	o(If no, explain in	Remarks.)	
Are Vegetation X, Soil , or Hy	drology	signifi	cantly disturb	ed? No	Are "Normal Circumstance	es" present? Yes	xNo
Are Vegetation, Soil, or Hy	drology	natura	ally problemat	ic? No	(If needed, explain any an	swers in Remarks	s.)
SUMMARY OF FINDINGS – Attach sit	e map show	ving sa	mpling poir	t location	s, transects, importan	t features, etc.	
Hydrophytic Vegetation Present? Ye	s No	X			_		
Hydric Soil Present? Ye	s No	X		e Sampled	res	No X	
Wetland Hydrology Present? Ye	s No	X	with	in a Wetlan	ur —		
Remarks: Paired point to WDP6 occurring in upload ju Section, Touwnship, Range: unsectioned po	ortion of the M			grant on the	La Mesa and La Jolla qua	adrangles	
		bsolute	Dominant	Indicator	Dominance Test work	sheet:	
Tree Stratum (Plot size:)%	Cover	Species?	Status	Number of Dominant Sp	pecies	
1.					That Are OBL, FACW, o	or FAC:	0 (A)
2.					Total Number of Domin Species Across All Stra		
3. 4.					Percent of Dominant Sp		2 (B)
Sapling/Shrub Stratum (Plot size:			= Total Cove	r	That Are OBL, FACW,		0 (A/B)
1.					Prevalence Index wor	ksheet:	
2.					Total % Cover of:	Multip	ly by:
3.					OBL species	x 1 =	<u> </u>
					FACW species	x 2 =	
5.					FAC species	x 3 =	
			= Total Cove	r	FACU species	x 4 =	
Herb Stratum (Plot size:)				UPL species	x 5 =	
1. Bromus madritensis		40	Yes	FACU	Column Totals:	(A)	(B)
2. Erodium sp.		25	Yes	FACU	Prevalence Inde	ex = B/A =	
3. Holocarpha virgata		5	No	NI			
4. Dittrichia graveolens		5	No	UPL	Hydrophytic Vegetation		
5					Dominance Test		
6.					Prevalence Index		
7. 8.					Morphological Ac	laptations' (Provid ks or on a separa	
Woody Vine Stratum (Plot size:) —	75	= Total Cov	er	Problematic Hydr	ophytic Vegetatio	n¹ (Explain)
1.					¹ Indicators of hydric so be present, unless dist	oil and wetland hydurbed or problem	drology must atic.
2			= Total Cove	<u> </u>		- ,	
% Bare Ground in Herb Stratum	% Cover	of Biotic		I	Hydrophytic Vegetation Present? Y	es No) X
Remarks: Vegetation has been recently move							
The second of th							

SOIL Sampling Point: <u>UDP 6</u>

Depth	Matrix	_	n needed to docum Re	edox Featu						,		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Tex	ture		Rem	arks	
0-8	5YR 3/3	60	5YR 4/6	5	С	M	sandy o loam	lay	gravel p	resent		
		_					_					
		<u> </u>			· —— -							
					·		_		-			
	_											
1- 0.0							2, 5			D . O		
			ced Matrix, CS=Covere LRRs, unless other			•				Root Chann		
Histos	`		*	Redox (S5)	•				ck (A9) (L l	-		
	Epipedon (A2)			d Matrix (S					ck (A10) (I	,		
	Histic (A3)		Loamy	Mucky Mir	eral (F1)				Vertic (F1			
Hydro	gen Sulfide (A4)		Loamy	Gleyed Ma	trix (F2)		R	ed Pare	ent Materia	al (TF2)		
Stratifi	ed Layers (A5) (LRI	R C)	Deplete	d Matrix (F	3)		0	ther (Ex	φlain in R	emarks)		
	Muck (A9) (LRR D)			Dark Surfa	. ,							
	ted Below Dark Surf	ace (A11)		d Dark Su	` ,		•					
	Dark Surface (A12)			Depression	ns (F8)					tic vegetati		
	Mucky Mineral (S1) Gleyed Matrix (S4)		Vernal I	Pools (F9)						nust be pre problemati		
	Layer (if present)									·		
	ard rock/compact so											
	iches): 8	-					Hydric S	oil Pres	ent?	Yes	No	Χ
HYDROLO	OGY											
	Hydrology Indicato	rs.						Seco	ndary Ind	icators (2	or more i	equired
			d; check all that app	ly)						s (B1) (Riv		oquiroc
	ce Water (A1)		Salt Crus	-						eposits (B2		ne)
	Vater Table (A2)		Biotic Cr	` ,						ts (B3) (Ri v	, ,	10)
	ation (A3)			nvertebrat	ac (B13)					atterns (B1		
	Marks (B1) (Nonri v	(orino)		n Sulfide C	, ,				_	Water Tal	•	
	nent Deposits (B2) (•			eres along l	ivina Pa	note (C3)		-	Surface (C7		
	Deposits (B3) (Nonri				ed Iron (C4	•	JOIS (CS)			rrows (C8))	
	ce Soil Cracks (B6)	verifie)			`	•	`C)		•	` ,	orial Ima	70n/ (C0
	` ,	al Imagan, (D			tion in Tilled	30115 (C	<i>,</i> 0)			/isible on A	enai imaç	gery (Ca
	ation Visible on Aeri -Stained Leaves (BS		<i>'</i> —	ck Surface xplain in R	` '					uitard (D3) Il Test (D5)		
Field Obse	ervations:											
Surface Wa	ater Present?	Yes	No X Depth (inc	:hes):								
Water Tabl	e Present?	Yes	No X Depth (inc	:hes):		_						
Saturation (includes of	Present? apillary fringe)	Yes	No X Depth (inc			Wetl	and Hydro	ology P	resent?	Yes	No	X
		m gauge, moi	nitoring well, aerial pl	notos, prev	rious inspec	tions), if	available:					
Remarks: N	lo hydrology indicate	ors observed										

Project/Site: San Diego Fire-Rescue A	ir Operations Ha	ngar	City/Count	y: <u>San Dieg</u>	o / San Diego	Sampling Date:	Nov 1, 2019
Applicant/Owner: City of San Diego					State: CA	Sampling Point:	WDP 6
Investigator(s): Andrew Smisek			Section,	Township, R	ange: See Remarks		
Landform (hillslope, terrace, etc.):			Local reli	ef (concave,	convex, none): concave	Slop	e (%): <u>0-2</u>
Subregion (LRR): LRR-C		Lat:	-117.1346754	56	Long: 32.8184264001	Datum	n: NAD83
Soil Map Unit Name: Redding gravelly	loam (RdC), 2 t	o 9 percent	slopes		NWI classification	on: Paulstrine Em	ergent Wetland
Are climatic / hydrologic conditions on t	he site typical fo	r this time of	f year? Yes	x No	(If no, explain in	Remarks.)	
Are Vegetation X, Soil ,	or Hydrology _	signif	icantly disturbe	ed? No	Are "Normal Circumstance	s" present? Yes	xNo
Are Vegetation, Soil,	or Hydrology	natura	ally problemati	c? No	(If needed, explain any ans	wers in Remarks	s.)
SUMMARY OF FINDINGS – Attac	ch site map sl	nowing sa	mpling poin	t location	s, transects, importan	t features, etc.	
Hydrophytic Vegetation Present?	Yes X	No	la 4h	- Cammia d	A		
Hydric Soil Present?	Yes X	No		e Sampled in a Wetlan	YAS	K No	
Wetland Hydrology Present?	Yes X	_No		in a wonan	u.		
Section, Touwnship, Range: unsection Known presence of San Diego Fairy S VEGETATION – Use scientific na	thrimp		Dominant	Indicator	Dominance Test works	-	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Sp		
1.					That Are OBL, FACW, o		2 (A)
2.					Total Number of Domina Species Across All Strat		(D)
3. 4.		-		-	Percent of Dominant Sp	-	3 (B)
T			= Total Cove		That Are OBL, FACW, o		67 (A/B)
Sapling/Shrub Stratum (Plot size:)		= 10tal 00v0	•			
1.					Prevalence Index work	sheet:	
2.					Total % Cover of:	Multip	ly by:
3.					OBL species	x 1 =	
4					FACW species	x 2 =	
5					FAC species	x 3 =	
			= Total Cove	r	FACU species	x 4 =	
Herb Stratum (Plot size:)	00	V	E4 0)4/	UPL species	x 5 =	
Phalaris lemmonii Lythrum hyssopifolia		20	Yes	FACW	Column Totals:	(A)	(B)
Lythrum hyssopifolia Holocarpha virgata		20	Yes Yes	OBL NI	Prevalence Inde	x = B/A =	
4. Dittrichia graveolens		10	No	UPL	Hydrophytic Vegetatio	n Indicators:	
5.					X Dominance Test i		
6					Prevalence Index		
7.					Morphological Ad		le supportina
8.						ks or on a separa	
		70	= Total Cove	er	Problematic Hydro	ophytic Vegetation	n¹ (Explain)
Woody Vine Stratum (Plot size:)						
1. 2.					¹ Indicators of hydric so be present, unless dist	il and wetland hyd urbed or problema	drology must atic.
			= Total Cove	r	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum	% Co	ver of Biotic	Crust		Present? Ye	es X No	·
Remarks: Vegetation has been recentled	y mowed						

SOIL Sampling Point: WDP 6

Depth	Matrix			edox Featu			_				
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Text	ture		Remark	S
)-2	5YR 3/3	70	5YR 4/6	20	C	М	sandy o	elay			
	_				·						
	_				· —— -						
				·	· —— -						
	 oncentration, D=Deplet					. :				ot Channel, I	
•	il Indicators: (Appl	icable to all I	•		•					tic Hydric S	Soils³:
	ol (A1)			Redox (S5					(A9) (LRF	•	
	Epipedon (A2)			d Matrix (S	,				(A10) (LR		
	Histic (A3)			Mucky Min	, ,				ertic (F18)		
	gen Sulfide (A4)	. C/		Gleyed Ma					t Material (
	ed Layers (A5) (LRF Muck (A9) (LRR D)	(C)		ed Matrix (F Dark Surfa			0	mer (⊨xp	lain in Ren	narks)	
	ted Below Dark Surfa	200 (411)		ם Dark Su⊓a ed Dark Su	` '						
	Dark Surface (A12)	ace (ATT)	X Redox		` '		3Indio	ators of h	vdrophytic	vegetation	and
	Mucky Mineral (S1)			Pools (F9)	15 (1 0)					st be prese	
	Gleyed Matrix (S4)		veiriai	F0015 (1-9)				-	irbed or pr		111,
	Layer (if present):										
Type: Depth (in							Hydric S			es X	No
YDROLC											
	Hydrology Indicator										more require
Primary In	dicators (minimum o	f one required	d; check all that app	ly)				Wa	ter Marks (B1) (Riveri	ne)
	ce Water (A1)		Salt Crus	` ,						osits (B2) (
High V	Vater Table (A2)		X Biotic Cr	ust (B12)				Drif	t Deposits	(B3) (River	ine)
Satura	ation (A3)		X Aquatic	nvertebrat	es (B13)			Dra	inage Patt	erns (B10)	
Water	Marks (B1) (Nonriv	erine)	Hydroge	n Sulfide C	Odor (C1)			Dry	-Season W	/ater Table	(C2)
Sedim	nent Deposits (B2) (N	lonriverine)	Oxidized	Rhizosph	eres along L	iving Ro	ots (C3)	Thir	n Muck Su	rface (C7)	
Drift D	eposits (B3) (Nonriv	verine)	Presenc	e of Reduc	ed Iron (C4))		Cra	yfish Burro	ws (C8)	
Surfac	ce Soil Cracks (B6)		Recent I	ron Reduc	tion in Tilled	Soils (C	6)	Sat	uration Vis	ible on Aeri	al Imagery (0
 Inunda	ation Visible on Aeria	al Imagery (B7	7) Thin Mu	ck Surface	(C7)				llow Aquita		
Water	-Stained Leaves (B9))	Other (E	xplain in R	emarks)			FAC	C-Neutral T	est (D5)	
	ervations:	Vaa	No. V. Donth (inc	shoo).							
	ater Present?		No X Depth (inc			-					
vater rabi Saturation	e Present? Present?		No X Depth (inc			_ Wetl	and Hydro	ology Pre	sent?	Yes X	No
includes c	apillary fringe)										
escribe Re	ecorded Data (strean	n gauge, mon	itoring well, aerial p	hotos, pre\	vious inspec	tions), if	available:				
	National Industrial Community of	- m . a al #l · · · · ·									
	Oried biotic crust obs	_	out pool.								
iown pres	ence of San Diego fa	any shrimp									

Project/Site: San Diego Fire-Rescue Air Operations H	angar	City/Coun	ity: San Dieg	o / San Diego	Sampling Date: Nov 1, 2019
Applicant/Owner: City of San Diego				State: CA	Sampling Point: UDP 7
Investigator(s): Andrew Smisek		Section,	Township, R	Range: See Remarks	
Landform (hillslope, terrace, etc.): upland		Local rel	lief (concave,	, convex, none): none	Slope (%): 0-2
Subregion (LRR): LRR-C	Lat:	-117.1345423	336	Long: <u>32.8186025684</u>	Datum: NAD83
Soil Map Unit Name: Redding gravelly loam (RdC), 2	to 9 percent	slopes		NWI classificati	on: Paulstrine Emergent Wetla
Are climatic / hydrologic conditions on the site typical for	or this time o	f year? Yes	xNo	o(If no, explain ir	n Remarks.)
Are Vegetation X, Soil , or Hydrology	signif	icantly disturb	ed? No	Are "Normal Circumstance	es" present? Yes x No
Are Vegetation, Soil, or Hydrology	natur	ally problemat	tic? No	(If needed, explain any an	swers in Remarks.)
SUMMARY OF FINDINGS – Attach site map s	showing sa	mpling poir	nt location	s, transects, importan	nt features, etc.
Hydrophytic Vegetation Present? Yes	No X			_	
Hydric Soil Present? Yes			ne Sampled nin a Wetlan	YAS	No X
Wetland Hydrology Present? Yes	No X	Witi	ıın a vvetian	ur —	
Remarks: Paired point to WDP7 occurring just outsic Section, Touwnship, Range: unsectioned portion of the VEGETATION – Use scientific names of plant	ne Mission Sa		grant on the	La Mesa and La Jolla qua	adrangles
	Absolute	Dominant	Indicator	Dominance Test work	sheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant S	
1.				That Are OBL, FACW,	
2. 3.				Total Number of Domin Species Across All Stra	
4.				Percent of Dominant Sp	(D)
4.		= Total Cove		That Are OBL, FACW,	
Sapling/Shrub Stratum (Plot size:)		- Total Cove	5 1		
1.				Prevalence Index wor	ksheet:
2.				Total % Cover of:	Multiply by:
3.				OBL species	x 1 =
4.				FACW species	x 2 =
5.				FAC species	x 3 =
		= Total Cove	er	FACU species	x 4 =
Herb Stratum (Plot size:)				UPL species	x 5 =
1. Bromus madritensis	50	Yes	FACU	Column Totals:	(A)(B)
Deinandra fasciculata	5	No	FACU	Prevalence Inde	ex = B/A =
3. Dittrichia graveolens	5	No	UPL		
4. Lythrum hyssopifolium	1	No	OBL	Hydrophytic Vegetation	on Indicators:
5. Psilocarphus brevissimus	1	No	FACW	Dominance Test	
6.				Prevalence Index	
7					daptations ¹ (Provide supporting
8					rks or on a separate sheet)
Wash Visa Charles (District)	62	= Total Cov	er/er	Problematic Hydi	rophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)				1	. The state of the state of the state of
2.				be present, unless dist	oil and wetland hydrology must turbed or problematic.
0/ Para Cround in Lint Stratum	over of D'or'	= Total Cove	er	Hydrophytic Vegetation	Voc. No. V
	over of Biotic				es No_X
Remarks: Vegetation has been recently mowed. Although present, these species are scattered locally in this uplate the second process of the second process			n and vernal	pool indicator species, Ps	ilocarphus brevissimus, are

SOIL Sampling Point: <u>UDP 7</u>

(inches)	Matrix			Redox Featu	1	. 2	- -	5
(IIICIIC3)	Color (moist)	<u></u> %	Color (moist)	%	Type'	Loc ²	Texture	Remarks
)-8	5RY 3/3	80 5	YR 4/6	15 		М	sandy clay loam	some gravel and organics mixed in
	oncentration, D=Depletion,					. 2		Lining, RC=Root Channel, M=Matrix.
iyarıc so Histos	il Indicators: (Applica	DIE TO AII LK		Redox (S5)	•			or Problematic Hydric Soils ³ : uck (A9) (LRR C)
Histic I Black I Hydroo Stratifi 1 cm I Deplet Thick I Sandy	Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) (LRR C Muck (A9) (LRR D) ted Below Dark Surface Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4)	,	Stripp Loamy Loamy Deple Redox Deple Redox	ed Matrix (So / Mucky Mine / Gleyed Mat ted Matrix (Fo to Dark Surfact ted Dark Surfact ted Dark Surfact ted Dark Surfact ted Dork Surfact (Fo)	6) eral (F1) trix (F2) 3) ce (F6) face (F7)		2 cm Mu Reduced Red Pail Other (E	Juck (A10) (LRR B) d Vertic (F18) ent Material (TF2) explain in Remarks) f hydrophytic vegetation and hydrology must be present, isturbed or problematic.
							unicoo u	Starbea of problematic.
	Layer (if present):							
Type: h	ard rock/compact soil		_				Hydric Soil Pre	sent? Yes No X
								in a depressional landform. Redox
eatures ma	ay be present due to ha							in a depressional landform. Redox
eatures ma	ay be present due to ha						ely causes prolo	in a depressional landform. Redox nged saturation during the rainy seaso
YDROLC	ay be present due to ha	ardpan subsu	rface that minm	zes drainage			ely causes prolo	in a depressional landform. Redox nged saturation during the rainy seaso
IYDROLC Wetland F Primary In Surfac High V Satura Water Sedim Drift D Surfac Inunda Water	OGY Hydrology Indicators: dicators (minimum of o ce Water (A1) Vater Table (A2) ation (A3) Marks (B1) (Nonriveri nent Deposits (B2) (Nor deposits (B3) (Nonriver ce Soil Cracks (B6) ation Visible on Aerial In -Stained Leaves (B9)	ne required; one) ne) nriverine) ine)	check all that ap Salt Cri Biotic C Aquatic Hydrog Oxidize Presen Recent Thin Mi	zes drainage	es (B13) dor (C1) eres along L ed Iron (C4) don in Tilled (C7)	a and like	Second S	
YDROLO Wetland F Primary In Surface High V Satura Water Sedim Drift D Surface Inunda Water Field Obse Surface Wa Vater Tabl Saturation	OGY Hydrology Indicators: dicators (minimum of ore Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonrivering the proposits (B2) (Norrivering the Soil Cracks (B6) ation Visible on Aerial Instance (B9) Evaluations: ater Present? Present? Yellogy Present? Yellogy Present?	ne required; of the ne req	check all that ap Salt Cri Biotic C Aquatic Hydrog Oxidize Presen Recent Thin Mi	ply) Just (B11) Prust (B12) Invertebrate en Sulfide Ord d Rhizosphe ce of Reducti Juck Surface (Explain in Reducti anches):	es (B13) dor (C1) eres along L ed Iron (C4) don in Tilled (C7)	a and like	Second S	in a depressional landform. Redox nged saturation during the rainy season ondary Indicators (2 or more required Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Originage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3) FAC-Neutral Test (D5)
YDROLC Wetland F Primary In Surface High V Satura Water Sedim Drift D Surface Inunda Water Field Obse Surface Wa Water Tabl Saturation I	OGY Hydrology Indicators: dicators (minimum of ore Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonriveriment Deposits (B2) (Norrivere Soil Cracks (B6) ation Visible on Aerial In-Stained Leaves (B9) ervations: ater Present? Yellogy Present?	ne required; of the req	check all that ap Salt Cri Biotic C Aquatic Hydrog Oxidize Presen Recent Thin Mi Other (o X Depth (ir o X Depth (ir	ply) Just (B11) Crust (B12) Invertebrate en Sulfide Or d Rhizosphe ce of Reduce Iron Reducti Juck Surface (Explain in Reducti Juck Surface	es (B13) dor (C1) eres along L ed Iron (C4) fon in Tilled (C7) emarks)	a and like	Second Se	in a depressional landform. Redox nged saturation during the rainy season ondary Indicators (2 or more required Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Originage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: San Diego Fire-Rescue Air Operations Ha	ingar	City/Count	y: San Dieg	o / San Diego	Sampl	ling Date:	Nov 1,	2019
Applicant/Owner: City of San Diego				State: C/	Sampl	ling Point:	WDP 7	7
Investigator(s): Andrew Smisek		Section,	Γownship, R	ange: See Remarks				
Landform (hillslope, terrace, etc.):		Local relie	ef (concave,	convex, none): none		Slop	oe (%):	0-2
Subregion (LRR): LRR-C	Lat: -	117.13451168	38	Long: <u>32.81859580</u>	85	Datu	m: NAD	83
Soil Map Unit Name: Redding gravelly loam (RdC), 2 to	o 9 percent s	slopes		NWI classif	cation: Pau	ılstrine Er	nergent	Wetland
Are climatic / hydrologic conditions on the site typical fo	r this time of	year? Yes	x No	o(If no, expla	in in Remar	ks.)		
Are Vegetation X, Soil , or Hydrology	signifi	cantly disturbe	ed? No	Are "Normal Circumst	ances" pres	ent? Yes	X	No
Are Vegetation, Soil, or Hydrology	natura	ally problemati	c? No	(If needed, explain any	answers ir	Remark	s.)	
SUMMARY OF FINDINGS – Attach site map sl	nowing sa	mpling poin	t locations	s, transects, impo	rtant featu	ires, etc		
Hydrophytic Vegetation Present? Yes X	No	1- 41-	. 0	A				
Hydric Soil Present? Yes X	No		e Sampled in a Wetland	100	X I	No		
Wetland Hydrology Present? Yes X	No		iii a vvetiaii	u.				
Remarks: Sample point occurs in a known vernal pool Section, Touwnship, Range: unsectioned portion of the Known presence of San Diego fairy shrimp VEGETATION – Use scientific names of plants	e Mission Sa	n Diego landg				es.		
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test w				
1.	70 00001	Орсоюз.	Otalas	Number of Dominal That Are OBL, FAC			2	(A)
2.				Total Number of Do		-		(,,
3.				Species Across All	Strata:		4	(B)
4.				Percent of Dominar			5 0	(A/D)
		= Total Cover	•	That Are OBL, FAC	W, or FAC:		50	(A/B)
Sapling/Shrub Stratum (Plot size:)								
1				Prevalence Index				
2				Total % Cover			oly by:	_
3.				OBL species	_	x 1 =	20	_
4				FACW species FAC species		x 2 = x 3 =	54	_
5		= Total Cover	<u> </u>	FACU species		x 4 =	100	_
Herb Stratum (Plot size:)		= Total Cove		UPL species	_	x 5 =	100	_
1. Lythrum hyssopifolia	20	Yes	OBL	Column Totals:		(A)	174	(B)
2. Bromus madritensis	20	Yes	FACU					_` ′
3. Juncus bufonius	15	Yes	FACW	Prevalence	index = B/A	=1.9		
4. Dittrichia graveolens	15	Yes	UPL	Hydrophytic Vege	tation Indic	ators:		
5. Phalaris lemmonii	12	No	FACW	Dominance T	est is >50%			
6. Deinandra fasciculata	5	No	FACU	X Prevalence Ir	ndex is ≤3.0	1		
7. Holocarpha virgata	5	No	NI	Morphologica				
8				data in Re	marks or or	n a separa	ate shee	t)
	92	= Total Cove	er	Problematic I	Hydrophytic	Vegetatio	on¹ (Exp	lain)
Woody Vine Stratum (Plot size:)				1				
1.				¹ Indicators of hydri be present, unless				must
2					distance o	Problem		
		= Total Cover	•	Hydrophytic Vegetation				
% Bare Ground in Herb Stratum % Co	ver of Biotic	Crust		Present?	Yes_X	. No	0_	
Remarks: Vegetation has been recently mowed.					-	-		
Vernal pool indicator specicies present.								

SOIL Sampling Point: WDP 7

Color (molst) % Color (molst) % Type Loc Toture Remarks	· · · · · · · · · · · · · · · · · · ·			edox Featu					
Type: C-cConcentration, De-Depletion, RMe-Reduced Metrix, CSs-Covered or Coated Sand Grains. Location: PLePort Lining, RC-Bood Charmel, MeMarix, Plydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: 1 orn Muck (A) (LRR C) 2 orn Muck (A) (LRR C) 2 orn Muck (A) (LRR B) Reduced Vertic (F18) Reduc	0-2 5YR 3/2	1) %	Color (moist)	%	Type ¹	Loc ²	Textu	ure	Remarks
Histosol (A1)		70	5YR 4/6	20	C	RC		ay	
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)									
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)									
Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)									
Histosol (A1)				·					
Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histo Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) 2 cm Muck (A10) (LRR B) Reduce Victor (F18) Hydrogen Sulfide (A4) 2 coamy Cleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Depleted Below Dark Surface (A12) X Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Problem Matrix (S4) Sandy Mucky Mineral (S1) Vernal Pools (F9) Problem Matrix (S4) Sandy Gleyed Matrix (S4) Sestrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes X No emarks: redox features obvious and observed throughout sample. Only dug 2 inches due to vernal pool sensitivity. **PROLOGY** **Netland Hydrology Indicators:** **Water Marks (B1) (Morriverine) High Water Table (A2) X Biotic Crust (B11) Satt Crust (B11) Satt Crust (B11) Satt Crust (B11) Drift Deposits (B3) (Riverine) **Sufface Water (A1) Satt Crust (B11) Drift Deposits (B3) (Riverine) **Sufface Water (A1) Satt Crust (B11) Drift Deposits (B3) (Riverine) **Sufface Water (A1) Satt Crust (B11) Drift Deposits (B3) (Riverine) **Sufface Soil (Ronriverine) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) **Sediment Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) **Sufface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imager (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) **Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) **Indicators Crust Remarks: Dried biotic crust observed throughout pool.** **Wettandior Present? Yes No Depth (inches): Wettander (C7) Yes No Depth (inches): Wettander (C7) Shallow Aquitard (D3) **Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) **Water Table Present? Yes No Depth (inches): Wettander (C7) Shallow Sattlander (C7) Shall						. ² Lo			
Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Pindicators of hydrophytic vegetation and wetland (F19) Indicators	•	plicable to all i	•		•				
Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Loamy Gleyed Matrix (F2) Third (F2) Compressions (F8) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Bow Dark Surface (A11) Thick Dark Surface (A12) X Redox Depressions (F8) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Vernal Pools (F9) Vernal Pools (F9) Wetland Hydrology must be present, unless disturbed or problematic. **Redox Depressions (F8) **Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. **Redox Depressions (F8) **Vernal Pools (F9) Wetland Hydrology Indicators (F8) **Primary Indicators (F8) **Primary Indicators (F8) **Secondary Indicators (2 or more reprimary Indicators (A11) **Set Table (A2) **Salt Crust (B11) **Salt Crust (B11) **Salt Crust (B12) **Salt Table (A2) **Salt Table (A2) **Salt Crust (B12) **Salt Table (A2) **Salt								, , ,	•
Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) X Redox Depressions (F8) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Vernal Pools (F9) Vernal Pools (F9) Depleted Dark Surface (A12) Sandy Gleyed Matrix (S4) Vernal Pools (F9) Wetland hydrology must be present, unless disturbed or problematic. Versificitive Layer (if present): Type: Depth (inches): Pepth (inches): Permarks: redox features obvious and observed throughout sample. Only dug 2 inches due to vernal pool sensitivity. YDROLOGY Wetland Hydrology Indicators: Permary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drift Deposits (B2) (Niverine) Sediment Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitand (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) Wetland Hydrology Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inche				,	•				
Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A12) X Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Vernal Pools (F9) Vernal Pools (F9) Wetland hydrology must be present, unless disturbed or problematic. Sardy Gleyed Matrix (S4) Vernal Pools (F9) Wetland hydrology must be present, unless disturbed or problematic. Sardy Gleyed Matrix (S4) Depth (inches): Type: Depth (inches): Hydric Soil Present)? YPROLOGY Wetland Hydrology Indicators: Frimary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) Salt Crust (B11) Salt Crust (B12) Saturation (A3) X Aquatic Invertebrates (B13) Drainage Patterns (B3) (Riverine) Sediment Deposits (B3) (Riverine) Sediment Deposits (B3) (Riverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Surface (S6) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Vater Stained Leaves (B9) Other (Explain in Remarks) Vetal Observations: Urdace Water Present? Ves No Depth (inches): Vetal Observations: Vetal Observations: Vetal Observations: Vetal Observations: Vetal Observations: Vetal Observations: Vetal Observations (Vetal Present) Ves No Depth (inches): Vetal Observations, if available:				-	, ,				
1 cm Muck (A9) (LRR D)		RR C)							
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) X Redox Depressions (F8) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Vernal Pools (F9) Vern								noi (Explain in	(Citiality)
Thick Dark Surface (A12)		•			` ,				
Sandy Mucky Mineral (S1)		` ,			` '		³ Indica	tors of hydroph	ytic vegetation and
Sandy Gleyed Matrix (S4) unless disturbed or problematic. lestrictive Layer (if present): Type: Depth (inches): Premarks: redox features obvious and observed throughout sample. Only dug 2 inches due to vernal pool sensitivity. Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Saturation (A3) X Aquatic Invertebrates (B13) Drainage Patterns (B10) Water Marks (B1) (Nonriverine) Doxidized Rhizospheres along Living Roots (C3) Drift Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Water Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) leid Observations: urface Water Greent? Yes No Depth (inches): urface Water Greent? Yes No Depth (inches): demarks: Dried biotic crust observed throughout pool.		•			- (-)				=
Type:	, , ,	,		, ,					
Depth (inches):		nt):							
Primary Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Sediment Deposits (B2) (Riverine) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Surface (C7) Surface Water (A1) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Surface Water Present? Yes No Depth (inches): Sediment Deposits (B2) (Nonriverine) Sediment									
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) Saturation (A3) Water Marks (B1) (Riverine) Sutration (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) (Riverine) Sediment Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Shallow Aquitard (D3) FAC-Neutral Test (D5) Stelled Observations: Wetland Hydrology Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes X No includes capillary fringe) Beach Includes Capillary fringe) Wetland Hydrology Present? Yes X No includes capillary fringe)	Depth (inches):						Hydric So	oil Present?	Yes X No
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Salt Crust (B11) Saturation (A3) Water Marks (B1) (Riverine) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Riverine) Primary Indicators (minimum of one required; check all that apply) Saturation (A3) Water Marks (B1) (Primary (B12) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Roriverine) Drift Deposits (B2) (Riverine) Drift Deposits (B2) (Riverine) Drift Deposits (B3) (Roriverine) Drift Deposits (B2) (Riverine) Drif	YDROLOGY								
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B3) (Nonriverine) Sediment Deposits (B1) (Nonriverine) Sediment Deposit									
Surface Water (A1)		tors:						Secondary In	dicators (2 or more requi
High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Dry-Season Water Table (C2) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Seturate Present? Ves No Depth (inches): Vater Table Present? Yes No Depth (inches): Saturation Visible on Aerial Imagery (B7) Wetland Hydrology Present? Yes No Depth (inches): Securation Visible on Aerial Imagery (B7) Securation Vis	Wetland Hydrology Indica		d: check all that app	lv)				•	
Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Secribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Surface Water Dried biotic crust observed throughout pool.	Wetland Hydrology Indicate Primary Indicators (minimum							Water Mar	ks (B1) (Riverine)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imager Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Iteld Observations: Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes X No No Depth (inches): Wetland Hydrology Present? Yes X No No Depth (inches): Wetland Hydrology Present? Yes X No No Depth (inches): Wetland Hydrology Present? Yes X No No Depth (inches): Wetland Hydrology Present? Yes X No No Depth (inches): Wetland Hydrology Present? Yes X No No Depth (inches): Wetland Hydrology Present? Yes X No No No No No No No No No	Wetland Hydrology Indicators indicators (minimum Surface Water (A1)		Salt Crus	st (B11)				Water Mar	ks (B1) (Riverine) Deposits (B2) (Riverine)
Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Thin Muck Surface (C7) Other (Explain in Remarks) Thin Muck Surface (D5) FAC-Neutral Test (D5) Surface Water Present? Yes No Depth (inches): Staturation Prese	Wetland Hydrology Indicators Primary Indicators (minimun Surface Water (A1) High Water Table (A2)		Salt Crus X Biotic Cr	st (B11) ust (B12)	as (R13)			Water Mar Sediment Drift Depos	ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine)
Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Pesence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No Depth (inches): Saturation Visible on Aerial Imagery Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes X No Saturation Visible on Aerial Imagery Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes X No Shallow Aquitard Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes X No Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes X No Shallow Aquitard (D3) Shal	Wetland Hydrology Indicators Primary Indicators (minimun Surface Water (A1) High Water Table (A2) Saturation (A3)	n of one required	Salt Crus X Biotic Cr X Aquatic	st (B11) ust (B12) Invertebrate	. ,			Water Mar Sediment Drift Depos	ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10)
Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Image Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes X No includes capillary fringe) Secribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Wetland Hydrology Indicators Primary Indicators (minimun Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (None	n of one required	Salt Crus X Biotic Cr X Aquatic I Hydroge	st (B11) ust (B12) Invertebrate n Sulfide C	odor (C1)	iving Poot	ec (C3)	Water Mar Sediment Drift Depos Drainage F	ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) on Water Table (C2)
Inundation Visible on Aerial Imagery (B7)	Wetland Hydrology Indicators Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (None Sediment Deposits (B2)	n of one required riverine) (Nonriverine)	Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized	st (B11) ust (B12) Invertebrate n Sulfide C	odor (C1) eres along L	•	ts (C3)	Water Mar Sediment Drift Depos Drainage F Dry-Seaso Thin Muck	ks (B1) (Riverine) Deposits (B2) (Riverine) Sits (B3) (Riverine) Patterns (B10) In Water Table (C2) Surface (C7)
Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Factorial Test (D5) Factorial Test (D5) Other (Explain in Remarks) FAC-Neutral Test (D5) Factorial Test (D5) Factorial Test (D5) Wetland Hydrology Present? Yes X No Depth (inches): Factorial Test (D5) Wetland Hydrology Present? Yes X No Depth (inches): Factorial Test (D5) Wetland Hydrology Present? Yes X No Depth (inches): Factorial Test (D5)	Wetland Hydrology Indicators Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (None Sediment Deposits (B2) Drift Deposits (B3) (None	n of one required riverine) n (Nonriverine) nriverine)	Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized Presence	st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduc	Odor (C1) eres along L ed Iron (C4))	` '	Water Mar Sediment Drift Depos Drainage F Dry-Seaso Thin Muck Crayfish B	ks (B1) (Riverine) Deposits (B2) (Riverine) Sits (B3) (Riverine) Patterns (B10) In Water Table (C2) Surface (C7) urrows (C8)
Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Baturation Present	Wetland Hydrology Indicators Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonicolom) Sediment Deposits (B2) Drift Deposits (B3) (Nonicolom) Surface Soil Cracks (B6	riverine) (Nonriverine) (riverine)	Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized Presence Recent I	st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduc	Odor (C1) eres along L ed Iron (C4) tion in Tilled)	` '	Water Mar Sediment Drift Depos Drainage F Dry-Seaso Thin Muck Crayfish B Saturation	ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) In Water Table (C2) Surface (C7) urrows (C8) Visible on Aerial Imagery (
Vater Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes X No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes X No Depth (inches): Saturation Present? Yes No Depth (inches): Saturat	Wetland Hydrology Indicators Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonicological Sediment Deposits (B2) Drift Deposits (B3) (Nonicological Surface Soil Cracks (B6) Inundation Visible on Ae	riverine) (Nonriverine) nriverine) s) erial Imagery (B7	Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized Presence Recent I Thin Muc	st (B11) ust (B12) invertebrate n Sulfide C I Rhizosphe e of Reduc ron Reduct ck Surface	Odor (C1) eres along L ed Iron (C4) tion in Tilled (C7))	` '	Water Mar Sediment Drift Depos Drainage F Dry-Seaso Thin Muck Crayfish B Saturation Shallow Ad	ks (B1) (Riverine) Deposits (B2) (Riverine) Sits (B3) (Riverine) Patterns (B10) In Water Table (C2) Surface (C7) urrows (C8) Visible on Aerial Imagery (quitard (D3)
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes X No ncludes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: emarks: Dried biotic crust observed throughout pool.	Wetland Hydrology Indicators Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (None Sediment Deposits (B2) Drift Deposits (B3) (None Surface Soil Cracks (B6) Inundation Visible on Ae Water-Stained Leaves (riverine) (Nonriverine) nriverine) s) erial Imagery (B7	Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized Presence Recent I Thin Muc	st (B11) ust (B12) invertebrate n Sulfide C I Rhizosphe e of Reduc ron Reduct ck Surface	Odor (C1) eres along L ed Iron (C4) tion in Tilled (C7))	` '	Water Mar Sediment Drift Depos Drainage F Dry-Seaso Thin Muck Crayfish B Saturation Shallow Ad	ks (B1) (Riverine) Deposits (B2) (Riverine) Sits (B3) (Riverine) Patterns (B10) In Water Table (C2) Surface (C7) urrows (C8) Visible on Aerial Imagery (quitard (D3)
escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: emarks: Dried biotic crust observed throughout pool.	Wetland Hydrology Indicators Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (None Sediment Deposits (B2) Drift Deposits (B3) (None Surface Soil Cracks (B6) Inundation Visible on Ae Water-Stained Leaves (Field Observations:	riverine) (Nonriverine) nriverine) si) erial Imagery (B7	Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E	st (B11) ust (B12) invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re	Odor (C1) eres along L ed Iron (C4) tion in Tilled (C7))	` '	Water Mar Sediment Drift Depos Drainage F Dry-Seaso Thin Muck Crayfish B Saturation Shallow Ad	ks (B1) (Riverine) Deposits (B2) (Riverine) Sits (B3) (Riverine) Patterns (B10) In Water Table (C2) Surface (C7) urrows (C8) Visible on Aerial Imagery (quitard (D3)
escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: emarks: Dried biotic crust observed throughout pool.	Wetland Hydrology Indicators Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (None Sediment Deposits (B2) Drift Deposits (B3) (None Surface Soil Cracks (B6) Inundation Visible on Active Water-Stained Leaves (Citeld Observations:	riverine) (Nonriverine) (riverine)	Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E	st (B11) ust (B12) invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re	Odor (C1) eres along L ed Iron (C4) tion in Tilled (C7))	` '	Water Mar Sediment Drift Depos Drainage F Dry-Seaso Thin Muck Crayfish B Saturation Shallow Ad	ks (B1) (Riverine) Deposits (B2) (Riverine) Sits (B3) (Riverine) Patterns (B10) In Water Table (C2) Surface (C7) urrows (C8) Visible on Aerial Imagery (quitard (D3)
	Wetland Hydrology Indicators Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonimal Sediment Deposits (B2) Drift Deposits (B3) (Nonimal Surface Soil Cracks (B6) Inundation Visible on Active Water-Stained Leaves (Surface Water Present? Water Table Present?	riverine) ((Nonriverine) nriverine) (S) erial Imagery (B7 B9) Yes Yes	Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E	st (B11) ust (B12) Invertebrate In Sulfide C I Rhizosphe I Reduct	Odor (C1) eres along L ed Iron (C4) tion in Tilled (C7)	Soils (C6))	Water Mar Sediment Drift Depos Drainage F Dry-Seaso Thin Muck Crayfish B Saturation Shallow Ad FAC-Neuti	ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) on Water Table (C2) Surface (C7) urrows (C8) Visible on Aerial Imagery (quitard (D3) ral Test (D5)
	Wetland Hydrology Indicators Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonimosediment Deposits (B2) Drift Deposits (B3) (Nonimosediment Visible on Activation Visible on Activation Visible on Activation Visible Observations: Surface Water Present? Vater Table Present? Saturation Present? Saturation Present?	riverine) (Nonriverine) (Nonriverine) (S) erial Imagery (B7 B9) Yes Yes Yes Yes	Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E No Depth (inc No Depth (inc	st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re ches): ches):	odor (C1) eres along L ed Iron (C4) cion in Tilled (C7) emarks)	Soils (C6)	nd Hydrol	Water Mar Sediment Drift Depos Drainage F Dry-Seaso Thin Muck Crayfish B Saturation Shallow Ad FAC-Neuti	ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) on Water Table (C2) Surface (C7) urrows (C8) Visible on Aerial Imagery (quitard (D3) ral Test (D5)
	Wetland Hydrology Indicators Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonimal Sediment Deposits (B2) Drift Deposits (B3) (Nonimal Surface Soil Cracks (B6) Inundation Visible on Active Water-Stained Leaves (Surface Water Present? Water Table Present? Saturation Present? Saturation Present?	riverine) (Nonriverine) (Nonriverine) (S) erial Imagery (B7 B9) Yes Yes Yes Yes	Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E No Depth (inc No Depth (inc	st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re ches): ches):	odor (C1) eres along L ed Iron (C4) cion in Tilled (C7) emarks)	Soils (C6)	nd Hydrol	Water Mar Sediment Drift Depos Drainage F Dry-Seaso Thin Muck Crayfish B Saturation Shallow Ad FAC-Neuti	ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) on Water Table (C2) Surface (C7) urrows (C8) Visible on Aerial Imagery (quitard (D3) ral Test (D5)
	Wetland Hydrology Indicators Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (None Sediment Deposits (B2) Drift Deposits (B3) (None Surface Soil Cracks (B6) Inundation Visible on Ae Water-Stained Leaves (Field Observations: Surface Water Present? Vater Table Present? Saturation Present? Saturation Present? Secribe Recorded Data (streen	riverine) (Nonriverine) (Nonriverine) (S) erial Imagery (B7 B9) Yes Yes Yes Yes Yes am gauge, mon	Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E No Depth (inc No Depth (inc No Depth (inc itoring well, aerial p	st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in Re ches): ches):	odor (C1) eres along L ed Iron (C4) cion in Tilled (C7) emarks)	Soils (C6)	nd Hydrol	Water Mar Sediment Drift Depos Drainage F Dry-Seaso Thin Muck Crayfish B Saturation Shallow Ad FAC-Neuti	ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) on Water Table (C2) Surface (C7) urrows (C8) Visible on Aerial Imagery (quitard (D3) ral Test (D5)

Project/Site: San Diego Fire-Rescue Air Operations Ha	ngar	City/Count	y: San Dieg	o / San Diego	Sampling Date: N	ov 1, 2019
Applicant/Owner: City of San Diego				State: CA	Sampling Point: U	DP 8
Investigator(s): Andrew Smisek		Section,	Township, R	ange: See Remarks		
Landform (hillslope, terrace, etc.): upland		Local reli	ef (concave,	convex, none): none	Slope	(%): <u>0-2</u>
Subregion (LRR): LRR-C	Lat: -	117.1346301	1	Long: 32.8186188328	Datum:	NAD83
Soil Map Unit Name: Redding gravelly loam (RdC), 2 to	o 9 percent :	slopes		NWI classification	on: Paulstrine Emer	gent Wetland
Are climatic / hydrologic conditions on the site typical for	r this time of	year? Yes	x No	o(If no, explain in	Remarks.)	
Are Vegetation X, Soil , or Hydrology	signifi	cantly disturbe	ed? No	Are "Normal Circumstance	es" present? Yes _	x No
Are Vegetation, Soil, or Hydrology	natura	ally problemat	ic? No	(If needed, explain any ans	swers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map sh	nowing sa	mpling poin	t location	s, transects, importan	t features, etc.	
Hydrophytic Vegetation Present? Yes	No X					
Hydric Soil Present? Yes	No X		e Sampled in a Wetlan	res	No X	
Wetland Hydrology Present? Yes	No X	With	iii a vveuaii	u r		
Remarks: Paired point to WDP8 occurring in upload ju Section, Touwnship, Range: unsectioned portion of the VEGETATION – Use scientific names of plants	e Mission Sa			La Mesa and La Jolla qua	drangles	
Total Objections (Distriction	Absolute	Dominant	Indicator	Dominance Test work	sheet:	
Tree Stratum (Plot size:) 1.	% Cover	Species?	Status	Number of Dominant Sp		(4)
2.				That Are OBL, FACW, of Total Number of Domina) (A)
3.				Species Across All Stra		(B)
4.				Percent of Dominant Sp	ecies	
		= Total Cove	r	That Are OBL, FACW, o	or FAC: 0	(A/B)
Sapling/Shrub Stratum (Plot size:)						
1.				Prevalence Index worl	rsheet:	
2				Total % Cover of:	Multiply	by:
3				OBL species	x 1 =	
4				FACW species	x 2 =	
5				FAC species	x 3 =	
		= Total Cove	r	FACU species	x 4 =	
Herb Stratum (Plot size:)	50		E4011	UPL species	x 5 =	
1. Bromus madritensis	50	Yes	FACU	Column Totals:	(A)	(B)
Deinandra fasciculata Dittrichia graveolens	<u>10</u>	No No	FACU UPL	Prevalence Inde	x = B/A =	
Dittictila graveoleris Lythrum hyssopifolium	2	No	OBL	Hydrophytic Vegetation	n Indicators:	
5			UBL	Dominance Test		
				Prevalence Index		
7					aptations ¹ (Provide	supporting
8.					ks or on a separate	
	67	= Total Cov	er	Problematic Hvdr	ophytic Vegetation ¹	(Explain)
Woody Vine Stratum (Plot size:)					. , .	(
1				¹ Indicators of hydric so be present, unless dist	il and wetland hydro	ology must
2.				be present, unless dist	urbed or problemati	C.
% Bare Ground in Herb Stratum % Co	ver of Biotic	= Total Cove	r	Hydrophytic Vegetation Present?	es No	X
	VEI UI DIUIIC	Olusi	,	i resent:	es No	^
Remarks: Vegetation has been recently mowed.						

SOIL Sampling Point: <u>UDP 8</u>

Depth	Matri	_	h needed to docum Re	edox Featu			480011	- 		,		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Tex	ture		Rem	narks	
0-3	5YR 3/3	75	5YR 4/6	15	С	М	sandy o	lay	some gr	avel mixed e	l in and o	rganics
	_											
-	_				·							
-	_								-			
	_											
¹ Type: C=C	oncentration, D=Deple	etion, RM=Redu	ced Matrix, CS=Covere	d or Coated	Sand Grains		² Location: P	L=Pore	_ining, RC=	Root Chann	el, M=Mat	rix.
Hydric So	il Indicators: (App	licable to all	LRRs, unless other	rwise note	ed.)					natic Hydr		
Histos	ol (A1)		Sandy I	Redox (S5)		1	cm Mu	ck (A9) (L l	RR C)		
	Epipedon (A2)			d Matrix (S					ck (A10) (I			
	Histic (A3)			Mucky Mir	,				Vertic (F1			
— Hydro	gen Sulfide (A4)		Loamy	Gleyed Ma	atrix (F2)				ent Materia			
Stratifi	ed Layers (A5) (LR	R C)	Deplete	d Matrix (F	- 3)			ther (E	φlain in R	emarks)		
1 cm N	Muck (A9) (LRR D)		Redox I	Dark Surfa	ce (F6)			,		,		
Deplet	ted Below Dark Surf	face (A11)	Deplete	d Dark Su	rface (F7)							
Thick I	Dark Surface (A12)		Redox I	Depression	ns (F8)		³ Indica	ators of	hydrophy	ic vegetat	on and	
Sandy	Mucky Mineral (S1)		Pools (F9)	, ,					nust be pr		
	Gleyed Matrix (S4)	•		` ,						problemat		
	Layer (if present)											
Type: h	ard rock/compact s	oil										
Depth (in	iches): 3						Hydric S	oil Pres	ent?	Yes	No	X
HYDROLO	DGY	-										
		roi						Sana	ndory Ind	icatora (2	or more	roguiros
	Hydrology Indicato		d; check all that app	lv)						icators (2 s (B1) (Ri v		required
	,	or one require	•	*,						eposits (B		ino)
	ce Water (A1)		Salt Crus	` '							, ,	iiie)
	Vater Table (A2)		Biotic Cr	` '	(5.40)					ts (B3) (Ri		
	ation (A3)		 ·	nvertebrat	. ,				_	atterns (B1		
	Marks (B1) (Nonri	•	Hydroge	n Sulfide C	Odor (C1)			D	ry-Season	Water Ta	ble (C2)	
Sedim	nent Deposits (B2) (Nonriverine)	Oxidized	Rhizosph	eres along l	_iving R	oots (C3)	T	nin Muck S	Surface (C	7)	
Drift D	eposits (B3) (Nonri	iverine)	Presence	e of Reduc	ed Iron (C4)		C	rayfish Bu	rrows (C8)		
Surfac	ce Soil Cracks (B6)		Recent I	ron Reduc	tion in Tilled	Soils (0	26)	s	aturation \	isible on A	Aerial Ima	gery (C9
Inunda	ation Visible on Aeri	ial Imagery (B	7) Thin Muc	ck Surface	(C7)			S	nallow Aqı	uitard (D3)		
Water	-Stained Leaves (B	9)	Other (E	xplain in R	emarks)			F	AC-Neutra	l Test (D5)	
Field Obse												
Surface Wa	ater Present?	Yes	No X Depth (inc			_						
Water Tabl	e Present?	Yes	No X Depth (inc	:hes):		_						
Saturation (includes or	Present? apillary fringe)	Yes	No X Depth (inc	hes):		_ Wet	land Hydro	ology P	resent?	Yes	No	X
		m gauge, mo	nitoring well, aerial pl	hotos, prev	vious inspec	tions), it	available:					
Remarks: N	lo hydrology indicat	ors observed										

Project/Site: San Diego Fire-Rescue Air Operations Ha	ngar	City/Coun	ty: San Dieg	o / San Diego	Sampling Date: No	ov 1, 2019
Applicant/Owner: City of San Diego				State: CA	Sampling Point: W	DP 8
Investigator(s): Andrew Smisek		Section,	Township, R	ange: See Remarks		
Landform (hillslope, terrace, etc.):		Local rel	ief (concave,	convex, none): concave	Slope (%): <u>0-2</u>
			53	Long: 32.818590863	Datum: N	IAD83
Soil Map Unit Name: Redding gravelly loam (RdC), 2 to	o 9 percent s	slopes		NWI classification	on: Paulstrine Emerç	gent Wetland
Are climatic / hydrologic conditions on the site typical for	r this time of	year? Yes	x No	o(If no, explain in	Remarks.)	
Are Vegetation X, Soil , or Hydrology	signifi	cantly disturb	ed? No	Are "Normal Circumstance	es" present? Yes	x No
Are Vegetation, Soil, or Hydrology	natura	ally problemat	ic? No	(If needed, explain any ans	swers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map sh	nowing sa	mpling poir	nt locations	s, transects, importan	t features, etc.	
Hydrophytic Vegetation Present? Yes X	No					
Hydric Soil Present? Yes X	No		ne Sampled nin a Wetlan	YAS	X No	
Wetland Hydrology Present? Yes X	No	With	iiii a vvetiaii	u:		
Remarks: Sample point occurs in a known vernal pool Section, Touwnship, Range: unsectioned portion of the Known presence of San Diego Fairy Shrimp VEGETATION – Use scientific names of plants	e Mission Sa		grant on the	La Mesa and La Jolla qua	drangles.	
	Absolute	Dominant	Indicator	Dominance Test work	sheet:	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Sp		
1				That Are OBL, FACW, o	-	(A)
2. 3.				Total Number of Domina Species Across All Strat	to	(5)
4.				Percent of Dominant Sp		(B)
Sapling/Shrub Stratum (Plot size:)		= Total Cove	er	That Are OBL, FACW, o		(A/B)
1.				Prevalence Index worl	ksheet:	
2.				Total % Cover of:	Multiply b	y:
3.				OBL species	x 1 =	
4.				FACW species	x 2 =	
5.				FAC species	x 3 =	
		= Total Cove	er	FACU species	x 4 =	
Herb Stratum (Plot size:)				UPL species	x 5 =	
Psilocarphus brevissimus	30	Yes	FACW	Column Totals:	(A)	(B)
2. Lythrum hyssopifolia	10	Yes	OBL	Prevalence Inde	x = B/A =	
3. Dittrichia graveolens	10	Yes	UPL		•	
4. Deinandra fasciculata	3	No	FACU	Hydrophytic Vegetation		
5				X Dominance Test		
6.				Prevalence Index		
7. 8.					laptations ¹ (Provide s ks or on a separate s	
0	53	= Total Cov	er		ophytic Vegetation ¹ (,
Woody Vine Stratum (Plot size:)		- 10tai 00V	OI .	Froblematic Hydr	opriyiic vegetation (_ кріаіі і)
				¹ Indicators of hydric so	il and wetland hydrol	oav must
2.				be present, unless dist	urbed or problematic	;.
		= Total Cove	er	Hydrophytic Vegetation		
	ver of Biotic	Crust			es X No_	
Remarks: Vegetation has been recently mowed. Vernal pool indicator specicies present.						

SOIL Sampling Point: WDP 8

1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. 1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. 1 Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) 1 Histosol (A1) 1 Histosol (A2) 2 Histic Epipedon (A2) 3 Black Histic (A3) 4 Hydrogen Sulfide (A4) 5 Stripped Matrix (S6) 5 Black Histic (A3) 6 Hydrogen Sulfide (A4) 7 Depleted Matrix (F2) 7 Stratified Layers (A5) (LRR C) 7 Depleted Matrix (F3) 7 Depleted Below Dark Surface (A11) 7 Depleted Dark Surface (F6) 7 Depleted Below Dark Surface (A11) 8 Sandy Mucky Mineral (S1) 8 Sandy Mucky Mineral (S1) 8 Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type:	rexture Remarks organics at surface organics at surface replace Pore Lining, RC=Root Channel, M=Matrix. licators for Problematic Hydric Soils ³ : 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Coanceptration Coan	n: PL=Pore Lining, RC=Root Channel, M=Matrix. licators for Problematic Hydric Soils ³ : 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present,
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Below Dark Surface (A11) Sandy Redox (S5) Hodrogen Sulfide (A4) Stratified Layers (A5) (LRR D) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (F1) Sandy Mucky Mineral (F2) Sandy Mucky Mineral (S1) Sandy Redox Depressions (F8) Finick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Setrictive Layer (if present): Type: Depth (inches): Hydricemarks: Redox features obvious and observed throughout sample. Only dug 2 inches due to vernal processions (F8) Finick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Wernal Pools (F9) Finick Dark Surface (A12) Sandy Mucky Mineral (S1) Wernal Pools (F9) Hydricemarks: Redox features obvious and observed throughout sample. Only dug 2 inches due to vernal processions (F8) Finick Dark Surface (A1) Salt Crust (B11) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	licators for Problematic Hydric Soils ³ : _1 cm Muck (A9) (LRR C) _2 cm Muck (A10) (LRR B) _Reduced Vertic (F18) _Red Parent Material (TF2) _Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present,
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Sandy Redox (S5) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Straiffied Layers (A5) (LRR C) Depleted Matrix (F2) Stratified Layers (A5) (LRR D) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Setrictive Layer (if present): Type: Depth (inches): Hydri Bemarks: Redox features obvious and observed throughout sample. Only dug 2 inches due to vernal point of the property o	licators for Problematic Hydric Soils ³ : _1 cm Muck (A9) (LRR C) _2 cm Muck (A10) (LRR B) _Reduced Vertic (F18) _Red Parent Material (TF2) _Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present,
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Stripped Matrix (S6) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Stratified Layers (A5) (LRR D) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Setrictive Layer (if present): Type: Depth (inches): Depth (inches): Depth (inches): Depth (inches): Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Setrictive Layer (if present): Type: Depth (inches): Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Setrictive Layer (if present): Type: Depth (inches): Sandy Gleyed Matrix (S4) Setrictive Layer (if present): Type: Depth (inches): Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Saturations (Minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	licators for Problematic Hydric Soils ³ : _1 cm Muck (A9) (LRR C) _2 cm Muck (A10) (LRR B) _Reduced Vertic (F18) _Red Parent Material (TF2) _Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present,
Algoric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Sandy Redox (S5) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) Depleted Matrix (F2) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Estrictive Layer (if present): Type: Depth (inches): Hydricators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Loamy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Mucky Mineral (F1) Loamy Mucky Mineral (F1) Loamy Mucky Surface (F6) Depleted Dark Surface (F6) Depleted Dark Surface (F7) X Redox Dark Surface (F7) Yernal Pools (F9) Hydricators (F9) Finany Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	licators for Problematic Hydric Soils ³ : _1 cm Muck (A9) (LRR C) _2 cm Muck (A10) (LRR B) _Reduced Vertic (F18) _Red Parent Material (TF2) _Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present,
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Below Dark Surface (A11) Sandy Redox (S5) Hodrogen Sulfide (A4) Stratified Layers (A5) (LRR D) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (F1) Sandy Mucky Mineral (F2) Sandy Mucky Mineral (S1) Sandy Redox Depressions (F8) Finick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Setrictive Layer (if present): Type: Depth (inches): Hydricemarks: Redox features obvious and observed throughout sample. Only dug 2 inches due to vernal processions (F8) Finick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Wernal Pools (F9) Finick Dark Surface (A12) Sandy Mucky Mineral (S1) Wernal Pools (F9) Hydricemarks: Redox features obvious and observed throughout sample. Only dug 2 inches due to vernal processions (F8) Finick Dark Surface (A1) Salt Crust (B11) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	licators for Problematic Hydric Soils ³ : _1 cm Muck (A9) (LRR C) _2 cm Muck (A10) (LRR B) _Reduced Vertic (F18) _Red Parent Material (TF2) _Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present,
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Straiffied Layers (A5) (LRR C) Depleted Matrix (F2) Stratified Layers (A5) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (F3) Poppleted Dark Surface (F6) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Vernal Pools (F9) Restrictive Layer (if present): Type: Depth (inches): Hydridemarks: Redox features obvious and observed throughout sample. Only dug 2 inches due to vernal sample. Only dug 2 inches due to vernal sample. Sample (A11) Formary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Mucky Mineral (F1) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F2) Poppleted Matrix (F2) Depleted Matrix (F3) Popleted Matrix (F3) Depleted Matrix (F3) Popleted Matrix (F3) Popleted Matrix (F3) Depleted Matrix (F3) Popleted Dark Surface (F6) Popleted Dark Su	2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present,
Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) X Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Hydri Remarks: Redox features obvious and observed throughout sample. Only dug 2 inches due to vernal pools (F9) Surface Water (A1) Salt Crust (B11) High Water Table (A2) X Biotic Crust (B12) Saturation (A3) X Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present,
Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Remarks: Redox features obvious and observed throughout sample. Only dug 2 inches due to vernal surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F6) Depleted Dark Surface (F6) Prepleted Dark Surface (F6) Pepleted Dark Surface (F6) Depleted Matrix (F2) Prepleted Matrix (F3) Redox Dark Surface (F6) Depleted Matrix (F2) Prepleted Matrix (F2) Pepleted Matrix (F2) Redox Dark Surface (F6) Depleted Matrix (F2) Pepleted Matrix (F3) Redox Dark Surface (F6) Depleted Matrix (F2) Pepleted Matrix (F3) Redox Dark Surface (F6) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F6) Depleted Dark Surface (F6) Pepleted Dark Surface (F6) Depleted Dark Surface (F6) Pepleted Dark Surface (F6) Depleted Dark Surface (F6) Pepleted Dark Surface (F1) Redox Dark Surface (F1) Re	Red Parent Material (TF2) Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present,
Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Depleted Layer (if present): Type: Depth (inches): Dept	Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present,
1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) X Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4) Sestrictive Layer (if present): Type: Depth (inches): Dept	dicators of hydrophytic vegetation and wetland hydrology must be present,
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Remarks: Redox features obvious and observed throughout sample. Only dug 2 inches due to vernal hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Depleted Dark Surface (F7) X Redox Depressions (F8) Vernal Pools (F9) Vernal Pools (F9) Hydrid A Redox Depressions (F8) Vernal Pools (F9) Saturation (A12) X Redox Depressions (F8) Vernal Pools (F9) Saturation (A12) X Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	wetland hydrology must be present,
Thick Dark Surface (A12) X Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sestrictive Layer (if present): Type: Depth (inches): Remarks: Redox features obvious and observed throughout sample. Only dug 2 inches due to vernal demarks: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) X Biotic Crust (B12) Saturation (A3) X Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	wetland hydrology must be present,
Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4) Lestrictive Layer (if present): Type: Depth (inches): Hydri Lemarks: Redox features obvious and observed throughout sample. Only dug 2 inches due to vernal Lemarks: Redox features obvious and observed throughout sample. Only dug 2 inches due to vernal Lemarks: Redox features obvious and observed throughout sample. Only dug 2 inches due to vernal Lemarks: Redox features obvious and observed throughout sample. Only dug 2 inches due to vernal Lemarks: Redox features obvious and observed throughout sample. Only dug 2 inches due to vernal Lemarks: Redox features obvious and observed throughout sample. Only dug 2 inches due to vernal Lemarks: Redox features obvious and observed throughout sample. Only dug 2 inches due to vernal Lemarks: Redox features obvious and observed throughout sample. Only dug 2 inches due to vernal Lemarks: Redox features obvious and observed throughout sample. Only dug 2 inches due to vernal Lemarks: Redox features obvious and observed throughout sample. Only dug 2 inches due to vernal Lemarks: Redox features obvious and observed throughout sample. Only dug 2 inches due to vernal Lemarks: Redox features obvious and observed throughout sample. Only dug 2 inches due to vernal Lemarks: Redox features obvious and observed throughout sample. Only dug 2 inches due to vernal Lemarks: Redox features obvious and observed throughout sample. Only dug 2 inches due to vernal Lemarks: Redox features obvious and observed throughout sample. Only dug 2 inches due to vernal Lemarks: Redox features obvious and observed throughout sample. Only dug 2 inches due to vernal Lemarks: Redox features obvious and observed throughout sample. Only dug 2 inches due to vernal Lemarks: Redox features obvious and observed throughout sample. Only dug 2 inches due to vernal Lemarks: Redox features obvious and observed throughout sample. Only dug 2 inches due to vernal Lemarks: Redox features obvious and observed throu	wetland hydrology must be present,
Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Depth (inches): Remarks: Redox features obvious and observed throughout sample. Only dug 2 inches due to vernal depth of the sample	
Type:	
Poepth (inches): Hydri emarks: Redox features obvious and observed throughout sample. Only dug 2 inches due to verna **TOROLOGY** Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1)	
emarks: Redox features obvious and observed throughout sample. Only dug 2 inches due to verna (**DROLOGY** Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) A qualic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) YDROLOGY Salt Crust (B11) X Biotic Crust (B12) X Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Soil Present? Yes X No
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Saturation (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Salt Crust (B11) X Biotic Crust (B12) X Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Secondary Indicators (2 or more reg
Surface Water (A1) Salt Crust (B11) High Water Table (A2) Side Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Secondary Indicators (2 or more requestre Marks (B1) (Riverine)
High Water Table (A2)	
Saturation (A3) Water Marks (B1) (Nonriverine) X Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	
	Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine) — Oxidized Knizospheres along Living Roots (C.	Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	· — · · ·
<u> </u>	Crayfish Burrows (C8)
Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Thin Music Surface (C7)	Saturation Visible on Aerial Imagery
Inundation Visible on Aerial Imagery (B7)Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks)	Shallow Aquitard (D3) FAC-Neutral Test (D5)
ield Observations:	
Surface Water Present? Yes No Depth (inches):	
Vater Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches): Wetland Hy ncludes capillary fringe)	
escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available	drology Present? Yes X No
emarks: Dried biotic crust observed throughout pool.	
nown presence of San Diego fairy shrimp.	
town prosonce or oan piego fairy smillip.	

Project/Site: San Diego Fire-Rescue Air Operations Ha	ngar	City/Coun	ity: San Dieg	o / San Diego	Sampling Date: Nov 1, 2019		
Applicant/Owner: City of San Diego State: CA Sampling Point: UDP 9/10							
Investigator(s): Andrew Smisek		Section,	Township, R	ange: See Remarks			
Landform (hillslope, terrace, etc.): upland		Local rel	ief (concave,	convex, none): none	Slope (%): <u>0-2</u>		
Subregion (LRR): LRR-C	Lat: -	-117.1352797	73	Long: 32.8187663103	Datum: NAD83		
Soil Map Unit Name: Redding gravelly loam (RdC), 2 to	o 9 percent	slopes		NWI classificatio	n: Paulstrine Emergent Wetland	t	
Are climatic / hydrologic conditions on the site typical for	r this time of	year? Yes	xNo	(If no, explain in	Remarks.)		
Are Vegetation X, Soil , or Hydrology	signifi	cantly disturb	ed? No /	Are "Normal Circumstance	s" present? Yes x No		
Are Vegetation, Soil, or Hydrology	natura	ally problemat	tic? No ((If needed, explain any ans	wers in Remarks.)		
SUMMARY OF FINDINGS – Attach site map sh	nowing sa	mpling poir	nt locations	s, transects, important	features, etc.		
Hydrophytic Vegetation Present? Yes	No X						
Hydric Soil Present? Yes	No X		ne Sampled	Yes	No X		
Wetland Hydrology Present? Yes	No X	— with	nin a Wetland	u? ——	<u> </u>		
Remarks: Paired point to WDP9 and WDP10 occurrin access road. Section, Touwnship, Range: unsectioned VEGETATION – Use scientific names of plants	portion of the						
•	Absolute	Dominant	Indicator	Dominance Test works	sheet:		
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Sp			
1. 2.				That Are OBL, FACW, o			
3.				Total Number of Domina Species Across All Strati	•		
4.	-			Percent of Dominant Spe	(D)		
		= Total Cove	er	That Are OBL, FACW, o			
Sapling/Shrub Stratum (Plot size:)		. 510 5576					
1.				Prevalence Index work	sheet:		
2.				Total % Cover of:	Multiply by:		
3.				OBL species	x 1 =		
4.				FACW species	x 2 =		
5				FAC species	x 3 =		
		= Total Cove	er	FACU species	x 4 =		
Herb Stratum (Plot size:)				UPL species	x 5 =		
1. Bromus madritensis	50	Yes	FACU	Column Totals:	(B)		
2. Deinandra fasciculata		No No	FACU	Prevalence Index	x = B/A =		
3. Dittrichia graveolens	5	No No	UPL	Hudranbudia Vanatatia	u lu dia ataua		
4. Pennisetum setaceum 5.	5	No	NI	Hydrophytic Vegetation			
6.				Dominance Test is			
7.				Prevalence Index	is ≤3.0 aptations¹ (Provide supporting		
8.					ks or on a separate sheet)		
	70	= Total Cov	/er		ophytic Vegetation¹ (Explain)		
Woody Vine Stratum (Plot size:)				r robicinatio riyare	phytic vegetation (Explain)		
1.				¹ Indicators of hydric soi be present, unless distu	l and wetland hydrology must		
2				•			
% Bare Ground in Herb Stratum % Co	ver of Biotic	= Total Cove	er	Hydrophytic Vegetation Present? Ye	es No X		
Remarks: Vegetation has been recently mowed.							
. togadan nad soon todaray moved.							

Loc²

Texture

Remarks

Redox Features

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Color (moist)

Depth

(inches)

Matrix

%

Color (moist)

0-3	7.51K 4/3	100		loam	much grav	ei mixea in		
3-8	7.5YR 3/3	95		sandy o	clay			
								
¹ Type: C=	Concentration, D=Dep	letion, RM=Reduced	Matrix, CS=Covered or Coated Sand Grains.	Location: F	PL=Pore Lining, RC=Ro	oot Channel, M=Matrix.		
Hydric S	Soil Indicators: (Ap	plicable to all LR	Rs, unless otherwise noted.)		ators for Problema			
	osol (A1)		Sandy Redox (S5)		cm Muck (A9) (LRF			
	c Epipedon (A2)		Stripped Matrix (S6)		cm Muck (A10) (LR	•		
	k Histic (A3)		Loamy Mucky Mineral (F1)		educed Vertic (F18)			
	ogen Sulfide (A4)	BB C\	Loamy Gleyed Matrix (F2)		ed Parent Material	,		
	tified Layers (A5) (L l n Muck (A9) (LRR D	,	Depleted Matrix (F3) Redox Dark Surface (F6)		other (Explain in Rer	naiks)		
	eted Below Dark Su		Depleted Dark Surface (F7)					
	k Dark Surface (A12	` ,	Redox Depressions (F8)	³ Indic	ators of hydrophytic	vegetation and		
	dy Mucky Mineral (S		Vernal Pools (F9)		etland hydrology mu	•		
	dy Gleyed Matrix (S				nless disturbed or pr			
Restricti	ve Layer (if presen	t):						
Type:	hard rock/compact	soil						
Depth ((inches): 8			Hydric S	oil Present? Ye	es No X		
HYDROL								
	I Hydrology Indicat					ators (2 or more required)		
	Indicators (minimum	n of one required; of	11 2/			(B1) (Riverine)		
	ace Water (A1)		Salt Crust (B11)			oosits (B2) (Riverine)		
	Water Table (A2)		Biotic Crust (B12)		Drift Deposits (B3) (Riverine)			
	ration (A3)		Aquatic Invertebrates (B13)		Drainage Patterns (B10) Dry-Season Water Table (C2)			
	er Marks (B1) (Noni	,	Hydrogen Sulfide Odor (C1)			` '		
	iment Deposits (B2)		Oxidized Rhizospheres along L	• , ,	Thin Muck Su			
	Deposits (B3) (Non		Presence of Reduced Iron (C4)		Crayfish Burro	ows (C8) ible on Aerial Imagery (C9)		
	ace Soil Cracks (B6 dation Visible on Ae		Recent Iron Reduction in Tilled	3011S (C6)		• • • •		
	er-Stained Leaves (Thin Muck Surface (C7) Other (Explain in Remarks)		Shallow Aquita FAC-Neutral 1			
	`		Other (Explain in Nemarks)		I AC-Neutral			
	servations:	V NI	N. Darth (rack as)					
	Vater Present?		Depth (inches):	_				
	ble Present?		Depth (inches):	_	ology Present?	Vac No V		
	n Present? capillary fringe)	res in	o X Depth (inches):	_ vveuand nydro	ology Fresent?	YesNoX		
		am gauge, monito	ring well, aerial photos, previous inspec	tions), if available:				
	`			,.				
kemarks:	No hydrology indica	ators observed						
JS Army (Corps of Engineers					Arid West – Version 2.0		

Project/Site: San Diego Fire-Rescue	Air Operations Ha	angar	City/Coun	ty: <u>San Dieg</u>	o / San Diego	Sampling Date	e: Nov 1, 2019
Applicant/Owner: City of San Diego					State: CA	Sampling Poir	nt: WDP 9
Investigator(s): Andrew Smisek				Township, R	Range: See Remarks		
Landform (hillslope, terrace, etc.):					, convex, none): concave	SI	lope (%): <u>0-2</u>
Subregion (LRR): LRR-C		Lat:	-117.1353462	6	Long: <u>32.8187800008</u>	Dat	tum: NAD83
Soil Map Unit Name: Redding grave	lly loam (RdC), 2 t	to 9 percent	slopes		NWI classificat	ion: Paulstrine I	Emergent Wetland
Are climatic / hydrologic conditions or	n the site typical fo	or this time o	f year? Yes	x No	o(If no, explain i	n Remarks.)	
Are Vegetation X, Soil					Are "Normal Circumstand	es" present? Ye	es <u>x</u> No
Are Vegetation, Soil	<u>,</u> or Hydrology _	natur	ally problemat	ic? No	(If needed, explain any ar	nswers in Remai	rks.)
SUMMARY OF FINDINGS – Atta	ach site map sl	howing sa	mpling poir	nt location	s, transects, importa	nt features, et	tc.
Hydrophytic Vegetation Present?	Yes X	No	lo th	e Sampled	Aron		
Hydric Soil Present?	Yes X	No		ie Sampieu iin a Wetlan	YAS	X No	
Wetland Hydrology Present?	Yes X	No	_				
Section, Touwnship, Range: unsecti VEGETATION – Use scientific I		s.				-	
<u>Tree Stratum</u> (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worl		
1.				Clarao	Number of Dominant S That Are OBL, FACW,		2 (A)
2.					Total Number of Domir		(۲)
3.		· 			Species Across All Stra	ata:	2 (B)
4.					Percent of Dominant S	•	400 (A/D)
			= Total Cove	er	That Are OBL, FACW,	or FAC:	100 (A/B)
Sapling/Shrub Stratum (Plot size:)						
1					Prevalence Index wo		
2.					Total % Cover of:		Itiply by:
3.		-			OBL species		
4.					FACW species FAC species		
5		-	= Total Cove	\r	FACU species		
Herb Stratum (Plot size:)		= Total Cove	;I	UPL species		
Psilocarphus brevissimus	′	20	Yes	FACW	Column Totals:	(A)	(B)
2. Lythrum hyssopifolia		10	Yes	OBL		ex = B/A =	
3.							
4.					Hydrophytic Vegetati		
5.		-			Dominance Test		
6.					Prevalence Inde		
7.		· 			Morphological A	daptations' (Pro arks or on a sepa	
8		30	= Total Cov	or	Problematic Hyd	•	•
Woody Vine Stratum (Plot size:)		= 10tai C0v	GI	Problematic Hyd	ropriyiic vegeta	mon (Explain)
1.					¹ Indicators of hydric s	oil and wetland I	hydrology must
2.					be present, unless dis	sturbed or proble	ematic.
			= Total Cove	er	Hydrophytic		
% Bare Ground in Herb Stratum	% Ca	over of Biotic	: Crust		Vegetation Present?	res X I	No
Remarks: Vegetation has been rece							· <u></u>
Vernal pool indicator specicies preser							
· · · · · · · · · · · · · · · · · · ·							

Depth	Matrix			edox Featu			_				
(inches)	Color (moist)	<u></u> %	Color (moist)	<u>%</u>	Type ¹	Loc ²	Text	ure		Remai	ks
0-3	5YR 3/2	70	2.5YR 3/6	15	C	M	sandy o	lay	some gra	evel on surfa	ice
							_				
							_				
		· ·			· —— -		_				
							_				
	oncentration, D=Depletion					i. ²				Root Channel	
Histoso	`	abic to all E	•	Redox (S5)	•				ck (A9) (LR	-	CONS .
	Epipedon (A2)			d Matrix (S					ck (A3) (L 1)	,	
	Histic (A3)			Mucky Min	•				Vertic (F1		
— Hydrog	gen Sulfide (A4)			Gleyed Ma					ent Materia		
Stratifie	ed Layers (A5) (LRR (C)	Deplete	ed Matrix (F	3)		o	ther (E	φlain in Re	emarks)	
1 cm N	Muck (A9) (LRR D)		Redox	Dark Surfa	ce (F6)						
	ed Below Dark Surfac	e (A11)		ed Dark Su	` ,		•				
	Dark Surface (A12)		X Redox		ns (F8)					c vegetatior	
	Mucky Mineral (S1) Gleyed Matrix (S4)		Vernal	Pools (F9)						ust be pres problematic.	ent,
	Layer (if present):										
Type: Depth (in											
Remarks:	Redox features obvio	us and obse	erved throughout sa	mple. Only	dug 3 inch	es due to	Hydric So vernal po			/es <u>X</u>	No
	Redox features obvio	us and obse	erved throughout sa	mple. Only	dug 3 inch	es due to	,			65 <u>X</u>	110
YDROLO	Redox features obvio		erved throughout sa	mple. Only	dug 3 inch	es due to	,	ol sens	itivity.		
YDROLO Wetland H	Redox features obvio	:			dug 3 inch	es due to	,	ol sens	itivity.	cators (2 o	more require
YDROLO Wetland H	Redox features obvio	:	l; check all that app	ly)	dug 3 inch	es due to	,	SecoW	ndary Indi ater Marks	cators (2 or	more require
YDROLO Wetland H Primary Ind Surfac	Redox features obvio	:	l; check all that app	uly) st (B11)	dug 3 inch	es due to	,	Seco	ndary India ater Marks	cators (2 or	more require
YDROLO Wetland H Primary Inc Surfac High V	Redox features obvious PGY Hydrology Indicators dicators (minimum of the Water (A1) Vater Table (A2)	:	t; check all that app Salt Crus _X_Biotic Cr	ly) st (B11) ust (B12)		es due to	,	Seco	ndary India dater Marks ediment De rift Deposit	cators (2 or (B1) (River eposits (B2) s (B3) (River	more require rine) (Riverine) rine)
YDROLO Wetland H Primary Ind Surfac High V Satura	Redox features obvious Redox features (Minimum of Redox features obvious (Minimum of Redox features obvious Redox features (Minimum of Redox fe	: one required	l; check all that app Salt Crus X Biotic Cr Aquatic I	oly) st (B11) ust (B12) Invertebrate	es (B13)	es due to	,	Seco W	ndary India dater Marks ediment De rift Deposit rainage Pa	cators (2 or (B1) (River eposits (B2) s (B3) (River tterns (B10)	more require rine) (Riverine) rine)
YDROLO Wetland H Primary Inc Surfac High W Satura Water	Redox features obvious Redox features obvious Redox features obvious Redox features obvious Redox (minimum of the Water (A1) Vater Table (A2) Intion (A3) Marks (B1) (Nonriver	: one required	l; check all that app Salt Crus X Biotic Cr Aquatic I	lly) st (B11) ust (B12) Invertebrat n Sulfide C	es (B13) Odor (C1)		o vernal po	Seco W S	ndary India dater Marks ediment De rift Deposit rainage Pa ry-Season	cators (2 or (B1) (River eposits (B2) s (B3) (River tterns (B10) Water Table	more require rine) (Riverine) rine)
YDROLO Wetland H Primary Ind Surfact High W Satura Water Sedim	Redox features obvious Redox features obvious Redox features obvious Redox features obvious Redox features (Minimum of Albert (Matter Table (M	: one required rine) onriverine)	l; check all that app Salt Crus X Biotic Cr Aquatic I Hydroge Oxidized	oly) st (B11) ust (B12) Invertebrate n Sulfide C	es (B13) Odor (C1) eres along	Living Ro	o vernal po	Seco W S D D T	ndary India dater Marks ediment De rift Deposit rainage Pa ry-Season nin Muck S	cators (2 or (B1) (River eposits (B2) s (B3) (River tterns (B10) Water Table urface (C7)	more require rine) (Riverine) rine)
YDROLO Wetland H Primary Ind Surfac High W Satura Water Sedim Drift D	Redox features obvious Redox features obvious Redox features obvious Redox features obvious Redox features (minimum of the Water (A1) Vater Table (A2) Ation (A3) Marks (B1) (Nonrivelent Deposits (B2) (Norriveleposits (B3) (Nonriveleposits (B3	: one required rine) onriverine)	d; check all that app Salt Crus X Biotic Cr Aquatic I Hydroge Oxidized	ly) st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduc	es (B13) Odor (C1) eres along ed Iron (C4	Living Ro	o vernal po	Seco W S D D TI	ndary India dater Marks ediment Derift Deposit rainage Pary-Season nin Muck S	cators (2 or (B1) (River eposits (B2) s (B3) (River tterns (B10) Water Table urface (C7) rows (C8)	more require rine) (Riverine) rine)
YDROLO Wetland H Primary Inc Surfac High W Satura Water Sedim Drift D Surfac	Redox features obvious Redox features obvious Redox features obvious Redox features obvious Redox (minimum of the Water (A1) Vater Table (A2) Ation (A3) Marks (B1) (Nonriverse (B2) (Nonriverse Soil Cracks (B6)	: one required rine) onriverine) erine)	d; check all that app Salt Crus X Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I	oly) st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduc	es (B13) odor (C1) eres along ed Iron (C4 cion in Tilled	Living Ro	o vernal po	Seco W S D D TI	ndary India dater Marks ediment Derift Deposite rainage Pary-Season nin Muck Serayfish Bure	cators (2 or is (B1) (River eposits (B2) is (B3) (River tterns (B10) Water Table urface (C7) rows (C8) isible on Ae	more require rine) (Riverine) rine)
YDROLO Wetland H Primary Ind Surface High W Satura Water Sedim Drift D Surface Inunda	Redox features obvious Redox features obvious Redox features obvious Redox features obvious Redox features (minimum of the Water (A1) Vater Table (A2) Ation (A3) Marks (B1) (Nonrivelent Deposits (B2) (Norriveleposits (B3) (Nonriveleposits (B3	: one required rine) onriverine) erine)	I; check all that app Salt Crus X Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I	ly) st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduc	es (B13) odor (C1) eres along ed Iron (C4 cion in Tilled (C7)	Living Ro	o vernal po	Seco	ndary India dater Marks ediment Derift Deposit rainage Pary-Season nin Muck S	cators (2 or (B1) (River posits (B2) s (B3) (River tterns (B10) Water Table urface (C7) rows (C8) isible on Ae itard (D3)	more require rine) (Riverine) rine)
YDROLO Wetland H Primary Ind Surface High W Satura Water Sedim Drift D Surface Inunda Water- Field Obse	Redox features obvious Redox features obvious Redox features obvious Redox features obvious Redox (minimum of the Water (A1) Vater Table (A2) Ation (A3) Marks (B1) (Nonriverse (B2) (Nonriverse Soil Cracks (B6) Ation Visible on Aerial Stained Leaves (B9) Provations:	: one required rine) onriverine) erine) Imagery (B7	I; check all that app Salt Crus X Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc	ly) st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in R	es (B13) odor (C1) eres along ed Iron (C4 cion in Tilled (C7)	Living Ro	o vernal po	Seco	ndary India dater Marks ediment De rift Deposit rainage Pa ry-Season nin Muck S rayfish Bur aturation V nallow Aqu	cators (2 or (B1) (River posits (B2) s (B3) (River tterns (B10) Water Table urface (C7) rows (C8) isible on Ae itard (D3)	more require rine) (Riverine) rine)
YDROLO Wetland H Primary Ind Surface High W Satura Water Sedim Drift D Surface Inunda Water- Field Obse	Redox features obvious Redox features obvious Redox features obvious Redox features obvious Redox (minimum of the Water (A1) Vater Table (A2) Intion (A3) Marks (B1) (Nonriverse (B2) (Nonriverse Soil Cracks (B6) Intion Visible on Aerial Redox (B9) Redox features obvious Redox (B9) Redox features Redox (B9) Redox (B9) Redox features Redox (B9)	: one required rine) onriverine) erine) Imagery (B7	I; check all that app Salt Crus X Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E	ly) st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in R	es (B13) odor (C1) eres along ed Iron (C4 cion in Tilled (C7)	Living Ro	o vernal po	Seco	ndary India dater Marks ediment De rift Deposit rainage Pa ry-Season nin Muck S rayfish Bur aturation V nallow Aqu	cators (2 or (B1) (River posits (B2) s (B3) (River tterns (B10) Water Table urface (C7) rows (C8) isible on Ae itard (D3)	more require rine) (Riverine) rine)
YDROLO Wetland H Primary Ind Surface High W Satura Water Sedim Drift D Surface Inunda Water- Field Obse Surface Wa Water Table Saturation I	Redox features obvious Redox features obvious Redox features obvious Redox features obvious Redox (minimum of the Water (A1) Vater Table (A2) Aution (A3) Marks (B1) (Nonriverse (B3) (Nonriverse Soil Cracks (B6) Aution Visible on Aerial -Stained Leaves (B9) Autions: Auter Present?	cone required rine) porriverine) erine) Imagery (B7	I; check all that app Salt Crus X Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc	st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in R	es (B13) odor (C1) eres along ed Iron (C4 cion in Tilled (C7)	Living Ro) I Soils (C	o vernal po	Seco W S D D T C S S F	ndary India dater Marks ediment De rift Deposit rainage Pa ry-Season nin Muck S rayfish Bur aturation V nallow Aqu AC-Neutral	cators (2 or (B1) (River posits (B2) s (B3) (River tterns (B10) Water Table urface (C7) rows (C8) isible on Ae itard (D3)	more require rine) (Riverine) rine) e (C2)
YDROLO Wetland H Primary Ind Surface High W Satura Water Sedim Drift D Surface Inunda Water- Field Obse Surface Water Table Saturation I includes ca	Redox features obvious Redox features obvious Redox features obvious Redox features obvious Redox (minimum of the Water (A1) Vater Table (A2) Intion (A3) Marks (B1) (Nonriverse (B3) (Nonriverse Soil Cracks (B6) Intion Visible on Aerial Stained Leaves (B9) Intervations: Inter Present?	cone required rine) porriverine) erine) Imagery (B7	A; check all that app Salt Crus X Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E No X Depth (inc No X Depth (inc	st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct con Reduct ck Surface xplain in R ches): ches):	es (B13) Odor (C1) eres along ed Iron (C4 cion in Tilled (C7) emarks)	Living Ro) I Soils (C	ots (C3)	Seco W S D D T C S S F	ndary India dater Marks ediment De rift Deposit rainage Pa ry-Season nin Muck S rayfish Bur aturation V nallow Aqu AC-Neutral	cators (2 or (B1) (River eposits (B2) s (B3) (River tterns (B10) Water Table urface (C7) rows (C8) isible on Ae itard (D3) Test (D5)	more require rine) (Riverine) rine) e (C2)
YDROLO Wetland H Primary Ind Surface High W Satura Water Sedim Drift D Surface Inunda Water- Field Obse Surface Water Table Saturation I includes ca	Redox features obvious Redox features obvious Redox features obvious Redox features obvious Redox (minimum of the Water (A1) Vater Table (A2) Attion (A3) Marks (B1) (Nonriverse (B2) (Nonriverse Soil Cracks (B6) (Nonriverse Soil Cracks (B6) (Nonriverse Soil Cracks (B6) (Nonriverse Soil Cracks (B6) (Nonriverse Soil Cracks (B9) (Nonrive	cone required rine) porriverine) erine) Imagery (B7	A; check all that app Salt Crus X Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc Other (E No X Depth (inc No X Depth (inc	st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct con Reduct ck Surface xplain in R ches): ches):	es (B13) Odor (C1) eres along ed Iron (C4 cion in Tilled (C7) emarks)	Living Ro) I Soils (C	ots (C3)	Seco W S D D T C S S F	ndary India dater Marks ediment De rift Deposit rainage Pa ry-Season nin Muck S rayfish Bur aturation V nallow Aqu AC-Neutral	cators (2 or (B1) (River eposits (B2) s (B3) (River tterns (B10) Water Table urface (C7) rows (C8) isible on Ae itard (D3) Test (D5)	more require rine) (Riverine) rine) e (C2)
YDROLO Wetland H Primary Ind Surface High W Satura Water Sedim Drift D Surface Inunda Water- Field Obse Surface Water Table Saturation I includes cates cribe Re	Redox features obvious Redox features obvious Redox features obvious Redox features obvious Redox (minimum of the Water (A1) Vater Table (A2) Attion (A3) Marks (B1) (Nonriverse (B2) (Nonriverse Soil Cracks (B6) (Nonriverse Soil Cracks (B6) (Nonriverse Soil Cracks (B6) (Nonriverse Soil Cracks (B6) (Nonriverse Soil Cracks (B9) (Nonrive	cine) prine) prine) lmagery (B7 /es /es gauge, moni	s; check all that app Salt Crus X Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Mue Other (E No X Depth (inc No X Depth (inc No X Depth (inc	st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct con Reduct ck Surface xplain in R ches): ches):	es (B13) Odor (C1) eres along ed Iron (C4 cion in Tilled (C7) emarks)	Living Ro) I Soils (C	ots (C3)	Seco W S D D T C S S F	ndary India dater Marks ediment De rift Deposit rainage Pa ry-Season nin Muck S rayfish Bur aturation V nallow Aqu AC-Neutral	cators (2 or (B1) (River eposits (B2) s (B3) (River tterns (B10) Water Table urface (C7) rows (C8) isible on Ae itard (D3) Test (D5)	more require rine) (Riverine) rine) e (C2)
YDROLO Wetland H Primary Ind Surface High W Satura Water Sedim Drift D Surface Inunda Water- Gield Obse Surface Water Table Saturation Includes catescribe Re	Redox features obvious Redox features obvious Redox features obvious Redox features obvious Redox (Minimum of Ale Water (A1) Vater Table (A2) Aution (A3) Marks (B1) (Nonriverse (B2) (Nonriverse Soil Cracks (B6) (Nonriverse Soil Cracks (B6) (Nonriverse Soil Cracks (B9) (Nonriverse Redox (B9) (Nonriverse Soil Cracks (B9) (Nonriverse So	cine) prine) prine) lmagery (B7 /es /es gauge, moni	s; check all that app Salt Crus X Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Mue Other (E No X Depth (inc No X Depth (inc No X Depth (inc	st (B11) ust (B12) Invertebrate n Sulfide C I Rhizosphe e of Reduct con Reduct ck Surface xplain in R ches): ches):	es (B13) Odor (C1) eres along ed Iron (C4 cion in Tilled (C7) emarks)	Living Ro) I Soils (C	ots (C3)	Seco W S D D T C S S F	ndary India dater Marks ediment De rift Deposit rainage Pa ry-Season nin Muck S rayfish Bur aturation V nallow Aqu AC-Neutral	cators (2 or (B1) (River eposits (B2) s (B3) (River tterns (B10) Water Table urface (C7) rows (C8) isible on Ae itard (D3) Test (D5)	more requirence (Riverine) rine) e (C2)

Project/Site: San Diego Fire-Rescue Air Operations Ha	ngar	City/Count	y: San Dieg	go / San Diego	Sampling Date: Nov 1, 2019
Applicant/Owner: City of San Diego				State: CA	Sampling Point: WDP 10
Investigator(s): Andrew Smisek		Section,	Township, R	Range: See Remarks	
Landform (hillslope, terrace, etc.):		Local reli	ef (concave	, convex, none): concave	Slope (%): 0-2
			3	Long: 32.8187886581	Datum: NAD83
Soil Map Unit Name: Redding gravelly loam (RdC), 2 t	o 9 percent	slopes		NWI classificati	ion: Paulstrine Emergent Wetlar
Are climatic / hydrologic conditions on the site typical fo					
Are Vegetation X, Soil , or Hydrology				· 	
Are Vegetation Soil , or Hydrology				(If needed, explain any ar	
SUMMARY OF FINDINGS – Attach site map si	nowing sa	mpling poin	t location	s, transects, importar	nt features, etc.
Hydrophytic Vegetation Present? Yes X	_No			_	
Hydric Soil Present? Yes X	No		e Sampled in a Wetlan	Yes	X No
Wetland Hydrology Present? Yes X	No	With	iii a vveilaii	ur —	
Remarks: Sample point occurs in a small depression. Section, Touwnship, Range: unsectioned portion of the VEGETATION – Use scientific names of plant:	e Mission Sa	an Diego landg	grant on the	La Mesa and La Jolla qua	adrangles.
VEGETATION OSC SCIENCING Harnes of plants	Absolute	Dominant	Indicator	Dominance Test work	ksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant S	
1				That Are OBL, FACW,	
2.				Total Number of Domir Species Across All Stra	_1
3.				Percent of Dominant S	(D)
4		= Total Cove		That Are OBL, FACW,	
Sapling/Shrub Stratum (Plot size:)		= Total Cove			
1.				Prevalence Index wor	rksheet:
2				Total % Cover of:	Multiply by:
3.				OBL species	x 1 =
4.				FACW species	
5.					x 3 =
		= Total Cove	r	FACU species	x 4 =
Herb Stratum (Plot size:)				UPL species	x 5 =
Psilocarphus brevissimus	20	Yes	FACW	Column Totals:	(A)(B)
2. Lythrum hyssopifolia	10	Yes	OBL	Prevalence Inde	ex = B/A =
3. Dittrichia graveolens	5	No	UPL		
4				Hydrophytic Vegetation	on Indicators:
5				Dominance Test	
6.				Prevalence Index	
7. 8.					daptations ¹ (Provide supporting lrks or on a separate sheet)
	35	= Total Cove	er	Problematic Hyd	Irophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)					
1					oil and wetland hydrology must
2				be present, unless dis	sturbed or problematic.
% Bare Ground in Herb Stratum % Co	over of Biotic	= Total Cove	r	Hydrophytic Vegetation Present?	⁄es X No
	טווטום זו טוטווט			. rootiti i	
Remarks: Vegetation has been recently mowed. Vernal pool indicator specicies present.					

(inches)	Matrix		R	edox Featu	ires		_		
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Text	ure	Remarks
)-3	5YR 3/2	70 2.	5YR 3/6	15	C	М	sandy c loam	lay	some gravel on surface
					· ·				
	- 								
	oncentration, D=Depletion,					s. ²			ining, RC=Root Channel, M=Matrix.
-	I Indicators: (Applica	ble to all LR			-				Problematic Hydric Soils ³ :
Histoso				Redox (S5)					k (A9) (LRR C)
	Epipedon (A2)			d Matrix (S	•				k (A10) (LRR B)
	Histic (A3)			Mucky Min	` ,				Vertic (F18)
	jen Sulfide (A4) ed Layers (A5) (LRR C	1		Gleyed Ma ed Matrix (F					nt Material (TF2) plain in Remarks)
	luck (A9) (LRR D))		Dark Surfa	,			illei (Ex	piairi iri Kernarks)
	ed Below Dark Surface	(A11)		ed Dark Su	` '				
	Dark Surface (A12)	, (, (, 1, 1,	X Redox				3Indica	ators of	hydrophytic vegetation and
	Mucky Mineral (S1)			Pools (F9)	()				drology must be present,
	Gleyed Matrix (S4)			,					turbed or problematic.
estrictive	Layer (if present):								*
Type:	Layer (ii present).								
Depth (inc	ches).		_				Hydric So	nil Prose	ent? Yes X No
Remarks:	Redox features obviou	s and observ	ed throughout sa	mple. Only	dug 3 inch	nes due to	vernal po	ol sensi	tivity.
		s and observ	ed throughout sa	mple. Only	dug 3 inch	nes due to	vernal po	ol sensi	tivity.
		s and observ	ed throughout sa	mple. Only	dug 3 inch	nes due to	vernal po	ol sensi	tivity.
YDROLO		s and observ	ed throughout sa	mple. Only	dug 3 inch	nes due to	o vernal po		tivity. Idary Indicators (2 or more requ
YDROLO	GY				dug 3 inch	nes due to	vernal po	Secon W:	ndary Indicators (2 or more requater Marks (B1) (Riverine)
YDROLO Wetland H Primary Inc	GY ydrology Indicators:			ly)	dug 3 inch	nes due to	o vernal po	Secon W:	idary Indicators (2 or more requ
YDROLO Wetland H Primary Inc	GY ydrology Indicators: dicators (minimum of or		check all that app	oly) st (B11)	dug 3 inch	nes due to	o vernal po	Secon W: Se	adary Indicators (2 or more requater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine)
YDROLO Wetland H Primary Inc Surface High W	GY ydrology Indicators: dicators (minimum of or e Water (A1)		check all that appSalt CrueSlotic Cr	oly) st (B11)		nes due to	o vernal po	Secon W: Se	adary Indicators (2 or more requater Marks (B1) (Riverine) addiment Deposits (B2) (Riverine)
YDROLO Wetland H Primary Inc Surface High W Saturat	GY ydrology Indicators: dicators (minimum of or e Water (A1) /ater Table (A2)	ne required; o	check all that app Salt Crue X_ Biotic Cr Aquatic	ly) st (B11) ust (B12)	es (B13)	nes due to	o vernal po	Secon Wi Se Dri	adary Indicators (2 or more requater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine)
YDROLO Wetland H Primary Inc Surface High W Saturat Water I	GY ydrology Indicators: dicators (minimum of or e Water (A1) /ater Table (A2) tion (A3)	ne required; o	check all that app Salt Crus X Biotic Cr Aquatic Hydroge	lly) st (B11) ust (B12) Invertebrat n Sulfide C	es (B13)			Secon Wis Se Dr Dr Dr Th	adary Indicators (2 or more requater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) adimage Patterns (B10) ay-Season Water Table (C2) and Muck Surface (C7)
YDROLO Wetland H Primary Inc Surface High W Satural Water I Sedime	GY ydrology Indicators: dicators (minimum of or e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriveri	ne required; o ne) nriverine)	check all that app Salt Crus X Biotic Cr Aquatic Hydroge Oxidized	oly) st (B11) ust (B12) Invertebrat n Sulfide C I Rhizosph	es (B13) Odor (C1)	Living Ro		Secon Wis Se Dr Dr Dr Th	adary Indicators (2 or more requester Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) adimage Patterns (B10) y-Season Water Table (C2)
YDROLO Wetland H Primary Inc Surface High W Saturat Water I Sedime	GY ydrology Indicators: dicators (minimum of or e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverir ent Deposits (B2) (Nor	ne required; o ne) nriverine)	check all that app Salt Crus X Biotic Cr Aquatic Hydroge Oxidized Presence	oly) st (B11) ust (B12) Invertebrat n Sulfide C I Rhizosphe e of Reduc	es (B13) Odor (C1) eres along	Living Ro	ots (C3)	Secon Wi Se Dri Dri Cr: Sa	adary Indicators (2 or more requater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery
YDROLO Wetland H Primary Inc Surface High W Saturat Water I Sedime Drift De Surface	GY ydrology Indicators: dicators (minimum of or e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverir ent Deposits (B2) (Nonriverir eposits (B3) (Nonriverir	ne required; (ne) nriverine) ine)	check all that app Salt Crus X Biotic Cr Aquatic Hydroge Oxidized Presenc Recent I Thin Mu	st (B11) ust (B12) Invertebrat n Sulfide C I Rhizosphe of Reduct ron Reduct	es (B13) Odor (C1) eres along ed Iron (C2 cion in Tiller (C7)	Living Ro	ots (C3)	Secon Wise Se Dri Dri Cri Sa Sh	adary Indicators (2 or more requester Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) adimage Patterns (B10) ay-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) atturation Visible on Aerial Imagery allow Aquitard (D3)
YDROLO Wetland H Primary Inc Surface High W Saturat Water I Sedime Drift De Surface Inunda	GY Indicators: Idicators (minimum of or e Water (A1) Idicator Table (A2) Idicator Table (ne required; (ne) nriverine) ine)	check all that app Salt Crus X Biotic Cr Aquatic Hydroge Oxidized Presenc Recent I Thin Mu	oly) st (B11) ust (B12) Invertebrat in Sulfide Co I Rhizosphi e of Reduction Reduction	es (B13) Odor (C1) eres along ed Iron (C2 cion in Tiller (C7)	Living Ro	ots (C3)	Secon Wise Se Dri Dri Cri Sa Sh	adary Indicators (2 or more requater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery
YDROLO Wetland H Primary Inc Surface High W Saturat Water I Sedime Drift De Surface Inunda Water-	GY Address (Minimum of or e Water (A1) Address (B1) (Nonrivering the Deposits (B2) (Norriverse Soil Cracks (B6) Attion Visible on Aerial In Stained Leaves (B9)	ne required; (ne) nriverine) ine)	check all that app Salt Crus X Biotic Cr Aquatic Hydroge Oxidized Presenc Recent I Thin Mu	st (B11) ust (B12) Invertebrat n Sulfide C I Rhizosphe of Reduct ron Reduct	es (B13) Odor (C1) eres along ed Iron (C2 cion in Tiller (C7)	Living Ro	ots (C3)	Secon Wise Se Dri Dri Cri Sa Sh	adary Indicators (2 or more requester Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) adimage Patterns (B10) ay-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) atturation Visible on Aerial Imagery allow Aquitard (D3)
YDROLO Wetland H Primary Inc Surface High W Saturat Water I Sedime Drift De Surface Inunda Water-:	GY Indicators: Idicators (minimum of or e Water (A1) Idicator Table (A2) Idicator Tab	ne required; one) nriverine) ine) magery (B7)	check all that app Salt Crus X Biotic Cr Aquatic Hydroge Oxidized Presenc Recent I Thin Mu	oly) st (B11) ust (B12) Invertebrat n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in R	es (B13) Odor (C1) eres along ed Iron (C2 cion in Tiller (C7)	Living Ro	ots (C3)	Secon Wise Se Dri Dri Cri Sa Sh	adary Indicators (2 or more requester Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) adimage Patterns (B10) ay-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) atturation Visible on Aerial Imagery allow Aquitard (D3)
YDROLO Wetland H Primary Inc Surface High W Saturat Water I Sedime Drift De Surface Inunda Water Field Obsel	GY Indicators: Idicators (minimum of or e Water (A1) Idicator Table (A2) Idicator Ta	ne required; of the property of the property (B7) and the property (B7) are seen are seen and the property (B7) are seen and	check all that app Salt Crus X Biotic Cr Aquatic Hydroge Oxidized Presenc Recent I Thin Mu	ly) st (B11) ust (B12) Invertebrat n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in R	es (B13) Odor (C1) eres along ed Iron (C2 cion in Tiller (C7)	Living Ro	ots (C3)	Secon Wise Se Dri Dri Cri Sa Sh	adary Indicators (2 or more requester Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) adimage Patterns (B10) ay-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) atturation Visible on Aerial Imagery allow Aquitard (D3)
YDROLO Wetland H Primary Inc Surface High W Saturat Water I Sedime Drift De Surface Inunda Water Field Obsel Surface Wa Water Table Saturation F	GY Indicators: Idicators (minimum of or Water (A1) Vater Table (A2) Ition (A3) Marks (B1) (Nonriverial Pent Deposits (B2) (Nonriverial Pent Deposits (B3) (Nonriverial Present? Marks (B9) Present? Marks (B1) (Nonriverial Present? Present? Marks (B2) Worriverial Wo	ne required; of ne) nriverine) ine) magery (B7) es N es N	check all that app Salt Crus X Biotic Cr Aquatic Hydroge Oxidized Presenc Recent I Thin Mu Other (E	st (B11) ust (B12) Invertebrat n Sulfide C I Rhizosphe e of Reduct ron Reduct ck Surface xplain in R	es (B13) Odor (C1) eres along ed Iron (C2 cion in Tiller (C7)	Living Ro 4) d Soils (C	ots (C3)	Secon Was Se Dri Dri Th Cr. Sa Sh FA	adary Indicators (2 or more requester Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) adimage Patterns (B10) ay-Season Water Table (C2) and Muck Surface (C7) ayfish Burrows (C8) atturation Visible on Aerial Imagery allow Aquitard (D3) aC-Neutral Test (D5)
Wetland H Primary Inc Surface High W Saturat Water I Sedime Drift De Surface Inunda Water Field Obsel Surface Wa Water Table Saturation F (includes ca	GY Indicators (minimum of or e Water (A1) Indicators (minimum of or e Water (A2) Ition (A3) Marks (B1) (Nonriverial ent Deposits (B2) (Nonriverial ent Deposits (B3) (Nonriverial ent Deposits (B6) Ition Visible on Aerial In Stained Leaves (B9) Indicators (B9) Indicators (B1) Indicators (B2) Indicators (B2) Indicators (B2) Indicators (B2) Indicators (B2) Indicators (B3) Indicators (B2) Indicators (B3) Indicators (B2) Indicators (B3) Indicators (B3) Indicators (B3) Indicators (Monriverial Entire B2) Indicators (Monriverial Entire B3) Indicators (Minimum of or entire B3) Indic	ne required; (ne) nriverine) ine) magery (B7) es N es N	check all that app Salt Crus X Biotic Cr Aquatic Hydroge Oxidized Presenc Recent I Thin Mu Other (E	st (B11) ust (B12) Invertebrat n Sulfide C I Rhizosphe e of Reduc ron Reduc ck Surface xplain in R ches): ches):	es (B13) odor (C1) eres along ed Iron (C4 cion in Tilled (C7) emarks)	Living Ro 4) d Soils (C	ots (C3) 6) and Hydro	Secon Was Se Dri Dri Th Cr. Sa Sh FA	adary Indicators (2 or more requester Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) adimage Patterns (B10) ay-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) atturation Visible on Aerial Imagery allow Aquitard (D3) aC-Neutral Test (D5)
Primary Inc Surface High W Saturat Water I Sedime Drift De Surface Inunda Water Field Obsel Surface Wa Water Table Saturation F (includes ca	GY Indicators: Idicators (minimum of or Water (A1) Vater Table (A2) Ition (A3) Marks (B1) (Nonriverial Pent Deposits (B2) (Nonriverial Pent Deposits (B3) (Nonriverial Present? Marks (B9) Present? Marks (B1) (Nonriverial Present? Present? Marks (B2) Worriverial Wo	ne required; (ne) nriverine) ine) magery (B7) es N es N	check all that app Salt Crus X Biotic Cr Aquatic Hydroge Oxidized Presenc Recent I Thin Mu Other (E	st (B11) ust (B12) Invertebrat n Sulfide C I Rhizosphe e of Reduc ron Reduc ck Surface xplain in R ches): ches):	es (B13) odor (C1) eres along ed Iron (C4 cion in Tilled (C7) emarks)	Living Ro 4) d Soils (C	ots (C3) 6) and Hydro	Secon Was Se Dri Dri Th Cr. Sa Sh FA	adary Indicators (2 or more requester Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) adimage Patterns (B10) ay-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) atturation Visible on Aerial Imagery allow Aquitard (D3) aC-Neutral Test (D5)
YDROLO Wetland H Primary Inc Surface High W Saturat Water I Sedime Drift De Surface Inundae Water Field Obsel Surface Wa Water Table Saturation F includes ca escribe Rec	GY Indicators: Idicators (minimum of or ele Water (A1) Idicator (A3) Idicator (B1) (Nonrivering the Composits (B2) (Nonrivering the Composits (B3) (Nonrivering the Composits (B4)) Indicator (B4) Idicator (B4)	ne required; of ne) nriverine) ine) magery (B7) es N es N auge, monito	check all that app Salt Crus X Biotic Cr Aquatic Hydroge Oxidized Presenc Recent I Thin Mu Other (E	st (B11) ust (B12) Invertebrat n Sulfide C I Rhizosphe e of Reduc ron Reduc ck Surface xplain in R ches): ches):	es (B13) odor (C1) eres along ed Iron (C4 cion in Tilled (C7) emarks)	Living Ro 4) d Soils (C	ots (C3) 6) and Hydro	Secon Was Se Dri Dri Th Cr. Sa Sh FA	adary Indicators (2 or more requester Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) adimage Patterns (B10) ay-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) atturation Visible on Aerial Imagery allow Aquitard (D3) aC-Neutral Test (D5)
YDROLO Wetland H Primary Inc Surface High W Saturat Water I Sedime Drift De Surface Inundae Water Field Obsel Surface Wa Water Table Saturation F includes ca escribe Rec	GY Indicators (minimum of or e Water (A1) Indicators (minimum of or e Water (A2) Ition (A3) Marks (B1) (Nonriverial ent Deposits (B2) (Nonriverial ent Deposits (B3) (Nonriverial ent Deposits (B6) Ition Visible on Aerial In Stained Leaves (B9) Indicators (B9) Indicators (B1) Indicators (B2) Indicators (B2) Indicators (B2) Indicators (B2) Indicators (B2) Indicators (B3) Indicators (B2) Indicators (B3) Indicators (B2) Indicators (B3) Indicators (B3) Indicators (B3) Indicators (Monriverial Entire B2) Indicators (Monriverial Entire B3) Indicators (Minimum of or entire B3) Indic	ne required; of ne) nriverine) ine) magery (B7) es N es N auge, monito	check all that app Salt Crus X Biotic Cr Aquatic Hydroge Oxidized Presenc Recent I Thin Mu Other (E	st (B11) ust (B12) Invertebrat n Sulfide C I Rhizosphe e of Reduc ron Reduc ck Surface xplain in R ches): ches):	es (B13) odor (C1) eres along ed Iron (C4 cion in Tilled (C7) emarks)	Living Ro 4) d Soils (C	ots (C3) 6) and Hydro	Secon Was Se Dri Dri Th Cr. Sa Sh FA	adary Indicators (2 or more requester Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) adimage Patterns (B10) ay-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) atturation Visible on Aerial Imagery allow Aquitard (D3) aC-Neutral Test (D5)

Project/Site: San Diego Fire-Rescue Air Operations Ha	ngar	City/Count	ty: San Dieg	o / San Diego	Sampling Date: Nov 1, 2019
Applicant/Owner: City of San Diego				State: CA	Sampling Point: UDP 11
Investigator(s): Andrew Smisek		Section,	Township, R	lange: See Remarks	
Landform (hillslope, terrace, etc.): upland		Local reli	ef (concave,	, convex, none): none	Slope (%): <u>0-2</u>
Subregion (LRR): LRR-C	Lat: -	117.1349239	12	Long: 32.8180422736	Datum: NAD83
Soil Map Unit Name: Redding gravelly loam (RdC), 2 to	o 9 percent :	slopes		NWI classificati	on: Paulstrine Emergent Wetland
Are climatic / hydrologic conditions on the site typical for	r this time of	year? Yes	x No	o(If no, explain ir	n Remarks.)
Are Vegetation X, Soil , or Hydrology	signifi	cantly disturb	ed? No	Are "Normal Circumstance	es" present? Yes x No
Are Vegetation, Soil, or Hydrology	natura	ally problemat	ic? No	(If needed, explain any an	swers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sh	nowing sa	mpling poir	t location	s, transects, importar	nt features, etc.
Hydrophytic Vegetation Present? Yes	No X				
Hydric Soil Present? Yes	No X		e Sampled in a Wetlan	Yes	No X
Wetland Hydrology Present? Yes	No X	_ ******	iii a vvetiaii	u:	
Remarks: Paired point to WDP11 occurring in upload Section, Touwnship, Range: unsectioned portion of the VEGETATION – Use scientific names of plants	Mission Sa	•		La Mesa and La Jolla qua	adrangles
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator	Dominance Test work	
1. (Flot Size)	% Cover	Species!	Status	Number of Dominant S That Are OBL, FACW,	
2.				Total Number of Domin	
3.				Species Across All Stra	ata: (B)
4. Sapling/Shrub Stratum (Plot size:)		= Total Cove	r	Percent of Dominant S That Are OBL, FACW,	
1.				Prevalence Index wor	ksheet
2.				Total % Cover of:	Multiply by:
3.				OBL species	x 1 =
4.				FACW species	x 2 =
5.				FAC species	x 3 =
		= Total Cove	r	FACU species	x 4 =
Herb Stratum (Plot size:)				UPL species	x 5 =
1. Bromus madritensis	15	Yes	UPL	Column Totals:	(A)(B)
2. Erodium sp.	15	Yes	FACU	Prevalence Inde	ex = B/A =
3. Deinandra fasciculata	10	Yes	FACU		
4. Dittrichia graveolens	5	No No	UPL	Hydrophytic Vegetation	
5. Holocarpha virgata	1	No	NI	Dominance Test	
6.				Prevalence Index	
7. 8.					daptations ¹ (Provide supporting rks or on a separate sheet)
<u> </u>	46	= Total Cov	er		rophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)				robicinate riya	Tophytio Vogotation (Explain)
1.				¹ Indicators of hydric so be present, unless dis	oil and wetland hydrology must
2				•	
% Bare Ground in Herb Stratum % Co	ver of Biotic	= Total Cove Crust	r	Hydrophytic Vegetation Present? Y	'es No X
Remarks: Vegetation has been recently mowed		-			

SOIL Sampling Point: <u>UDP 11</u>

3. Sandy clay no redox features loam Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Sitripped Matrix (S6) Black Histic (A3) Loamy Mukchy Mineral (F1) Hydrogen Sulfide (A4) Loamy Mukchy Mineral (F1) Redox Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Serticitive Layer (If present): Type: hard rock/compact soil Depth (inches): 5 Remarks: no redox features observed AVDROLOGY Wetland Hydrology Indicators: Primary Indicators (ininimum of one required; check all that apply) Surface Water (A11) Salt Crust (B11) Sediment Deposits (B1) (Riverine) Surface Water (A11) Salt Crust (B11) Sediment Deposits (B2) (Riverine) Surface Water (A1) Sediment Deposits (B2) (Riverine) Sediment Deposits (B2) (Riverine) Sediment Deposits (B2) (Nonriverine) Hydric Soil Preson (C7) Think Davis Version (C7) Dirit Deposits (B2) (Nonriverine) Presence of Reduced fron (C4) Presence of Reduced fron (C4) Think Muck Surface (G7) Dirit Deposits (B3) (Nonriverine) Presence of Reduced fron (C4) Crayfish Burrows (C3)	(inches) C	olor (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histos (A1)						71 -		sandy clay	•
# Histosol (A1) Marciators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*:									-
Histosol (A1)						 -			-
Histosol (A1)									
Histosol (A1)									
Histosol (A1)									
Histosol (A1)									-
Histosol (A1)									
Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Reduced V		· · · · · · · · · · · · · · · · · · ·					s. ² l		
Histic Epipedon (A2) Black Histic (A3) Bepleted Matrix (F2) Depleted Matrix (F3) Bepleted Matrix (F3) Bepleted Below Dark Surface (F6) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Vernal Pools (F9) Vernal Pools (F9) Pyer Hard rock/compact soil Depth (inches): 5 Bernarks: no redox features observed ### Water Marks (B1) (Riverine) Bottic Crust (B12) Bottic Crust (B12) Bottic Crust (B12) Bottic Crust (B12) Bottic Crust (B13) Maquatic Invertebrates (B13) Drainage Patterns (B10) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Breach Aguatic Invertebrates (B13) Bottic Crust (B1) Drainage Patterns (B10) Drainage Patterns (-	ators: (Applica	ible to all L			1.)			•
Black Histic (A3)		on (A2)			` ,)			
Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4) Setrictive Layer (if present): Type: hard rock/compact soil Depth (inches): 5 Hydric Soil Present? Yes No emarks: no redox features observed ### Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B12) Drift Deposits (B2) (Riverine) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) (Monriverine) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) (Monriverine) Presence of Reduced Iron (C4) Carylish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Sulface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Sulface Water (A1) Shallow A Quitater (C7) Shallow Aquitard (D3) Water Marks (B3) (Monriverine) Presence of Reduced Iron (C4) Carylish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imager (Indicators (C7) Shallow Aquitard (D3) Water Present? Yes No X Depth (inches): urface Water Present? Yes No X Depth (inches):				Loamy	Mucky Mine	ral (F1)			
1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Planciators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Vernal Pools (F9) Vernal P				Loamy	Gleyed Mat	rix (F2)			` '
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Setrictive Layer (if present): Type: hard rock/compact soil Depth (inches): 5 Hydric Soil Present? Yes No emarks: no redox features observed Water Marks (B1) (Riverine) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Derift Deposits (B3) (Nonriverine) Difft Depos		, , ,	;)		•	,		Other (E	xplain in Remarks)
Thick Dark Surface (A12)		, , ,	. (111)			` '			
Sandy Mucky Mineral (S1)			5 (A11)					³ Indicators of	hydrophytic vegetation and
estrictive Layer (if present): Type: hard rock/compact soil Depth (inches): 5		` ,			•	- ()			
Type: hard rock/compact soil Depth (inches): 5	Sandy Gleyed	d Matrix (S4)						unless di	sturbed or problematic.
Depth (inches): 5	estrictive Layer	(if present):							
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) Surface Water (A3) Water Marks (B1) (Norriverine) Suth Water Marks (B1) (Norriverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) Water Marks (B1) (Norriverine) Sediment Deposits (B3) (Riverine) Drift Deposits (B3) Water Marks (B1) (Norriverine) Sediment Deposits (B3) (Riverine) Drift Deposits (B3) Water Marks (B1) (Norriverine) Sediment Deposits (B3) (Primary (B10) Water Marks (B1) (Norriverine) Drift Deposits (B3) (Norriverine) Sediment Deposits (B3) (Norriverine) Oxidized Rhizospheres along Living Roots (C3) Drift Deposits (B3) (Norriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Water Table Present? Yes No X Depth (inches): aturation Present? Yes No X Depth (inches): Aveiland Hydrology Present? Yes No Sorriverine Wetland Hydrology Present? Yes No Sorriverine Wetland Hydrology Present? Yes No Sorriverine Wetland Hydrology Present? Yes No Sorriverine Sediment Deposits (B2) (Riverine Drift Deposits (B2) (Riverine Drift Deposits (B2) (Riverine Drift Deposits (B2) (Riverine Drift Deposits (B3) (Riverine) Drift Deposits (B3) (B10) Drift Deposits (B10) Drift Deposits (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No No Sorriverine Sediment Deposits (B2) (Riverine Drift Deposits (B3) (Riverine Drift Deposits (B3) (Riverine Drift Deposits (B3) (Riverine Drift Deposits (B3) (Riveri	Type: hard roc	k/compact soil							
Metland Hydrology Indicators: Secondary Indicators (2 or more recovered in the property of	Depth (inches):	5						Hydric Soil Pres	ent? Yes No X
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Sediment Deposits (B3) (Riverine) Drainage Patterns (B10) Dra									
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Primary Indicators (B1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B3) (Riverine) Prospective (B12) Drainage Patterns (B10) Drainage Patterns (B10) Dry-Season Water Table (C2) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Factorial Hydrology Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Water Table Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:									
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High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Drainage Pat	YDROLOGY Vetland Hydrolo			· check all that app	olv)			·	
Saturation (A3)	/DROLOGY Vetland Hydrolo Primary Indicators	s (minimum of o		•	• • • • • • • • • • • • • • • • • • • •			v	/ater Marks (B1) (Riverine)
Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Depth (inches): Urface Water Present? Yes No X Depth (inches): Auturation Present? Yes No X Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Diving Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (D4) Saturation Visible on Aerial Imagery Saturation Visible on Aeria	OROLOGY Vetland Hydrolo Primary Indicators Surface Wate	s (minimum of o er (A1)		Salt Cru	st (B11)			v s	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery Shallow Aquitard (D3) FAC-Neutral Test (D5)	YDROLOGY Wetland Hydrolo Primary Indicators Surface Wate High Water T	er (A1) Table (A2)		Salt Cru Biotic C	st (B11) rust (B12)	s (B13)			Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine)
Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imager Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) FAC-Neutral Test (D5) ield Observations: urface Water Present? Yes No X Depth (inches): vater Table Present? Yes No X Depth (inches): aturation Present? Yes No X Depth (inches): which is a surface Water Present? Yes No X Depth (inches): aturation Present? Yes No X Depth (inches): which is a surface Water Present? Yes No X Depth (inches): aturation Present? Yes No X Depth (inches): which is a surface Water Present? Yes No X Depth (inches): aturation Present? Yes No X Depth (inches): which is a surface Water Present? Yes No X Depth (inches): aturation Present? Yes No X Depth (inches): which is a surface Water Present? Yes No X Depth (inches): aturation Present? Yes No X Depth (inches): which is a surface Water Present? Yes No X Depth (inches): aturation Present? Yes No X Depth (inches): which is a surface Water Present? Yes No X Depth (inches): aturation Present? Yes No X Depth (in	/DROLOGY Vetland Hydrolo Primary Indicators Surface Wate High Water T Saturation (A	s (minimum of o er (A1) fable (A2) 3)	ne required	Salt Cru Biotic Ci Aquatic	st (B11) rust (B12) Invertebrate	. ,			Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rrift Deposits (B3) (Riverine) rrainage Patterns (B10)
Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) ield Observations: urface Water Present? Yes No X Depth (inches): Vater Table Present? Yes No X Depth (inches): aturation Present? Yes No X Depth (inches): wetland Hydrology Present? Yes No nocludes capillary fringe) secribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	YDROLOGY Netland Hydrolo Primary Indicators Surface Wate High Water T Saturation (A Water Marks	es (minimum of o er (A1) table (A2) 3) (B1) (Nonriveri	ne required	Salt Cru Biotic Ci Aquatic Hydroge	st (B11) rust (B12) Invertebrate en Sulfide Od	dor (C1)	Living Roo		Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rrift Deposits (B3) (Riverine) rrainage Patterns (B10) rry-Season Water Table (C2)
Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) ield Observations: urface Water Present? Yes No _X _ Depth (inches): /ater Table Present? Yes No _X _ Depth (inches): aturation Present? Yes No _X _ Depth (inches): wetland Hydrology Present? Yes No ncludes capillary fringe) secribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	YDROLOGY Wetland Hydrolo Primary Indicators Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits	es (minimum of o er (A1) able (A2) 3) (B1) (Nonriveri posits (B2) (Nor 6 (B3) (Nonriver	ine required	Salt Cru Biotic Ci Aquatic Hydroge Oxidized	st (B11) rust (B12) Invertebrate en Sulfide Od I Rhizosphe e of Reduce	dor (C1) res along d Iron (C4	.)		Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) rry-Season Water Table (C2) hin Muck Surface (C7) rayfish Burrows (C8)
ield Observations: Furface Water Present? Yes No _X _ Depth (inches): Vater Table Present? Yes No _X _ Depth (inches): Fiaturation Present? Yes No _X _ Depth (inches):	YDROLOGY Wetland Hydrolo Primary Indicators Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits Surface Soil (s (minimum of o er (A1) fable (A2) 3) (B1) (Nonriveri posits (B2) (Noriver (B3) (Nonriveri Cracks (B6)	ine) nriverine) rine)	Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presenc	st (B11) rust (B12) Invertebrate n Sulfide Od I Rhizosphe e of Reduce	dor (C1) res along d Iron (C4 on in Tilled	.)		Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rrift Deposits (B3) (Riverine) rrainage Patterns (B10) rry-Season Water Table (C2) hin Muck Surface (C7) rrayfish Burrows (C8) aturation Visible on Aerial Imagery (C
Surface Water Present? Yes No _X _ Depth (inches):	YDROLOGY Wetland Hydrolo Primary Indicators Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits Surface Soil (I	es (minimum of o er (A1) sable (A2) 3) (B1) (Nonriveri posits (B2) (Noriver (B3) (Nonriveri Cracks (B6) sible on Aerial II	ine) nriverine) rine)	Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presence Recent I	st (B11) rust (B12) Invertebrate en Sulfide Od d Rhizosphe e of Reduce ron Reducti ck Surface (dor (C1) res along d Iron (C4 on in Tilled C7)	.)	V S S S S S S S S S	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rrift Deposits (B3) (Riverine) rrainage Patterns (B10) rry-Season Water Table (C2) hin Muck Surface (C7) rrayfish Burrows (C8) aturation Visible on Aerial Imagery (Challow Aquitard (D3)
Vater Table Present? Yes No X Depth (inches): Inaturation Present? Yes	YDROLOGY Netland Hydrolo Primary Indicators Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits Surface Soil (Inundation Vi	s (minimum of o er (A1) able (A2) 3) (B1) (Nonriveri posits (B2) (Nor s (B3) (Nonriver Cracks (B6) sible on Aerial II d Leaves (B9)	ine) nriverine) rine)	Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presence Recent I	st (B11) rust (B12) Invertebrate en Sulfide Od d Rhizosphe e of Reduce ron Reducti ck Surface (dor (C1) res along d Iron (C4 on in Tilled C7)	.)	V S S S S S S S S S	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rrift Deposits (B3) (Riverine) rrainage Patterns (B10) rry-Season Water Table (C2) hin Muck Surface (C7) rrayfish Burrows (C8) aturation Visible on Aerial Imagery (Challow Aquitard (D3)
Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No ncludes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	YDROLOGY Wetland Hydrolo Primary Indicators Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits Surface Soil (Inundation Vi Water-Staine	s (minimum of o er (A1) able (A2) 3) (B1) (Nonriveri posits (B2) (Nor e (B3) (Nonriver Cracks (B6) sible on Aerial II d Leaves (B9)	ine) nriverine) rine) magery (B7	Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presenc Recent I Other (E	st (B11) rust (B12) Invertebrate en Sulfide Od d Rhizosphe e of Reduce ron Reducti ck Surface (explain in Re	dor (C1) res along d Iron (C4 on in Tilled C7)	.)	V S S S S S S S S S	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rrift Deposits (B3) (Riverine) rrainage Patterns (B10) rry-Season Water Table (C2) hin Muck Surface (C7) rrayfish Burrows (C8) aturation Visible on Aerial Imagery (Challow Aquitard (D3)
escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	YDROLOGY Wetland Hydrolo Primary Indicators Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits Surface Soil (Inundation Vi Water-Staine Gurface Water Pre	s (minimum of o er (A1) able (A2) 3) (B1) (Nonriveri posits (B2) (Nor e (B3) (Nonriver Cracks (B6) sible on Aerial II d Leaves (B9)	ine) inei) inei) inei) magery (B7)	Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presend Recent I Thin Mu Other (E	st (B11) rust (B12) Invertebrate en Sulfide Oc d Rhizosphe e of Reduce ron Reducti ck Surface (explain in Re	dor (C1) res along d Iron (C4 on in Tilled C7)	.)	V S S S S S S S S S	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rrift Deposits (B3) (Riverine) rrainage Patterns (B10) rry-Season Water Table (C2) hin Muck Surface (C7) rrayfish Burrows (C8) aturation Visible on Aerial Imagery (C3) hallow Aquitard (D3)
	YDROLOGY Wetland Hydrolo Primary Indicators Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits Surface Soil (Inundation Vinter Water-Staine) Gurface Water Preservator Table Preservations	s (minimum of or (A1) sable (A2)	ine) inriverine) inagery (B7) es es	Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presence Recent I Thin Mu Other (E	st (B11) rust (B12) Invertebrate en Sulfide Oc d Rhizosphe e of Reduce ron Reducti ck Surface (explain in Re ches):	dor (C1) res along d Iron (C4 on in Tilled C7)	d Soils (C6	V S S S S S S S S S	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) vrift Deposits (B3) (Riverine) vrainage Patterns (B10) vry-Season Water Table (C2) hin Muck Surface (C7) vrayfish Burrows (C8) aturation Visible on Aerial Imagery (C8) hallow Aquitard (D3) AC-Neutral Test (D5)
emarks: no hydrology indicators observed	YDROLOGY Wetland Hydrolo Primary Indicators Surface Water High Water T Saturation (A Water Marks Sediment De Drift Deposits Surface Soil (Inundation Vinter Water-Staine) Gurface Water Presentation Presentation Presentation	s (minimum of or cer (A1) sable (A2) sable (A2) sable (B1) (Nonriverity (B3) (Nonriverity (B3) (Nonriverity (B3) (Nonriverity (B3) (Nonriverity (B4) (B4) (B4) (B4) sable on Aerial Ind Leaves (B9) second (B4) se	ine) inriverine) inagery (B7) es es	Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presence Recent I Thin Mu Other (E	st (B11) rust (B12) Invertebrate en Sulfide Oc d Rhizosphe e of Reduce ron Reducti ck Surface (explain in Re ches):	dor (C1) res along d Iron (C4 on in Tilled C7)	d Soils (C6	V S S S S S S S S S	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) vrift Deposits (B3) (Riverine) vrainage Patterns (B10) vry-Season Water Table (C2) hin Muck Surface (C7) vrayfish Burrows (C8) aturation Visible on Aerial Imagery (C8) hallow Aquitard (D3) AC-Neutral Test (D5)
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Project/Site: San Diego Fire-Rescue Air Operations Ha	angar	City/Coun	ity: San Dieg	go / San Diego	Sampling Date:	Nov 1, 2019
Applicant/Owner: City of San Diego				State: CA	Sampling Point	WDP 11
Investigator(s): Andrew Smisek		Section,	Township, R	Range: See Remarks		
Landform (hillslope, terrace, etc.):		Local rel	lief (concave	, convex, none): concave	Slop	oe (%): <u>0-2</u>
Subregion (LRR): LRR-C	Lat:	-117.1348605	546	Long: 32.8180328554	Datu	m: NAD83
Soil Map Unit Name: Redding gravelly loam (RdC), 2	to 9 percent	slopes		NWI classification	on: Paulstrine Er	nergent Wetland
Are climatic / hydrologic conditions on the site typical for	or this time of	f year? Yes	x No	o(If no, explain in	Remarks.)	
Are Vegetation X, Soil , or Hydrology	signif	icantly disturb	ed? No	Are "Normal Circumstance	s" present? Yes	xNo
Are Vegetation, Soil, or Hydrology _	natura	ally problemat	tic? No	(If needed, explain any ans	swers in Remark	s.)
SUMMARY OF FINDINGS – Attach site map s	howing sa	mpling poir	nt location	s, transects, importan	t features, etc	•
Hydrophytic Vegetation Present? Yes X	No	la 4h	Camanlad	A		
Hydric Soil Present? Yes X	No		ne Sampled nin a Wetlan	Yes >	K No	
Wetland Hydrology Present? Yes X	No		iiii a vvetiaii			
Remarks: Sample point occurs in a known vernal pool Section, Touwnship, Range: unsectioned portion of the Known presence of San Diego Fairy Shrimp VEGETATION – Use scientific names of plant	e Mission Sa		grant on the	La Mesa and La Jolla qua	drangles.	
	Absolute	Dominant	Indicator	Dominance Test works	sheet:	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Sp		
1.				That Are OBL, FACW, o	-	1 (A)
2.				Total Number of Domina Species Across All Strat		- (-)
3. 4.				Percent of Dominant Sp		3 (B)
4.		= Total Cove		That Are OBL, FACW, o		33 (A/B)
Sapling/Shrub Stratum (Plot size:)		= Total Cove	5 1			
1.				Prevalence Index work	sheet:	
2.	-			Total % Cover of:	Multip	oly by:
3.	·			OBL species	x 1 =	
4.				FACW species	x 2 =	
5.				FAC species		
		= Total Cove	er	FACU species		
Herb Stratum (Plot size:)				UPL species		
1. Psilocarphus brevissimus	10	Yes	FACW	Column Totals:	(A)	(B)
2. Deinandra fasciculata	10	Yes	FACU	Prevalence Index	x = B/A =	
3. Dittrichia graveolens	5	Yes	UPL	Undershit Vanatatia		
Erodium sp. Holocarpha virgata	1	No No	FACU NI	Hydrophytic Vegetatio		
6	· — ·	INU	INI	Dominance Test is		
7				Prevalence Index Morphological Ada		do oupporting
8.					ks or on a separa	
	·	= Total Cov	/er	X Problematic Hydro	•	
Woody Vine Stratum (Plot size:)				robiomado riyan	opriyao vogotaa	71 (Explain)
1.				¹ Indicators of hydric soi	il and wetland hy	drology must
2.	·			be present, unless distr	urbed or problem	natic.
	·	= Total Cove	er	Hydrophytic		
				Vegetation		
	over of Biotic			Present? Ye		
Remarks: Although vegetation doesn't meet the hydro the hydrophyticstandard as problematic due to the acti purposes which may alter the vegetation away from na Vernal pool indicator specicies present.	ve managem	ent of vegeta	tion here. Mo			

Depth	Matrix			edox Featu	ıres		_				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Text	ure		Remar	ks
)-2	5YR 3/2	70	2.5Yr 3/6	25	C	М	sandy cl loam	ay	organics	at surface	
					· ·						
Type: C=Cc	ncentration, D=Depletion	, RM=Reduce	ed Matrix, CS=Covere	ed or Coated	Sand Grains	S. 2	Location: Pl		ining, RC=R	oot Channel,	M=Matrix.
	I Indicators: (Applica									atic Hydric	
Black I Hydrog Stratific 1 cm I Deplete Thick I Sandy	Epipedon (A2) Histic (A3) Histic (A4) Hed Layers (A5) (LRR C) Huck (A9) (LRR D) Hed Below Dark Surface Hoark Surface (A12) Hucky Mineral (S1)	•	Stripped Loamy Loamy Deplete Redox I Deplete X Redox I	Redox (S5 d Matrix (S Mucky Mir Gleyed Ma d Matrix (F Dark Surfa d Dark Su Depression Pools (F9)	6) aeral (F1) atrix (F2) F3) ce (F6) rface (F7)		2 (Re Re Ot	ed Parer ed Parer her (Exp ators of I	drology m	RR B) 3) (TF2) marks) c vegetation ust be prese	
Sandy	Gleyed Matrix (S4)						unl	ess dist	urbed or p	roblematic.	
Type: Depth (ind	Layer (if present):		, 				Hydric Sc	oil Prese	ent? Y	es X	No
Type:		is and obse	rved throughout sa	mple. Only	r dug 2 inch	nes due to	,			es X	No
Type:	ches):Redox features obviou	s and obse	rved throughout sa	mple. Only	r dug 2 inch	nes due to	,			es X	No
Type:	ches):Redox features obviou	s and obse	rved throughout sa	mple. Only	v dug 2 inch	nes due to	,	ol sensi	tivity.		
Type:	ches):Redox features obviou				dug 2 inch	nes due to	,	ol sensit	tivity. dary Indic		more require
Type:	Ches):Redox features obviou		; check all that app Salt Crus _X_Biotic Cr	ly) st (B11) ust (B12)		nes due to	,	Secon Wa	dary Indicater Marks diment De	cators (2 or (B1) (River posits (B2) s (B3) (River	more require ine) (Riverine)
Type:	GY ydrology Indicators: dicators (minimum of of e Water (A1) //ater Table (A2)	ne required	; check all that app Salt Crus X Biotic Cr X Aquatic I	ly) st (B11) ust (B12)	es (B13)	nes due to	,	Secon Wasses	dary Indicater Marks diment De ft Deposits ainage Pat	cators (2 or (B1) (River posits (B2)	more require ine) (Riverine) rine)
Type:	GY ydrology Indicators: dicators (minimum of of e Water (A1) //ater Table (A2) tion (A3)	ne required	; check all that app Salt Crus X Biotic Cr X Aquatic I Hydroge	ly) st (B11) ust (B12) nvertebrat n Sulfide (es (B13)		vernal poo	Secon Wa Se Dri Dra	dary Indicater Marks diment De ft Deposits ainage Pat	cators (2 or (B1) (River posits (B2) s (B3) (River tterns (B10)	more require ine) (Riverine) rine)
Type:	GY ydrology Indicators: dicators (minimum of one Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverial	ne required ne) nriverine)	; check all that app Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized	ly) st (B11) ust (B12) nvertebrat n Sulfide C Rhizosph	es (B13) Odor (C1)	Living Ro	vernal poo	Secon Wa Se Dri Dra Th	dary Indicater Marks diment De ft Deposits ainage Pat	cators (2 or (B1) (River posits (B2) s (B3) (River terns (B10) Water Table urface (C7)	more require ine) (Riverine) rine)
Type:	GY ydrology Indicators: dicators (minimum of of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverient Deposits (B2) (Noriverient Deposits (B2) (B2) (B2) (B2) (B2) (B2) (B2) (B2)	ne required ne) nriverine)	; check all that app Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized Presence	ly) st (B11) ust (B12) nvertebrat n Sulfide C Rhizosph e of Reduc	es (B13) Odor (C1) eres along	Living Ro	vernal poo	Secon Wa Se Dri Dra Dra Th	dary Indicater Marks diment De ft Deposits ainage Pate y-Season V in Muck Su	cators (2 or (B1) (River posits (B2) s (B3) (River terns (B10) Water Table urface (C7) ows (C8)	more require ine) (Riverine) rine)
Type:	GY ydrology Indicators: dicators (minimum of of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonrivering the positis (B2) (Nonrivering the positis (B3) (Nonrivering the positis (B	ne required ne) nriverine) ine)	; check all that app Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized Presence Recent I	ly) st (B11) ust (B12) nvertebrat n Sulfide C Rhizosph e of Reduc	es (B13) Odor (C1) eres along red Iron (C ²	Living Ro	vernal poo	Secon Wa Se Dri Dra Dry Th Cra Sa	dary Indicater Marks diment De ft Deposits ainage Pate y-Season V in Muck Si ayfish Burr	cators (2 or (B1) (River) posits (B2) s (B3) (River) tterns (B10) Water Table urface (C7) rows (C8) sible on Aer	more require ine) (Riverine) rine)
Type:	GY ydrology Indicators: dicators (minimum of of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonrivering the posits (B3) (Nonrivering the Soil Cracks (B6)	ne required ne) nriverine) ine)	; check all that app Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized Presence Recent II Thin Muc	ly) st (B11) ust (B12) nvertebrat n Sulfide C Rhizosph e of Reduc	es (B13) Odor (C1) eres along red Iron (C ² tion in Tilled (C7)	Living Ro	vernal poo	Secon Wa Se Dri Dra Dry Cra Sa	dary Indicater Marks diment Deft Deposits ainage Patery-Season Vin Muck Stayfish Burrturation Vi	cators (2 or (B1) (River) posits (B2) s (B3) (River) terns (B10) Water Table urface (C7) rows (C8) sible on Aer tard (D3)	more require ine) (Riverine) rine)
Type:	GY ydrology Indicators: dicators (minimum of of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonrivering the Deposits (B2) (Nonrivering the Soil Cracks (B6) tion Visible on Aerial Instance (B9)	ne required ne) nriverine) ine)	; check all that app Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized Presence Recent II Thin Muc	ly) st (B11) ust (B12) nvertebrat n Sulfide C Rhizosph e of Reduc ron Reduc ck Surface	es (B13) Odor (C1) eres along red Iron (C ² tion in Tilled (C7)	Living Ro	vernal poo	Secon Wa Se Dri Dra Dry Cra Sa	dary Indicater Marks diment Defit Deposits ainage Patery-Season Vin Muck Strayfish Burruturation Viallow Aqui	cators (2 or (B1) (River) posits (B2) s (B3) (River) terns (B10) Water Table urface (C7) rows (C8) sible on Aer tard (D3)	more require ine) (Riverine) rine)
Type:	GY ydrology Indicators: dicators (minimum of of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverications (B3) (Nonriverications (B3) (Nonriverication (B3)) eposits (B3) (Nonriverication (B3)) tion Visible on Aerial In Stained Leaves (B9) rvations:	ne required ne) nriverine) ine) magery (B7	; check all that app Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized Presence Recent II Thin Muc	ly) st (B11) ust (B12) nvertebrat n Sulfide C Rhizosph e of Reduc ron Reduc ck Surface xplain in R	es (B13) Odor (C1) eres along red Iron (C ² tion in Tilled (C7)	Living Ro	vernal poo	Secon Wa Se Dri Dra Dry Cra Sa	dary Indicater Marks diment Defit Deposits ainage Patery-Season Vin Muck Strayfish Burruturation Viallow Aqui	cators (2 or (B1) (River) posits (B2) s (B3) (River) terns (B10) Water Table urface (C7) rows (C8) sible on Aer tard (D3)	more require ine) (Riverine) rine)
Type: Depth (index control of the control of	GY ydrology Indicators: dicators (minimum of of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverient Deposits (B2) (Nonriverient Caposits (B3) (Nonriverient Caposits (B6) tion Visible on Aerial In Stained Leaves (B9) rvations: ter Present?	ne required ne) nriverine) ine) magery (B7	; check all that app Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized Presence Recent II Thin Muc	ly) st (B11) ust (B12) nvertebrat n Sulfide C Rhizosph e of Reduc ron Reduc ck Surface xplain in R	es (B13) Odor (C1) eres along red Iron (C ² tion in Tilled (C7)	Living Ro	vernal poo	Secon Wa Se Dri Dra Dry Cra Sa	dary Indicater Marks diment Defit Deposits ainage Pater y-Season Vin Muck Strayfish Burruturation Viallow Aqui	cators (2 or (B1) (River) posits (B2) s (B3) (River) terns (B10) Water Table urface (C7) rows (C8) sible on Aer tard (D3)	more require ine) (Riverine) rine)
Type: Depth (income property income pro	GY ydrology Indicators: dicators (minimum of of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverient Deposits (B2) (Nonriveries Soil Cracks (B6) tion Visible on Aerial In Stained Leaves (B9) rvations: ter Present? Present? You	ne required ne) nriverine) ine) magery (B7	; check all that app Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized Presence Recent II Other (E	ly) st (B11) ust (B12) nvertebrat n Sulfide C Rhizosph e of Reduc ron Reduc ck Surface xplain in R	es (B13) Odor (C1) eres along red Iron (C ² tion in Tilled (C7)	Living Root) d Soils (Co	vernal poo	Secon Wa Se Dri Dra Cra Sa Sh	dary Indicater Marks diment De ft Deposits ainage Pate y-Season Vin Muck Strayfish Burr turation Viallow Aqui C-Neutral	cators (2 or (B1) (River) posits (B2) s (B3) (River) terns (B10) Water Table urface (C7) rows (C8) sible on Aer tard (D3)	more require ine) (Riverine) rine) • (C2)
Type: Depth (incomplete	GY ydrology Indicators: dicators (minimum of one Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverient Deposits (B2) (Nonriverient Deposits (B3) (Nonriverient Deposits (B6)) tion Visible on Aerial In Stained Leaves (B9) rvations: ter Present? Your Present?	ne required ne) nriverine) ine) magery (B7	; check all that app Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized Presence Recent II Other (E No Depth (inc	ly) st (B11) ust (B12) nvertebrat n Sulfide C Rhizosph e of Reduc con Reduc	es (B13) Odor (C1) eres along ed Iron (C4 tion in Tilled (C7) emarks)	Living Root) d Soils (Co	vernal poo	Secon Wa Se Dri Dra Cra Sa Sh	dary Indicater Marks diment De ft Deposits ainage Pate y-Season Vin Muck Strayfish Burr turation Viallow Aqui C-Neutral	cators (2 or (B1) (River) posits (B2) s (B3) (River) terns (B10) Water Table urface (C7) ows (C8) sible on Aer tard (D3) Test (D5)	more require ine) (Riverine) rine) • (C2)
Type:	GY ydrology Indicators: dicators (minimum of one Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverient Deposits (B2) (Nonriverient Deposits (B3) (Nonriverient Deposits (B6)) tion Visible on Aerial In Stained Leaves (B9) rvations: ter Present? Present? Present? your poil of the property of the present of the	ne required ne) nriverine) ine) magery (B7 es es auge, moni	; check all that app Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized Presence Recent II Other (E No Depth (inc No Depth (inc toring well, aerial pl	ly) st (B11) ust (B12) nvertebrat n Sulfide C Rhizosph e of Reduc con Reduc	es (B13) Odor (C1) eres along ed Iron (C4 tion in Tilled (C7) emarks)	Living Root) d Soils (Co	vernal poo	Secon Wa Se Dri Dra Cra Sa Sh	dary Indicater Marks diment De ft Deposits ainage Pate y-Season Vin Muck Strayfish Burr turation Viallow Aqui C-Neutral	cators (2 or (B1) (River) posits (B2) s (B3) (River) terns (B10) Water Table urface (C7) ows (C8) sible on Aer tard (D3) Test (D5)	more require ine) (Riverine) rine) • (C2)
Type: Depth (ind Remarks: YDROLO Wetland H Primary Ind Surface High W Satura Water Sedim Drift Do Surface Inunda Water- Field Obse Surface Wa Water Table Saturation F includes ca escribe Re	GY ydrology Indicators: dicators (minimum of one Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonriverient Deposits (B2) (Nonriverient Deposits (B3) (Nonriverient Deposits (B6) tion Visible on Aerial In Stained Leaves (B9) rvations: ter Present? Present? Present? You	ne required ne) nriverine) ine) magery (B7 es es auge, moni	; check all that app Salt Crus X Biotic Cr X Aquatic I Hydroge Oxidized Presence Recent II Other (E No Depth (inc No Depth (inc toring well, aerial pl	ly) st (B11) ust (B12) nvertebrat n Sulfide C Rhizosph e of Reduc con Reduc	es (B13) Odor (C1) eres along ed Iron (C4 tion in Tilled (C7) emarks)	Living Root) d Soils (Co	vernal poo	Secon Wa Se Dri Dra Cra Sa Sh	dary Indicater Marks diment De ft Deposits ainage Pate y-Season Vin Muck Strayfish Burr turation Viallow Aqui C-Neutral	cators (2 or (B1) (River) posits (B2) s (B3) (River) terns (B10) Water Table urface (C7) ows (C8) sible on Aer tard (D3) Test (D5)	more requir ine) (Riverine) rine) (C2)

Project/Site: San Diego Fire-Rescue	Air Operations Ha	angar	City/County	y: San Dieg	go / San Diego	Sampling Da	ate: Nov 1	, 2019
Applicant/Owner: City of San Diego					State: CA	Sampling Po	oint: <u>UDP</u>	12
Investigator(s): Andrew Smisek			Section, 7	Γownship, F	Range: See Remarks			
Landform (hillslope, terrace, etc.): upl	and		Local relie	ef (concave	, convex, none): none	;	Slope (%):	0-2
Subregion (LRR): LRR-C		Lat:	-117.13497125	54	Long: 32.817428241	D	atum: NAD)83
Soil Map Unit Name: Redding grave	lly loam (RdC), 2 f	to 9 percent	slopes		NWI classification	n: Paulstrine	e Emergent	t Wetland
Are climatic / hydrologic conditions or	the site typical fc	or this time of	year? Yes	<u>x</u> N	o(If no, explain in	Remarks.)		
Are Vegetation, Soil	, or Hydrology _	signif	icantly disturbe	ed? No	Are "Normal Circumstance	s" present? `	Yes x	No
Are Vegetation, Soil	, or Hydrology _	natura	ally problemation	c? No	(If needed, explain any ans	wers in Rem	ıarks.)	
SUMMARY OF FINDINGS – Atta	ach site map s	howing sa	mpling poin	t location	s, transects, important	t features,	etc.	
Hydrophytic Vegetation Present?	Yes	No X	la tha	. Camadad	A			
Hydric Soil Present?	Yes	No X		e Sampled n a Wetlan	Y 29. Y	No	X	
Wetland Hydrology Present?	Yes	No X		ii a vvetiaii				
Section, Touwnship, Range: unsection vectors and vectors are section. VEGETATION – Use scientific recommendation of the section of the secti	· 		an Diego landg	Indicator	Dominance Test works			
<u>Tree Stratum</u> (Plot size:1.)	% Cover	Species?	Status	Number of Dominant Sp That Are OBL, FACW, o	ecies	0	(A)
2.		·			Total Number of Domina			(',')
3.		-			Species Across All Strat		5	(B)
4.					Percent of Dominant Sp			(A (D)
		-	= Total Cover	•	That Are OBL, FACW, o	r FAC:	0	(A/B)
Sapling/Shrub Stratum (Plot size:)							
Eriogonum fasciculatum		25	Yes	NI	Prevalence Index work	sheet:		
2. Acmispon glaber		10	Yes	NI	Total % Cover of:		fultiply by:	
3. Baccharis sarothroides		5	No	FACU	OBL species			
4.					FACW species			
5					FACUL appeirs			
Horb Stratum (Plot size:	`	40	= Total Cover		FACU species UPL species			_
Herb Stratum (Plot size: 1. Bromus madritensis		20	Yes	UPL	Column Totals:	(A)		— (B)
Logfia gallica		10	Yes	NI	-			 ``
Deinandra fasciculata		10	Yes	FACU	Prevalence Index	x = B/A =		_
4.		·			Hydrophytic Vegetation	n Indicators		
5.					Dominance Test is			
6.			=		Prevalence Index			
7.					Morphological Ada	aptations¹ (Pi		
8					data in Remark	·	•	•
Massha Vine Street ver (Diet sine)	,	40	= Total Cove	er	Problematic Hydro	ophytic Vege	tation1 (Exp	olain)
Woody Vine Stratum (Plot size:)				1	9 1 4		
1. 2.					¹ Indicators of hydric soi be present, unless distu	urbed or prob	a hydrology lematic.	' must
% Bare Ground in Herb Stratum	% Ca	over of Biotic	= Total Cover		Hydrophytic Vegetation Present? Ye	 es	No X	
Remarks: No hydrophytic species pro								<u> </u>
incinaires. No hydrophytic species pit	Journ							

SOIL Sampling Point: <u>UDP 12</u>

Depth	Matrix			edox Featur								
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Text	ure		Rem	arks	
0-12	7.5YR 3/3	100					sandy cl loam	ay	no redox	features		
	_			.								
				· ·								
				·								
				· ——		2.						
	oncentration, D=Depletion on the contraction of the contract o									Root Chann		Х.
Histos	`	cable to all i	•	Redox (S5)	,				k (A9) (LF	-	ic cons .	
	Epipedon (A2)			d Matrix (S6)				k (A10) (L	,		
	Histic (A3)			Mucky Mine	,				Vertic (F1			
Hydro	gen Sulfide (A4)		Loamy	Gleyed Matı	rix (F2)		Re	ed Parer	nt Materia	ıl (TF2)		
	ed Layers (A5) (LRR	C)		ed Matrix (F3	,		Ot	her (Ex	olain in R	emarks)		
	Muck (A9) (LRR D)			Dark Surface	` '							
	ed Below Dark Surfa	ce (A11)		d Dark Surf	` ,		31 11					
	Dark Surface (A12)			Depressions	s (F8)					ic vegetation		
	Mucky Mineral (S1) Gleyed Matrix (S4)		vernai	Pools (F9)				-		nust be pre problemati		
estrictive	Layer (if present):											
Type:												
· / - · ·												
Depth (in	no hydric soil indicate	ors observed	 I				Hydric Sc	oil Prese	nt?	Yes	No	X
Depth (in Remarks:	no hydric soil indicate	ors observed	I				Hydric Sc	oil Prese	nt?	Yes	No	X
Depth (in Remarks:	no hydric soil indicate		ı				Hydric Sc			Yes		
Depth (in Remarks: YDROLC Wetland H	no hydric soil indicate	s:		ly)			Hydric So	Secon	dary Indi		or more r	
Depth (in Remarks: YDROLO Wetland F Primary In	no hydric soil indicate OGY Hydrology Indicators	s:					Hydric So	Secon Wa	dary Indi ater Marks	icators (2	or more r erine)	equire
Depth (in Remarks: YDROLO Wetland F Primary In Surface	no hydric soil indicate OGY Hydrology Indicators dicators (minimum of	s:	d; check all that app				Hydric So	Secon Wa	dary Indi ater Marks diment Do	icators (2	or more r erine) 2) (Riverir	equire
YDROLO Wetland F Primary In Surface High V	no hydric soil indicate OGY Hydrology Indicators dicators (minimum of	s:	d; check all that app Salt Cru	st (B11)	s (B13)		Hydric So	Secon Wa Se	dary Indi ater Marks diment Do ft Deposit	icators (2 s (B1) (Riv eposits (B2	or more r erine) 2) (Riverir verine)	equire
YDROLC Wetland F Primary In Surfac High V Satura	no hydric soil indicate DGY Hydrology Indicators dicators (minimum of the Water (A1) Vater Table (A2)	s: one required	d; check all that app Salt Cru Biotic Cr Aquatic	st (B11) ust (B12)	. ,		Hydric So	Secon Was	dary Indi ater Marks diment Do ft Deposit ainage Pa	icators (2 s (B1) (Riv eposits (B2 ts (B3) (Riv	or more r erine) ?) (Riverir verine) 0)	equire
YDROLC Wetland F Primary In Surfac High V Satura Water	no hydric soil indicate DGY Hydrology Indicators dicators (minimum of the Water (A1) Vater Table (A2) ation (A3)	s: one required erine)	d; check all that app Salt Cru Biotic Cr Aquatic Hydroge	st (B11) ust (B12) Invertebrates	dor (C1)	iving Roc		Secon Wa Se Dri Dra	dary Indi ater Marks diment Do ft Deposit ainage Pa y-Season	icators (2 s (B1) (Riv eposits (B2 ts (B3) (Riv atterns (B1	or more r erine) ?) (Riverir verine) 0)	equire
YDROLO Wetland F Primary In Surfac High V Satura Water Sedim	no hydric soil indicate OGY Hydrology Indicators dicators (minimum of the Water (A1) Vater Table (A2) ation (A3) Marks (B1) (Nonrive	s: one required erine) onriverine)	d; check all that app Salt Cru Biotic Cr Aquatic Hydroge Oxidized	st (B11) ust (B12) Invertebrates n Sulfide Oc	dor (C1) res along L	•		Secon Wa Se Dri Dra Dra	dary Indi ater Marks diment Do ft Deposit ainage Pa y-Season in Muck S	icators (2) s (B1) (Riv eposits (B2) ts (B3) (Riv atterns (B1) Water Tak	or more r erine) ?) (Riverir verine) 0)	equire
YDROLO Wetland F Primary In Surface High V Satura Water Sedim Drift D	no hydric soil indicate OGY Hydrology Indicators dicators (minimum of the Water (A1) Vater Table (A2) ation (A3) Marks (B1) (Nonrive	s: one required erine) onriverine)	d; check all that app Salt Cru Biotic Cr Aquatic Hydroge Oxidized Presenc	st (B11) ust (B12) Invertebrates n Sulfide Oc	dor (C1) res along L d Iron (C4)		ots (C3)	Secon Wa Se Dri Dra Dra Th	dary Indi ater Marks diment Do ft Deposit ainage Pa y-Season in Muck S ayfish Bur	icators (2) s (B1) (Riv eposits (B2) ts (B3) (Riv atterns (B1) Water Tak Surface (C7	or more r erine) ?) (Riverir verine) O) ole (C2)	equire
YDROLO Wetland F Primary In Surfac High V Satura Water Sedim Drift D Surfac	no hydric soil indicate OGY Hydrology Indicators dicators (minimum of the Water (A1) Vater Table (A2) ation (A3) Marks (B1) (Nonrive the the posits (B2) (Nonrive the posits (B3) (Nonrive	s: one required erine) onriverine) erine)	d; check all that app Salt Cru Biotic Cr Aquatic Hydroge Oxidized Presenc Recent I	st (B11) ust (B12) Invertebrates n Sulfide Oc I Rhizospher e of Reduce	dor (C1) res along L d Iron (C4) on in Tilled		ots (C3)	Secon Wa Se Dri Dra Dra Th Cra Sa	dary Indi ater Marks diment Do ft Deposit ainage Pa y-Season in Muck S ayfish But turation V	icators (2 is (B1) (River) (B2) (B3) (River) (B4) (Water Taker) (B4) (Water Taker) (C7) (C8)	or more r erine) ?) (Riverir verine) O) ole (C2)	equire
YDROLO Wetland F Primary In Surfac High V Satura Water Sedim Drift D Surfac Inunda	no hydric soil indicate DGY Hydrology Indicators dicators (minimum of the Water (A1) Vater Table (A2) ation (A3) Marks (B1) (Nonrive the the posits (B2) (Nonrive the Soil Cracks (B6)	one required erine) conriverine) erine)	d; check all that app Salt Crue Biotic Cree Aquatic Hydroge Oxidized Presence Recent I	st (B11) ust (B12) Invertebrates n Sulfide Oc I Rhizospher e of Reduce	dor (C1) res along L d Iron (C4) on in Tilled C7)		ots (C3)	Secon Wa Se Dri Dra Dry Th Cra Sa Sh	dary Indi dater Marks diment Do ft Deposit ainage Pa y-Season in Muck S ayfish Bui turation V allow Aqu	icators (2 s (B1) (Riveposits (B2) (Riveposits (B3) (Riveposits (B1) Water Tables (C7) (C8) (C8) (C8) (C8)	or more r erine) 2) (Riverin verine) 0) ble (C2) 7) erial Imag	equire
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YDROLO Wetland F Primary In Surfac High V Satura Water Sedim Drift D Surfac Inunda Water- Field Obse Surface Wa Vater Tabl Saturation I includes ca	no hydric soil indicate DGY Hydrology Indicators dicators (minimum of the Water (A1) Vater Table (A2) ation (A3) Marks (B1) (Nonrive the Book (B3) (Nonrive the Soil Cracks (B6) ation Visible on Aerial -Stained Leaves (B9) Prevations: ater Present? Present? Present? apillary fringe)	one required erine) onriverine) erine) Imagery (B7 Yes Yes Yes The serine of t	d; check all that app Salt Cru Biotic Cr Aquatic Hydroge Oxidized Presenc Recent I Thin Mu Other (E No X Depth (inc No X Depth (inc	st (B11) ust (B12) Invertebrates In Sulfide Oct Rhizospher In Grand Reduction Reductio	dor (C1) res along L d Iron (C4) on in Tilled C7) marks)	Soils (C6	ots (C3)	Secon Wa Se Dri Dra Dra Cra Sa Sh FA	dary Indi dater Marks diment Do ft Deposit ainage Pa y-Season in Muck S ayfish Bui turation V allow Aqu C-Neutra	icators (2 is (B1) (Riv eposits (B2) (Riv atterns (B1) Water Tab Surface (C7) (C8) (risible on A uitard (D3) I Test (D5)	or more r erine) 2) (Riverir verine) 0) ble (C2) 7) erial Imag	equire
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Project/Site: San Diego Fire-Rescue Air Operations Ha	ngar	City/Coun	nty: San Dieg	o / San Diego	Sampling Date	: Nov 1, 2019
Applicant/Owner: City of San Diego				State: CA	Sampling Point	t: WDP 12
Investigator(s): Andrew Smisek		Section,	Township, R	lange: See Remarks		
Landform (hillslope, terrace, etc.):		Local rel	lief (concave,	convex, none): concave	Slo	pe (%): <u>0-2</u>
Subregion (LRR): LRR-C	Lat: -	-117.1349748	358	Long: <u>32.8174689775</u>	Datu	ım: NAD83
Soil Map Unit Name: Redding gravelly loam (RdC), 2 to	o 9 percent	slopes		NWI classification	n: Paulstrine E	mergent Wetland
Are climatic / hydrologic conditions on the site typical for	r this time of	year? Yes	xNo	(If no, explain in	Remarks.)	
Are Vegetation, Soil, or Hydrology	signifi	cantly disturb	ed? No	Are "Normal Circumstance	s" present? Yes	s x No
Are Vegetation, Soil, or Hydrology	natura	ally problema	tic? No	(If needed, explain any ans	wers in Remark	(s.)
SUMMARY OF FINDINGS – Attach site map sh	nowing sa	mpling poi	nt locations	s, transects, important	features, etc	>
Hydrophytic Vegetation Present? Yes X	No					
Hydric Soil Present? Yes X	No		he Sampled hin a Wetlan	Yes X	(No	
Wetland Hydrology Present? Yes X	No		iiii a vvetiaiii	u:		
Remarks: Sample point occurs in a small swale that a Section, Touwnship, Range: unsectioned portion of the VEGETATION – Use scientific names of plants	Mission Sa					
Trans Charles (Plateine	Absolute	Dominant	Indicator	Dominance Test works	heet:	
Tree Stratum (Plot size:) 1.	% Cover	Species?	Status	Number of Dominant Sp		2 (4)
2.				That Are OBL, FACW, o		2 (A)
3.				Species Across All Strat		2 (B)
4.				Percent of Dominant Sp		``,
		= Total Cove	er	That Are OBL, FACW, o	r FAC:	100 (A/B)
Sapling/Shrub Stratum (Plot size:)						
1				Prevalence Index work	sheet:	
2				Total % Cover of:		iply by:
3				OBL species	x 1 =	
4				FACW species		
5				FAC species		
Herb Stratum (Plot size:)		= Total Cove	er	FACU species UPL species		
1. Lythrum hyssopifolia	25	Yes	OBL	Column Totals:	(A)	(B)
Cyperus eragrostis	20	Yes	FACW			
3. Pennisetum setaceum	10	No	NI	Prevalence Index	< = B/A =	
4. Deinandra fasciculata	5	No	FACU	Hydrophytic Vegetation	n Indicators:	
5. Juncus bufonius	5	No	FACW	X Dominance Test is		
6. Avena sp.	5	No	NI	Prevalence Index	is ≤3.0 ¹	
7.				Morphological Ada	aptations ¹ (Prov	ide supporting
8.				data in Remark	ks or on a separ	ate sheet)
	70	= Total Cov	ver	Problematic Hydro	ophytic Vegetati	on ¹ (Explain)
Woody Vine Stratum (Plot size:)						
1. 2.				¹ Indicators of hydric soi be present, unless distu		
% Bare Ground in Herb Stratum % Co	ver of Riotic	= Total Cove	er	Hydrophytic Vegetation Present?	ae Y N	lo.
	ver of Biotic				es X N	lo
Remarks: Vegetation meets hydrophytic standard. mos	st species dr	y and dessica	ated during si	urvey.		

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Re	edox Featu	res		_	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-8	5YR 3/2	90	5YR 4/6	5	С	M	sandy clay	cobble mixed in
							_,	
			-	· ——				
-		· 		· 				
							-	
	· 		-					
		- ——		·				
								<u> </u>
			ced Matrix, CS=Covere			s. ²	Location: PL=Por	re Lining, RC=Root Channel, M=Matrix.
Hydric Soi	I Indicators: (Applic	able to all	LRRs, unless other	rwise note	d.)		Indicators	for Problematic Hydric Soils ³ :
Histoso	ol (A1)		Sandy F	Redox (S5)			1 cm M	Muck (A9) (LRR C)
Histic E	pipedon (A2)		Stripped	d Matrix (S	6)		2 cm M	fluck (A10) (LRR B)
	listic (A3)			Mucky Min	` '			ed Vertic (F18)
	en Sulfide (A4)			Gleyed Ma				arent Material (TF2)
	ed Layers (A5) (LRR	C)		d Matrix (F	,		Other (Explain in Remarks)
	luck (A9) (LRR D)	(0.4.4)		Dark Surfa	` ,			
	ed Below Dark Surface	ce (A11)		d Dark Sur	` '		31	of handron hadio are protestion and
	Oark Surface (A12) Mucky Mineral (S1)		X Redox I	Depression Pools (F9)	is (F8)			of hydrophytic vegetation and I hydrology must be present,
	Gleyed Matrix (S4)		veinari	10015 (1-9)				disturbed or problematic.
							unic33 (distribed of problematic.
	Layer (if present):							
	ard rock/compact soil							
Depth (inc	ches): <u>8</u>						Hydric Soil Pre	esent? Yes X No No
Remarks: r	edox features observ	ed through	out sample soil					
								
HYDROLO								
	ydrology Indicators							condary Indicators (2 or more required)
		one require	ed; check all that app					Water Marks (B1) (Riverine)
	e Water (A1)		Salt Crus					Sediment Deposits (B2) (Riverine)
	ater Table (A2)		X Biotic Cr					Drift Deposits (B3) (Riverine)
	tion (A3)			nvertebrate	` ,			Drainage Patterns (B10)
Water	Marks (B1) (Nonrive	rine)	Hydroge	n Sulfide O	dor (C1)			Dry-Season Water Table (C2)
X Sedime	ent Deposits (B2) (N o	onriverine)	Oxidized	Rhizosphe	eres along	Living Ro	ots (C3)	Thin Muck Surface (C7)
Drift De	eposits (B3) (Nonrive	erine)	Presence	e of Reduc	ed Iron (C4	!)		Crayfish Burrows (C8)
Surface	e Soil Cracks (B6)		Recent I	ron Reduct	ion in Tille	d Soils (C		Saturation Visible on Aerial Imagery (C9)
Inunda	tion Visible on Aerial	Imagery (B	57) Thin Mud	ck Surface	(C7)			Shallow Aquitard (D3)
Water-	Stained Leaves (B9)		Other (E	xplain in Re	emarks)			FAC-Neutral Test (D5)
Field Obse	rvations:							
		Yes	No Depth (inc	hes):				
Water Table		Yes				_		
Saturation F		Yes				— Wetla	and Hydrology	Present? Yes X No
	pillary fringe)					_	,	. so <u></u>
•		gauge, mo	nitoring well, aerial pl	hotos, prev	ious inspe	ctions), if	available:	
								nctions as a depression by holding water
for extended depression.	perioas after rain eve	ents. Non-ři	verine seaiment dep	osits obser	vea along	margins o	oi aepression, b	iotic crust observed at bottom of
aopioooioii.								

ATTACHMENT 4

Ground Level Color Photographs



PHOTOGRAPH 1 View of Project Area, Facing Northeast Photo Date: July 17, 2019



PHOTOGRAPH 2 View of Project Area, Facing Northwest Photo Date: July 17, 2019





PHOTOGRAPH 3 View of Vernal Pool in Central Portion of Project Area, Photopoint 3, Facing North Photo Date: November 1, 2019



PHOTOGRAPH 4
View of Vernal Pool in Eastern Portion of Project Area,
Photopoint 4, Facing Southwest
Photo Date: November 1, 2019





PHOTOGRAPH 5 View of Northeastern Portion of Project Area, Photopoint 5, Facing Northeast Photo Date: November 1, 2019



View of Vernal Pool in Northeastern Portion of Project Area,
Photopoint 6, Facing Northeast
Photo Date: November 1, 2019





PHOTOGRAPH 7 View of Vernal Pool in Northeastern Portion of Project Area, Photopoint 7, Facing Southwest Photo Date: November 1, 2019



PHOTOGRAPH 8

View of Swale in East-Central Portion of Project Area, Photopoint 7, Facing West Photo Date: November 1, 2019



ATTACHMENT 5

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