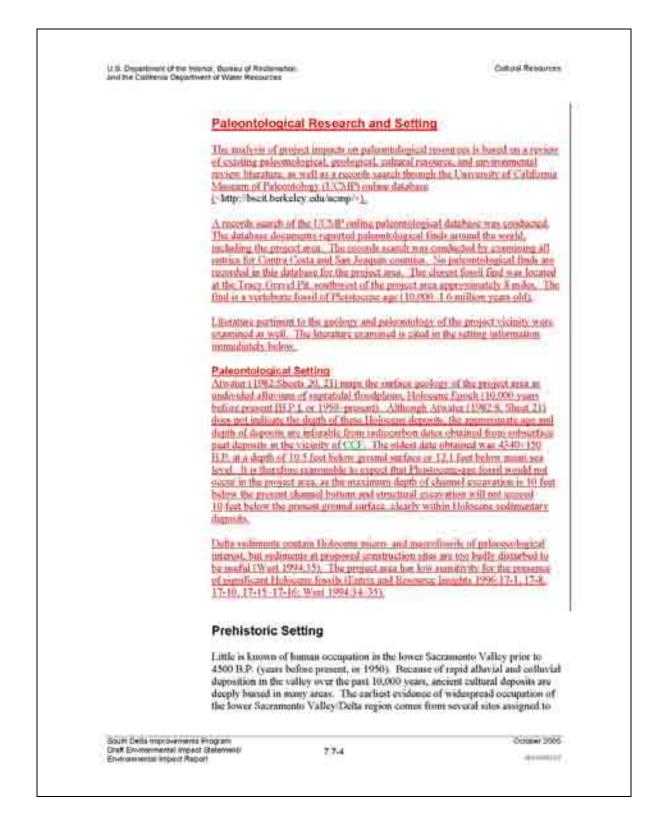
Section 7.7



U.S. Department of the Interiol, and the California Department of		Cultural Resources
	omprehensive overview of historic cultural pecific historical studies have been conduc	the rest of the second state of the second sta
Source	es of Information	
	Is affected anvisionmat and impact assess used on:	munity presented in this section are
	excises of existing information.	
	consultation with interasted parties,	
	field surveys of the SDIP area of potent	al effects (APE),
	archival research, and	
	evaluation of identified cultural resource	es (Jones & Stellers 20034).
1	Records Search	
	he review of existing information included WR. The records searchas were conducto information Center (CCIC) and the Northwi "alifornia Historical Resources Information of the transmission center of CHRIS maintains the esource studies and known cultural resource he CCIC maintains the database for a server ocquin County, whereas the NWIC maintai hat includes Contra Coust County. The ree achading cultural resources locations and ou ocations of cultural resources, are not access altural resource professionals.	d at the Central California est Information Center (NWIC) of the System (CHRIS). Each regional itate's database of previous cultural es for the counties in its jurisdiction; -county area that includes San ins the database for a 16-county area only maintained by the CHRIS, tural resource studies containing
1. 1.	n addition to the state's database of previou nown cultural resources, the record searchs spographic maps, local historical surveys a istorical writings, and the Caltrans' Histori	is included reviews of historic ad overviews, primary and secondary
a ta S J S S S S S S S S S S S S S S S S S	The records search indicates that portions of rehaeological resources using methods that oday (Archeo-Tec 1989, 1990; Baker and S hapiro 1997; Shapiro and Syda 1997a, 199 (rmy Enguseer District 1986; West 1991; 1 Vindmiller and Osanna 2000). The propose of been previously surveyed for the presen AFE consists primarily of those areas that w taring construction and operation activities, and officer elements of the built environment entures) was conducted by a qualified archi-	are considered professionally sound houp 1991; Peak & Associates 1997; 7b, 1997c; True et al. 1981; U.S. 294; West and Scott 1990; of dredge spoil areas, however, have ce of cultural resources. The SI2IP ill be subject to ground disturbance A survey of historic architecture (including water conveyance)



U.S. Department of the Impirial Bureau of Redematice and the California Department of Water Recources Castural Resources Known Cultural Resources Based on the records search, a review of historic maps, and the architectural and archaeological surveys, five cultural resources were identified in the SDIP APE. These consist of the Grant Line Fabian and Bell Canal, the West Canal, a levee system, a farm complex located near Middle River, and a building complex. Grant Line/Fabian and Bell Canal The Grant Line Fabian and Hell Canal is an earthen canal approximately 200 feet wide extending mughly 10 miles from east to west along the southern portion of the APE. Lovees an located on either side of the canal. The segment of the canal to the cast is a single waterway that divides into two separate parallel canals, creating an island strip in the middle as it extends westward. The canal to the south of the island strip is referred to as the Fahian and Hell Canal, and the canal to the cast is the Grant Line Canal. West Canal Because of limited access, a formal pedestrian survey of the West Canal was not possible for the purposes of this project. However, based on characteristics observed at nowby irrigation features (i.e., the Grant Line Fabian and Bell Canal), it is assumed that the West Canal displays design and construction materials and methods similar to the irrigation features located in the vicinity-Levee System A system of earthen lovees, which borders canals and rivers, is located throughout the project area. The levees vary in width and height but typicallymeasure approximately 40 feet wide and 10 to 15 feet high-Farm Complex The farm complex is located on the south bank of the Middle River in the vicinity of the proposed Middle River gate site. The complex contains a woodframe single-family residence and several mutal-framed barns and outbaildings. Grant Line/Fabian and Bell Canal Buildings A cluster of historic buildings is located on the island strip in the Grant Line Fabian and Bell Canal. The buildings are windowless wood-frame structures with gabled roofs. Environmental Consequences Assessment Methods—Cultural Resources Impact assessments for cultural resources focus on properties cligible for listing in the National Register of Historic Places (NRHP) (historic properties), the California Register of Historic Resources (CRIR), or those properties considered. significant resources or unique archaeological resources under CEQA. South Delta Improvementa Program October 2005 Graft Environmental Impact Stetement/ Environmental Impact Report 77-0 44440000000

U.S. Department of the Impris and the California Department		Cultural Resources
	2. Identification of Instance properties.	
	3. Assumment of adverse effects to history	ii properties.
	4 Resolution of adverse effects to historic	properties.
	The APE for the SDIP is formally defined i inventory and evaluation report prepared fo 2004b). The APE is confirmd largely to the ground-distantinuce during construction and	r this undertaking (Jones & Stokes we areas that will be subject to
	State—California Environmenta	al Quality Act
	CEQA requires that public agencies (in this public or private projects assess the effects Cultural resources are defined as buildinga, each of which may have historical, architec scientific importance. (EQA requires that effects on important cultural resources, alto must be considered; only significant cultura addressed. Therefore, prior to the develope importance of cultural resources must first i muntily taken in a cultural resources invest	of the project on cultural resources, sites, structures, districts, or objects, tural, archaeological, cultural, or if a project results in significant mative plans or mitigation measures. I resources, however, need to be next of mitigation measures, the be determined. The stops that are
	 identify cultural resources, 	
	 evaluate the significance of resources. 	
	· evaluate the efforts of a project on all a	esources, and
	 develop and implement measures to mi on appiption tesources. 	tigate the affects of the project only
Asse	ssment Methods and Regu	latory Setting-
Pale	ontological Resources	
	NEPA and CEOA provide impoten for field efficient of proposed projects on palsomichia agencies are denoted to consider the "degre lose or destruction of simulation becautific, (40 CFR 1508 27(b)(8). Similarly, 14 CO resistance under CEOA shill include any "of place, record, or memocrapt which a load a significant in significant in the architectura California." More broadly speaking, P80", meticonomia be taken to mean "the pleasing area which will be affected by a proposed p programmatic, flags, mass, which is of high	had manufactor. Under NEPA, Robral is to which the action may, cannot cultural, or instantial resources." (15064.5(2)(3) status (but a historical) spect, building, structura, site, sens, many daterminas in by historically Undernaming, whattiffe, atmeth in 20060.5 stignilation that the term I conditions which worst within for moject, including lend, ar, water, order or averthety, steartScange."
	Palembilogical teneration, in a non-manufacture	his rouses of information about the
South Cells mprovements Pr	0.0	October 2006

Cuttural Resources U.S. Department of the Interior, Bureau of Reuternation and the California Department of Water Resources present and distant poor, are objects of priorital superflate emportance and irreport of the primital subset of the environment. The Society of Verichnate Palcontology provides evidence in defining a significant paleoniological resource in its Assessment and Mitigation of Advenue Imparts to Nonconswable Paleontologie Rassurges, Standard Guildian, The Similard Guidefiner dufine significant nonrenewable paleontologic renources as "Towalle and foundations deposits here contricted to vertabular founds and their taphonomic and associated environmental indicatory. This definition excludes investebrate or betanical femile except when present within a given vertebrate assumblage. Certain plant and investidicate freeils or everyblages may be defined as significant by a project palcontologist, local palcontologist, specialista or apostal interest promotion or by Land Aganetics or local governments." (Senisty of Ventebrate Palaontology 2001.) Areas of Controversy Under CEQA, areas of controversy involve factors that reflect differing opinions among technical experts. Differences of opinion among technical experts stam from differing methodological or theoretical orientations. Although differences of theoretical and methodological approach exist among palaouedogists, archaeologists, historians, and cultural anthropologists, these do not appear to affect the assessment of impacts that may result from the SDIP alternatives. Therefore, no areas of controversy relate to cultural or paleontological resources for the purposes of the SDIP. Evaluation of Identified Cultural Resources Grant Line/Fabian and Bell Canal, West Canal, Levee System, Farm Complex, Grant Line/Fabian and Bell Canal Buildings Five known cultural resources are located in the project area. Fieldwork conducted by Jones & Stokes did not identify additional cultural resources in the project area. An evaluation was conducted to determine whether these features meet the criteria for listing in the NRHP or CRHP (Jones & Stokes 2004b). None of the features appears to most the criteria for eligibility because of loss of integrity, lack of historical and architectural significance, or non-historic dates of construction. The State Historic Preservation Officer (SHPO) must concur with these determinations pursuant to 36 CFR 800.4. Resource evaluations are summarized below Grant Line/Fabian and Sell Canal Grant Line Fahian and Bell Canal follows the same alignment as it did in the 19th century from an engineering standpoint, but the canal hears little resemblance to a canal from the period of significance. Rather, it is very much a product of the South Delta Improvementa Program October 2005 Graft Environmental Impact Stetement/ Environmental Impact Report 77.15

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C1 ad 80 th in af of	KOA, impacts on cult versely affect signific 0.5 regulations, a fed undertaking alters th Insign in the NRHP left cultural resources	inal resources are consi- tant cultural resources, and action or undortaka te characteristics that m Specific actions under include the modification	e extent of the impact. Under level significant if they would Similarly, pursuant to 36 CFR gwould have an adverse effect if alce a property eligible for the SDIP that may adversely in of existing leveus, construction tures and access roads, and
	indicated under Asse ult from a federal act		cia on cultural resources that may
	ground disturbance.		
6		teration of historic stru-	tures.
8	and a straight a second	intrusions to a resource	State State and a state of the
3	vandaliem.	interest of a residuce	
to Ci th Wi	lace their information terion 4). Physical d characteristics of a c	i or research potential (lamage or alteration ma sultural resource that or rical event, purvon, or a	egrity of those resources and thus NRHP Criterion D or CRHR y also have deleterions effects on ovey its significant association ubitectural design quality (NRHP
100 445 111 100 500	hale ground disturbs facing) Removal of served and demons 1 pact mechanisms. Bo withing a premiaily	mee, hirrial, and vandeli a paleontrological resource o or destruction of form wial of known found do significant impact much	result from a proposad prejact on tunauthorneed collection or or from the context in admit it in to see periodially significant public and/or fill may also amont business listing access to the by impoled or prevented.
900 972	refore studies indicat eignificant finellifyrr	a that the project area is on dependent the property process impacts on pales	a repeated in the project arm and as low potential for the presence al project would have no import analogical measures will not be
CALFE	D Programm	atic Mitigation	Measures
42 11	maies to consider and plumentation of proje	d use where appropriate set specific actions. The	Discludes mitigation measures for in the development and mitigation measures address the the CALFED Program.
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