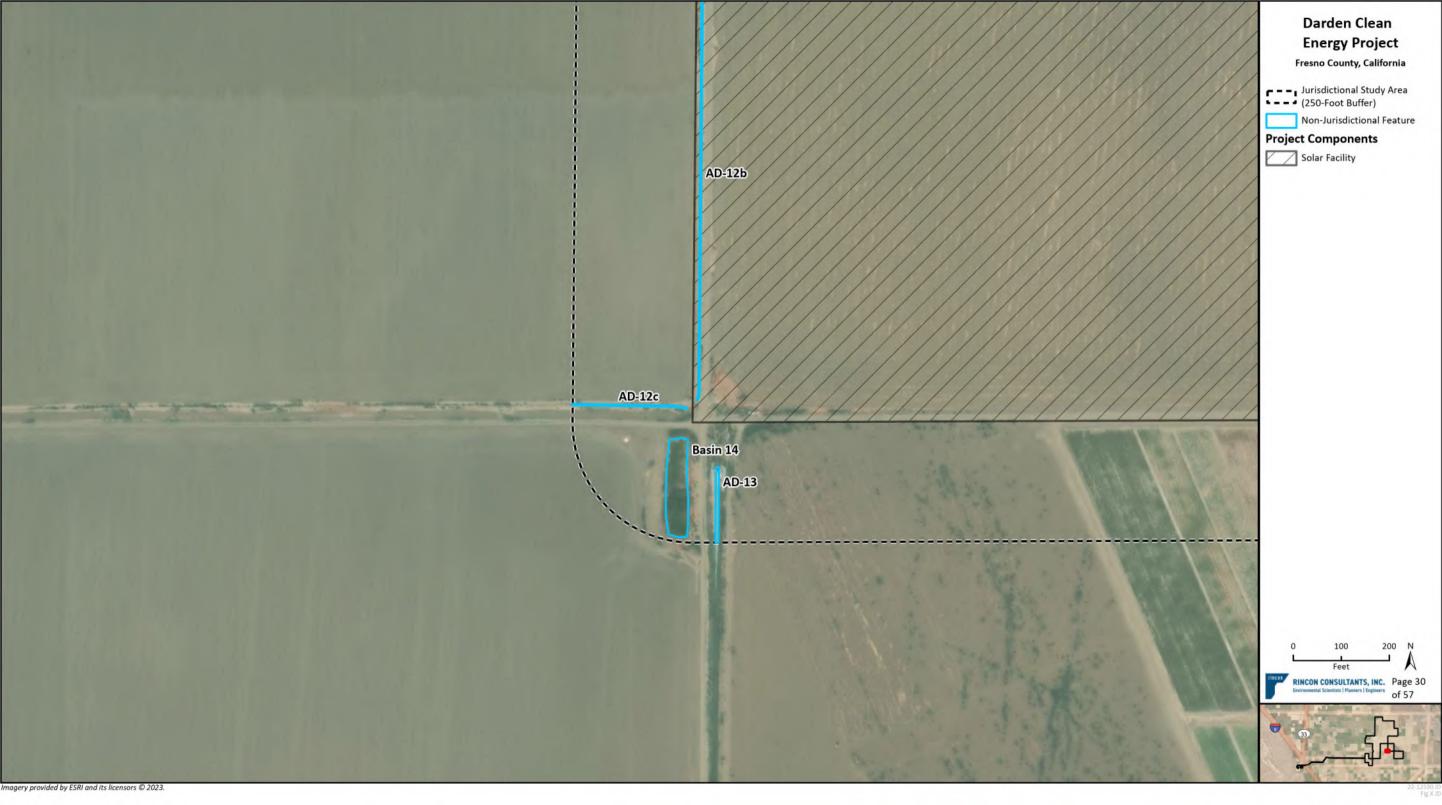
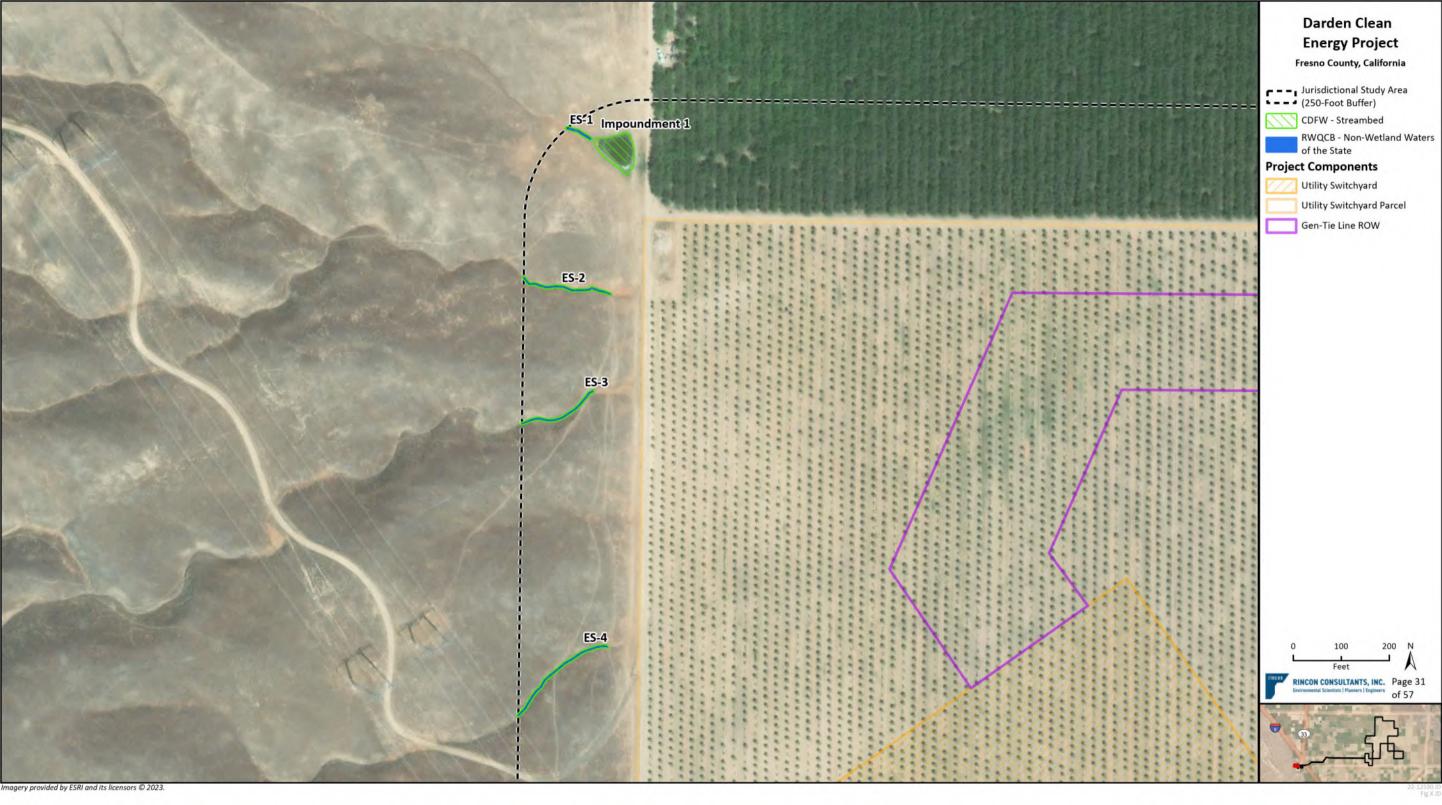
DOCKETED		
Docket Number:	23-OPT-02	
Project Title:	Darden Clean Energy Project	
TN #:	253038-3	
Document Title:	Appendix Q Biological Resources Assessment_Volume 3_Darden Clean Energy	
Description:	the potential impac	Regulatory Framework Special-Status Species Evaluation Tables Field Forms Site Photographs Species Compendia San Joaquin Kit Fox Habitat Assessment Swainson's Hawk Nesting Survey Report Analysis of Project Impacts to Swainson's
Filer:	Evelyn Langsdale	
Organization:	Rincon Consultants	
Submitter Role:	Applicant Consultant	
Submission Date:	11/7/2023 2:34:45 PM	
Docketed Date:	11/7/2023	

Appendix Q - Volume 3

Biological Resources Assessment



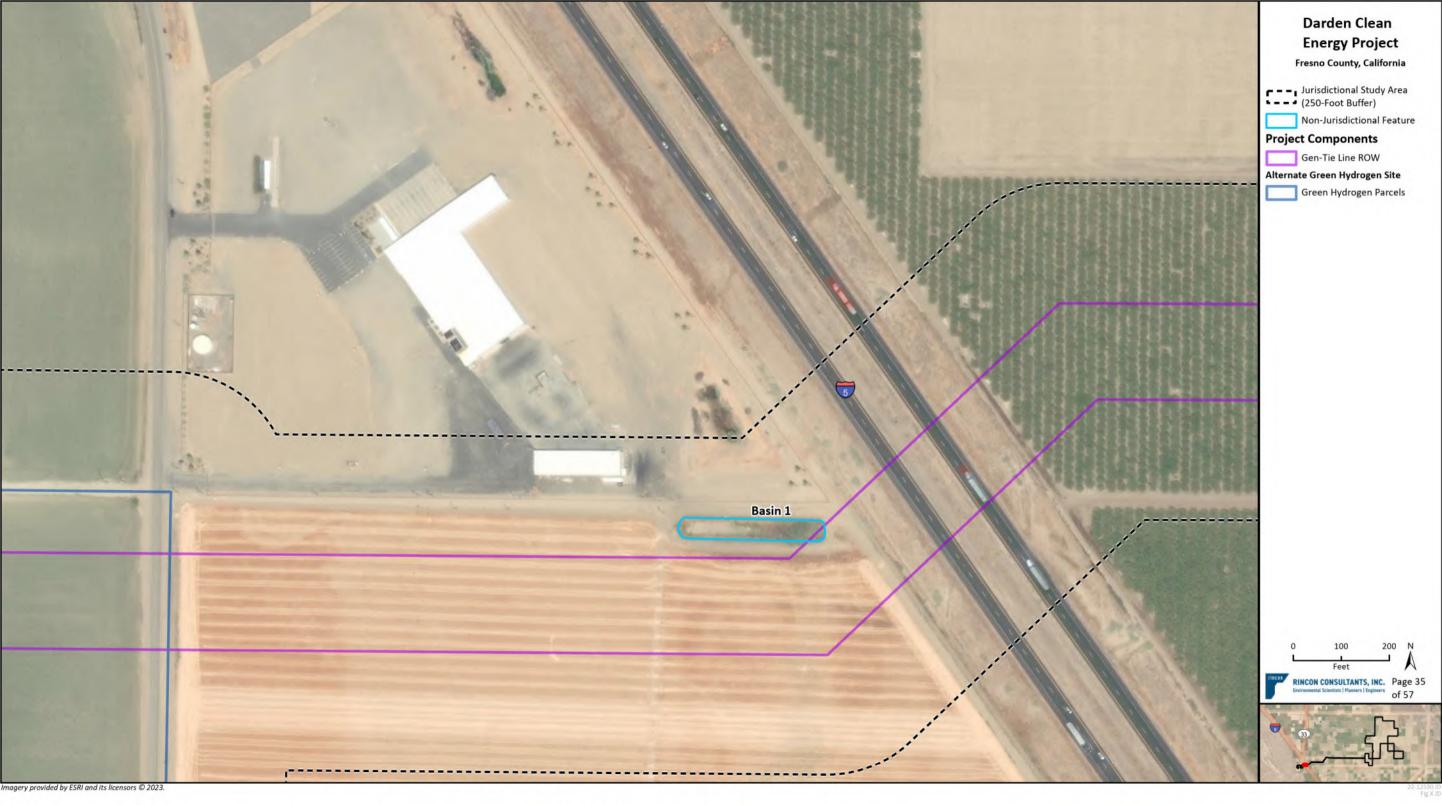








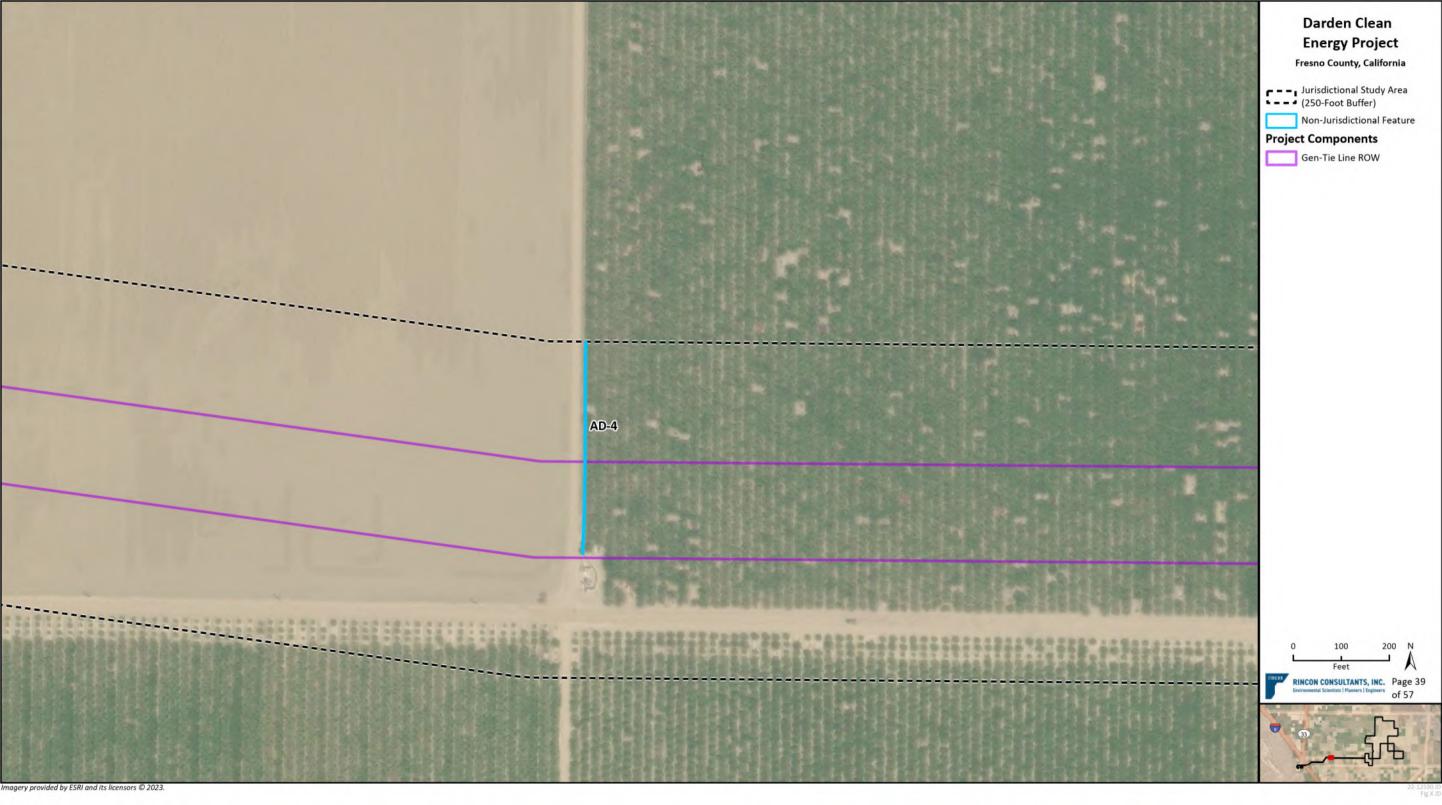








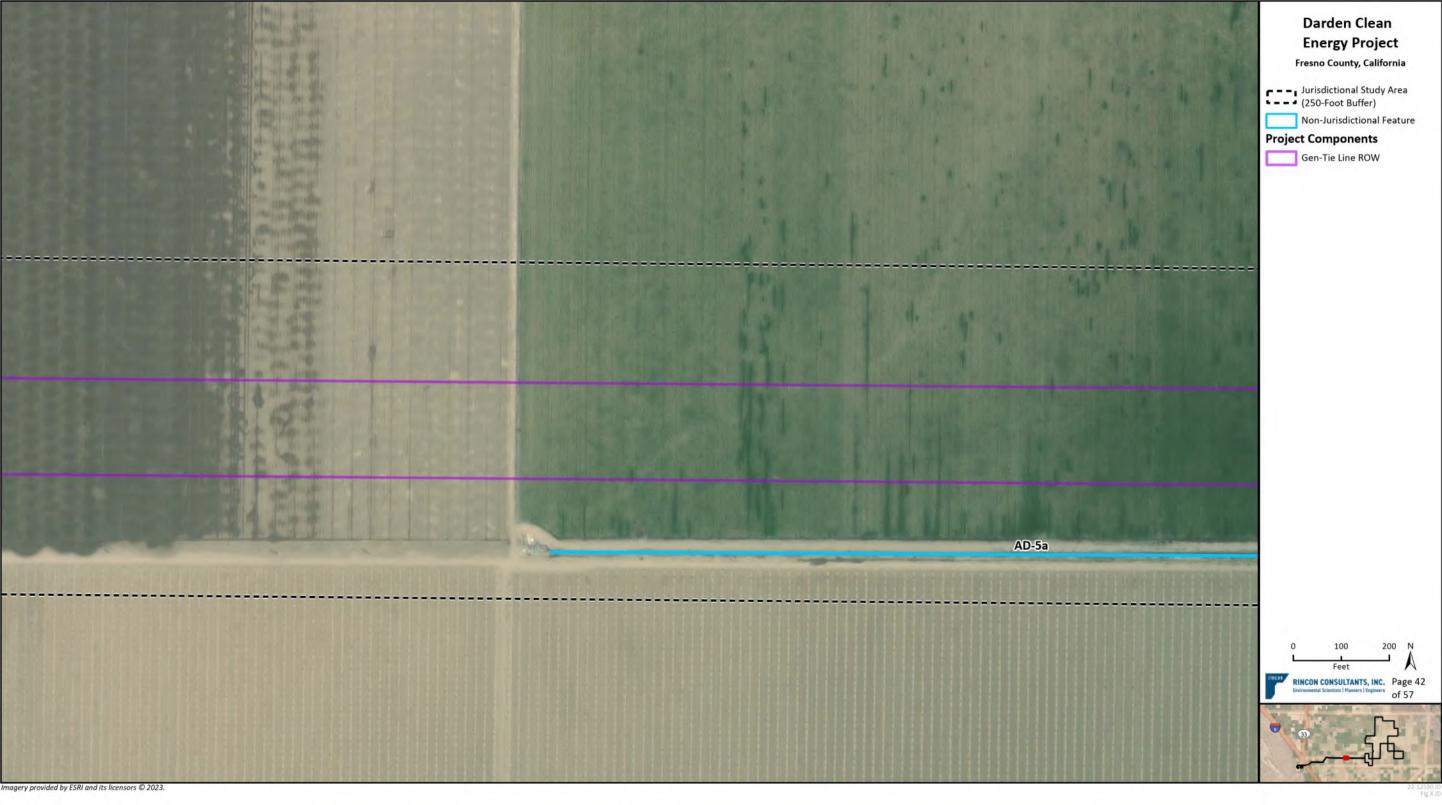


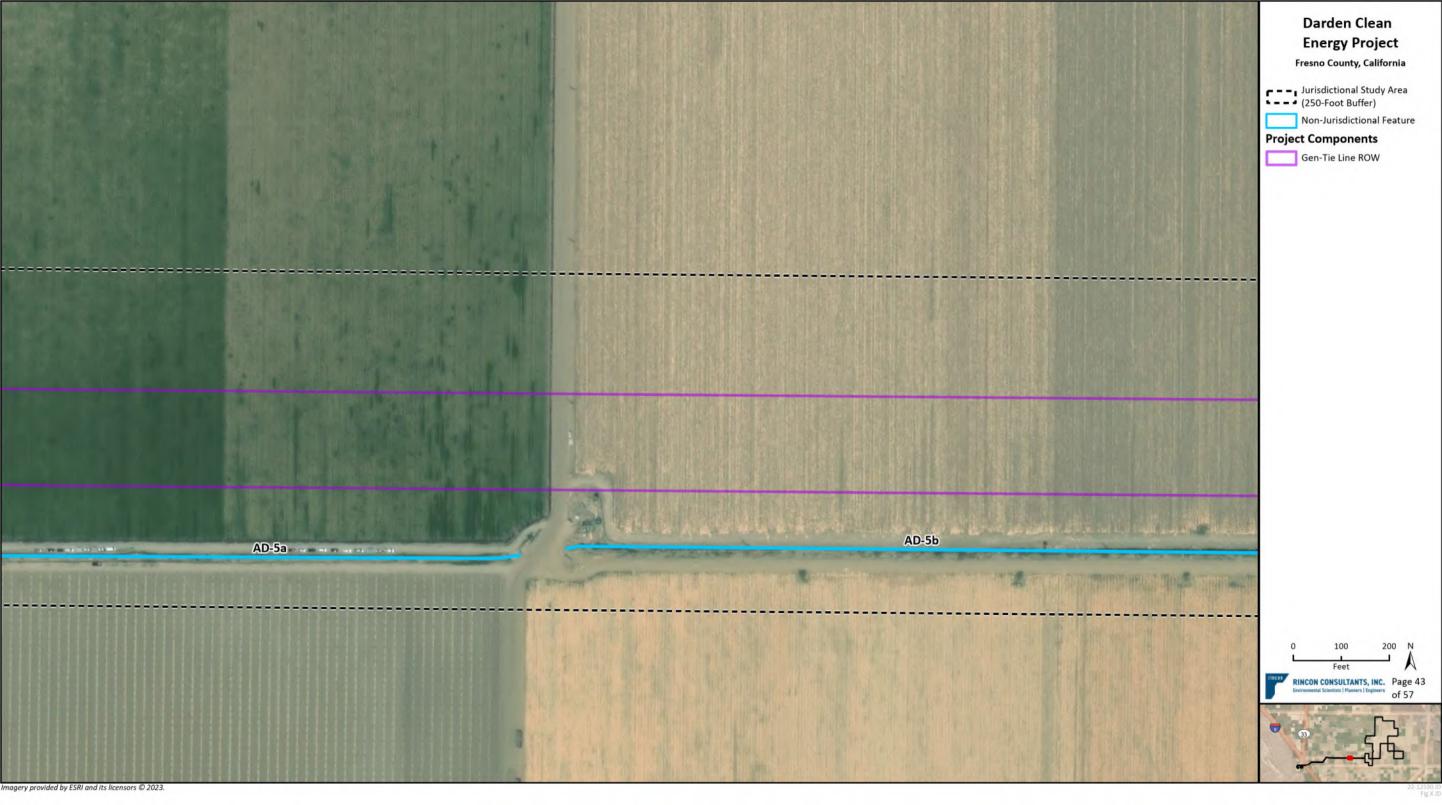




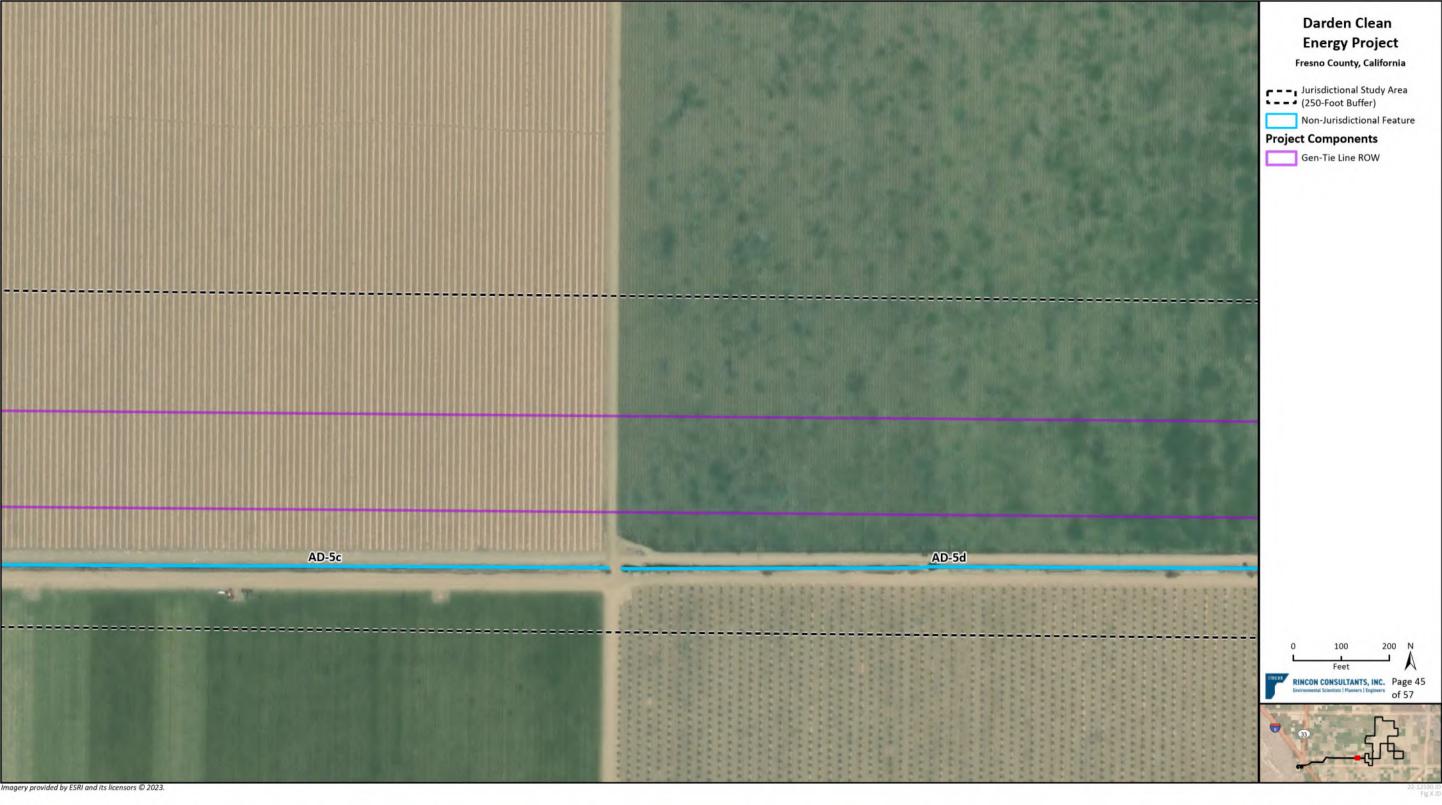


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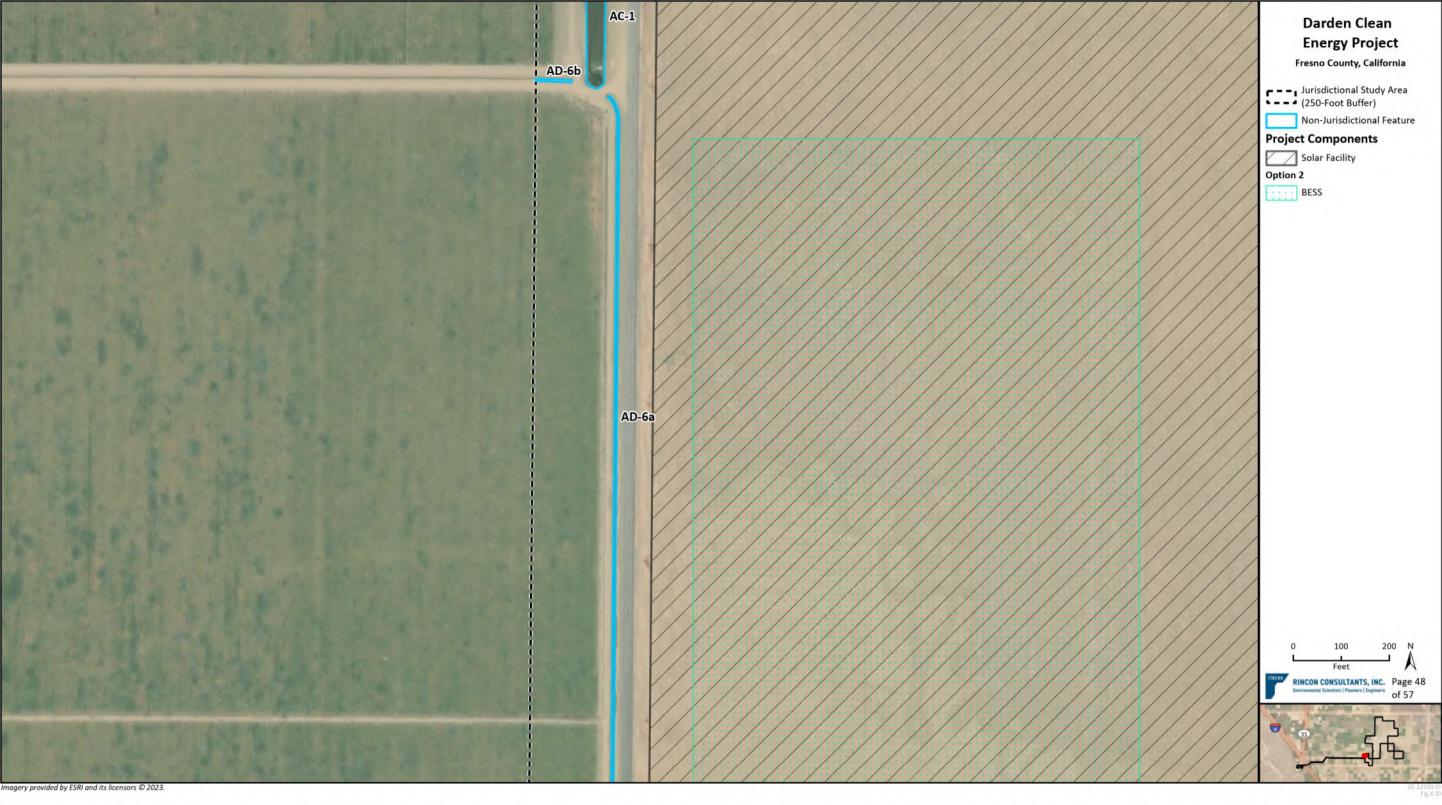


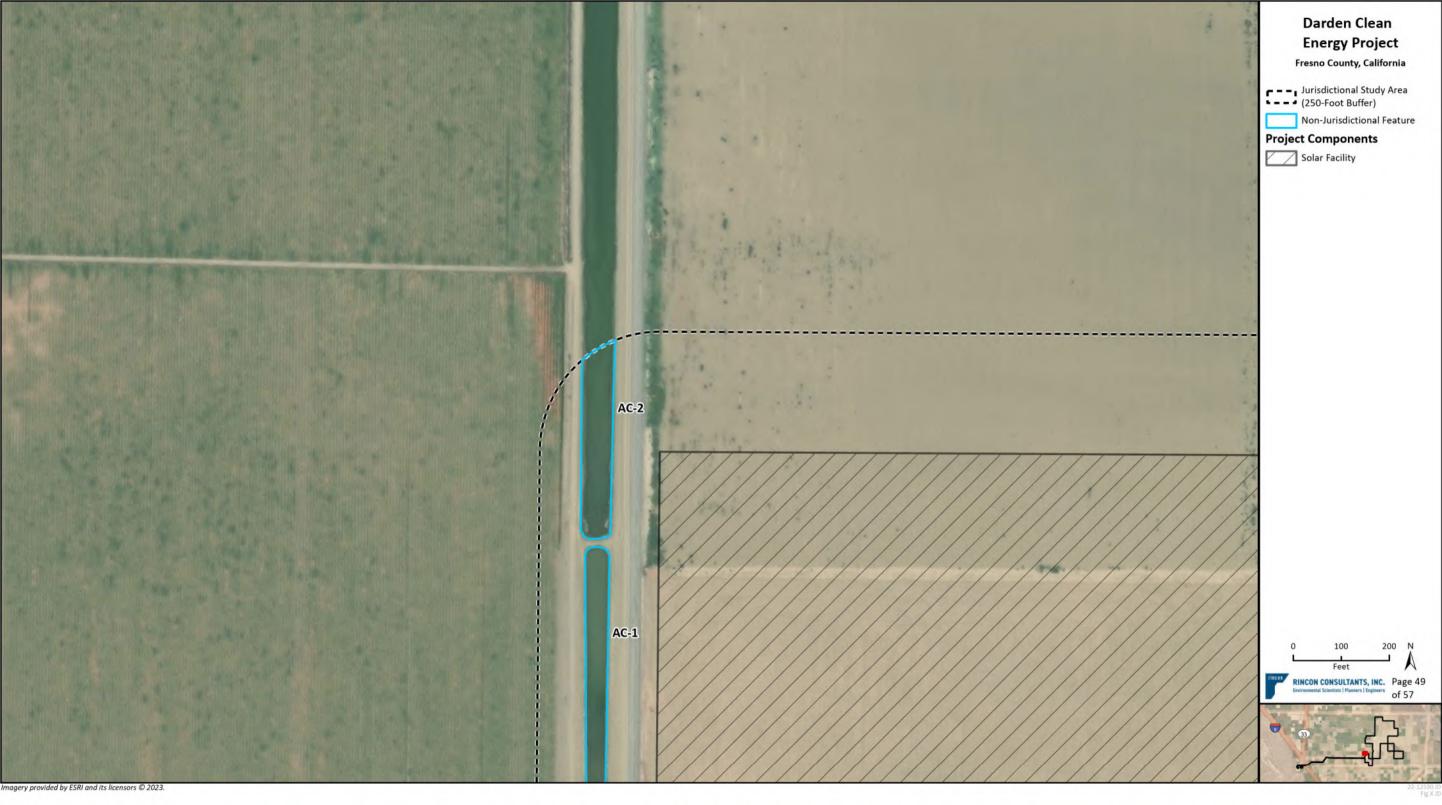


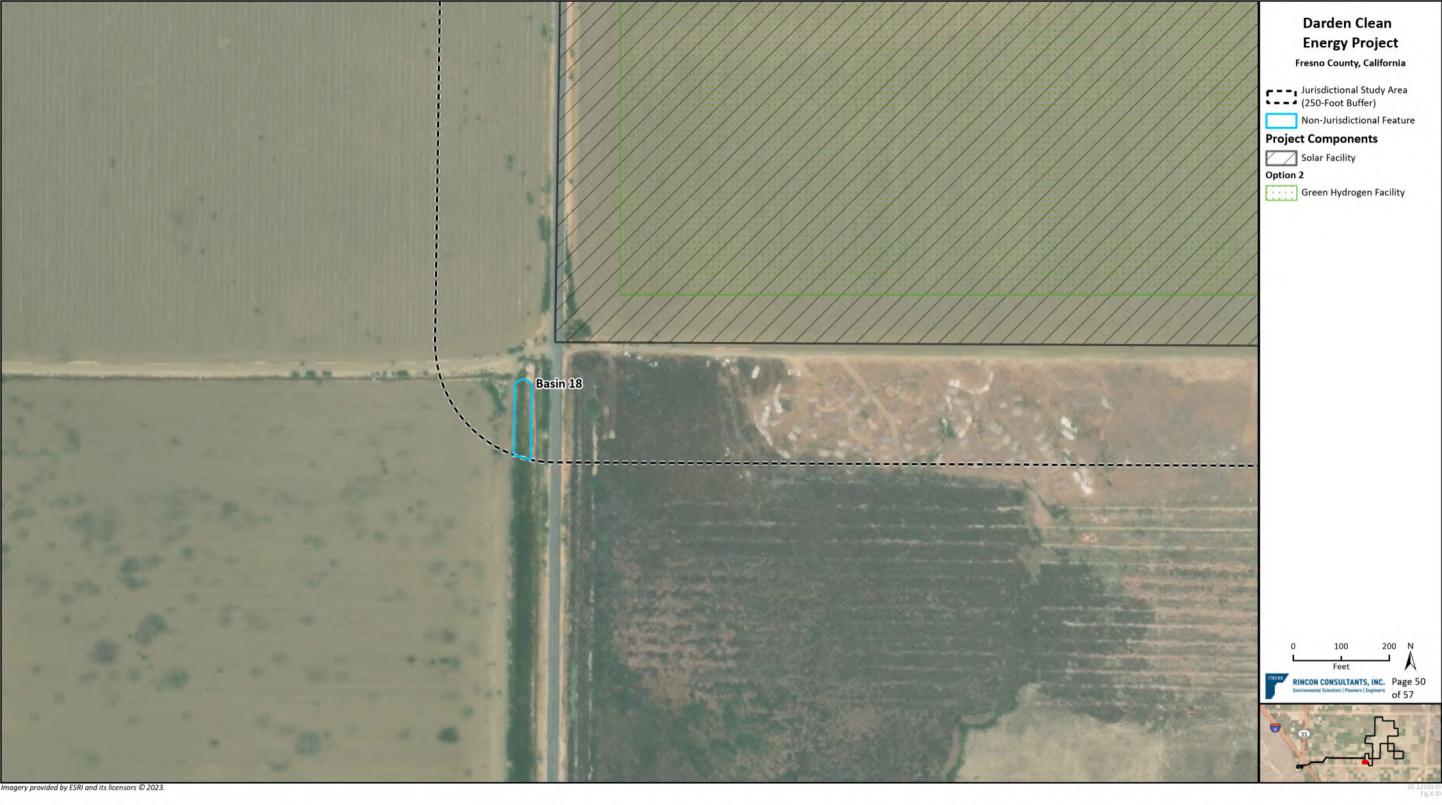








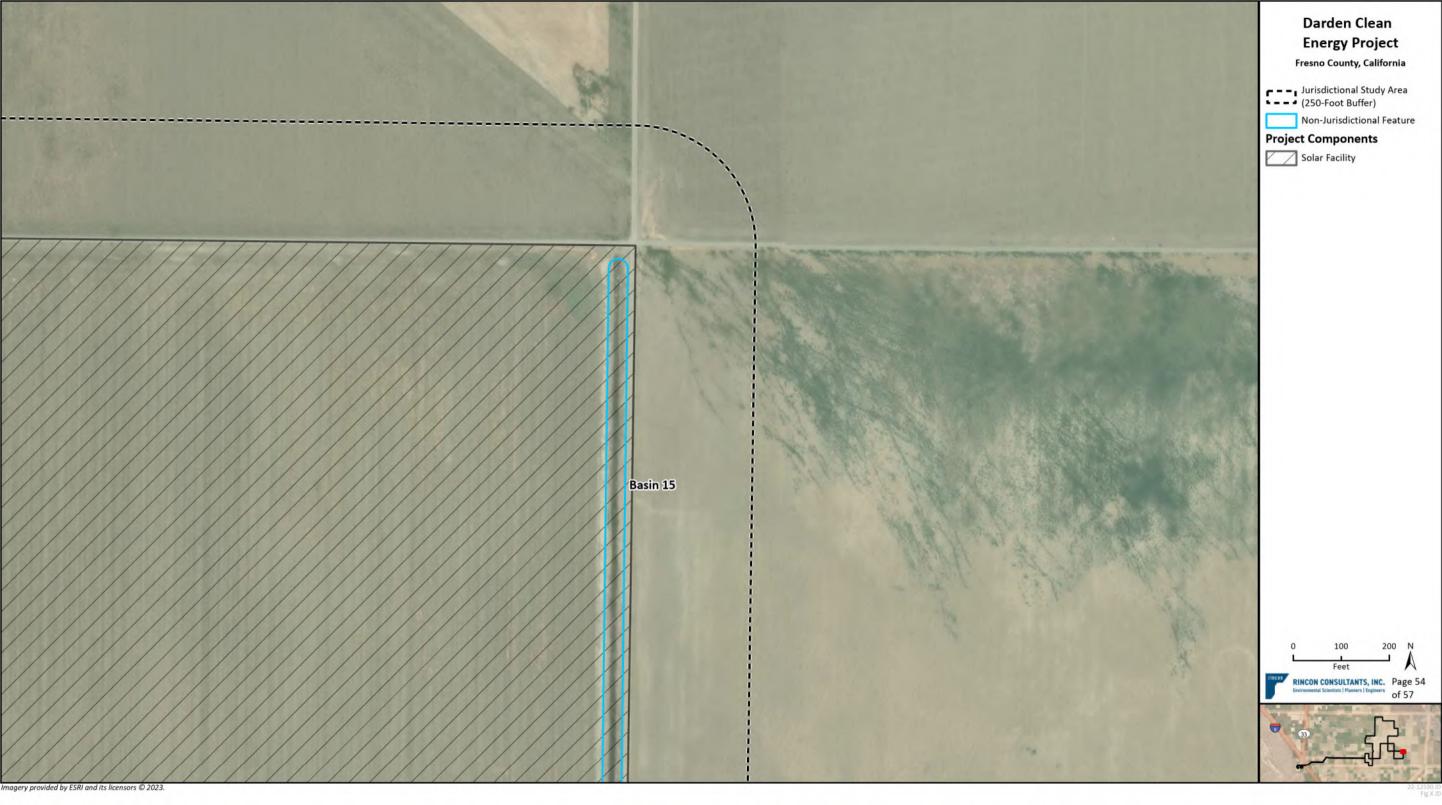






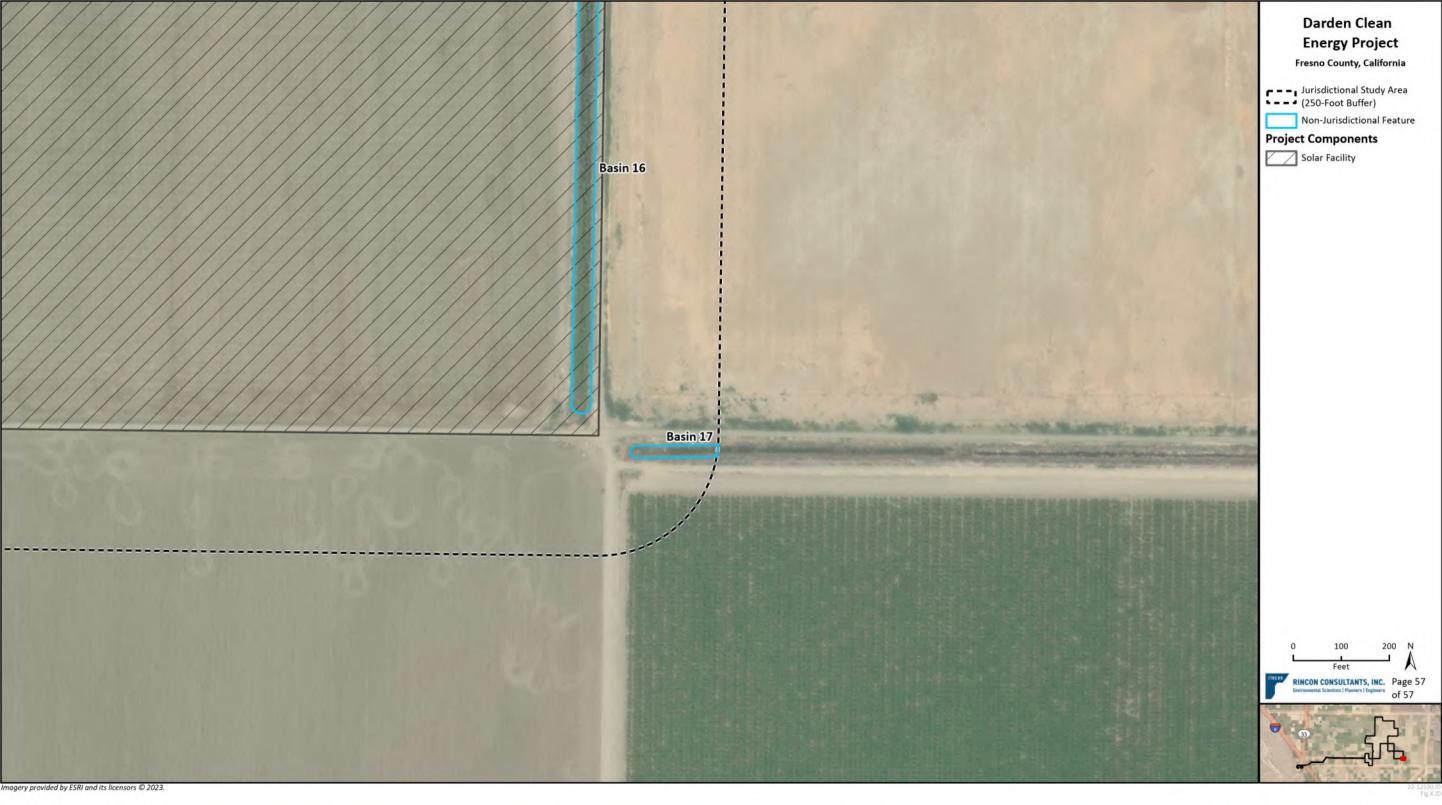














Aquatic Resources Representative Photographs

Darden Clean Energy Project Fresno County, California **Project Components** Solar Facility Utility Switchyard Utility Switchyard Parcel Gen-Tie Line ROW Option 1 Green Hydrogen Facility O&M Facilities Step-Up Substation Gen-Tie Line ROW Extension Green Hydrogen Facility O&M Facilities Step-Up Substation Alternate Green Hydrogen Site Green Hydrogen Facility Green Hydrogen Switchyard Green Hydrogen Parcels W.Mount Whitney Ave \$ (C) \$>

Figure I-1 Photo Point Locations



Photograph 1. View southwest, Cantua Creek, Photo Point 6. The creek here is channelized between levees as it enters the gen-tie line ROW buffer area. Dominant hydrophytic vegetation in the channel is sandbar willow (*Salix exigua*) (FACW). Other vegetation on the banks includes annual sunflower (*Helianthus annuus*) (FACU), big saltbush (*Atriplex lentiformis*) (FACU), Russian thistle (*Salsola tragus*) (FACU), and tree tobacco (*Nicotiana glauca*) (FAC).



Photograph 2. View east of Cantua Creek, on the south edge of the gen-tie line ROW buffer, Photo Point 4. The tree is a Fremont cottonwood (*Populus fremontii subsp. fremontii*) (FAC). An OHWM data sheet was prepared for Cantua Creek in the approximate location of this photograph and is attached in Appendix J.



Photograph 3. View south, Cantua Creek, Photo Point 5. Evidence of shelving indicating the OHWM. Other indicators include break in slope, scour, and sediment sorting.



Photograph 4. View west near the terminus of Cantua Creek, Photo Point 7. Here the creek bed meets the level of both adjacent fields, flow sinks into the ground, and the levees abruptly end.



Photograph 5. View east near the terminus of Cantua Creek, Photo Point 8. The line of vegetation in the center is primarily annual sunflower and Russian thistle and indicators of an OHWM as seen in Photos 1-3 are absent. The levee of the California Aqueduct is visible in the distance.



are attached in Appendix J. Soil pits were not dug due to inaccessible steep slopes; standing water and an abrupt change from hydrophytic to non-hydrophytic vegetation was observed. Adjacent to the west and Sheets SP1 (wetland) and SP2 (upland) were completed to characterize the vegetation at this basin and connected via an under-road culvert is Basin 13, with a long and narrow L-shape and containing much the same vegetation. Both basins meet the three-parameter definition of a wetland with hydrophytic vegetation, presumed hydric soils, and hydrology. However, the basins are excavated in uplands and **Photograph 6.** View northeast, Basin 12, Photo Point 17. This basin is dominated by tule and cattails, with Goodding's willow (Salix gooddingii) (FACW) on the banks. Paired Wetland Sample Point Data used and maintained for agricultural operations. Therefore, these basins are considered nonjurisdictional as isolated, manmade excavated features used for agriculture.



Photograph 7. View south, from north end of Basin 15, Photo Point 18. At this end, the basin was dry during the August survey and contained evidence of non-hydrophytic vegetation, though progressing south there appears to be a gradient of decreasing elevation where water remains longer, with evidence of dried hydrophytic vegetation such as curly dock (*Rumex crispus*) (FAC), small areas that were still saturated or had standing water with live curly dock and (Polygonum sp.), and a pool of standing water at the far end with several large Goodding's willows, seen in the distance in the photo. Evidence of a culvert connecting to Basin 16 to the south was not detectable and the basins show no evidence of flow. The NWI shows this basin, Basin 16, and Basin 17 (at the south end of Basin 16 and running east-west) as part of an extensive system to the east of the JSA and has these features mapped as R4SBc. However, there is no evidence these are channelized historically natural streams, no evidence they are connected, and no evidence of flow. While fallow at the time of the delineation site visit in August 2023, at the time of the reconnaissance site visit in December of 2022, the ditch and field seen on the right in the photo were barren dirt, with the exception of the Goodding's willows. As part of agricultural operations, these basins are considered non-jurisdictional.



Photograph 8. View north, from south end of Basin 16, Photo Point 19. Water was still present over a greater distance of this basin than Basin 16 with standing water in much of the south end. There is a small group of Goodding's willow near the center. This basin is in line with Basin 15 in Photograph 7; however, no culvert was detected and no connection could be established. As noted above, these basins were barren of vegetation in December of 2022, with the exception of the Goodding's willows. Basins 15, 16, and 17 are considered non-jurisdictional as they are for agricultural purposes.



Photograph 9. View south, AD-1, Photo Point 1. Typical of larger, primarily u-shape agricultural ditches with natural line on bank and slight erosion creating slope break where water enters the ditch. Average OHWM width is 8 feet. Ditch is non-jurisdictional as it is for agricultural purposes. An OHWM data sheet was prepared for this feature in the approximate location of center of this photograph and is attached in Appendix J.



Photograph 10. View North, AD-4, Photo Point 3. Top left of photo shows typical of v-ditch created to destroyed, do not meet the definition of waters, and would be non-jurisdictional as they are used for hold irrigation pipes. Average width at top is 3 feet. Many additional ditches of this type were not mapped as they are not intended to convey or hold water directly. They are frequently created and agricultural purposes.



Photograph 11. View east, AD-5, Photo Point 9. AD-5 is typical of trapezoidal ditches throughout the Project site. The average OHWM width is 3 feet, often widening somewhat at culverted crossings. By design the ditch has a bed and banks, other indicators include break in slope and natural line on bank. In some reaches the ditch is vegetated, here with Russian thistle and further west includes bearded sprangletop (*Leptochloa fusca* subsp. *fascicularis*) (NL) and other non-hydrophytic vegetation. This ditch was being actively maintained during the survey by a crew removing vegetation further to the east.



Photograph 12. View east, AD-5, Photo Point 10. AD-5 is on the left in the photo, parallel on the right is a pipe v-ditch with Russian thistle that has been removed to lay the pipe.



Photograph 13. View west, AD-5, Photo Point 12. View of typical culvert crossing of ditch AD-5. Average size of culverts is 30-inches.



South Sonoma Avenue. AD-6 has an average width of 5 feet and is connected to AD-5 through the culvert vegetation. An OHWM data sheet was prepared for this feature in the approximate location of the upper seen on the left. This section is also generally trapezoidal in shape, and a slope break can be seen on the Photograph 14. View north, AD-6, Photo Point 11. View at the intersection of West Harlan Avenue and continues north along South Sonoma Avenue, within the 250 foot buffer of the Project site. AD-6 flows through a culvert into canal AC-1 approximately 0.5 miles north. AC-1 averages 40 feet in width and is vegetation occasionally, these ditches and canals are maintained regularly and generally kept free of connected on the north to AC-2, averaging 65 feet in width, which runs offsite. While supporting bank near the center of the photo. Vegetation is Russian thistle and bearded sprangletop. AD-6 right of this photograph and is attached in Appendix J.



Photograph 15. View west, AD-8, Photo Point 16. Typical of small u-shaped ditches throughout the site. Average OHWM width is 2 feet. Non-jurisdictional as it is used for agricultural purposes.



Photograph 16. View east, AD-17, Photo Point 20. Ditch not currently in use for agriculture. The average width is 5 feet, approximately 80% vegetated though much of it is dead; All vegetation present is upland, primarily telegraph weed (*Heterotheca grandiflora*) (NL), annual sunflower, prickly lettuce (*Lactuca seriola*) (FACU), and big saltbush. No current hydrology and does not meet the definition of a wetland; non-jurisdictional. An OHWM data sheet was prepared for this feature in the approximate location of the upper center of this photograph and is attached in Appendix J.



Photograph 17. View north, AD-10, Photo Point 15. Large ditch not currently in use. Average width is 15 feet, dominated by annual sunflower and prickly lettuce. No current hydrology and does not meet the definition of a wetland; non-jurisdictional.



Photograph 18. View northwest, Basin 2, Photo Point 2. Typical small basin for agriculture, non-jurisdictional. Vegetation surrounding the basin is nonnative annual grass.



Photograph 19. View south, Basin 8, Photo Point 13. Typical larger basin in active use, average OHWM width is 45 feet, generally unvegetated.



Photograph 20. View south, Basin 9, Photo Point 14. Typical large basin not currently in use for agriculture. Average width is 30 ft, covered by nonnative annual grasses; this basin was unvegetated during the December 2022 reconnaissance survey. Other vegetation in similar basins include prickly lettuce and annual sunflower. No current hydrology and does not meet the definition of a wetland; non-jurisdictional.

Appendix Q-11

Delineation Data Sheet

Project: Darden Solar Project Number: 22-12530 Stream: Cantra Creek	Date: 8/21/23 Town: Photo begin file#:	Time: State: Photo end file#:
Investigator(s): K. Asmus O. Rout	r noto begin men.	rnoto ena me#:
Y ⋈ / N ☐ Do normal circumstances exist on the site?	Location Details:	one works one
Y ☑ / N ☐ Is the site significantly disturbed?	Projection: Coordinates:	Datum:
Potential anthropogenic influences on the channel syst	em:	
Farming, berms		sesolestical
Brief site description:		
Chamel runs southwest to north	weast, trea ea	est auross orclard
Channel runs southwest to north	, dissapative	at the Calibraia Agua
Checklist of resources (if available):	/	the Cellifornia tales
✓ Aerial photography	e data	Editor W. A.D.
Dates: Gage numb		and the second
☐ Topographic maps Period of re ☐ Geologic maps ☐ History		
	of recent effective disches of flood frequency analy	
	ecent shift-adjusted rating	
Rainfall/precipitation maps Gage h	eights for 2-, 5-, 10-, and	
Existing delineation(s) for site most re	ecent event exceeding a 5	-year event
Global positioning system (GPS) Other studies		O 1-1 - THIRD THE PARTY OF
Hydrogeomorphic F	loodplain Units	
Active Floodplain	Low Terrace	month and a first state of the state of
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Low-Flow Channels	OHWM Paleo Cha	nnel
Procedure for identifying and characterizing the flood	plain units to assist in id	lentifying the OHWM:
1. Walk the channel and floodplain within the study area to vegetation present at the site.		
2. Select a representative cross section across the channel. I	Draw the cross section and	I label the floodalain units
3. Determine a point on the cross section that is characteri	stic of one of the hydroge	comorphic floodplain units.
a) Record the floodplain unit and GPS position.		
b) Describe the sediment texture (using the Wentworth	class size) and the vegeta	tion characteristics of the
floodplain unit. c) Identify any indicators present at the location.		
4. Repeat for other points in different hydrogeomorphic fle	oodplain units across the	cross section
5. Identify the OHWM and record the indicators. Record t	he OHWM position via:	VI COS SOCIOII.
	GPS	
✓ Digitized on computer	Other:	

		700 000
	no F	Project Numbers
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As held K- AT	PERROS M-	
182 1942 UMAR		Actor amon of 141
/ PE OHW	The second second	Elitables Hillian GO [FLA []
lection: Datum	The discordant	
	70-3-1	
OTIVA	the late building and the sum	on the starting or profession to be started
<u>OHWM</u>		
CBS naints		
GPS point:		
Indicators:		
Change in average sediment texture	☑ Break in bank slope	
Change in vegetation species		
Change in vegetation species	Other:	
	Other.	nilove He escribosos to tallal seat
Comments:		
is for 2., 5. His and 25 year event and the		Rainfall/presipintion maps
event exceeding a 5-year event		Change Commented (2) for 20
Floodplain unit:	Active Floodplain	Low Terrace
GPS point:		
Gr 5 point:		
Characteristics of the floodplain unit:		
Average sediment texture: Sit and San	A	
Total veg cover: 5 % Tree: 0 % S	Shrub: 1 % Herb: 5	0/0
	70 11610.	
Community successional stage		
Community successional stage:	Mid (herbaceous, sh	rubs, saplings)
□ NA	☐ Mid (herbaceous, sh ☐ Late (herbaceous, sh	
	☐ Mid (herbaceous, sh ☐ Late (herbaceous, sh	
☐ NA ☐ Early (herbaceous & seedlings)	Late (herbaceous, sh	rubs, mature trees)
NA Early (herbaceous & seedlings) Indicators:	Late (herbaceous, sh	ban quiellimbi vel suremore
NA Early (herbaceous & seedlings) Indicators: Mudcracks	☐ Soil development	ban guigiliushi val zuntersort
□ NA □ Early (herbaceous & seedlings) Indicators: □ Mudcracks □ Ripples □ Drift and/or debris	☐ Soil development	ban guigilimshi sal zuntersort
□ NA □ Early (herbaceous & seedlings) Indicators: □ Mudcracks □ Ripples □ Drift and/or debris □ Presence of bed and bank	Soil development Surface relief Other:	ban gutrilimshi sal sunteriori alabooli ban isonada sali slaW.
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□ NA □ Early (herbaceous & seedlings) Indicators: □ Mudcracks □ Ripples □ Drift and/or debris □ Presence of bed and bank □ Benches	☐ Soil development ☐ Surface relief ☐ Other: ☐ Other: ☐ Other:	we will be a property of the p
□ NA □ Early (herbaceous & seedlings) Indicators: □ Mudcracks □ Ripples □ Drift and/or debris □ Presence of bed and bank	☐ Soil development ☐ Surface relief ☐ Other: ☐ Other: ☐ Other:	ban gutrilimbi rat runor ori sunda sub
□ NA □ Early (herbaceous & seedlings) Indicators: □ Mudcracks □ Ripples □ Drift and/or debris ▷ Presence of bed and bank □ Benches	Soil development Surface relief Other: Other:	but anticular trees) but anticular trees) signoof our innertal set allow the signoof our innertal set allow the signoof our innertal set allowers a section of the signoof our innertal set and set
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Project ID:	Cross section ID:	Date:	Time:
Floodplain unit:	Low-Flow Channel	Active Floodplain	Low Terrace
GPS point:	015		
Characteristics of the fl	oodplain unit:	Some concerter sta	de CLA
Average sediment textu	re: sit and sand	Some concrete sia	is near top or pant
1 otal veg cover:	% Tree: 8 % Sh	rub: 15 % Herb: 25 %	
Community successions	at stage:		
	ous & seedlings)	Mid (herbaceous, shrub	os, saplings)
(neroace)	ous & seedings)	Late (herbaceous, shrul	os, mature trees)
ndicators:			
Mudcracks		Soil development	
Ripples		Surface relief	
Drift and/or del		Other: Evosion 4	Scar
Presence of bed	d and bank	Other: Bank slough	
Benches		Other: Bank wt	
Comments:			Particular in the line of
site it is the	annelized between north into who	NWI as interritted en levres. Noter utils now on as Sije	al course appears do Sink is indicate
to have been in NHD and	annelized between a morta into who it does disappea	en leves, Notr	al course appears do Sink is indicate Frank of lead
to have been in NHD and Cloodplain unit:	a morta into who it does disa per	en levels. Noter utils now on as Site	al course appears do Sink is indicate Frank of lead
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Total veg cover:	north into who it does disa per loodplain unit:	en levels. Noter utils now on as Site	al course appears d. Sink is indicate Feast and of level Low Terrace
Community successiona	north into who it does disa per loodplain unit:	Linto vally floor al Active Floodplain	al course appears d. Sink is indicate East and of level Dow Terrace
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WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Darden Solar	(City/County	: Fresno C	ounty	Sampling Date: 08/22/2023
Applicant/Owner: Intersect Power				State: CA	Sampling Point: SP1
Investigator(s): Kristin Asmus and Owen Routt		Section, To	wnship, Ra	nge: S12, T16S, R16E	
Landform (hillslope, terrace, etc.): Valley floor		Local relief	(concave,	convex, none): Flat	Slope (%):0
Subregion (LRR): C	Lat: 36.4	172507°		_ Long: -120.192999°	Datum: WGS 1984
Soil Map Unit Name: Tranquility, clay, saline-sodic, we	et, 0 to 1 pe	rcent slop	oes	NWI classific	ation: PUBFx
Are climatic / hydrologic conditions on the site typical for th	is time of yea	r? Yes	✓ No	(If no, explain in Ro	emarks.)
Are Vegetation, Soil, or Hydrology	significantly of	listurbed?	Are "	'Normal Circumstances" p	resent? Yes No
Are Vegetation, Soil, or Hydrology	naturally prob	olematic?	(If ne	eeded, explain any answei	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing	samplin	g point l	ocations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes <u>✓</u> ١	No				
Hydric Soil Present? Yes V			e Sampled in a Wetlar	_	No
Wetland Hydrology Present? Yes N	No	With	iii a vvetiai	iu: les	
Remarks:					
VEGETATION – Use scientific names of plan	nts.				
Година по		Dominant	Indicator	Dominance Test work	sheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Sp	
1				That Are OBL, FACW, o	or FAC:1 (A)
2				Total Number of Domina	
3				Species Across All Stra	ta: <u>1</u> (B)
4				Percent of Dominant Sp	
Sapling/Shrub Stratum (Plot size:)		= 10tai 00	vei	That Are OBL, FACW, o	or FAC:100 (A/B)
1				Prevalence Index worl	
2					Multiply by:
3					x 1 =
4				•	x 2 =
5				1	x 3 = x 4 =
Herb Stratum (Plot size: 10x10ft)		= rotar Co	ver	UPL species	
1. Typha lattifolia	65	Υ	OBL		(A) (B)
2. Schoenoplectus actus	15	<u>N</u>	OBL		
3					= B/A =
4				Hydrophytic Vegetatio	
5				<u>✓</u> Dominance Test is	
6				Prevalence Index is	s ≤3.0° otations¹ (Provide supporting
7				data in Remarks	s or on a separate sheet)
8				Problematic Hydrop	ohytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)		= 10(a) C0	vei		
1.					and wetland hydrology must
2				be present, unless distu	irbed or problematic.
	80	= Total Co	ver	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum % Cove	er of Biotic Cr	ust			s No
Remarks:				1	
Feature is an approx. 2 acre agricultural ba	asin with	well-dev	veloped t	freshwater marsh v	with a narrow fringe of
upland vegetation. Edge of wetland is visi					

US Army Corps of Engineers

	SOIL			Sampling Point:	SP1
Ī	Profile Description:	(Describe to the depth needed to	o document the indicator or confirm the absence of indi	cators.)	
۱	Danth	NA-tui	Daday Fastures		

Depth	Matrix		<u>Re</u> do	x Features				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
							-	
								
							-	
							-	-
¹Type: C=Co	ncentration, D=Dep	oletion RM=Re	educed Matrix CS	S=Covered	or Coate	d Sand Gr	rains ² I o	ocation: PL=Pore Lining, M=Matrix.
	ndicators: (Applic					a cana ci		s for Problematic Hydric Soils ³ :
-		abio to all Ert			u.,			·
Histosol			Sandy Red					Muck (A9) (LRR C)
	ipedon (A2)		Stripped Ma		(E4)			Muck (A10) (LRR B)
Black His			Loamy Muc	-				ced Vertic (F18)
	n Sulfide (A4)		Loamy Gley		(F2)			Parent Material (TF2)
	Layers (A5) (LRR	C)	Depleted M				Other	r (Explain in Remarks)
	ck (A9) (LRR D)		Redox Dark					
	Below Dark Surface	e (A11)	Depleted D				_	
Thick Da	rk Surface (A12)		Redox Dep		(8)		3Indicator	s of hydrophytic vegetation and
	ucky Mineral (S1)		Vernal Pool	s (F9)			wetland	d hydrology must be present,
Sandy G	leyed Matrix (S4)						unless	disturbed or problematic.
Restrictive L	ayer (if present):							
Type:								
Depth (inc	has).		<u> </u>				Hydric So	il Present? Yes <u></u> ✓ No
Remarks:			_				Tiyano oo	1111030Ht. 103 10
IYDROLO								
-	Irology Indicators:							
Primary Indic	ators (minimum of o	one required; c	heck all that appl	y)			Seco	ondary Indicators (2 or more required)
Surface \	Water (A1)		Salt Crust	(B11)			,	Water Marks (B1) (Riverine)
High Wat	ter Table (A2)		Biotic Crus	' '				Sediment Deposits (B2) (Riverine)
Saturatio	` ,		Aquatic In		(B13)			Drift Deposits (B3) (Riverine)
	arks (B1) (Nonrive i	ino)	Hydrogen					Drainage Patterns (B10)
	` , `	,				lisiaa Daa	· · · · · · · · · · · · · · · · · · ·	, ,
	t Deposits (B2) (No	•			-	-		Dry-Season Water Table (C2)
	osits (B3) (Nonrive	rine)		of Reduced			· · · · · · · · · · · · · · · · · · ·	Crayfish Burrows (C8)
Surface S	Soil Cracks (B6)		Recent Iro	n Reduction	n in Tilled	d Soils (C6	5) :	Saturation Visible on Aerial Imagery (C9)
Inundation	on Visible on Aerial	Imagery (B7)	Thin Muck	Surface (0	C7)		;	Shallow Aquitard (D3)
Water-St	ained Leaves (B9)		Other (Exp	olain in Rer	narks)		I	FAC-Neutral Test (D5)
Field Observ	vations:							<u> </u>
Surface Water		∕es ✔ No	Depth (in	chae).				
						l l		
Water Table I			Depth (in			l l		
Saturation Pro (includes cap	illary fringe)		Depth (in					gy Present? Yes 🔽 No
Describe Rec	orded Data (stream	n gauge, monit	oring well, aerial	photos, pre	vious ins	pections),	if available:	
Remarks:								
	full of water a	t tha tima	of the surve	vin Aug	uct			
Dasiii was	Tull Of Water a	it the time	or the surve	y III Aug	ust.			

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Darden Solar	City/County: Fresno County				ounty	Samplinç	Date: _	08/22	/2023
Applicant/Owner: Intersect Power					State: CA	Sampling	Point: _	SF	2
Investigator(s): Kristin Asmus and Owen Routt	Section, Township, Range:				nge: <u>S12, T16S, R16E</u>	<u>:</u>			
Landform (hillslope, terrace, etc.): Valley floor		Local	relief	(concave, o	convex, none): Flat		Slor	oe (%):	0
Subregion (LRR): C	Lat: 36.	4725	12°		Long: -120.192899	0	Datur	n: WGS	5 1984
Soil Map Unit Name: Tranquility, clay, saline-sodic,									
Are climatic / hydrologic conditions on the site typical for	this time of year	ar? Ye	es	✓ No_	(If no, explain ir	Remarks.)			
Are Vegetation, Soil, or Hydrology	significantly	disturb	ed?	Are "	Normal Circumstances	" present?	Yes	No	· •
Are Vegetation, Soil, or Hydrology				(If ne	eded, explain any ans	wers in Rema	arks.)		
SUMMARY OF FINDINGS - Attach site ma				g point le	ocations, transec	ts, import	ant fe	atures	s, etc.
Hydrophytic Vegetation Present? Yes	No 🗸								
Hydric Soil Present? Yes				e Sampled in a Wetlan		No	/		
Wetland Hydrology Present? Yes	No 🔽		WILII	ili a vvetiai	iu: les	NO_		i	
Remarks:							•		
VECETATION Lies esignific names of pl	onto								
VEGETATION – Use scientific names of pl		D		la dia atau	Daminana Tastus	ulahast.			
Tree Stratum (Plot size: 10x10 ft)	Absolute % Cover			Indicator Status	Dominance Test wo Number of Dominant				
1. Tamarix parviflora	Г			FAC	That Are OBL, FACV		1		(A)
2					Total Number of Don	ninant			
3					Species Across All S		4		(B)
4					Percent of Dominant	Species			
Sapling/Shrub Stratum (Plot size:)		= Tota	al Co	ver	That Are OBL, FACV		25	<u> </u>	(A/B)
1					Prevalence Index w	orksheet:			
2					Total % Cover o		Multiply	/ by:	_
3.					OBL species				
4.					FACW species				
5					FAC species	x 3	3 =		_
10::10ft		= Tota	al Co	ver	FACU species	x 4	ł =		_
Herb Stratum (Plot size: 10x10ft)	20		,	EACH	UPL species				
1. Atriplex lentiformis 2. Helianthus annuus	30 35	Y		FACU FACU	Column Totals:	(A)			_ (B)
3. Salsola tragus	<u></u>			FACU	Prevalence Ind	ex = B/A =			
4. Lactuca seriola		N		FACU	Hydrophytic Vegeta				
5					Dominance Test				
6					Prevalence Inde				
7.					Morphological A				ing
8.					data in Rema		•		
				ver	Problematic Hyd	rophytic Veg	etation'	(Explair	า)
Woody Vine Stratum (Plot size:)					11	:	سلمينط لمصم		4
1					¹ Indicators of hydric s be present, unless di				iust
2					Usalrombusia				
	105	= I ota	al Co	ver	Hydrophytic Vegetation				
% Bare Ground in Herb Stratum5 % Co	over of Biotic C	rust				Yes	No	<u> </u>	
Remarks:									
Upland paired point with SP1. Feature is									
marsh with a narrow fringe of upland ve	getation. I	Edge	of v	vetland i	is visible by abru	pt change	in ve	getati	on
from OBL to FACU species.									

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rofile Desc	ription: (Describe to	the depth n	eeded to document the indicator or c	onfirm the absence	of indicators.)	
Depth	Matrix		Redox Features		,	
(inches)	Color (moist)	%	Color (moist) % Type ¹ Le	oc ² Texture	Remarks	
	-					
			duced Matrix, CS=Covered or Coated Sa		cation: PL=Pore Lining, M=Matrix.	
-		ble to all LRF	Rs, unless otherwise noted.)		for Problematic Hydric Soils ³ :	
_ Histosol	` '		Sandy Redox (S5)		Muck (A9) (LRR C)	
	oipedon (A2)		Stripped Matrix (S6)		Muck (A10) (LRR B)	
_ Black Hi	en Sulfide (A4)		Loamy Mucky Mineral (F1)Loamy Gleyed Matrix (F2)		ced Vertic (F18) arent Material (TF2)	
	d Layers (A5) (LRR C)	1	Depleted Matrix (F3)		(Explain in Remarks)	
	ick (A9) (LRR D)		Redox Dark Surface (F6)	001	(Explain in Romano)	
	d Below Dark Surface	(A11)	Depleted Dark Surface (F7)			
_ Thick Da	ark Surface (A12)		Redox Depressions (F8)	³ Indicators of hydrophytic vegetation and		
	lucky Mineral (S1)		Vernal Pools (F9)	wetland	hydrology must be present,	
	Bleyed Matrix (S4)			unless o	listurbed or problematic.	
estrictive l	Layer (if present):					
Restrictive I Type:	Layer (if present):		-			
			- -	Hydric Soil	Present? Yes No	
Туре:			<u>-</u>	Hydric Soil	Present? Yes No	
Type: Depth (inc Remarks:	ches):	sides we	- - re steep with dense growth o			
Type: Depth (inc Remarks:	ches):	sides wei	- - re steep with dense growth o			
Type: Depth (independent of the control of the	ches):	sides we	- - re steep with dense growth o			
Type: Depth (independent of the control of th	t was dug, basin	sides we	- - re steep with dense growth o			
Type:	t was dug, basin	sides we	- - re steep with dense growth o			
Type: Depth (indicemarks: Io soil piristinct. /DROLO	t was dug, basin GY drology Indicators:			f vegetation an	d vegetation break was ver	
Type: Depth (indicemarks: Io soil piristinct. /DROLO /etland Hydrimary Indicemary Indicemarks:	ches): t was dug, basin GY drology Indicators: cators (minimum of on		neck all that apply)	f vegetation an	d vegetation break was ver	
Type: Depth (indemarks: Io soil piristinct. 'DROLO Vetland Hydrimary India Surface	t was dug, basin GY drology Indicators: cators (minimum of on		neck all that apply) Salt Crust (B11)	f vegetation an Seco	d vegetation break was ver	
Type: Depth (incommarks: Io soil piristinct. /DROLO /etland Hydrimary India Surface High Wa	ches): t was dug, basin GY drology Indicators: cators (minimum of on Water (A1) ater Table (A2)		neck all that apply) Salt Crust (B11) Biotic Crust (B12)	f vegetation an Seco	d vegetation break was ver	
Type: Depth (inc emarks: Io soil pir istinct. /DROLO /etland Hyd rimary Indic Surface High Wa Saturation	ches): t was dug, basin GY drology Indicators: cators (minimum of on Water (A1) ater Table (A2) on (A3)	e required; ch	neck all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)	f vegetation an Seco Seco Seco Seco Seco Seco Seco	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine)	
Type: Depth (incomparise: lo soil piristinct. /DROLO /etland Hydrimary India _ Surface _ High Wa _ Saturatio _ Water M	ches): t was dug, basin GY drology Indicators: cators (minimum of on Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverin	e required; ch	neck all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	f vegetation an Seco V Seco Seco	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10)	
Type: Depth (included) Identification Identificat	ches): t was dug, basin GY drology Indicators: cators (minimum of on Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverin at Deposits (B2) (Nonri	e required; ch ne) riverine)	neck all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livir	f vegetation an Seco S	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Gediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2)	
Type: Depth (indemarks: Io soil piristinct. /DROLO /etland Hydrimary India _ Surface _ High Wa _ Saturatia _ Water Mater Mater Mater Mater Mater Mater Drift Dep	ches): t was dug, basin GY drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverin at Deposits (B2) (Nonriverin cosits (B3) (Nonriverin	e required; ch ne) riverine)	neck all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livir Presence of Reduced Iron (C4)	f vegetation an Seco V Seco C Seco Seco C Seco Seco	d vegetation break was ver ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Gediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8)	
Type: Depth (indemarks: Io soil piristinct. TOROLO Tetland Hydrimary Indication Surface High Water May Sedimer May Sedimer Drift Depter Surface Surface Surface	ches): t was dug, basin GY drology Indicators: cators (minimum of on Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverin nt Deposits (B2) (Nonriverin cosits (B3) (Nonriverin Soil Cracks (B6)	e required; ch	neck all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So	f vegetation an Seco V S C G G G G G G S C G S C G S S C S S S S S S S S S S	d vegetation break was ver andary Indicators (2 or more required) Water Marks (B1) (Riverine) Bediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Originage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Baturation Visible on Aerial Imagery (1	
Type: Depth (indemarks: lo soil piristinct. TOROLO Tetland Hydrimary India Surface High Wa Saturatia Water M Sedimer Drift Dep Surface Inundation	drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverin to Deposits (B2) (Nonriverin Soil Cracks (B6) on Visible on Aerial Im	e required; ch	neck all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7)	Seco V S C S C S C S C S C S C S C S C S C S C S C S C S C S	d vegetation break was ver andary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Catallow Aquitard (D3)	
Type: Depth (inc emarks: lo soil pir istinct. /DROLO /etland Hyd rimary India _ Surface _ High Wa _ Saturatia _ Water M _ Sedimer _ Drift Dep _ Surface _ Inundatia _ Water-S	ches): t was dug, basin GY drology Indicators: cators (minimum of on Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverin at Deposits (B2) (Nonriverin cosits (B3) (Nonriverin Soil Cracks (B6) on Visible on Aerial Im tained Leaves (B9)	e required; ch	neck all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So	Seco V S C S C S C S C S C S C S C S C S C S C S C S C S C S	d vegetation break was ver andary Indicators (2 or more required) Water Marks (B1) (Riverine) Bediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Originage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Baturation Visible on Aerial Imagery (1	
Type: Depth (indemarks: lo soil piristinct. TOROLO Tetland Hydrimary India Surface High Water Marco Sedimer Drift Dep Surface Inundation Water-Sield Observired	ches): t was dug, basin GY drology Indicators: cators (minimum of on Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverin to Deposits (B2) (Nonriverin Soil Cracks (B6) on Visible on Aerial Im tained Leaves (B9) vations:	e required; ch	neck all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Other (Explain in Remarks)	Seco V S C S C S C S C S C S C S C S C S C S C S C S C S C S	d vegetation break was ver andary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Catallow Aquitard (D3)	
Type: Depth (inclemarks: lo soil pitistinct. TOROLO Vetland Hyderimary Indication Material Mate	ches): t was dug, basin GY drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverin at Deposits (B2) (Nonriverin Soil Cracks (B6) on Visible on Aerial Im tained Leaves (B9) vations: er Present?	e required; ch	meck all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Other (Explain in Remarks)	Seco V S C S C S C S C S C S C S C S C S C S C S C S C S C S	d vegetation break was ver andary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Catallow Aquitard (D3)	
Type: Depth (ind Remarks: No soil pi listinct. YDROLO Vetland Hyd Surface High Wa Saturatio Water M Sedimer Drift Dep Surface Inundation	ches): t was dug, basin GY drology Indicators: cators (minimum of on Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverin to Deposits (B2) (Nonriverin cosits (B3) (Nonriverin Soil Cracks (B6) on Visible on Aerial Im tained Leaves (B9) vations: er Present? Yes	e required; che ne) riverine) nagery (B7) s No _ s No _	neck all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livir Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Other (Explain in Remarks)	Seco	d vegetation break was ver andary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Catallow Aquitard (D3)	

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Remarks:

Data point is paired upland to SP1, near top of basin sides.

Project ID:	Cross section ID: 3	Date:	Time: :(11 299101
Cross section drawin	Active Floodylane	Low-How Channel	line pistohoof
	M A E		PS point To as our
	R AF		
orderd	K WHO X	Falle	Suld mirate and
	K WOW 74		
Vanish.	Mid chelanous similar sa		AND SELECTION AND COMMUNICATIONS
	Late thereaceous shrahe, m		Early cherbaced
CPS point: 3/e LID ENI	8 -120 Hp3125		
31 5 point. 30 1-12501	8 ,-120, 402135 Soil development		
Indicators:			
	rage sediment texture	_ break in came broke	Der it could on the
Change in vege		Other: Natural line	in bound
Change in vege	etation cover	Other:	
			ninamino
Comments:			
		Active Floodplain	
GPS point: 36,425019	1-120,402127		
Characteristics of the fl Average sediment textu			
Total veg cover:	% Tree: % Shrul	o:% Herb:%	
Community successions	al stage:		
the same of the sa	Mid (hertrocous, shrubs, as	Mid (herbaceous, shrubs, sa	
Early (herbace	ous & seedlings)	Late (herbaceous, shrubs, n	nature trees)
Indicators:			
Muderacks		Soil development	
Ripples		Surface relief	
☐ Drift and/or de		Other:	Drift and/or de
Presence of be		Land Others	and to someon!
Benches		Other:	Benches
Comments:			

Project: barden Solar Project Number: 22-12-530 Stream: ASMVS	Date: 8/21/2023 Time: Town: N/A Prish O State: CA Photo begin file#: Carry Photo end file#:
Y ☑ / N ☐ Do normal circumstances exist on the site?	Location Details:
Y ☑ / N ☐ Is the site significantly disturbed?	Projection: Works Datum: 1984 Coordinates:
Potential anthropogenic influences on the channel syst	tem:
Active agriculture	
Brief site description:	900 0
Active agriculture, orchard to	rust, fallow field to east
✓ Vegetation maps ☐ Result ✓ Soils maps ☐ Most r ☐ Rainfall/precipitation maps ☐ Gage l	ber:
Hydrogeomorphic F	Floodplain Units
Active Floodplain Low-Flow Channels	OHWM Paleo Channel
Procedure for identifying and characterizing the flood	
Walk the channel and floodplain within the study area vegetation present at the site. Select a representative cross section across the channel. Determine a point on the cross section that is character a) Record the floodplain unit and GPS position. b) Describe the sediment texture (using the Wentworth floodplain unit. c) Identify any indicators present at the location. Repeat for other points in different hydrogeomorphic for the other points in different hydrogeomorp	Draw the cross section and label the floodplain units. ristic of one of the hydrogeomorphic floodplain units. I class size) and the vegetation characteristics of the floodplain units across the cross section.

Project ID: Cross section ID: 3	Time: All togic
Floodplain unit:	Active Floodplain Low Terrace
CPS point: 26 to page 120 top 15	
GPS point: 36 412 5022 -120,402146	
Characteristics of the floodplain unit:	
Average sediment texture: 511+	
Total veg cover: % Tree: % Shrub	o: % Herb: %
Community successional stage:	
⊠ NA	☐ Mid (herbaceous, shrubs, saplings)
☐ Early (herbaceous & seedlings)	Late (herbaceous, shrubs, mature trees)
ndicators:	Spolari 35 Harris and Spolari
Muderacks	Soil development
Ripples	Surface relief
Drift and/or debris square hand ni shear!	
Presence of bed and bank	
☐ Benches → MG	
Comments:	
Floodplain unit:	Active Floodplain
GPS point:	
Characteristics of the floodplain unit:	
Average sediment texture:	
Total veg cover: % Tree: % Shrub	b: Herb: 100 100 100 100 100
Community successional stage:	
Mid therbycoms, strubs, replings) AN	Mid (herbaceous, shrubs, saplings)
Early (herbaceous & seedlings)	Late (herbaceous, shrubs, mature trees)
ndicators:	
Mudcracks uzomqulovob floc	Soil development
Ripples Tollor scal not	Surface relief
Drift and/or debris	Other:
Presence of bed and bank	Other: None transport T
Benches	Other:
Comments:	annication:

Project: Dayden Solar Project Number: 22-12530 Stream: N/A Investigator(s): K. Asmus	Date: 8/22/23 Time: Town: NA State: CA Photo begin file#: Photo end file#:
Y ⊠ / N ☐ Do normal circumstances exist on the site?	Location Details:
Y ☑ / N ☐ Is the site significantly disturbed?	Projection: Was Datum: 1994 Coordinates:
Active agriculte	tem:
Brief site description: Active agricultural fields and dir on other side (S. Sonoma Checklist of resources (if available):	
Aerial photography Dates: Vones Group Gage num Topographic maps Geologic maps Vegetation maps Soils maps Rainfall/precipitation maps Gage I	ber: y of recent effective discharges s of flood frequency analysis recent shift-adjusted rating neights for 2-, 5-, 10-, and 25-year events and the recent event exceeding a 5-year event
Active Floodplain Low-Flow Channels	CHWM Paleo Channel
Procedure for identifying and characterizing the flood 1. Walk the channel and floodplain within the study area vegetation present at the site. 2. Select a representative cross section across the channel. 3. Determine a point on the cross section that is character a) Record the floodplain unit and GPS position. b) Describe the sediment texture (using the Wentworth floodplain unit. c) Identify any indicators present at the location. 4. Repeat for other points in different hydrogeomorphic for the indicators. Record Mapping on aerial photograph Digitized on computer	to get an impression of the geomorphology and Draw the cross section and label the floodplain units. istic of one of the hydrogeomorphic floodplain units. class size) and the vegetation characteristics of the loodplain units across the cross section.

Indicators: Change in average sediment texture Break in bank slope Other: O	othum	immat2 worl-west L titue watchoof-
DHWM SPS point: 36.443649, 120.244621 Change in average sediment texture Other: Othe		
DHWM GPS point: 36.443649, 120.244021 Indicators: Change in average sediment texture Change in vegetation species Change in vegetation cover Other: Sediment texture is silt. Achieve dish of some veg, treepezoidels Veg is to prothoso forsen below, salson tragus above them Floodplain unit: Characteristics of the floodplain unit: Average sediment texture: Silt Active Floodplain Low Terrace GPS point: 36.443649 - 120.243041 Characteristics of the floodplain unit: Average sediment texture: Silt Average sediment texture: Silt Mid (herbaceous, shrubs, mature trees) Indicators:	45-51-W	
DHWM GPS point: 36.445649, 120.248021 Indicators: Change in average sediment texture Change in vegetation species Change in vegetation cover Change in vegetation cover Change in vegetation cover Comments: Sediment texture is silt. Achange dithe w/sone veg., treepezoidels Veg is to pto those force below, salsola tragus above Othern GPS point: 36.443649 120.242011 Characteristics of the floodplain unit: Average sediment texture: Silt Average sediment texture: Silt Average sediment texture: Mid (herbaccous, shrubs, saplings) Early (herbaccous & seedlings) Indicators:	A	Characteristics of the Resolution and
OHWM GPS point: 36.443649, 120.248621 Indicators: Change in average sediment texture other: Change in vegetation species other: Change in vegetation cover other: Comments: Sediment texture is 5 ift. Achieved dilent w/ some veg., trapezoidal S Wey is the pto those (was a below, salsola tragus above other) GPS point: 36.443649 - 120.248011 Characteristics of the floodplain unit: Average sediment texture: Sediment texture: Total veg cover: 5 % Tree: 5 % Shrub: 6 % Herb: 50 % Community successional stage: NA Early (herbaceous & seedlings) Indicators:	1	
OHWM GPS point: 36.443644, -120.246021 Indicators: Change in vegetation species Change in vegetation cover Other: Change in vegetation cover Other: Comments: Sediment texture is silt. Achieve dilent w/ sone veg., trepezoidels Veg is teptochieve (vs.a. below), salsola tragus above Otherm 100 corr Floodplain unit: Characteristics of the floodplain unit: Average sediment texture: Silt Total veg cover: Ma We gover: Ma Whid (herbaceous, shrubs, saplings) Early (herbaceous & seedlings) Indicators:		
Change in average sediment texture Break in bank slope Change in vegetation species Other: Other: Change in vegetation cover Other: Other: Change in vegetation cover Other:	10-2544 Luch	
GPS point: 36.143649, 120.244621 Indicators: Change in average sediment texture Change in vegetation species Change in vegetation cover Change in vegetation species Chang	Tell Continuous stands sometimes	
Indicators: Change in average sediment texture Change in vegetation species Other: O	DHWM	
Change in average sediment texture Break in bank slope Other: Other	SPS point: 36,445649, -120,248021	centualisation
Change in average sediment texture Change in vegetation species Other: Change in vegetation species Other: Change in vegetation cover Other: Change in vegetation species Other: Change in vegetation species Other: Change in vegetation species Other: Other: Other: Change in vegetation species Other: Other	ial) development	
Comments: Sediment Lectro is silt. Achorage dileta w/ some veg, trapezoidals Veg is to pluschive fusan below, salsola tragus abore of them 30% core Floodplain unit: Characteristics of the floodplain unit: Average sediment texture: 51/4 Total veg cover: 50 % Tree: 0 % Shrub: 0 % Herb: 50 % Characteristics of the floodplain unit: Average sediment texture: 51/4 Total veg cover: 50 % Tree: 0 % Shrub: 0 % Herb: 50 % Characteristics of the floodplain unit: Average sediment texture: 51/4 Total veg cover: 50 % Tree: 0 % Shrub: 0 % Herb: 50 % Characteristics of the floodplain unit: Average sediment texture: 51/4 Total veg cover: 50 % Tree: 0 % Shrub: 0 % Herb: 50 % Late (herbaceous, shrubs, mature trees) Indicators:	ndicators:	
Comments: Sediment Lectro is 5 it. Achieved dilete w/ some veg, trapezoidal S Veg is to phothlow (vs.a. below), salsola tragus above Others Floodplain unit: Characteristics of the floodplain unit: Average sediment texture: 5 it. Total veg cover: 50 % Tree: 0 % Shrub: 0 % Herb: 50 % Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Indicators:	Change in average sediment texture	Break in bank slope
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Comments: Sediment texture is sit. Achieve ditch w/sone very, trapezoidal s Very is texture is sit. Achieve floody tragus above of the M 30% corr Floodylain unit: Characteristics of the floodylain unit: Average sediment texture: Silt Total veg cover: 50 % Tree: 0 % Shrub: 0 % Herb: 50 % Community successional stage: NA Mid (herbaceous, shrubs, mature trees) Indicators:	Change in vegetation cover	Other:
Sediment texture is sitt. Achieve dilen w/ some veg, trapezoidal s Veg is te pto chieve fusan below, salsola tragus above other 30% corr Floodplain unit: Active Floodplain Low Terrace Characteristics of the floodplain unit: Average sediment texture: 51/4 Total veg cover: 50 % Tree: 0 % Shrub: 0 % Herb: 50 % Community successional stage: NA NA Mid (herbaceous, shrubs, saplings) Early (herbaceous & seedlings) Indicators:		
Sediment texture is sitt. Achieve dilen w/ some veg, trapezoidal s Ves is teptochieve fusan below, salsola tragus above other Floodplain unit: Low-Flow Channel	Comments:	
Characteristics of the floodplain unit: Average sediment texture: 51/4 Total veg cover: 50 % Tree: 0 % Shrub: 0 % Herb: 50 % Community successional stage: NA	Sediment texture is sit. Ac	himag dilah w/ some veg, trapezoidal si
Characteristics of the floodplain unit: Average sediment texture: 514 Total veg cover: 50 % Tree: 0 % Shrub: 0 % Herb: 50 % Community successional stage: NA	Was is Leptochloa Fusan bulo	, w, salsola tragus above other
Characteristics of the floodplain unit: Average sediment texture: 514 Total veg cover: 50 % Tree: 0 % Shrub: 0 % Herb: 50 % Community successional stage:	Ves is Leptochlos Fusan belo 30% com	w, salsola tragus above other
Average sediment texture:	Ves is Leptochlos Fusan belo 30% com	w, salsola tragus above other
Average sediment texture: 51/4 Total veg cover: 50 % Tree: 0 % Shrub: 0 % Herb: 50 % Community successional stage: Mid (herbaceous, shrubs, saplings) Early (herbaceous & seedlings) Late (herbaceous, shrubs, mature trees)	Neg is Leptochlor Fusco belo 30% corre	w, salsola tragus above other
Total veg cover: 50 % Tree: 0 % Shrub: 0 % Herb: 50 % Community successional stage: NA	Floodplain unit: \ Low-Flow Channel Description Spring Spr	Active Floodplain Low Terrace Colors
Community successional stage: NA Early (herbaceous & seedlings) Indicators: Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees)	PS point: 36.443649 -120.248041 Characteristics of the floodplain unit:	Active Floodplain Low Terrace Chan
NA	Cloodplain unit: \ Low-Flow Channel Characteristics of the floodplain unit: Average sediment texture: Silt	Active Floodplain Low Terrace Characters and a service state of the serv
Early (herbaceous & seedlings) Late (herbaceous, shrubs, mature trees) Indicators:	PS point: 36,443649 -120,24804 Characteristics of the floodplain unit: Average sediment texture: 514 Total veg cover: 50 % Tree: 0 % Shr	Active Floodplain Low Terrace Thomas and the state of the
Indicators:	Cloodplain unit: \(\text{Low-Flow Channel} \) Characteristics of the floodplain unit: Average sediment texture: \(\text{Si} \) + Total veg cover: \(\text{SO} \) % Tree: \(\text{O} \) % Shr Community successional stage:	Active Floodplain Low Terrace Change and the state of the
indicators.	Cloodplain unit: \(\text{Low-Flow Channel} \) Characteristics of the floodplain unit: Average sediment texture: \(\text{Si} \) + Total veg cover: \(\text{So} \) % Tree: \(\text{Shr} \) Community successional stage: \(\text{NA} \)	Active Floodplain Low Terrace Library and Low Terrace Library and Low Terrace Library and Low Library and Libr
	Cloodplain unit: \(\text{Low-Flow Channel} \) Characteristics of the floodplain unit: Average sediment texture: \(\text{Si} \) + Total veg cover: \(\text{So} \) % Tree: \(\text{Shr} \) Community successional stage: \(\text{NA} \)	Active Floodplain Low Terrace Library and Low Terrace Library and Low Terrace Library and Low Library and Libr
I Mudciacks	Cloodplain unit: \(\text{Low-Flow Channel} \) Characteristics of the floodplain unit: Average sediment texture: \(\text{Si} \) \(\text{Total veg cover: } \(\text{So} \) \(\text{Shr} \) Community successional stage: \(\text{NA} \) \(\text{Early (herbaceous & seedlings)} \)	Active Floodplain Low Terrace Library and Low Terrace Library and Low Terrace Library and Low Library and Libr
	Cloodplain unit: Low-Flow Channel CPS point: 36.443649 - 120.218011 Characteristics of the floodplain unit: Average sediment texture: 514 Total veg cover: 50 % Tree: 0 % Shr Community successional stage: NA Early (herbaceous & seedlings)	Active Floodplain Low Terrace Low Terrace Low Terrace Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees)
	Cloodplain unit: Low-Flow Channel CPS point: 36.443649 -120.218011 Characteristics of the floodplain unit: Average sediment texture: 51.4 Total veg cover: 50 % Tree: 0 % Shr Community successional stage: NA Early (herbaceous & seedlings)	Low Terrace Active Floodplain Low Terrace Low Terra
	Cloodplain unit: \(\text{Low-Flow Channel} \) Characteristics of the floodplain unit: Average sediment texture: \(\text{Si} \) \(\text{Total veg cover: } \(\text{So} \) \(\text{Shr} \) Community successional stage: \(\text{NA} \) \(\text{Flow Channel} \) And \(\text{Flow Flow Channel} \) Indicators: \(\text{Muderacks} \) \(\text{Muderacks} \) \(\text{Ripples} \)	Active Floodplain Low Terrace
	Cloodplain unit: Low-Flow Channel Cloodplain unit: Low-Flow Channel Characteristics of the floodplain unit: Average sediment texture: Silt Total veg cover: 50	Active Floodplain Low Terrace Low Ter
Benches Other:	Cloodplain unit: Low-Flow Channel CPS point: 36.443649 -120.21304 Characteristics of the floodplain unit: Average sediment texture: 51.4 Total veg cover: % Tree: % Shr Community successional stage: NA	Description Low Terrace Lo
Benches Other:	Cloodplain unit: Low-Flow Channel CPS point: 36.443649 -120.21801 Characteristics of the floodplain unit: Average sediment texture: 51.4 Total veg cover: 50 % Tree: 0 % Shr Community successional stage: NA	Description Low Terrace Lo
	Cloodplain unit: Low-Flow Channel CPS point: 36.443649 -120.21304 Characteristics of the floodplain unit: Average sediment texture: 51.4 Total veg cover: % Tree: % Shr Community successional stage: NA	Description Low Terrace Lo
Benches Other:	Cloodplain unit: Low-Flow Channel CPS point: 36.443649 -120.21801 Characteristics of the floodplain unit: Average sediment texture: 51.4 Total veg cover: 50 % Tree: 0 % Shr Community successional stage: NA	Active Floodplain Low Terrace Low Terrac

Floodplain unit: Low-Flow Channel	Active Floodplain Low Terrace
GPS point: 36,44452 ,- 120,2480 31	
Characteristics of the floodplain unit:	
Average sediment texture: Silf	
Total veg cover: 50 % Tree: 6 % Shru	b: 0 % Herb: 50 %
Community successional stage:	
NA NA	Mid (herbaceous, shrubs, saplings)
Early (herbaceous & seedlings)	Late (herbaceous, shrubs, mature trees)
ndicators:	point Bullion Application
Mudcracks	☐ Soil development
Ripples	Surface relief
Drift and/or debris	Surface relief Other: Ditch Top in active agrice where
Presence of bed and bank	
Benches	Other:
Comments:	
	Tested with all any of it get
Floodplain unit:	☐ Active Floodplain ☐ Low Terrace
And the second s	the led would and a style to get
Cloodplain unit:	Active Floodplain Low Terrace The
Characteristics of the floodplain unit: Average sediment texture:	Active Floodplain Low Terrace
Characteristics of the floodplain unit: Average sediment texture: Total veg cover:% Shru	Active Floodplain Low Terrace
Characteristics of the floodplain unit: Average sediment texture: Total veg cover: % Tree: % Shruccommunity successional stage:	Active Floodplain Low Terrace The
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Characteristics of the floodplain unit: Average sediment texture: Total veg cover: % Tree: % Shru Community successional stage: NA	Active Floodplain Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace
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Characteristics of the floodplain unit: Average sediment texture: Total veg cover: % Tree: % Shru Community successional stage: NA Early (herbaceous & seedlings)	Active Floodplain Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace
Characteristics of the floodplain unit: Average sediment texture: Total veg cover: % Tree: % Shru Community successional stage: NA Early (herbaceous & seedlings) Indicators: Mudcracks Ripples Drift and/or debris	Active Floodplain Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace
Characteristics of the floodplain unit: Average sediment texture: Total veg cover: % Tree: % Shru Community successional stage: NA Early (herbaceous & seedlings) ndicators: Mudcracks Ripples Drift and/or debris Presence of bed and bank	Active Floodplain
Characteristics of the floodplain unit: Average sediment texture: Total veg cover: % Tree: % Shru Community successional stage: NA Early (herbaceous & seedlings) ndicators: Mudcracks Ripples Drift and/or debris	Active Floodplain Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace
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Characteristics of the floodplain unit: Average sediment texture: Total veg cover: % Tree: % Shru Community successional stage: NA Early (herbaceous & seedlings) Indicators: Mudcracks Ripples Drift and/or debris Presence of bed and bank Benches	Active Floodplain
Characteristics of the floodplain unit: Average sediment texture: Total veg cover: % Tree: % Shru Community successional stage: NA Early (herbaceous & seedlings) Indicators: Mudcracks Ripples Drift and/or debris Presence of bed and bank Benches	Active Floodplain Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace Low Terrace

Project: Dar len sola? Project Number: 22-12530 Stream: Investigator(s): K. Asmus	Date: 4/22/2023 Town: 10500 County Photo begin file#:	Time: State: A Photo end file#:
Y ⋈ /N □ Do normal circumstances exist on the site?	Location Details:	
Y ☑ / N ☐ Is the site significantly disturbed?	Projection: 6465 Coordinates:	Datum: 1484
Potential anthropogenic influences on the channel sys	tem:	
Activeagnature		
Brief site description:	r min	
Overgrow ditch in fallow Sie	lds, dirt road	to morte
Topographic maps Geologic maps Vegetation maps Soils maps Rainfall/precipitation maps Existing delineation(s) for site Global positioning system (GPS) Other studies	y of recent effective discharges of flood frequency analy recent shift-adjusted rating heights for 2-, 5-, 10-, and recent event exceeding a 5-	sis 25-year events and the
Hydrogeomorphic I		
Active Floodplain Low-Flow Channels	OHWM Paleo Char	nnel
Procedure for identifying and characterizing the floor 1. Walk the channel and floodplain within the study area Wasterian present at the site.	The state of the s	
vegetation present at the site. 2. Select a representative cross section across the channel. 3. Determine a point on the cross section that is character		

# TOB 14# 40A	A 1-1 Isamula wolftward : time ninduboof
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1	har acterisites of the Goodplain wait:
8-108	Asserge sediment texture
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K wai &	Community such essential stope:
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HWM (1999) (1999) (1999) (1999) (1999)	of Early (horresonna & seedlings)
no 1. 2/	
PS point: 36.458333, -120.157145.	
ndicators:	
Change in average sediment texture	Break in bank slope
Change in vegetation species	Cilioti
Change in vegetation cover	Other:
	· samemao
omments:	
0	1 Ladinal
Basin covered in non native	e annual grasses, same as ladjacel
	1 1 1 1 m made
Sield to west. Gapes	in the la on east
	Active Floodplain Low Terrace about
PS point: 36.458352 ,- 120.157114	SAS bojut:
PS point: 36.458352 ,- 120.157114	PS point: https://exists.of.the Roodplain upit:
haracteristics of the floodplain unit: Average sediment texture:	PS point: https://document.com/points
haracteristics of the floodplain unit: Average sediment texture: 51 + Total veg cover: 60 % Tree: 6 % Sh	rub: O 1% Herb: 80 1% W words and the state of the file of the fil
haracteristics of the floodplain unit: Average sediment texture: 614 Total veg cover: 6 % Tree: 6 % Sh	The selection of the Hoodplain upit: Average sediment training. Total very cover at 10 % % 10 8 Herb: 80 % % 20 cover at 10 community successional stages.
haracteristics of the floodplain unit: Average sediment texture: 51 + Total veg cover: 60 % Tree: 6 % Sh	rub: 60 % Herb: 80 % Herb: 80 % White Manual Waller of the Herb: 80 % White Waller of the Herb:
haracteristics of the floodplain unit: Average sediment texture: 614 Total veg cover: 6 % Tree: 6 % Sh	rub: 60 % Herb: 80 % To some sum of the sum
PS point: 36.458352 - 120.157114 Characteristics of the floodplain unit: Average sediment texture: 51.4 Total veg cover: 60. % Tree: 6.1% Shi Community successional stage: NA	rub:
haracteristics of the floodplain unit: Average sediment texture: Total veg cover: NA Early (herbaceous & seedlings)	rub: 60 % Herb: 80 % Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees)
haracteristics of the floodplain unit: Average sediment texture: 6 % Tree: 6 % Shi Community successional stage: NA Early (herbaceous & seedlings)	rub: Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development
haracteristics of the floodplain unit: Average sediment texture: Total veg cover: NA Early (herbaceous & seedlings)	rub:
haracteristics of the floodplain unit: Average sediment texture: 614 Total veg cover: 6 % Tree: 6 % Sharacteristics of the floodplain unit: Community successional stage: NA Early (herbaceous & seedlings)	rub: 80 % Herb: 80 % Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development Surface relief Other:
haracteristics of the floodplain unit: Average sediment texture: 614 Total veg cover: 6 % Tree: 6 % Sh Community successional stage: NA Early (herbaceous & seedlings) Indicators: Muderacks Ripples Drift and/or debris	rub: 80 % Herb: 80 % Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development Surface relief Other:
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Floodplain unit: Low-Flow Channel	
	Active Floodplain Low Terrace
GPS point: 36.458339 -120.157177	
Characteristics of the floodplain unit:	
Average sediment texture: Sil+	
Total veg cover: 70 % Tree: 0 % Shru	b: 0 % Herb: 70 %
Community successional stage:	
□ NA	☐ Mid (herbaceous, shrubs, saplings)
Early (herbaceous & seedlings)	Late (herbaceous, shrubs, mature trees)
indicators:	Section 32 - Section SE rinton S
Mudcracks	Soil development
Ripples	
Drift and/or debris	
Presence of bed and bank	Other:
Benches	
	Guidi. Harry annunciate at agusto [2]
Comments:	
	1839 5080
	Active Floodplain Low Terrace
Floodplain unit:	Active Floodplain Low Terrace Thou
GPS point:Characteristics of the floodplain unit:	
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Characteristics of the floodplain unit: Average sediment texture: Total veg cover:% Tree:% Shru	S points of the Roadpiells units
Characteristics of the floodplain unit: Average sediment texture: Total veg cover: % Tree: % Shru Community successional stage:	b:
Characteristics of the floodplain unit: Average sediment texture: Total veg cover: % Tree: % Shruic Community successional stage: NA	b:% Herb:% Mid (herbaceous, shrubs, saplings)
Characteristics of the floodplain unit: Average sediment texture: Total veg cover: % Tree: % Shru Community successional stage:	b:% Herb:% Mid (herbaceous, shrubs, saplings)
Characteristics of the floodplain unit: Average sediment texture: Total veg cover: % Tree: % Shruic Community successional stage: NA	b:% Herb:% Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees)
Characteristics of the floodplain unit: Average sediment texture: Total veg cover: % Tree: % Shru Community successional stage: NA Early (herbaceous & seedlings)	b:% Herb:% Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees)
Characteristics of the floodplain unit: Average sediment texture: Total veg cover: % Tree: % Shru Community successional stage: NA Early (herbaceous & seedlings)	b:% Herb:% Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees)
Characteristics of the floodplain unit: Average sediment texture: Total veg cover: % Tree: % Shruice Community successional stage: NA Early (herbaceous & seedlings)	b:% Herb:% Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development Surface relief
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Characteristics of the floodplain unit: Average sediment texture: Total veg cover: % Tree: % Shru Community successional stage: NA Early (herbaceous & seedlings) Indicators: Mudcracks Ripples Drift and/or debris Presence of bed and bank	b:% Herb:% Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development Surface relief Other:Other:Other:
Characteristics of the floodplain unit: Average sediment texture: Total veg cover: % Tree: % Shru Community successional stage: NA Early (herbaceous & seedlings) Indicators: Mudcracks Ripples Drift and/or debris Presence of bed and bank Benches	b:% Herb:% Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development Surface relief Other: Other: Other:
Characteristics of the floodplain unit: Average sediment texture: Total veg cover: % Tree: % Shru Community successional stage: NA Early (herbaceous & seedlings) Indicators: Mudcracks Ripples Drift and/or debris Presence of bed and bank	b:% Herb:% Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development Surface relief Other:Other:Other:
Characteristics of the floodplain unit: Average sediment texture: Total veg cover: % Tree: % Shru Community successional stage: NA Early (herbaceous & seedlings) Indicators: Mudcracks Ripples Drift and/or debris Presence of bed and bank Benches	b:% Herb:% Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development Surface relief Other: Other: Other:
Characteristics of the floodplain unit: Average sediment texture: Total veg cover: % Tree: % Shru Community successional stage: NA Early (herbaceous & seedlings) Indicators: Mudcracks Ripples Drift and/or debris Presence of bed and bank Benches	b:% Herb:% Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development Surface relief Other: Other: Other: