APPENDIX B2 JURISDICTIONAL DELINEATION

June 29, 2022

JN 189002

QUINN COMMUNITIES, LLC Attn: *Stefan LaCasse* 364 2nd Street, #5 Encinitas, California 92024

SUBJECT:Delineation of State and Federal Jurisdictional Waters for the proposed Coronado
Condos Project – City of Menifee, County of Riverside, California

Dear Mr. LaCasse:

Michael Baker International (Michael Baker) has prepared this report to document the results of a detailed literature review and formal delineation of State and federal jurisdictional waters, including wetlands, that was conducted for the proposed Coronado Condos Project (project or project site) located in the City of Menifee, Riverside County, California. Specifically, the delineation was conducted to identify and document the extent of aquatic and other hydrologic features within the project site that potentially fall under the jurisdictional authority of the U.S. Army Corps of Engineers (USACE), the Regional Water Quality Control Board (RWQCB), and the California Department of Fish and Wildlife (CDFW). This report summarizes the methodology utilized throughout the course of the delineation, defines the jurisdictional authority of the regulatory agencies, and documents the findings made by Michael Baker. This report presents Michael Baker's determination of jurisdictional boundaries based on the most up-to-date regulations, written policy, and guidance approved by the regulatory agencies. However, please note that only the regulatory agencies can make a final determination of jurisdictional limits.

PROJECT LOCATION

The project site is located within the City of Menifee, generally to the north of Newport Road, south of the San Jacinto River, east of State Route 74, and west of Interstate 215 (refer to Figure 1, *Regional Vicinity*, provided in Attachment A). The project site is depicted in Section 20, Township 5 South, Range 3 West, on the U.S. Geological Survey's (USGS) *Romoland, California* 7.5-minute quadrangle map (refer to Figure 2, *Project Vicinity*). Specifically, the project site is composed of assessor's parcel number (APN) 335-440-001, APN 335-440-002, and a portion of right-of-way along Esther Lane, and totals approximately 10.02 acres located to the south of Thornton Avenue, east of Uppercrest Court, and west of Murrieta Road (refer to Figure 3, *Project Site*).

PROJECT DESCRIPTION

The proposed project includes the development of up to 78 multi-family condominium units on an approximately 9.70 gross acres/6.50 net acre site. A total of 210 parking spaces are proposed and divided between dedicated garage parking and open parking stalls. The proposed project also includes one open space area and two water quality retention basins; one of the basins is located at the center of the project site and the other on the southeast corner.

STATE AND FEDERAL REGULATIONS

There are three key agencies that regulate activities within inland lakes, streams, wetlands, and riparian areas in California. The USACE regulates activities that result in the discharge of dredged or fill material into waters of the U.S. (WoUS), including wetlands, pursuant to Section 404 of the federal Clean Water Act (CWA) and Section 10 of the Rivers and Harbors Act. Of the State agencies, the RWQCB regulates discharges to waters of the State, including wetlands, pursuant to Section 401 of the CWA and Section 13263 of the California Porter-Cologne Water Quality Control Act (Porter-Cologne Act), and the CDFW regulates alterations to lakes, streambeds, and riparian habitats pursuant to Section 1600 *et seq.* of the California Fish and Game Code (CFGC).

LITERATURE REVIEW

Prior to conducting the field delineation, Michael Baker conducted a thorough review of relevant literature and materials to obtain a general understanding of the environmental setting and preliminarily identify features/areas within the project site that may fall under the jurisdiction of the regulatory agencies. Refer to the subsections below for a summary of relevant materials, databases, technical reports, and guidance documents that were obtained/reviewed by Michael Baker. In addition, a complete list of references is provided as Attachment G to this report.

San Jacinto River Watershed

The project site is located within the Menifee Hydrologic Subarea (HSA 802.12) of the Perris Hydrologic Area (HA 802.10), which in turn is located within the San Jacinto Valley Hydrologic Unit (HU 802.0) of the larger San Jacinto River Watershed (HUC 18070202). The watershed covers approximately 765 square miles within western Riverside County and is tributary to the Santa Ana River through Lake Elsinore and Temescal Wash. Dominant hydrologic features in the watershed include the San Jacinto River, Salt Creek, Perris Valley Storm Drain, Mystic Lake, Perris Reservoir, Canyon Lake, and Lake Elsinore.

<u>Soils</u>

According to the *Custom Soil Resources Report for Western Riverside Area, California* (U.S. Department of Agriculture [USDA] 2022a), the project site is underlain by two soil map units: Garretson Very Fine Sandy Loam, 2 to 8 Percent Slopes (GaC); and Porterville Clay, 0 to 8 Percent Slopes (PoC). Michael Baker also reviewed the *Hydric Soils List for California* (USDA 2022b) to preliminarily verify whether any of the

soil map units listed above were classified as a "hydric soil" in the Western Riverside Area. According to the aforementioned list, none of the soil map units occurring within the project site are listed as hydric.

National Wetlands Inventory

Based on a review of the U.S. Fish and Wildlife Service's (USFWS) National Wetlands Inventory (USFWS 2022), a small wetland feature runs through the existing residential development to the west before terminating near the existing Hillman Street Storm Drain (HSSD) Channel in the southwest portion of the project site (refer to Attachment B). This wetland feature falls within the riverine system and is described as an intermittent streambed with a seasonally flooded water regime (R4SBC).

Flood Zone

Based on a review of the Federal Emergency Management Agency's (FEMA) National Flood Hazard Layer Viewer (FEMA 2022), the project site is located within Flood Insurance Rate Map (FIRM) Panel Number 06065C2055H. Specifically, the project site is located in Zone X and described as an area of minimal flood hazard (refer to Attachment C).

National Hydrography Dataset

Based on a review of the National Hydrography Dataset Advanced Viewer (USGS 2022b), two aquatic features occur within the project site. The first feature has been identified as a canal/ditch and appears to have been mapped in association with the existing HSSD Channel in the southern portion of the project site, while the second feature has been identified as an unnamed ephemeral drainage and appears to flow in northwest to southeast direction before discharging into the HSSD Channel near the southern boundary of the project site (refer to Attachment D).

FIELD METHODOLOGY

Michael Baker wetland delineators Tom Millington and April Nakagawa conducted a jurisdictional delineation/field survey of the project site on April 7, 2022, using the most recent, agency approved methodology, to identify and map the extent of State and federal jurisdictional features (i.e., wetland and non-wetland WoUS, waters of the State, streambed, riparian vegetation) located within the boundaries of the project site. Based on the project's location, potential State and federal wetlands were delineated in accordance with the methods and guidance provided in the *Corps of Engineers Wetland Delineation Manual* (Environmental Laboratory 1987), the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region, Version 2.0* (Arid West Regional Supplement; USACE 2008), and the *State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State* (State Water Resources Control Board 2019).

While in the field, jurisdictional features were recorded on an aerial photograph at a scale of 1'' = 120' using topographic contours and visible landmarks as guidelines. Data points were recorded in the field using a Garmin GPS Map 64 Global Positioning System (GPS) to identify specific widths and length of

jurisdictional features and the location of any ordinary high water mark (OHWM) indicators, photograph points, soil pits, and other pertinent site characteristics. These data were then uploaded as a .shp file and confirmed/refined to ensure accuracy and consistency with hardcopy notes and aerial mapping completed in the field. Michael Baker then used ESRI ArcGIS Pro software to calculate the total acreage of jurisdictional features and prepare final project figures.

RESULTS

Non-Wetland Features

The HSSD collects/transports municipal stormwater from the adjacent residential development and surrounding foothills before discharging into an earthen flood control channel located near the western boundary of the project site (refer to Attachment E, *Site Photographs*). The HSSD Channel is maintained by the Riverside County Flood Control & Water Conservation District (RCFCD) and extends in a northwest to southeast direction for approximately 285 linear feet through the southwest corner of the project site before terminating at Esther Lane. Based on the results of the field survey, surface water exiting the HSSD Channel appears to flow along/across Esther Lane as unconfined/overland sheet flow and ultimately fanout and infiltrate on the southern portion of the project site. No surface water was observed within the channel during the field survey. However, evidence of an OHWM was observed via a natural line impressed on the bank, change in particle size distribution, presence of a wrack line, and shelving.

Due to ongoing maintenance by RCFCD, a majority (approximately 75%) of the channel is devoid of vegetation and consists of heavily compacted soils. However, there are some areas at the downstream end of the channel that appear to not be maintained which has allowed some vegetation to establish/persist. Plant species observed within the downstream portion of the channel were mostly non-native and included short-pod mustard (*Hirschfeldia incana*, UPL), London rocket (*Sisymbrium irio*, UPL), common fiddleneck (*Amsinckia menziesii*, UPL), bicolor lupine (*Lupinus bicolor*, UPL), foxtail barley (*Hordeum murinum*, FACU), red brome (*Bromus rubens*, UPL), ripgut brome (*Bromus diandrus*, UPL), wild oats (*Avena fatua*, UPL), as well as a small patch (4 individuals) of African sumac (*Searsia lancea*, NI), Mexican fan palm (*Washingtonia robusta*, FACW), salt cedar (*Tamarix ramosissima*, FAC), and Goodding's black willow (*Salix gooddingii*, FACW).

Wetland Features

In order to confirm the presence/absence of wetlands within the project site, two soil pits (SP1 and SP2) were dug in areas where wetland hydrology or hydrophytic vegetation was observed. SP1 was located in an area where urban runoff and stormwater from surrounding residential development flows along Thornton Avenue via curb and gutter and eventually collects/infiltrates on the northwest corner of the project site. Plant species in this location included a mixture of the upland disturbance-tolerant non-native plant species and native hydrophytic vegetation including red brome (UPL), ripgut brome (UPL), burclover (*Medicago polymorpha*, FACU), annual yellow sweetclover (*Melilotus indicus*, FACU), southern cattail (*Typha domingensis*, OBL), seep monkeyflower (*Erythranthe guttata*, OBL), spike rush (*Eleocharis parishii*,

FACW), and tall flatsedge (*Cyperus eragrostis*, FACW). SP1 was excavated to a depth of approximately 7 inches; suspected concrete or bedrock below the terminal point of the pit made it difficult to excavate further. Soils exhibited a loamy/clayey texture and displayed a matrix color of 10YR 3/4 when moist. Redoximorphic features displaying a color of 7.5YR 4/4 were observed consistently throughout the entire matrix confirming the presence of hydric soils. However, due to the absence of hydrophytic vegetation, it was determined that SP1 two (hydric soils and wetland hydrology) of the three required parameters, and thus did not qualify as a wetland (refer to Attachment F, *Wetland Determination Data Forms*).

SP2 was located within the HSSD Channel due to the presence of Goodding's black willow (FACW) and Mexican fan palm (FACW) and both primary and secondary hydrology indicators (i.e., surface soil cracks, sediment deposits, drift deposits, saturation visible on aerial imagery). SP2 was excavated to a depth of approximately 16 inches. Soils exhibited a sandy texture and displayed a matrix color of 10YR 3/3 when moist with no redoximorphic features observed. Due to the absence of hydric soils, it was determined that SP2 only met two (hydrophytic vegetation and hydrology) of the three required parameters, and thus did not qualify as a wetland (refer to Attachment F, *Wetland Determination Data Forms*).

FINDINGS

The HSSD Channel occurs within the southwest portion of the project site and exhibits a surface hydrologic connection to the Salt Creek Channel (Relatively Permanent Water) and ultimately Canyon Lake (Traditional Navigable Water). Therefore, the HSSD Channel would qualify as WoUS and fall under the regulatory authority of the USACE, RWQCB, and CDFW. Based on the results of the field delineation, approximately 0.07 acre (285 linear feet) of USACE/RWQCB jurisdiction (non-wetland WoUS) and approximately 0.19 acre (285 linear feet) of CDFW jurisdiction (streambed) occurs within the project site (refer to Table 1 below).

				Acreage (I	Linear Feet)	
Feature Name	Cowardin	Class of Aquatic	USACE/	RWQCB	CD	FW
reature rvanie	Class	Feature	Non-Wetland WoUS	Wetland WoUS	Streambed	Riparian
HSSD Channel	Riverine	Non-Wetland	0.07 (285)	0.00 (0)	0.19 (285)	0.00 (0)
		TOTAL*	0.07 (285)	0.00 (0)	0.19 (285)	0.00 (0)

Table 1: State and Federal Jurisdictional Resources

*Total may not equal to sum due to rounding.

CONCLUSIONS AND RECOMMENDATIONS

The USACE regulates discharge of dredged or fill material into WoUS pursuant to Section 404 of the CWA and Section 10 of the Rivers and Harbors Act. Based on a review of the conceptual site plan, approximately 0.07 acre (285 linear feet) of USACE jurisdiction (non-wetland WoUS) occurs within the project site and would potentially be impacted by the proposed project. Therefore, it would be necessary for the project proponent to obtain a Section 404 permit from the USACE prior to impacts occurring within USACE

jurisdictional areas. Since impacts to USACE jurisdiction are anticipated to be less than 0.50 acre, it is anticipated that the proposed project could be authorized via a Section 404 Nationwide Permit (NWP), specifically NWP No. 29: *Residential Developments*.

The RWQCB regulates discharges to surface waters pursuant to Section 401 of the CWA and Section 13263 of the California Porter-Cologne Water Quality Control Act. Based on a review of the conceptual site plan, approximately 0.07 acre (285 linear feet) of RWQCB jurisdiction (non-wetland WoUS) occurs within the project site and would potentially be impacted by the proposed project. Therefore, it would be necessary for the project proponent to obtain a Section 401 Water Quality Certification (WQC) from the RWQCB prior to impacts occurring within RWQCB jurisdictional areas.

The CDFW regulates alterations to lakes, streambeds, and riparian habitats pursuant to Section 1600 *et seq*. of the CFGC. Based on a review of the conceptual site plan, approximately 0.19 acre (285 linear feet) of CDFW jurisdiction (streambed) occurs within the project site and would potentially be impacted by the proposed project. Therefore, it would be necessary for the project proponent to obtain a Section 1602 Streambed Alteration Agreement (SAA) from the CDFW prior to impacts occurring within CDFW jurisdictional areas.

Please do not hesitate to contact me at (949) 246-7004 or <u>tommillington@mbakerintl.com</u> should you have any questions or require further information.

Sincerely,

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Tom Millington Senior Biologist/Regulatory Specialist Natural Resources & Environmental Services

Attachments:

- A. Project Figures
- B. USFWS National Wetlands Inventory Map
- C. FEMA Flood Insurance Rate Map
- D. USGS National Hydrography Dataset Advanced Viewer Map
- E. Site Photographs
- F. Wetland Determination Data Forms
- G. References

Attachment A

Project Figures



A B B B 5/25/2022 JN C:\Use

INTERNATIONAL

Source: ArcGIS Online, 2018

Figure 1



Source: USGS 7.5-Minute topographic quadrangle maps: Perris, California (2021), Lake Elsinore, Romoland, and Steele Peak, California (2022)





CORONADO CONDOS PROJECT DELINEATION OF STATE AND FEDERAL JURISDICTIONAL WATERS Project Site



Source: Nearmap (01/2022)

Figure 4



Figure 5

Attachment B

USFWS National Wetlands Inventory Map



U.S. Fish and Wildlife Service

National Wetlands Inventory (NWI) This page was produced by the NWI mapper Attachment C

FEMA Flood Insurance Rate Map

National Flood Hazard Layer FIRMette



Legend		
SEE FIS REPORT FOR D	ETAILED LEG	END AND INDEX MAP FOR FIRM PANEL LAYOUT
SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99 With BFE or Depth Zone AE, A0, AH, VE, AR Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>zone X</i> Future Conditions 1% Annual Chance Flood Hazard <i>zone X</i> Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i> Area with Flood Risk due to Levee <i>zone D</i>
OTHER AREAS	NO SCREEN	Area of Minimal Flood Hazard Zone X Effective LOMRs Area of Undetermined Flood Hazard Zone D
GENERAL		Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall
OTHER	B 20.2 17.5 8 8 8	Cross Sections with 1% Annual Chance Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary Coastal Transect Baseline Profile Baseline Hydrographic Feature
	The piran aut	Digital Data Available No Digital Data Available Unmapped an approximate elected by the user and does not represent noritative property location.
This map com digital flood m The basemap accuracy stant authoritative h was exported time. The NFH become super	plies with F algo f it is used if it is used ands and informa urd informa are is 24,22 s or amento s or amento t and effec s or amento s or s void if	EMA's standards for the use of not void as described below. Iplies with FEMA's basemap tion is derived directly from the evices provided by FEMA. This map 22 at 2.20 PM and does not iments subsequent to this date and tive information may change or ew data over time.

Attachment D

USGS National Hydrography Dataset Advanced Viewer Map

The National Map Advanced Viewer



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USGS The National Map: Orthoimagery and US Topo. Data USGS The National Map. Outnominagery and US ropo. Data refreshed January, 2022. USGS The National Map: National Hydrography Dataset. Data refreshed January, 2022. USGS WBD - Watershed Boundary Dataset. Data refreshed

Attachment E

Site Photographs



Photograph 1: View of the Hillman Street Storm Drain (HSSD) outlet located near the western boundary of the project site, facing north (upstream).



Photograph 2: View from northern slope/bank of HSSD Channel in the southwest corner of the project site, facing southeast (downstream).



Photograph 3: View of downstream terminus of the HSSD Channel and patch of non-native trees (i.e., tamarisk, African sumac), facing northwest (upstream).



Photograph 4: View of swale feature to the east/south of Esther Lane that lacked evidence of a continuous OHWM or defined bed and bank, facing east.



Photograph 5: View of non-native grasses and other upland plant species near the southeast corner of the project site, facing west.



Photograph 6: View of surface water flowing east along Thornton Avenue to the northwest corner of the project site where flows pond/infiltrate, facing east.



Photograph 7: View of hydrophytic vegetation observed in the northwest corner of the project site due to urban runoff from Thornton Avenue, facing northwest.



Photograph 8: View of small strip of hydrophytic vegetation along the northern boundary of the project site where it meets Thornton Avenue, facing southwest.

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Photograph 9: View of along the northern boundary of the project site and absence of hydrophytic vegetation, facing east.



Photograph 10: View of non-native grasses and other upland plant species along the northern boundary of the project site and Thornton Avenue, facing west.

Attachment F

Wetland Determination Data Forms

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Arid West Region See ERDC/EL TR-08-28; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: Corona	do Condos P	City	/County:	Menifee / Rive	erside		Sampli	ing Date:	04/07/22		
Applicant/Owner:	pplicant/Owner: Quinn Communities, LLC Sampling Poir									ng Point:	SP1
Investigator(s): T. Millington and A. Nakagawa Section, Township, Range: Section 20, Township 5 South, Range									e 3 West		
Landform (hillside, te	errace, etc.):	Roadside	e Ditch/Swale	eLocal rel	lief (conca	ive, convex, no	one):	Concave		Slo	pe (%): <u>1</u>
Subregion (LRR):	LRR C	Lat:	33.724938 °			Long: <u>-117.21</u>	0373 °			Datum:	WGS84
Soil Map Unit Name: Garretson Very Fine Sandy Loam, 2 to 8 Percent Slopes (GaC) NWI classification: N/A											
Are climatic / hydrolo	ogic condition	s on the	site typical fo	or this time of year?	Yes	No	X	(If no, exp	olain in Re	emarks.)	
Are Vegetation	, Soil	, or Hydro	ology:	significantly disturbed	d? Are "l	Normal Circum	nstance	s" present?	Yes	X N	0
Are Vegetation	, Soil	, or Hydro	ology	naturally problematic	? (If ne	eded, explain a	any ans	swers in Rer	marks.)		
SUMMARY OF	FINDINGS	– Attac	ch site ma	p showing sam	pling p	oint locatio	ons, tr	ansects,	import	ant fea	tures, etc.

Hydrophytic Vegetation Present?	Yes		No <u>X</u>	Is the Sampled Area			
Hydric Soil Present?	Yes	Х	No	within a Wetland?	Yes	No	Х
Wetland Hydrology Present?	Yes	Х	No			_	

Remarks:

Significant drought conditions present. Thornton Avenue to north, vacant land that is routinely disked/maintained and dominated by various upland/non-native species to south and east, and residential development to west.

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator					
Tree Stratum (Plot size: <u>30 feet</u>)	% Cover	Species?	Status	Dominance Test worksheet:				
1		· . <u></u>		Number of Dominant Species Th	at .	<i></i>		
2		·		Are OBL, FACW, or FAC:	1	(A)		
3		·		Total Number of Dominant Speci	es			
4				Across All Strata:	3	(B)		
		=Total Cover		Percent of Dominant Species That	at			
Sapling/Shrub Stratum (Plot size: 15 feet)				Are OBL, FACW, or FAC:	33.3%	(A/B)		
1								
2				Prevalence Index worksheet:				
3				Total % Cover of:	Multiply by	/:		
4				OBL species 24 x 1	= 24	_		
5				FACW species 20 x 2	40			
		=Total Cover		FAC species 0 x 3	0 =	_		
Herb Stratum (Plot size: 5 feet)				FACU species 6 x 4	= 24			
1. Bromus madritensis	30	Yes	UPL	UPL species 50 x 5	= 250	_		
2. Typha domingensis	20	Yes	OBL	Column Totals: 100 (A)	338	(B)		
3. Bromus diandrus	20	Yes	UPL	Prevalence Index = $B/A = 3.38$				
4. Eloecharis parishii	15	No	FACW					
5. Medicago polymorpha	5	No	FACU	Hydrophytic Vegetation Indicat	ors:			
6. Cyperus eragrostis	5	No	FACW	Dominance Test is >50%				
7. Erythranthe guttata	4	No	OBL	Prevalence Index is ≤3.0 ¹				
8. Melilotus indicus	1	No	FACU	Morphological Adaptations ¹ (Provide suppo	orting		
	100	=Total Cover		data in Remarks or on a se	eparate sheet))		
Woody Vine Stratum (Plot size: 30 feet)				Problematic Hydrophytic Veg	jetation ¹ (Expl	ain)		
1.				¹ Indicators of hydric soil and wet	and hydrology	must		
2.				be present, unless disturbed or p	roblematic.	maor		
		=Total Cover		Hydrophytic				
				Vegetation				
% Bare Ground in Herb Stratum 0 % C	over of Biot	tic Crust 0		Present? Yes	No <u>X</u>			

Remarks:

Plot size and shape constrained by the topography of the ditch and the presence of Thorton Avenue (paved roadway) to the north. Clear and rapid transition from hydrophytic to upland/non-hydrophytic plant species.

SOIL

Profile Desc	ription: (Describ	be to the depth	n needed to doc	ument t	he indica	ator or c	confirm the absence	of indicators.)		
Depth	Matrix	<u>< </u>	Redo	ox Featur		. 2				
(inches)	Color (moist)	%	Color (moist)	%	Туре	Loc	Texture	Remarks		
0 - 7	10YR 3/4	93	7.5YR 4/4	7	<u> </u>	M	Loamy/Clayey	Faint redox concentrations		
				• —		<u> </u>				
					·					
¹ Type: C=Co	oncentration, D=D	epletion, RM=F	Reduced Matrix,	CS <u>=Cov</u>	ere <u>d or C</u>	oated S	and Grains. ² Loc	ation: PL=Pore Lining, M=Matrix.		
Hydric Soil	Indicators: (Appli	icable to all L!	RRs, unless oth	erwise r	noted.)		Indicato	rs for Problematic Hydric Soils ³ :		
Histosol	(A1)		Sandy Re	edox (S5))		1 cm	n Muck (A9) (LRR C)		
Histic Ep	pipedon (A2)		Stripped I	Matrix (S	6)		2 cm	n Muck (A10) (LRR B)		
Black Hi	istic (A3)		Loamy M	ucky Min	eral (F1)		Iron-	Manganese Masses (F12) (LRR D)		
Hydroge	n Sulfide (A4)		Loamy Gl	leyed Ma	trix (F2)		Red	uced Vertic (F18)		
Stratified	d Layers (A5) (LRF	R C)	Depleted	Matrix (F	-3)		Red	Parent Material (F21)		
1 cm Mu	uck (A9) (LRR D)	-	Redox Da	ark Surfa	ce (F6)		Very	/ Shallow Dark Surface (F22)		
Depleted	d Below Dark Surf:	ace (A11)	Depleted	Dark Sur	rface (F7))	Othe	er (Explain in Remarks)		
Thick Da	ark Surface (A12)	•	X Redox De	epressior	ıs (F8)			``		
Sandy M	/lucky Mineral (S1))		•	•					
Sandy G	eleyed Matrix (S4)	³ Indicator	s of hydrophytic '	vegetatic	on and we	etland hy	/drology must be pres	ent, unless disturbed or problematic.		
Restrictive	Laver (if observe	d):				<u> </u>				
Tvpe:	Suspected Con	crete/Bedrock								
Depth (inches): 7 Hydric Soil Present? Yes X No										
Remarks:										
HYDROLO	JGY									
Wetland Hyd	drology Indicator	'S:								
Primary India	cators (minimum o	of one is require	ed; check all that	apply)			<u>Seconda</u>	ary Indicators (minimum of two required)		
X Surface	Water (A1)		Salt Crust	t (B11)			Wate	er Marks (B1) (Riverine)		
Hign vva	ater Table (A2)		Biotic Cru	ist (B12)	(D40)		Seal	ment Deposits (B2) (Riverine)		
X Saturatio	on (A3)	!)	Aquatic in	vertebra	tes (B13)	1		Deposits (B3) (Riverine)		
	larks (B1) (Nonriv	erine)	Hyarogen) Lining D		nage Patterns (B10)		
	It Deposits (DZ) (Nonrin	(Ohriverine)			ieres un i		00ts (U3)			
	DOSITS (B3) (INOTHIN	/erine)	Presence Pecont In		Ced Iron ((C4)	Uidy X_Satu	flish Burrows (Co)		
	Soli Cracks (Do)	al Imagany (B7)		Di Reduc		llea Son	IS (CO) <u>A</u> Salu			
	Sh VISIDIE UN AENe	א ווואטפוא (אי א		K Surrace	3 (U1) Domarke)	۱	51ai	Noutral Tast (D5)		
		<i>י</i> י		pianini	(emails)					
Field Ubser	vations:	V V	N I -	Death ("»),	0				
Surface wat	er Present?	Yes X		Deptn (i	inches):	0				
Vvater rable	Present?	Yes		Depth (inches):		Wotland Hydrolo	The Property Ves Y No		
	resent:	Yes A		υεριτη	ncnes).	0		gy Present? res <u>A</u> NO		
(Includes cap	Dillary Tringe,		oitoring well peri	al photos		- incher	tione) if available:			
	Colueu Dala (Sirea	alli yauye, mon	illoinig wen, aena	al priotos	, previous	s insher	(10115), 11 available.			
Remarks:										
Surface wate	er observed flowing	a downslope of	f impervious resid	dential de	evelopme	ent and r	oad to the west with v	vater actively collecting along the		
curb/gutter s	system and dischar	raing directly in	nto subject featur	e before	percolati	ng into ç	pround and dissipating	1. No inlet, outlet, or culvert observed -		
feature appe	ars to be supporte	entirely by u	rban runoff from	Thorntor	1 Road ar	nd adjac	ent residential develop	pment.		

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Arid West Region See ERDC/FL TR-08-28: the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

See ERDC/EL TR-06-26, the proponent	agency is C		,О-К		() later		00 /0, parag	,	'
Project/Site: Coronado Condos Project		City/Cour	nty: Menifee /	Rivers	ide		Sampling D	ate: 04/0	17/22
Applicant/Owner: Quinn Communities, LLC				St	tate:	CA	Sampling Po	oint:	SP2
Investigator(s): T. Millington and A. Nakagawa Section, Township, Range: Section 20, Township 5 South, Range 3 West									est
Landform (hillside, terrace, etc.): Earthen Channel Invert	Loca	l relief (co	ncave, convex	k, none	e): C	oncave		Slope (%)	: 3
Subregion (LRR): LRR C Lat: 33.723226 °			Long: -117	7.2099	39 °		Dat	um: WG	S84
Soil Map Unit Name: Porterville Clay, 0 to 8 Percent Slop	es (PoC)		_ ·		N	WI classific	ation: N/A		
Are climatic / hydrologic conditions on the site typical for t	his time of vea	r? `	/es	No	Х	(If no. expla	ain in Remar	ks.)	
Are Vegetation X Soil or Hydrology sig	nificantly distur	hed? A	re "Normal Cir	cumst	ances'	' present?	Yes X	No	
Are Vegetation Soil or Hydrology pat		atic? (If		ain anı	u answ		arks)		-
The vegetation, son, or hydrologynaturally problematic? (If needed, explain any answers in Remarks.)									
SUMMARY OF FINDINGS – Attach site map	showing sa	ampling	g point loca	ation	s, tra	insects, i	mportant	features	, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes X No	X	Is the withir	Sampled Are a Wetland?	a	Y	′es	No <u>X</u>	,	
Remarks: Significant drought conditions present. Unimproved flood control channel extending to the southeast from Hillman Street Storm Drain concrete culvert/outlet. Channel comprised of earthen invert/banks and is routinely maintained by RCFCD.									
VEGETATION – Use scientific names of pla	nts.								
Tree Stratum (Plot size: 30 feet)	Absolute Do % Cover Sp	minant ecies?	Indicator Status	Domi	nance	Test work	sheet:		
1. Tamarix ramosissima	45	Yes	FAC	Numb	er of E	Dominant Sp	pecies That		
2. <u>Salix gooddingii</u>	25	Yes	FACW	Are O	BL, FA	ACW, or FA	C:	2	_(A)
3. Searsia lancea	25	Yes	UPL	Total I	Numb	er of Domina	ant Species	_	(=)
4. Washingtonia robusta	5	No	FACW	Acros	s All S	strata:		3	— ^(B)
Sapling/Shrub Stratum (Plot size: 15 feet)	<u>100</u> =10ta	al Cover		Perce Are O	nt of D BL, FA	Dominant Sp ACW, or FA	ecies That C:	66.7%	(A/B)
1									
<u>/</u>		<u> </u>		Preva			ksneet:	Multinly h	<i>,</i> .
J.				I	ับเล่า %			wulliply by	/.

4. Washingtonia robusta	5	No	FACW	Across All Strata:		_	3	(B)
Sapling/Shrub Stratum (Plot size: 15 feet)	100	_=Total Cover		Percent of Domin Are OBL, FACW,	ant Speci or FAC:	es That -	66.7%	_(A/B)
2				Prevalence Inde	x worksh	eet:		
3.				Total % Cov	er of:		Multiply by	:
4.				OBL species	0	x 1 =	0	
5.				FACW species	30	x 2 =	60	
		=Total Cover		FAC species	45	x 3 =	135	
Herb Stratum (Plot size: 5 feet)		_		FACU species	0	x 4 =	0	
1.				UPL species	25	x 5 =	125	
2.				Column Totals:	100	(A)	320	(B)
3.				Prevalence Inc	dex = B/A	\ =	3.20	
4.								_
5.				Hydrophytic Veg	etation li	ndicators		
6.				X Dominance T	est is >50)%		
7.				Prevalence Ir	ndex is ≤3	.0 ¹		
8.				Morphologica	l Adaptati	ions ¹ (Prov	/ide suppo	rting
		=Total Cover		data in Re	marks or o	on a sepai	rate sheet)	
<u>Woody Vine Stratum</u> (Plot size: <u>30 feet</u>)		-		Problematic I	Hydrophyt	ic Vegetat	tion ¹ (Expla	ain)
1				¹ Indicators of hyd	ric soil an	d wetland	hydrology	must
2				be present, unles	s disturbe	d or probl	ematic.	
- % Bare Ground in Herb Stratum 100 % Co	ver of Bir	=Total Cover		Hydrophytic Vegetation Present?	Yes X	No		
			_					

Remarks:

Patch of 4 individual trees (75% non-native). Tamarisk (Tamarix ramosissima), African sumac (Searsia lancea), Mexican fan palm (Washingtonia robusta), and black willow (Salix gooddingii).

SOIL

Profile Desci	iption: (Describe t	o the depth	needed to docu Redox	Iment th	ne indica	itor or c	confirm the ab	sence of ind	icators.)	
(inches) Color (moist) % (Color (moist)	%	Tvpe ¹	Loc ²	Texture		Remarks		
0 16	10VP 3/3	100		/0	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Sandy		Single Lavor: No	Podov
0-10	10110.0/0	100					Gandy		Single Layer, NO	Redux
1								2.		
Type: C=Co	ncentration, D=Deple	etion, RM=R	Reduced Matrix, C	S=Cove	ered or Co	oated Sa	and Grains.	Location:	PL=Pore Lining, M=	Matrix.
Hydric Soil II	ndicators: (Applical	ole to all LF	Rs, unless othe	rwise n	oted.)		In	dicators for	Problematic Hydric	Solls":
Histosol (A1)		Sandy Rec	lox (S5)				1 cm Muck	(A9) (LRR C)	
Histic Epi	pedon (A2)		Stripped M	atrix (Se	5) 			2 cm Muck	(A10) (LRR B)	<i>"</i> - `
Black His	tic (A3)		Loamy Mu	cky Mine	eral (F1)			_ Iron-Manga	anese Masses (F12)	(LRR D)
Hydroger	Sulfide (A4)		Loamy Gle	yed Mat	rix (F2)			_Reduced V	ertic (F18)	
Stratified	Layers (A5) (LRR C)	Depleted N	latrix (F:	3)			-Red Parent	t Material (F21)	-
1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Very Shallow Dark Surface (F22)								:2)		
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Other (Explain in Remarks)										
	K Surface (A12)		Redox Dep	ression	s (F8)					
Sandy Mi	JCKY Mineral (S1)	3	a af hualaan hudia u			بمالم مرجا ا				- h l a va a ti a
Sandy Gi		Indicators		egetation	n and we	eliano ny	arology must b	e present, un	liess disturbed of pro	oplematic.
Restrictive L	ayer (if observed):									
Туре:	N/A		_							
Depth (in	ches):						Hydric Soil F	Present?	Yes	<u>No X</u>
Single soil lay of redox featu	rer consistent throug res, hydrogen sulfide	hout. Tree re ə, or other h	oots encountered ydric soil indicato	around rs obser	12.5" bu ved.	t dug ar	ound. Soil faileo	d to form a ba	all in hand when wet	. No evidence
HYDROLO	GY									
Wetland Hyd	rology Indicators:									
Primary Indic	ators (minimum of or	<u>ne is require</u>	ed; check all that a	apply)			<u>Se</u>	econdary Indi	cators (minimum of	two required)
Surface V	Vater (A1)		Salt Crust	(B11)				Water Mark	ks (B1) (Riverine)	
High Wat	er Table (A2)		Biotic Crus	t (B12)			<u>×</u>	Sediment E	Deposits (B2) (River	ine)
Saturatio	n (A3)		Aquatic Inv	ertebrat	es (B13)		<u>×</u>	Drift Depos	sits (B3) (Riverine)	
Water Ma	arks (B1) (Nonriverii	1e)	Hydrogen S	Sulfide (Ddor (C1))		_Drainage P	Patterns (B10)	
Sediment	Deposits (B2) (Non	riverine)		nizosph	eres on l		oots (C3)	Dry-Seasor	n Water Table (C2)	
	osits (B3) (Nonriveri	ne)	Presence of Presen	of Reduc	cea Iron (tion in Ti	(C4) llad Sail		Crayfish Bl	Urrows (C8) Misible on Asrial Ima	
X Surface s	DOII CIACKS (BO)	nonen (P7)	Recent Irol	n Reduc		lied Soli	s (C6) X		visible on Aerial Ima	agery (C9)
Inundatio	n visible on Aenai In ainod Loavos (B0)	hagery (D7)		Surrace	(C7)		_	_ Shallow Aq	al Tost (D5)	
					emarks)			TAC-Neulla	ai Test (DS)	
Field Observ	ations:			• • • •						
Surface Wate	er Present? Yes	3	No <u>X</u>	Depth (II	nches):					
Water Table I	Present? Yes	š <u> </u>	No <u>X</u>	Depth (II	nches): _		Wetlen d Ll	uduala au Dua		Na
Saturation Pro	esent? res	s		Depth (II	ncnes):		wetland H	yarology Pre	esent? res <u>x</u>	NO
Describe Bee			itoring well coriel	nhotoc	nroviour	inenee	tions) if availab			
N/A	ordeu Dala (Siredili	yauye, mon	atoning well, aelial	priotos,	PIENIOUS	ыпэрес	uons), ii avallal	J.C.		
Remarks:										
Numerous se	condary indicators m	et. Surface	soil cracks noted	through	iout upsti	ream po	rtion of channe	l, includina ne	ear the Hillman Stre	et Storm
Drain culvert/	outlet.							,		



Photograph F-1: View of SP1 soil pit taken within the northwest corner of the project site.



Photograph F-2: View of SP2 soil pit taken within invert of the Hillman Street Storm Drain (HSSD) Channel.

Attachment G

References

- Environmental Laboratory. 1987. *Corps of Engineers Wetlands Delineation Manual*. Technical Report Y-87-1. Vicksburg, MS: U.S. Army Engineer Waterways Experiment Station.
- Federal Emergency Management Agency (FEMA). 2022. National Flood Hazard Layer (NFHL) Viewer. Flood Insurance Rate Map (FIRM) Panel Number 06065C2055H. Effective date August 18, 2014. Accessed online at: <u>https://msc.fema.gov/portal/home</u>.
- Google, Inc. 2022. Google Earth Pro Imagery Version 7.3.4.8248, build date July 16, 2021. Historical Aerial Imagery from 1985 to 2021.
- Lichvar, R.W., D.C. Finnegan, M.P. Ericsson, and W. Ochs. 2006. Distribution of Ordinary High Water Mark Indicators and their Reliability in Identifying the Limits of "Waters of the United States" in the Arid Southwestern Channels. ERDC/CRREL TR-06-5. Hanover, New Hampshire: U.S. Army Engineer Research and Development Center, Cold Regions Research and Engineering Laboratory.
- Lichvar, R.W., and S.M. McColley. 2008. A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States: A Delineation Manual. ERDC/CRREL TR-08-12. Hanover, NH: U.S. Army Engineer Research and Development Center, Cold Regions Research and Engineering Laboratory.
- Regional Water Quality Control Board (RWQCB). 2019. *Water Quality Control Plan (Basin Plan) for the Santa Ana River Basin (Region 8)*. Updated June 2019. Available online at: <u>https://www.waterboards.ca.gov/santaana/water_issues/programs/basin_plan/</u>.
- State Water Resources Control Board. 2019. *State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State*. Effective May 28, 2020. Available online at: https://www.waterboards.ca.gov/water issues/programs/cwa401/wrapp.html.
- U.S. Army Corps of Engineers (USACE). 2008. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0). ERDC/EL TR-08-28. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
- USACE. 2016. Special Public Notice: Updated Map and Drawing Standards for the South Pacific Regulatory Division Regulatory Program. Issued on February 10, 2016.
- USACE. 2017. Special Public Notice: Minimum Standards for Acceptance of Aquatic Resources Delineation Reports. Issued on March 16, 2017.
- USACE. 2020. *National Wetland Plant List, Version 3.5.* U.S. Army Corps of Engineers, Engineer Research and Development Center, Cold Regions Research and Engineering Laboratory. Accessed online at: <u>https://wetland-plants.sec.usace.army.mil/nwpl_static/v34/home/home.html</u>.

- U.S. Department of Agriculture (USDA). 2022a. *Custom Soil Resources Report for Western Riverside Area, California*. Accessed online at: https://websoilsurvey.sc.egov.usda.gov/.
- USDA. 2022b. *Hydric Soils List for the Western Riverside Area, California*. Accessed online at: http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/use/hydric/.
- U.S. Fish and Wildlife Service (USFWS). 2022. National Wetlands Inventory. Accessed online at: http://www.fws.gov/wetlands/Data/Mapper.html.
- U.S. Geological Survey (USGS). 2022a. Romoland, California 7.5-minute Series Topographic Quadrangle Map.
- USGS. 2022b. National Hydrography Dataset Advanced Viewer. Accessed online at: https://viewer.nationalmap.gov/advanced-viewer/.

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