

**RECLAMATION DISTRICT NO. 1601
TWITCHELL ISLAND
BOARD OF TRUSTEES MEETING
TUESDAY, JUNE 18, 2024
9:00 AM
ENGINEER'S REPORT**

I. 2024-2025 ASSESSMENT BY LANDOWNER SUMMARIES

- A. Review the Districts Draft Assessment summaries calculated for 100%, 90%, and 80%, of the **\$700,000** approved assessment.

EXHIBIT A: Assessment summaries 100%.

EXHIBIT B: Assessment summaries 90%.

EXHIBIT C: Assessment summaries 80%.

II. DWR SYSTEMWIDE MULTI-BENEFIT PROJECT FUNDING SCOPE OF WORK

- A. Review Scope of Work and Preliminary Cost estimate for activities aimed at addressing erosion-induced damages to the levee waterside slopes and levee roadways along Sevenmile Slough between levee stations 166+50 and 170+50 on Twitchell during the 2023 high water event that DWR is considering funding as part of an Emergency

EXHIBIT D: Email correspondence from David Julian, DWR dated 5/28/24 re DWR 2023 Emergency Levee repair Funding from the Governors' office.

EXHIBIT E: Scope of Work and preliminary estimate prepared by KSN Inc. date June 3, 2024.

III. DELTA LEVEE SUBVENTIONS PROGRAM AB 360

- A. Review PowerPoint presentation from Department of Water Resources staff that will be presented before the Central Valley Flood Protection (CVFPB) at their June 28, 2024, Board Meeting related to the Subventions Program Highlights over the past several years together with historical spending and expense patterns.

EXHIBIT F: DWR PPT for 6/28/24 CVFPB MTG

**IV. PROJECT FUNDING AGREEMENT TW – 24 - 1.0 SP – PHASE I –
SETBACK LEVEE SAN JOAQUIN RIVER**

- A. Review the general status of Project Funding Agreement signature.
- B. Review “DRAFT” general schedule of activities prepared by KSN Inc..

EXHIBIT G: DRAFT General Schedule of activities.

V. DISTRICT EXCAVATOR RECOVERY WITH INSURANCE COMPANY

- A. Review status of the Excavator extraction efforts.

VI. DISTRICT PUMP STATION SOLAR ARRAY

- A. Review status of Solar Array Plans.

EXHIBIT H: Email correspondence related to general schedule of activities.

***EXHIBIT I: Email correspondence related to design considerations on tilt of the
solar panels.***

EXHIBIT A

Reclamation District No. 1601

11-May-24

Assessment by Landowner - Fiscal Year 2024-2025

"AS IF" \$700,000 (100% of MAX ASSESSMENT)

DEPLETION VALUE CALCULATIONS

			2024-2025	2023-2024
A - 2023 RV Total Prod	(on line opi.consrv.ca.gov)	(MCF)	2,429,707	2,407,756
B - 2023 Twitchell Prod	(add all 1601 prod wells)	(MCF)	599,928	562,785
C - Net Present Value	(2022 base yr value NPV)		\$26,876,938	\$26,881,513
D - Total Reserves		(MCF)	13,950,000,000	13,950,000,000
E - Base Year Value per MCF	(C/D)	(\$/MCF)	\$0.0019	\$0.0019
F - 2023 Unit Depletion Value	(E x A)		\$4,616	\$4,575

CALCULATIONS (BASED ON DOG #S)

			2024-2025	2023-2024
G - 2023 Base Year Value of the Unit - C			\$26,876,938	\$26,881,513
H - less: 2023 Unit Depletion Value - F			\$4,616	\$4,575
I - 2024 Base Year Value of the Unit - C-F			\$26,872,322	\$26,876,938
J - 2023 RD 1601 Pro Rata Share of Unit	562,785/2,407,756 - B/A		24.691372%	23.373839%
K - 2024 RD 1601 Value - I*J			\$6,635,145	\$6,282,172
L - Benefit Factor - Given in Minutes			4.00%	4.00%
M - 2024 RD 1601 Taxable Unit Value (Mineral Rights) - K*L			\$265,406	\$251,287

ASSESSMENT FACTOR (Max Assessment Factor 47.6382) = X/W = 39.37523

Landowner	Acreage	Per Acre	Total Valuation	2024-25	
RD 1601	422.509	200	84,502	\$33,272.78	4.8%
Karlie & Noeme Silva	0.951	400	380	\$149.78	0.0%
Marjorie H. Sgarrella	1.480	400	592	\$233.10	0.0%
County of Sacramento	0.010	0	0	\$0.00	0.0%
RD 1601	121.400	200	24,280	\$9,560.31	1.4%
State of California	2244.497	200	448,899	\$176,755.17	25.3%
State of California	764.900	1200	917,880	\$361,417.29	51.6%
Fagundes Dairy	47.750	200	9,550	\$3,760.33	0.5%
Stkn Marina Properties LLC	20.000	1200	24,000	\$9,450.06	1.4%
Exxon Corporation ***	0.870	200	174	\$68.51	0.0%
Carter	10.520	200	2,104	\$828.45	0.1%
					0.0%
	3634.887				0.0%
California Resources Production (W)			265,406	\$104,504.22	14.9%
Total Assessment (X)			1,777,768	\$700,000.00	1

*** Bill Exxon Corp to State of CA \$700,000.00

Reclamation District No. 1601, Twitchell Island
 Revised Acreage Operation and Maintenance Assessment Roll
 5/1/2024

(Max Assessment Factor 47.6382)
 Proposed New Assessment Factor (MAX)
 Prior Assessment Factor (2023-24)
\$700,000 (100% of MAX ASSESSMENT)

PROPOSED NEW ASSESSMENT (2024-25)
 PROPOSED NEW ASSESSMENT (2023-24)

Tract No.	Description Sacramento County Assessor Parcel No.	Acres	Habitat Restoration Acres	Revised Acres	C	D	PROPOSED NEW ASSESSMENT (2024-25)			PRIOR ASSESSMENT (2023-24)		
							New Total Assessment Valuation (B x D)	Proposed New Rate per \$100 of Assessed Valuation	Proposed Total Assessment (E/100) x F	Prior Total Valuation (B x D)	Prior Rate per \$100 of Assessed Valuation	Prior Total Assessment (H/100) x I
1	157-0130-026	422.509		422.509	RD No 1601	200	84,502	39.37523	\$33,272.78	84,502	39.69045	\$33,539.14
2	157-0130-027	117.000		117.000	RD No 1601	200	23,400	39.37523	\$9,213.81	23,400	39.69045	\$9,287.56
3	157-0130-011	0.951		0.951	Katie & Noeme Silva	400	380	39.37523	\$149.78	380	39.69045	\$150.98
4	157-0130-015	0.566		0.566	State of California	200	113	39.37523	\$44.57	113	39.69045	\$44.93
5	157-0130-019	0.410		0.410	Marjorie H. Sgarrella	400	164	39.37523	\$64.58	164	39.69045	\$65.09
6	157-0130-016	0.741		0.741	State of California	200	148	39.37523	\$58.35	148	39.69045	\$58.82
7	157-0130-018	1.070		1.070	Marjorie H. Sgarrella	400	428	39.37523	\$168.52	428	39.69045	\$169.88
8	157-0130-014	0.010		0.010	County of Sacramento	0	0	39.37523	\$0.00	0	39.69045	\$0.00
9	157-0130-017	102.450		102.450	State of California	200	20,490	39.37523	\$8,067.98	20,490	39.69045	\$8,132.57
10	157-0130-004	200.550		200.550	State of California	200	40,110	39.37523	\$15,793.40	40,110	39.69045	\$15,919.84
11	157-0130-024	302.960		302.960	State of California	200	60,592	39.37523	\$23,858.24	60,592	39.69045	\$24,049.24
12	157-0130-020	47.750		47.750	Fagundes Dairy	200	9,550	39.37523	\$3,760.33	9,550	39.69045	\$3,790.44
13	157-0130-022	40.000		40.000	State of California	200	8,000	39.37523	\$3,150.02	8,000	39.69045	\$3,175.24
14	157-0130-008	300.850		300.850	State of California	200	60,170	39.37523	\$23,692.08	60,170	39.69045	\$23,881.74
15	157-0130-006	357.980		357.980	State of California	200	71,596	39.37523	\$28,191.09	71,596	39.69045	\$28,416.77
16	157-0130-007	102.000		102.000	State of California	200	20,400	39.37523	\$8,032.55	20,400	39.69045	\$8,096.85
17	157-0140-004	1.000		1.000	State of California	200	200	39.37523	\$78.75	200	39.69045	\$79.38
18a	157-0140-020	578.470	209.400	369.070	State of California	200	73,814	39.37523	\$29,064.45	73,814	39.69045	\$29,297.12
18b	157-0140-020			209.400	State of California	1200	251,280	39.37523	\$98,942.01	251,280	39.69045	\$99,734.10
18c	157-0140-011	181.500	140.800	40.700	State of California	200	8,140	39.37523	\$3,205.14	8,140	39.69045	\$3,230.80
19b	157-0140-011			140.800	State of California	1200	168,960	39.37523	\$66,528.39	168,960	39.69045	\$67,060.98
20a	157-0140-009	186.000	121.100	64.900	State of California	200	12,980	39.37523	\$5,110.90	12,980	39.69045	\$5,151.82
20b	157-0140-009			121.100	State of California	1200	145,320	39.37523	\$57,220.08	145,320	39.69045	\$57,678.16
21a	157-0140-010	181.500	111.300	70.200	State of California	200	14,040	39.37523	\$5,528.28	14,040	39.69045	\$5,572.54
21b	157-0140-010			111.300	State of California	1200	133,560	39.37523	\$52,589.56	133,560	39.69045	\$53,010.57
22	157-0140-015	20.000		20.000	Stkn Marina Properties LLC	1200	24,000	39.37523	\$9,450.06	24,000	39.69045	\$9,525.71
23	157-0130-003	0.870		0.870	State of California (1/2)	200	174	39.37523	\$68.51	174	39.69045	\$69.06
24	157-0130-023	10.520		10.520	State of California (1/2)	200	174	39.37523	\$68.51	174	39.69045	\$69.06
25	** 157-0130-023	0.360		0.360	Ricky & Linda Carter	200	2,104	39.37523	\$828.45	2,104	39.69045	\$835.09
26	157-0130-025	4.040		4.040	RD No 1601	200	72	39.37523	\$28.35	72	39.69045	\$28.58
27a	157-0140-021	471.960	182.300	289.660	State of California	200	57,932	39.37523	\$22,810.86	57,932	39.69045	\$22,993.47
27b	157-0140-021			182.300	State of California	1200	218,760	39.37523	\$86,137.25	218,760	39.69045	\$86,826.83
		3,634.887	764.900	3,634.887								
					California Resources Production LESS RD1601		1,512,362	39.37523	\$104,504.22	1,512,362	39.69045	\$99,736.94
							265,406		(\$42,833.09)	251,287		(\$43,175.99)
							1,777,768		\$657,166.91	1,763,649		\$656,824.02

** .36 purchased from Carter for exclusive levee easement
 *** Exxon Corp billed to State of CA

EXHIBIT B

Reclamation District No. 1601

11-May-24

Assessment by Landowner - Fiscal Year 2024-2025

"AS IF" \$630,000 (90% of MAX ASSESSMENT)

DEPLETION VALUE CALCULATIONS

			2024-2025	2023-2024
A - 2023 RV Total Prod	(on line opi.consrv.ca.gov)	(MCF)	2,429,707	2,407,756
B - 2023 Twitchell Prod	(add all 1601 prod wells)	(MCF)	599,928	562,785
C - Net Present Value	(2022 base yr value NPV)		\$26,876,938	\$26,881,513
D - Total Reserves		(MCF)	13,950,000,000	13,950,000,000
E - Base Year Value per MCF	(C/D)	(\$/MCF)	\$0.0019	\$0.0019
F - 2023 Unit Depletion Value	(E x A)		\$4,616	\$4,575

CALCULATIONS (BASED ON DOG #S)

			2024-2025	2023-2024
G - 2023 Base Year Value of the Unit - C			\$26,876,938	\$26,881,513
H - less: 2023 Unit Depletion Value - F			\$4,616	\$4,575
I - 2024 Base Year Value of the Unit - C-F			\$26,872,322	\$26,876,938
J - 2023 RD 1601 Pro Rata Share of Unit 562,785/2,407,756 - B/A			24.691372%	23.373839%
K - 2024 RD 1601 Value - I*J			\$6,635,145	\$6,282,172
L - Benefit Factor - Given in Minutes			4.00%	4.00%
M - 2024 RD 1601 Taxable Unit Value (Mineral Rights) - K*L			\$265,406	\$251,287

ASSESSMENT FACTOR (Max Assessment Factor 47.6382) = X/W = 35.43770

Landowner	Acreage	Per Acre	Total Valuation	2024-25	
RD 1601	422.509	200	84,502	\$29,945.49	4.8%
Karlie & Noeme Silva	0.951	400	380	\$134.81	0.0%
Marjorie H. Sgarrella	1.480	400	592	\$209.79	0.0%
County of Sacramento	0.010	0	0	\$0.00	0.0%
RD 1601	121.400	200	24,280	\$8,604.27	1.4%
State of California	2244.497	200	448,899	\$159,079.62	25.3%
State of California	764.900	1200	917,880	\$325,275.62	51.6%
Fagundes Dairy	47.750	200	9,550	\$3,384.30	0.5%
Stkn Marina Properties LLC	20.000	1200	24,000	\$8,505.05	1.4%
Exxon Corporation ***	0.870	200	174	\$61.66	0.0%
Carter	10.520	200	2,104	\$745.61	0.1%
					0.0%
	3634.887				0.0%
California Resources Production (W)			265,406	\$94,053.78	14.9%
Total Assessment (X)			1,777,768	\$630,000.00	1

*** Bill Exxon Corp to State of CA \$630,000.00

**Reclamation District No. 1601, Twitchell Island
Revised Acreage Operation and Maintenance Assessment Roll
5/11/2024**

										(Max Assessment Factor 47.6382)		Proposed New Assessment Factor (MAX)		Prior Assessment Factor (MAX)			
												\$630,000 (90% of MAX_ASSESSMENT)					
										PROPOSED NEW ASSESSMENT (2024-25)				PRIOR ASSESSMENT (2023-24)			
Tract No.	Description Sacramento County Assessor Parcel No.	Acres	Habitat Restoration Acres	Revised Acres	C Owner	D Assessment Valuation per Acre	E New Total Assessment Valuation (B x D)	F Proposed New Rate per \$100 of Assessed Valuation	G Proposed Total Assessment (E/100) x F	H Prior Total Valuation (B x D)	I Prior Rate per \$100 of Assessed Valuation	J Prior Total Assessment (H/100) x I					
1	157-0130-026	422.509		422.509	RD No 1601	200	84,502	35.43770	\$29,945.49	84,502	35.72140	\$30,185.23					
2	157-0130-027	117.000		117.000	RD No 1601	200	23,400	35.43770	\$8,292.41	23,400	35.72140	\$8,358.81					
3	157-0130-011	0.951		0.951	Karlie & Noeme Silva	400	380	35.43770	\$134.81	380	35.72140	\$135.88					
4	157-0130-015	0.566		0.566	State of California	200	113	35.43770	\$40.12	113	35.72140	\$40.44					
5	157-0130-019	0.410		0.410	Marjorie H. Sgarrella	400	164	35.43770	\$58.12	164	35.72140	\$58.58					
6	157-0130-016	0.741		0.741	State of California	200	148	35.43770	\$52.52	148	35.72140	\$52.94					
7	157-0130-018	1.070		1.070	Marjorie H. Sgarrella	400	428	35.43770	\$151.67	428	35.72140	\$152.89					
8	157-0130-014	0.010		0.010	County of Sacramento	0	0	35.43770	\$0.00	0	35.72140	\$0.00					
9	157-0130-017	102.450		102.450	State of California	200	20,490	35.43770	\$7,261.18	20,490	35.72140	\$7,319.31					
10	157-0130-004	200.550		200.550	State of California	200	40,110	35.43770	\$14,214.06	40,110	35.72140	\$14,327.85					
11	157-0130-024	302.960		302.960	State of California	200	60,592	35.43770	\$21,472.41	60,592	35.72140	\$21,644.31					
12	157-0130-020	47.750		47.750	Fagundes Dairy	200	9,550	35.43770	\$3,384.30	9,550	35.72140	\$3,411.39					
13	157-0130-022	40.000		40.000	State of California	200	8,000	35.43770	\$2,835.02	8,000	35.72140	\$2,857.71					
14	157-0130-008	300.850		300.850	State of California	200	60,170	35.43770	\$21,322.86	60,170	35.72140	\$21,493.57					
15	157-0130-006	357.980		357.980	State of California	200	71,596	35.43770	\$25,371.98	71,596	35.72140	\$25,575.09					
16	157-0130-007	102.000		102.000	State of California	200	20,400	35.43770	\$7,229.29	20,400	35.72140	\$7,287.17					
17	157-0140-004	1.000		1.000	State of California	200	200	35.43770	\$70.88	200	35.72140	\$71.44					
18a	157-0140-020	578.470	209.400	369.070	State of California	200	73,814	35.43770	\$26,157.98	73,814	35.72140	\$26,367.40					
18b	157-0140-020			209.400	State of California	1200	251,280	35.43770	\$89,047.91	251,280	35.72140	\$89,760.76					
19a	157-0140-011	181.500	140.800	40.700	State of California	200	8,140	35.43770	\$2,884.63	8,140	35.72140	\$2,907.72					
19b	157-0140-011			140.800	State of California	1200	168,960	35.43770	\$59,875.54	168,960	35.72140	\$60,354.88					
20a	157-0140-009	186.000	121.100	64.900	State of California	200	12,980	35.43770	\$4,599.81	12,980	35.72140	\$4,636.64					
20b	157-0140-009			121.100	State of California	1200	145,320	35.43770	\$51,498.07	145,320	35.72140	\$51,910.34					
21a	157-0140-010	181.500	111.300	70.200	State of California	200	14,040	35.43770	\$4,975.45	14,040	35.72140	\$5,015.28					
21b	157-0140-010			111.300	State of California	1200	133,560	35.43770	\$47,330.59	133,560	35.72140	\$47,709.50					
22	157-0140-015	20.000		20.000	Stkn Marina Properties LLC	1200	24,000	35.43770	\$8,505.05	24,000	35.72140	\$8,573.14					
23	157-0130-003	0.870		0.870	State of California (1/2)	200	174	35.43770	\$61.66	174	35.72140	\$62.16					
24	157-0130-023	10.520		10.520	State of California (1/2)	200	174	35.43770	\$61.66	174	35.72140	\$62.16					
25	** 157-0130-023	0.360		0.360	Ricky & Linda Carter	200	2,104	35.43770	\$745.61	2,104	35.72140	\$751.58					
26	157-0130-025	4.040		4.040	RD No 1601	200	72	35.43770	\$25.52	72	35.72140	\$25.72					
27a	157-0140-021	471.960	182.300	289.660	State of California	200	57,932	35.43770	\$20,529.77	57,932	35.72140	\$20,694.12					
27b	157-0140-021			182.300	State of California	1200	218,760	35.43770	\$77,523.51	218,760	35.72140	\$78,144.13					
		3,634.887	764.900	3,634.887	California Resources Production LESS RD1601		1,512,362 265,406	35.43770	\$94,053.78 (\$38,549.76)	1,512,362 251,287	35.72140	\$89,763.23 (\$38,858.39)					
							1,777,768		\$591,450.24	1,763,649		\$591,141.61					

** .36 purchased from Carter for exclusive levee easement
*** Exxon Corp billed to State of CA

EXHIBIT C

Reclamation District No. 1601

11-May-24

Assessment by Landowner - Fiscal Year 2024-2025

\$560,000 (80% of MAX ASSESSMENT)

DEPLETION VALUE CALCULATIONS

			2024-2025	2023-2024
A - 2023 RV Total Prod	(on line opi.consrv.ca.gov)	(MCF)	2,429,707	2,407,756
B - 2023 Twitchell Prod	(add all 1601 prod wells)	(MCF)	599,928	562,785
C - Net Present Value	(2022 base yr value NPV)		\$26,876,938	\$26,881,513
D - Total Reserves		(MCF)	13,950,000,000	13,950,000,000
E - Base Year Value per MCF	(C/D)	(\$/MCF)	\$0.0019	\$0.0019
F - 2023 Unit Depletion Value	(E x A)		\$4,616	\$4,575

CALCULATIONS (BASED ON DOG #S)

			2024-2025	2023-2024
G - 2023 Base Year Value of the Unit - C			\$26,876,938	\$26,881,513
H - less: 2023 Unit Depletion Value - F			\$4,616	\$4,575
I - 2024 Base Year Value of the Unit - C-F			\$26,872,322	\$26,876,938
J - 2023 RD 1601 Pro Rata Share of Unit	562,785/2,407,756 - B/A		24.691372%	23.373839%
K - 2024 RD 1601 Value - I*J			\$6,635,145	\$6,282,172
L - Benefit Factor - Given in Minutes			4.00%	4.00%
M - 2024 RD 1601 Taxable Unit Value (Mineral Rights) - K*L			\$265,406	\$251,287

ASSESSMENT FACTOR (Max Assessment Factor 47.6382) = X/W = 31.50018

Landowner	Acreage	Per Acre	Total Valuation	2024-25	
RD 1601	422.509	200	84,502	\$26,618.22	4.8%
Karlie & Noeme Silva	0.951	400	380	\$119.83	0.0%
Marjorie H. Sgarrella	1.480	400	592	\$186.48	0.0%
County of Sacramento	0.010	0	0	\$0.00	0.0%
RD 1601	121.400	200	24,280	\$7,648.24	1.4%
State of California	2244.497	200	448,899	\$141,404.12	25.3%
State of California	764.900	1200	917,880	\$289,133.86	51.6%
Fagundes Dairy	47.750	200	9,550	\$3,008.27	0.5%
Stkn Marina Properties LLC	20.000	1200	24,000	\$7,560.04	1.4%
Exxon Corporation ***	0.870	200	174	\$54.81	0.0%
Carter	10.520	200	2,104	\$662.76	0.1%
					0.0%
	3634.887				0.0%
California Resources Production (W)			265,406	\$83,603.37	14.9%
Total Assessment (X)			1,777,768	\$560,000.00	1

*** Bill Exxon Corp to State of CA \$560,000.00

**Reclamation District No. 1601, Twitchell Island
Revised Acreage Operation and Maintenance Assessment Roll**
5/11/2024

		PROPOSED NEW ASSESSMENT (2023-24)				PROPOSED NEW ASSESSMENT (2024-25)				PRIOR ASSESSMENT (2023-24)			
		(Max Assessment Factor 47.6382)				(Max Assessment Factor 47.6382)				Prior Assessment Factor (MAX)			
		\$560,000 (80% of MAX ASSESSMENT)				\$560,000 (80% of MAX ASSESSMENT)				Prior Assessment Factor (MAX)			
		PROPOSED NEW ASSESSMENT (2023-24)				PROPOSED NEW ASSESSMENT (2024-25)				PRIOR ASSESSMENT (2023-24)			
A	B	C	D	E	F	G	H	I	J	K	L	M	N
Tract No.	Description	Habitat Restoration Acres	Revised Acres	Owner	Assessment Valuation per Acre	New Total Assessment Valuation (B x D)	Proposed New Rate per \$100 of Assessed Valuation	Proposed Total Assessment (E/100) x F	Prior Total Valuation (B x D)	Prior Rate per \$100 of Assessed Valuation	Prior Total Assessment (H/100) x I	Prior Total Assessment (H/100) x J	Prior Total Assessment (H/100) x L
1	157-0130-026	422.509	422.509	RD No 1601	200	84,502	31.50018	\$26,618.22	84,502	31.75236	\$26,631.32	\$26,631.32	31,50018
2	157-0130-027	117.000	117.000	RD No 1601	200	23,400	31.50018	\$7,371.04	23,400	31.75236	\$7,430.05	\$7,430.05	31,75236
3	157-0130-011	0.951	0.951	Karlie & Noeme Silva	400	380	31.50018	\$119.83	380	31.75236	\$120.79	\$120.79	31,75236
4	157-0130-015	0.566	0.566	State of California	200	113	31.50018	\$35.66	113	31.75236	\$35.94	\$35.94	31,75236
5	157-0130-019	0.410	0.410	Marjorie H. Sgarrella	400	164	31.50018	\$51.86	164	31.75236	\$52.07	\$52.07	31,75236
6	157-0130-016	0.741	0.741	State of California	200	148	31.50018	\$46.68	148	31.75236	\$47.06	\$47.06	31,75236
7	157-0130-018	1.070	1.070	Marjorie H. Sgarrella	400	428	31.50018	\$134.82	428	31.75236	\$135.90	\$135.90	31,75236
8	157-0130-014	0.010	0.010	County of Sacramento	0	0	31.50018	\$0.00	0	31.75236	\$0.00	\$0.00	31,75236
9	157-0130-017	102.450	102.450	State of California	200	20,490	31.50018	\$6,454.39	20,490	31.75236	\$6,506.06	\$6,506.06	31,75236
10	157-0130-004	200.550	200.550	State of California	200	40,110	31.50018	\$12,634.72	40,110	31.75236	\$12,735.87	\$12,735.87	31,75236
11	157-0130-024	302.960	302.960	State of California	200	60,592	31.50018	\$19,086.59	60,592	31.75236	\$19,239.39	\$19,239.39	31,75236
12	157-0130-020	47.750	47.750	Fagundes Dairy	200	9,550	31.50018	\$3,008.27	9,550	31.75236	\$3,032.35	\$3,032.35	31,75236
13	157-0130-022	40.000	40.000	State of California	200	8,000	31.50018	\$2,520.01	8,000	31.75236	\$2,540.19	\$2,540.19	31,75236
14	157-0130-008	300.850	300.850	State of California	200	60,170	31.50018	\$18,953.66	60,170	31.75236	\$19,105.40	\$19,105.40	31,75236
15	157-0130-006	357.980	357.980	State of California	200	71,596	31.50018	\$22,552.87	71,596	31.75236	\$22,733.42	\$22,733.42	31,75236
16	157-0130-007	102.000	102.000	State of California	200	20,400	31.50018	\$6,426.04	20,400	31.75236	\$6,477.48	\$6,477.48	31,75236
17	157-0140-004	1.000	1.000	State of California	200	200	31.50018	\$63.00	200	31.75236	\$63.50	\$63.50	31,75236
18a	157-0140-020	578.470	209.400	State of California	200	73,814	31.50018	\$23,251.55	73,814	31.75236	\$23,437.68	\$23,437.68	31,75236
18b	157-0140-020		209.400	State of California	1200	251,280	31.50018	\$79,153.67	251,280	31.75236	\$79,787.22	\$79,787.22	31,75236
19a	157-0140-011	181.500	140.800	State of California	200	8,140	31.50018	\$2,564.11	8,140	31.75236	\$2,584.64	\$2,584.64	31,75236
19b	157-0140-011		140.800	State of California	1200	168,960	31.50018	\$53,222.70	168,960	31.75236	\$53,648.79	\$53,648.79	31,75236
20a	157-0140-009	186.000	121.100	State of California	200	12,980	31.50018	\$4,088.72	12,980	31.75236	\$4,121.46	\$4,121.46	31,75236
20b	157-0140-009		121.100	State of California	1200	145,320	31.50018	\$45,776.06	145,320	31.75236	\$46,142.53	\$46,142.53	31,75236
21a	157-0140-010	181.500	111.300	State of California	200	14,040	31.50018	\$4,422.63	14,040	31.75236	\$4,458.03	\$4,458.03	31,75236
21b	157-0140-010		111.300	State of California	1200	133,560	31.50018	\$42,071.64	133,560	31.75236	\$42,408.45	\$42,408.45	31,75236
22	157-0140-015	20.000	20.000	Skln Marina Properties LLC	1200	24,000	31.50018	\$7,560.04	24,000	31.75236	\$7,620.57	\$7,620.57	31,75236
23	157-0130-003	0.870	0.870	State of California (1/2)	200	174	31.50018	\$54.81	174	31.75236	\$55.25	\$55.25	31,75236
24	157-0130-023	10.520	10.520	State of California (1/2)	200	174	31.50018	\$54.81	174	31.75236	\$55.25	\$55.25	31,75236
25	** 157-0130-023	0.360	0.360	Ricky & Linda Carter	200	2,104	31.50018	\$662.76	2,104	31.75236	\$668.07	\$668.07	31,75236
26	157-0130-025	4.040	4.040	RD No 1601	200	72	31.50018	\$22.68	72	31.75236	\$22.86	\$22.86	31,75236
27a	157-0140-021	471.960	289.660	State of California	200	57,932	31.50018	\$18,248.68	57,932	31.75236	\$18,394.78	\$18,394.78	31,75236
27b	157-0140-021		182.300	State of California	1200	218,760	31.50018	\$68,909.79	218,760	31.75236	\$69,461.46	\$69,461.46	31,75236
		3,634.887	764.900	California Resources Production LESS RD1601		1,512,362	31.50018	\$83,603.37	1,512,362	31.75236	\$151,287	\$151,287	31,75236
						265,406		(\$34,266.46)	251,287				
						1,777.768		\$525,733.54	1,763,649				\$525,459.21

** .36 purchased from Carter for exclusive levee easement
*** Exxon Corp billed to State of CA

EXHIBIT D

Christopher H. Neudeck

From: Julian, David@DWR <David.Julian@water.ca.gov>
Sent: Tuesday, May 28, 2024 7:41 AM
To: Christopher H. Neudeck
Subject: 2023 Emergency Levee Repair Funding for Twitchell

You don't often get email from david.julian@water.ca.gov. [Learn why this is important](#)

CAUTION: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Chris,

After over a year, our branch finally received 2023 emergency levee repair funding. I remember awhile back when we were putting together our request, we had put down about \$300k for Twitchell. Is there still levee repair work on Twitchell that we could use this money for?

Thanks,

David

David Julian, P.E.

Senior Water Resources Engineer, Delta Resiliency Branch
Division of Multi-Benefit Initiatives
California Department of Water Resources
C: (916) 491-0235

David.julian@water.ca.gov
715 P Street, Sacramento, CA 95814
Pronouns: (he, him)

Water.ca.gov



EXHIBIT E

June 3, 2024

Reclamation District No. 1601 - Systemwide Multibenefit Project Funding

Scope of Work

On behalf of Reclamation District No. 1601 (RD 1601), Kjeldsen, Sinnock & Neudeck, Inc. (KSN) has prepared this scope of work (SOW) to provide professional engineering services. The SOW identifies the essential activities aimed at addressing erosion-induced damages to the levee waterside slopes and levee roadways on Twitchell Island.

One erosion site has been identified along the Sevenmile Slough levee for proposed repairs. The site spans approximately from Station 166+50 to Station 179+50. The project's total length is approximately 1,300 lineal feet requiring approximately 1,300 tons of 3-inch minus earthen fill material and 1,500 tons of rock slope protection, consisting of 18-inch minus quarry stone riprap. For a comprehensive understanding of the project scope, a detailed description and photos are provided in **Exhibit A** and a project map is provided in **Exhibit B**.

Scope of Work

Engineering services shall cover a comprehensive range of activities integral to the SOW, spanning from initial development to the final review phase. This encompasses SOW development, surveys, and the preparation of plans and specifications crafted based on engineering design considerations. The culmination of these efforts results in the creation of a final plan set tailored for construction and the subsequent public bidding phase.

Upon transitioning to the construction phase, our services extend to include contract administration, construction inspection, materials and performance testing, and coordination and review during and post-construction. Each of these SOW tasks are described in more detail below.

Task 1 – Project Management and Coordination

This task includes developing, preparing, and submitting the Scope of Work and supporting documentation to the approval of DWR. This task also includes attending routine project related meetings, supporting funding agreement review, providing funding agreement reports, managing project budget, and conducting coordination/outreach with the District and its landowners.

Key Deliverables: Approved Scope of Work, RD 1601 Resolution authorizing both the pursuit of the project and the District President as signatory for project documents, and an executed Project Funding Agreement (PFA).

Task 2 – Site Investigation & Survey

This task includes performing exploratory inspections and surveys of the proposed project site, which will facilitate the development of a conceptual plan for the design of the repairs. Surveys will include both terrestrial and bathymetric RTK surveys. Additionally, a set of preliminary exhibits will be prepared for review by the Department of Water Resources (DWR), inviting their valuable feedback and comments.

Key Deliverables: Conceptual Design Exhibits & Survey Point File Data

Task 3 – Plans and Specifications

Develop a preliminary set of design drawings and a preliminary cost estimate for DWR review and comment. Once comments are collected, a final set of construction documents will be prepared incorporating review comments into the design plans and specifications. A complete set of construction specifications, including contracts, general conditions, special provisions, and technical specifications, will be developed, and combined into a bid package suitable for public bidding. This task also includes coordination with the District and Key Stakeholders throughout the design process.

Key Deliverables: A preliminary set of design drawings with preliminary cost estimate, and a final design bid package with final design drawings and specifications ready for public advertisement.

Task 4 – Permitting

This task involves applying for and obtaining several permits that are required before work is underway. These include a 401 permit from the Regional Water Quality Control Board, a Nationwide 13 404 permit from the U.S. Army Corps of Engineers, and a 1602 permit from the California Department of Fish and Wildlife. The District will comply with all provisions and requirements of the permits during the project.

Key Deliverables: Completed permits from RWQCB, USACE, and CDFW.

Task 5 – Bidding

This task involves the advertisement of the bid package and public bidding administration. This includes site visits, correspondence with plan holders, RFI responses, preparation of addenda, conducting the bid opening, evaluating bids, and preparing a contract award recommendation. The District will comply with all applicable public contract code regulations.

Key Deliverables: Bid addenda, bid summary, and a recommendation to award.

Task 6 – Construction Management

This task comprises the administration of the construction contract. This includes construction inspection, Quality Control/Assurance systems integration, Daily/Weekly/Monthly field reporting as required, progress payments, contract correspondence (submittals, RFIs, field instructions, change orders, etc.), and final completion reporting.

Key Deliverables: Executed construction contract, notice to proceed, weekly construction meeting minutes, monthly project status reporting, completion report, and completion certification by registered civil engineer.

Anticipated Costs

A preliminary cost estimate has been generated identifying costs anticipated for each task. **Table 1** below summarizes anticipated budget amounts for both the design phase and the implementation of construction. The cost estimate will be updated as needed to reflect additional information as it is received. It should be noted that the final project cost is dependent upon actual bid prices received to construct the project. The anticipated engineering and construction management costs are estimated based on costs from similar projects. It is noteworthy that the construction market has experienced notable fluctuations, with changes ranging from up to 20-30% over the past two years.

Table 1 - Preliminary Cost Estimate

Description	Cost
Task 1 – Project Management & Coordination	\$12,835.00
Task 2 – Site Investigation & Survey	\$16,545.00
Task 3 – Plans & Specifications	\$9,240.00
Task 4 – Permitting	\$85,000.00
Task 5 – Bidding	\$3,240.00
Task 6 – Construction Management	\$16,020.00
Sub Total of all Tasks:	\$142,880.00
Estimated Construction Costs	
Mobilization/Demobilization	\$ 7,000.00
Traffic Control	\$ 6,000.00
Levee Seal Fill Material	\$ 52,000.00
Rock Slope Protection	\$ 90,000.00
Sub Total Estimated Construction Costs:	\$155,000.00
Grand Total	\$ 297,880.00

Deliverables

The anticipated deliverables include the following documents:

- Task 1 – Project Management & Coordination
 - Produce a completed and approved Scope of Work
 - Executed Resolution by the RD 1601 Board of Trustees
 - Executed Project Funding Agreement
- Task 2 – Site Investigation & Survey
 - Conceptual design exhibits
 - Survey point file data
- Task 3 – Plans & Specifications
 - A preliminary set of design drawings with a preliminary cost estimate
 - A final design bid package ready for advertisement
- Task 4 – Permitting
 - RWQCB Permit
 - USACE Permit
 - CDFW Permit
- Task 5 – Bidding
 - Bid Addenda
 - Bid Summary
 - Recommendation to award
- Task 6 – Construction Management
 - Construction contract
 - Notice to proceed
 - Weekly construction meeting minutes
 - Monthly project status reporting
 - Completion report

- o Completion certification by registered civil engineer

Project Contacts

In addition to the support staff for the District and the program managers for DWR, it is essential to include primary District and engineering contacts in all formal correspondence throughout the administration of this PFA. The key project personnel are listed below:

Reclamation District 1601

President Mr. Barry Sgarrella (barry@solagra.com)

Superintendent Mr. Rick Carter Jr. (rd1601@frontiernet.net)

KSN Inc

District Engineer Mr. Christopher H. Neudeck (cneudeck@ksninc.com)

Project Manager Mr. Sean M. Pritchard (spritchard@ksninc.com)

Exhibits

Exhibits accompanying this SOW are listed below:

- A. Project Description and Photos
- B. Project Map

Exhibit A – Project Description and Photos

Project Description

Reclamation District No. 1601, Sevenmile Slough requires emergency erosion and slope stability repairs along the District's Sevenmile Slough levee from Stations 166+50 to 179+50. The project's total length is approximately 1,300 lineal feet requiring approximately 1,300 tons of 3-inch minus earthen fill material and 1,500 tons of rock slope protection, consisting of 18-inch minus quarry stone riprap. This emergency repair work was prompted by the flood events of 2023 and has progressively deteriorated to the point of threatening Twitchell Island Road. This road is one of the two access and egress routes for the island and provides the region with an alternate connection between State Highway 12 and Highway 160. An adjacent section of Sevenmile Slough levee suffered significant damage that required immediate repairs to be made during the flood event under emergency action in a desperate bid to save the failing Twitchell Island Road. This previous slope failure serves as an indicator as to the potential extent of damage if this next section of levee is not repaired. These project funds will be efficiently applied using standard templates and designs to streamline engineering and bid preparation with limited overhead.

Table 1 - Preliminary Cost Estimate

Description	Cost
Engineering, Bidding, and Project Management	\$ 142,880.00
Construction	\$ 155,000.00
Grand Total	\$ 297,880.00

This emergency work is aimed at repairing this additional section of levee in continuation of the two previously repaired locations mentioned above. The following photos show the current conditions of the section of levee needing repairs as well as the pre-construction photos of the previously repaired locations. The first two photos (photos 1 & 2 below) show the current conditions of the site. These photos depict similar conditions to those present immediately prior to the more severe slope failures that made the previous two repair sites necessary under emergency action. Due to the season vegetative growth, it is difficult to make out the vertical to near vertical erosion of the levee slopes, and substantial portions of slope slip that have occurred in this area, however the evidence of those failure are made clear by the lack of the two-foot roadway shoulder, the ripping and tearing of the asphalt, and the pieces of the roadway that have fallen away from the rest of the asphalt roadway. The following two photos (photos 3 & 4 below) show the two emergency repaired sites prior to the slope repairs that became necessary.

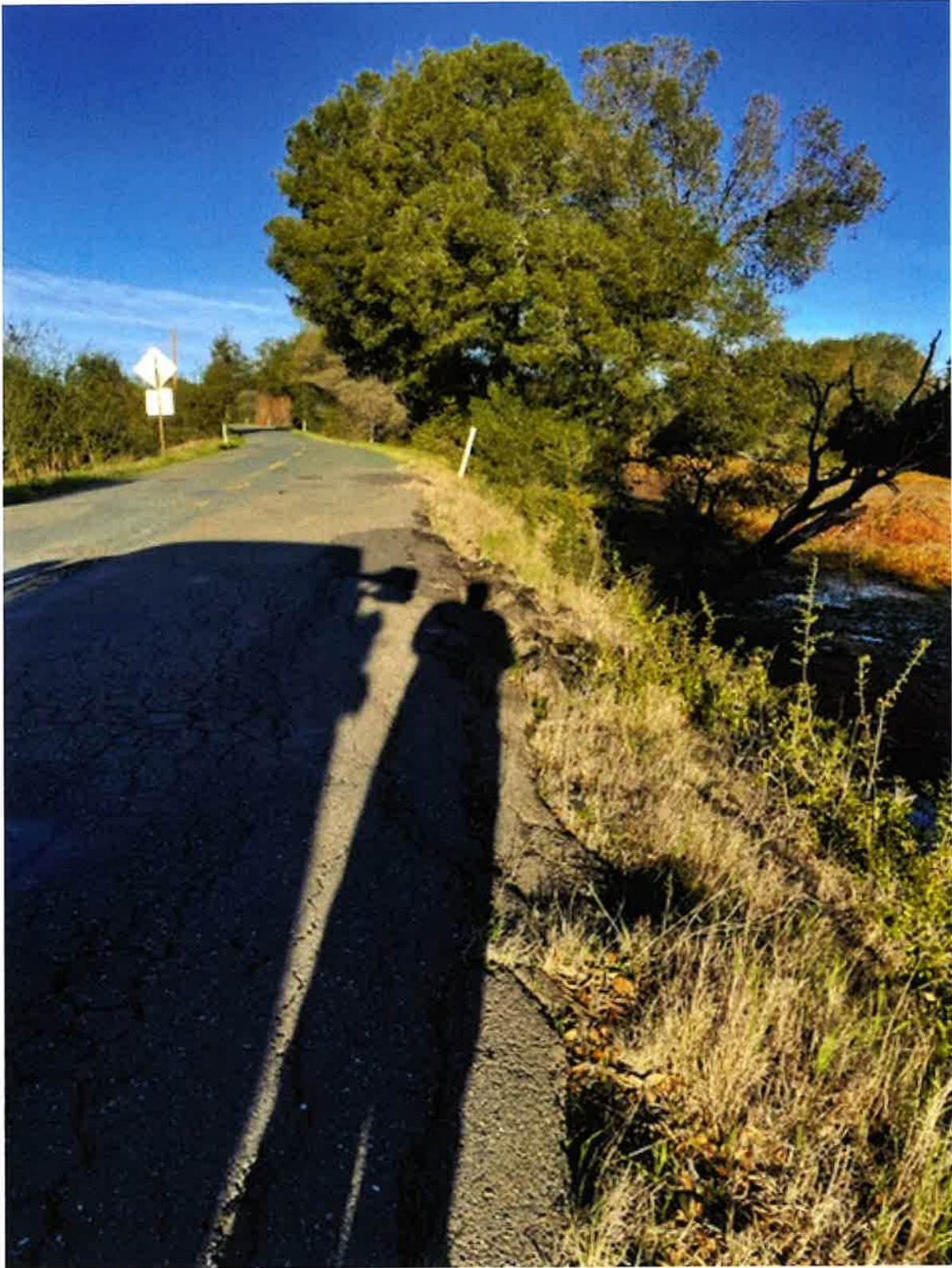


PHOTO 1: EXISTING DAMAGE SITE CONDITIONS

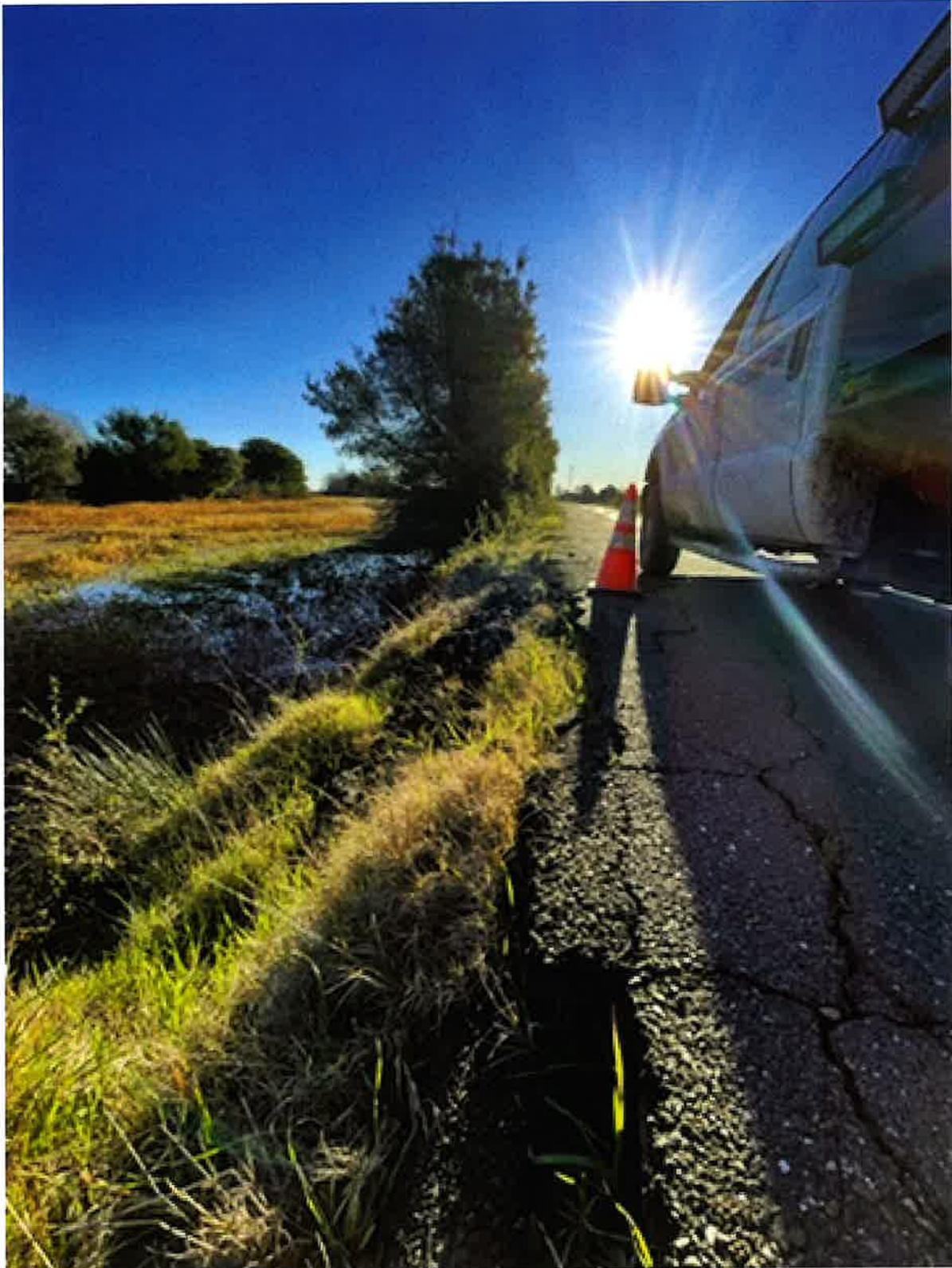


PHOTO 2: EXISTING DAMAGE SITE CONDITIONS



PHOTO 3: PREVIOUSLY REPAIRED SITE PRE-REPAIR CONDITION



PHOTO 4: PREVIOUSLY REPAIRED SITE PRE-REPAIR CONDITION

Exhibit B – Project Map



NOTE:
EROSION REPAIR WILL BE
CONTINUOUS ALONG THE
REPAIR AREA

EROSION REPAIR
AREA

 KJELSDEN SINNOCK NEUDECK <small>CIVIL ENGINEERS & LAND SURVEYORS</small> www.ksjinc.com	711 K. Buckley Avenue SACRAMENTO, CA 95803 209-944-0208	1550 Harbor Blvd., Suite 212 West Sacramento, CA 95691 916-403-5000	RECLAMATION DISTRICT 1601 TWITCHELL ISLAND PROJECT MAP	DRAWING SCALE 1" = 150' ORIGINAL DRAWING SCALE 0 50' 1"	EXHIBIT NO. B
				PAGE NO. 1	

EXHIBIT F

CVFPB June Meeting

Requests

1. Approval of FY2022-23, Table A
2. Approval of FY2023-24 Amended Funding Plan, Table 2
3. Approval of FY2024-25 Funding Plan, Table 2



Program Funding FY 2022-23

(Table A)

CVFPB Approved Funding: \$13.5 million

Final Claims: 71 received

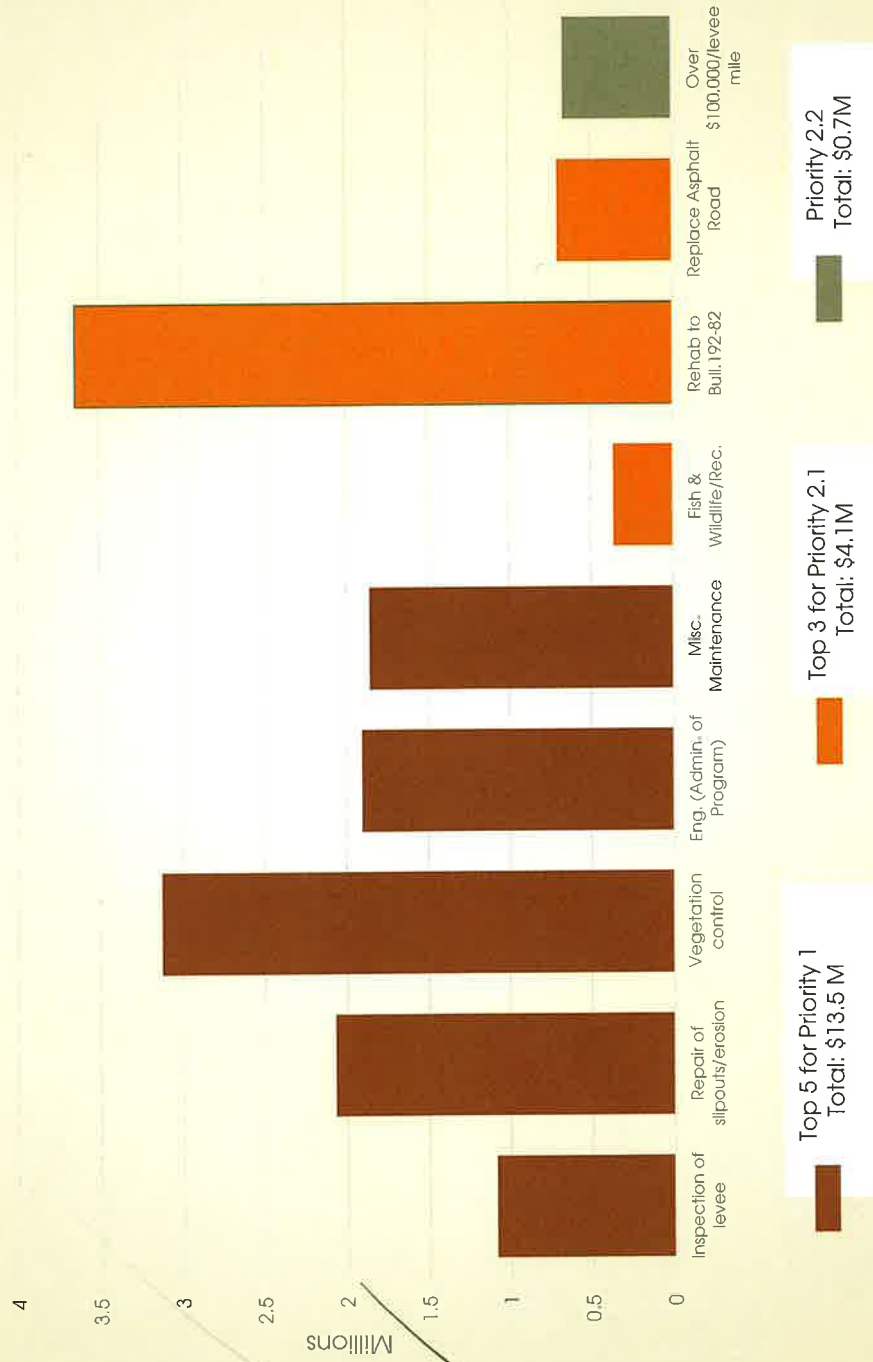
Estimated Eligible Expenses: \$18.3 million

Estimated State Cost Share: **\$13.1 million**

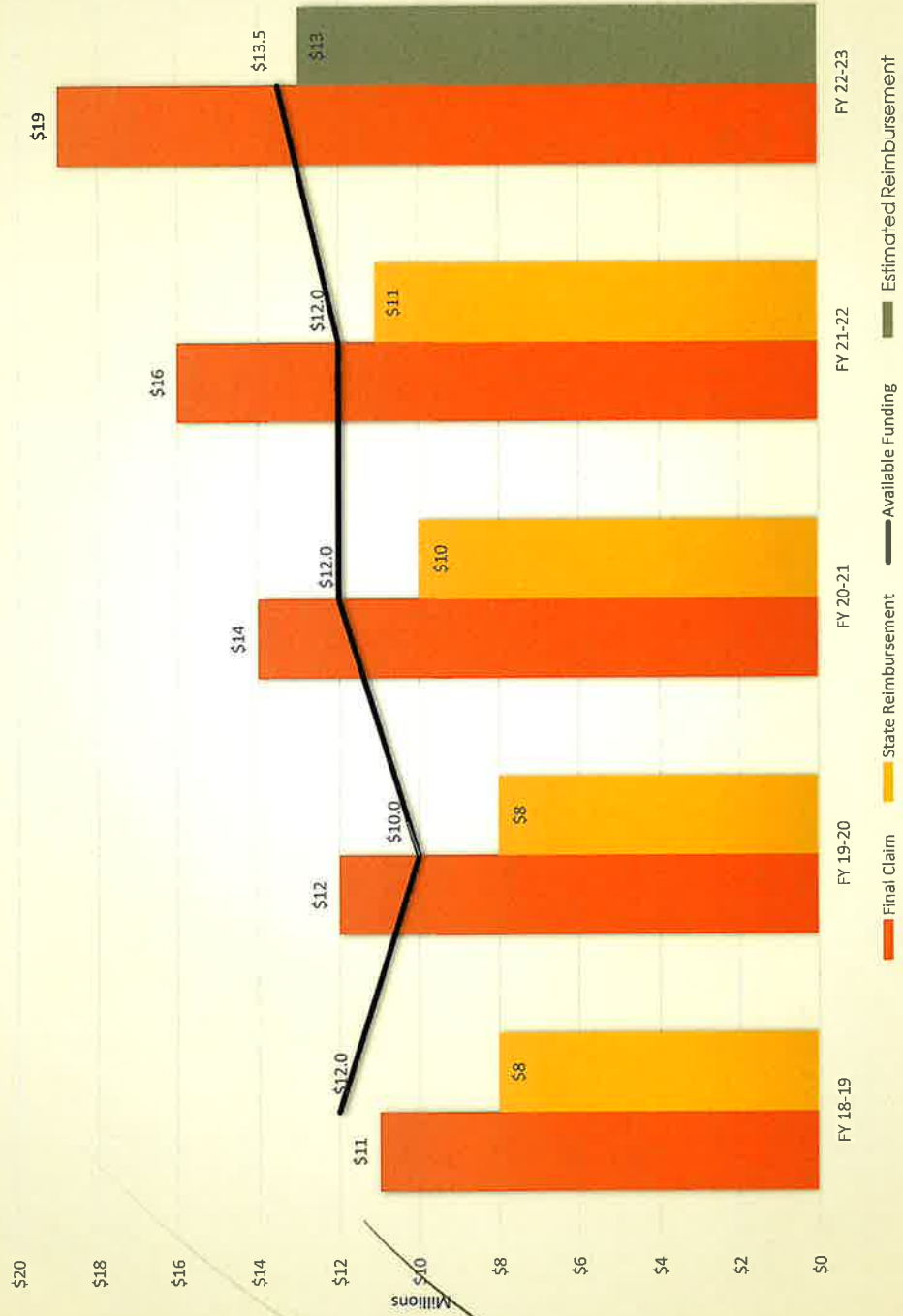
Estimated Local Cost Share: \$5.2 million



Priority 1, Priority 2.1 & Priority 2.2 (FY 22-23)



Delta Levees Maintenance Subventions



Program Funding FY 2023-2024

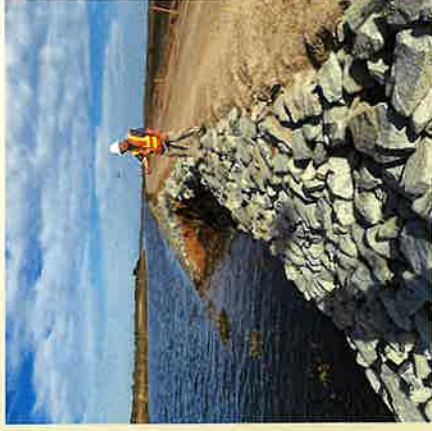
Additional Funding Request for Board Approval

CVFPB Approved Funding: \$13 million

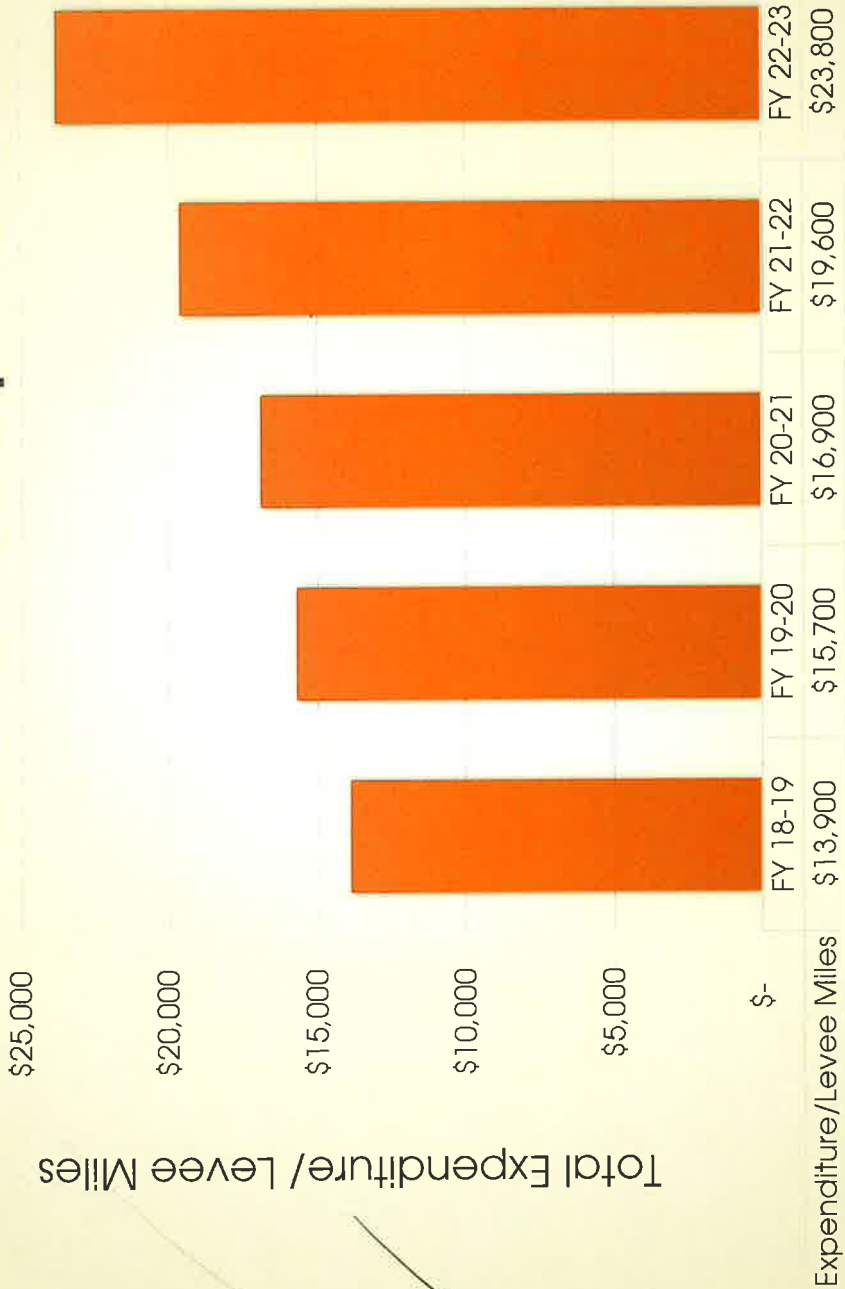
Applications: 72 received

Additional Funding Request: **\$ 1.0 million**

Funding Concerns: Economic issues



Total Levee Expenditure



Fiscal Year (FY)

Program Funding FY 2024-2025

Proposed Funding for Board Approval

Fiscal Year	Proposed funding	Applications received	Application Funding Request	Funding Source
2024-2025	\$14 million	73	\$59 million	Prop 1
Final claims due November 1, 2025				

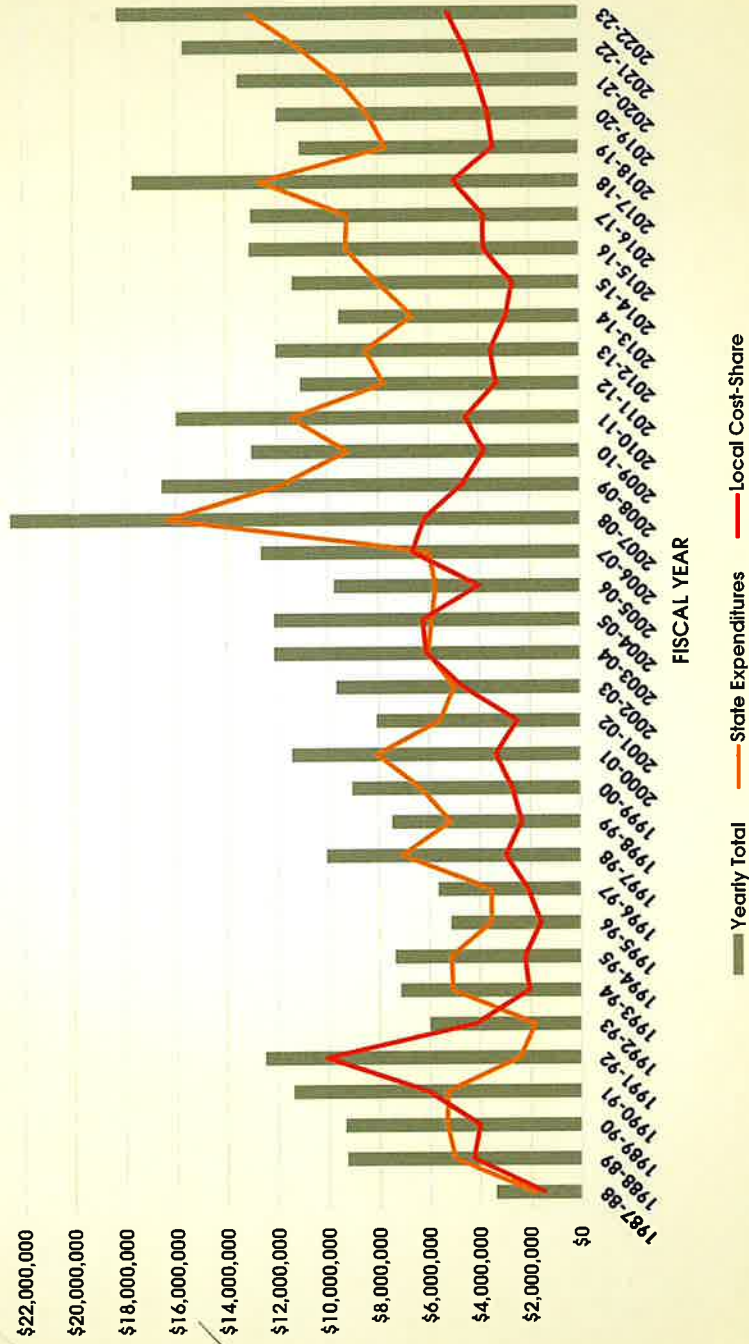


Recent Program Funding

Fiscal Year	CVFPB Authorization	State Reimbursement
2018-19	\$12,000,000	\$7,800,000
2019-20	\$10,000,000	\$8,400,000
2020-21	\$12,000,000	\$9,500,000
2021-22	\$12,000,000	\$11,100,000
2022-23	\$13,500,000	\$13,100,000 estimated
2023-24	\$13,000,000 amend to \$14,000,000	
2024-25	\$14,000,000	

Supporting the Delta

Delta Levees Subventions Program
Total Yearly Expenditures



Subventions Program

Funding Priorities

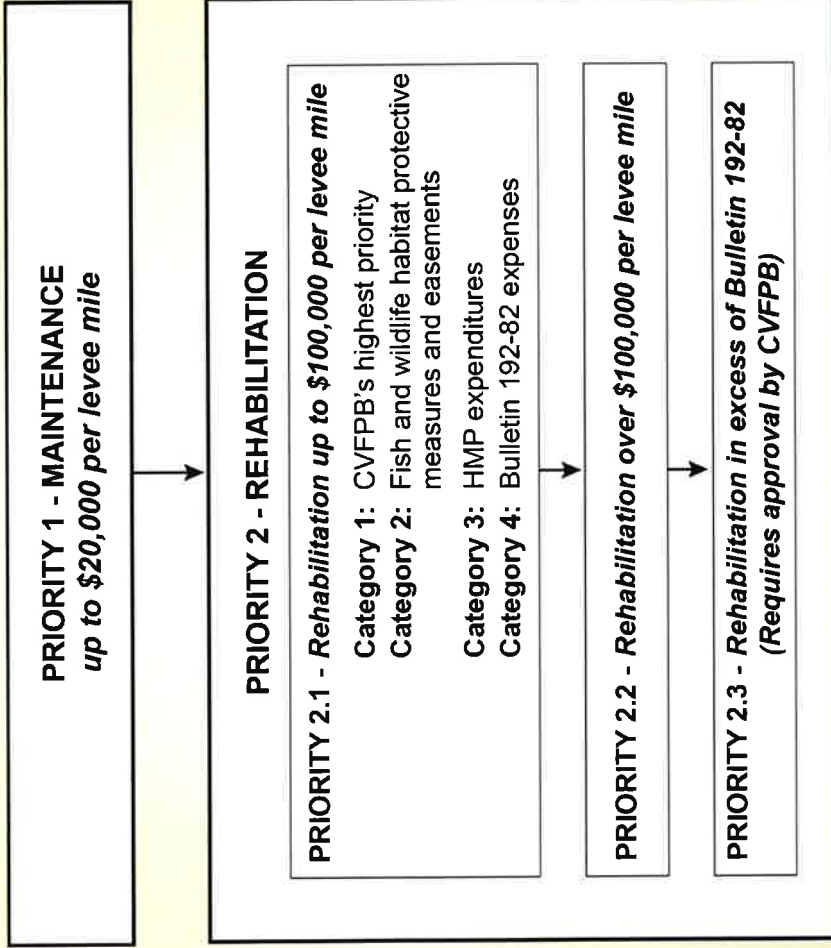
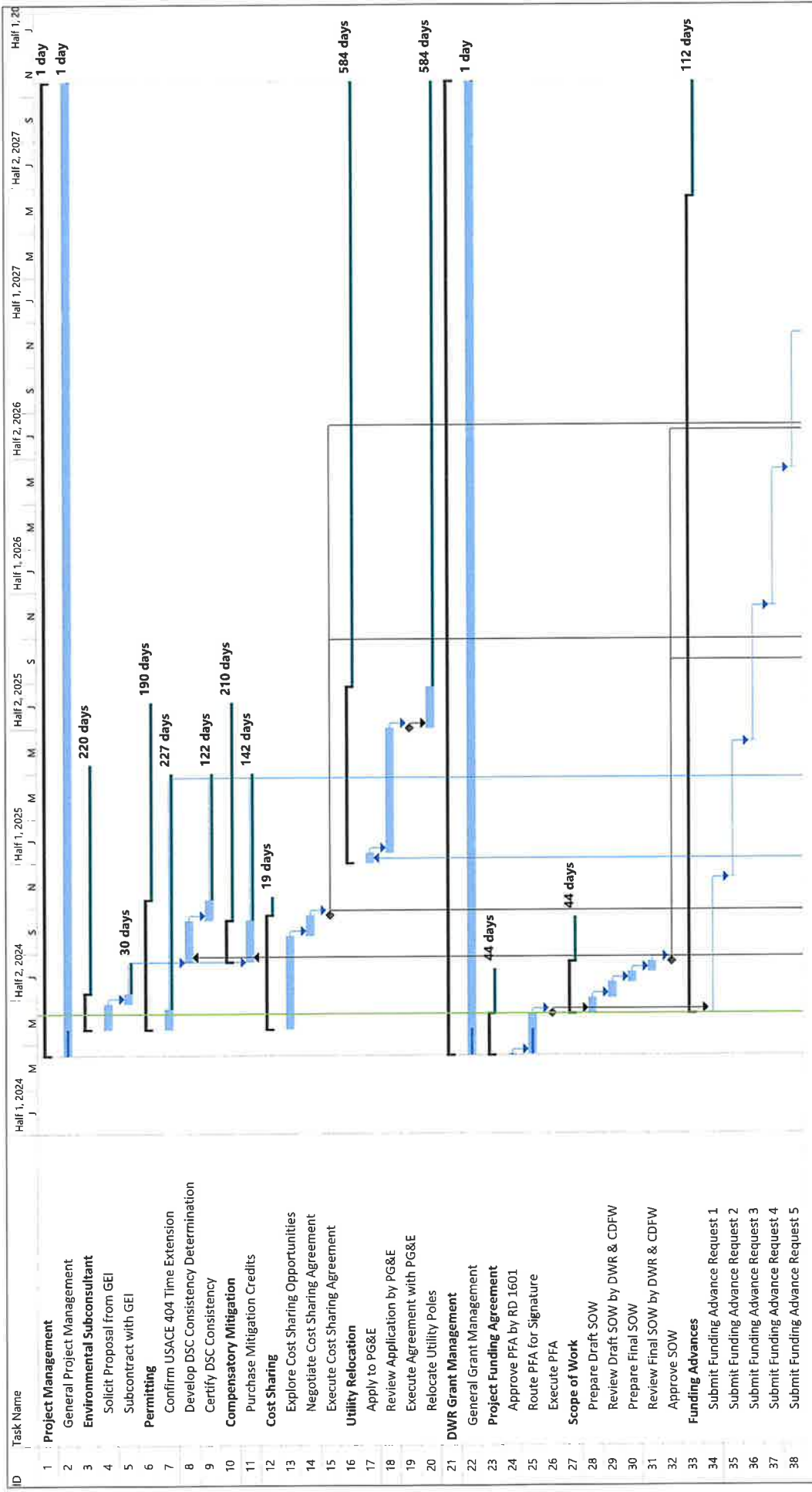


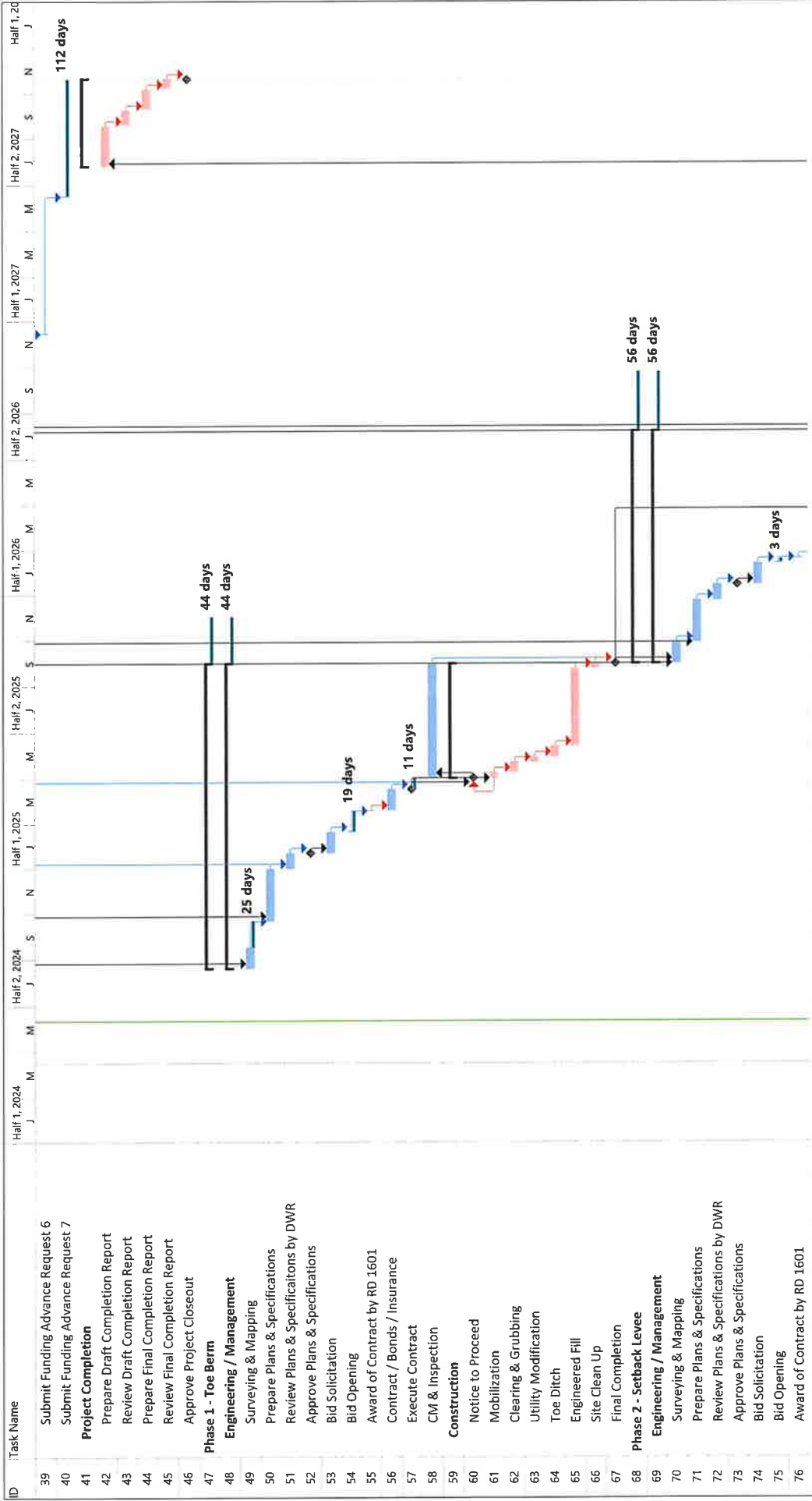
EXHIBIT G



ID	Task Name	Duration
1	Project Management	1 day
2	General Project Management	1 day
3	Environmental Subconsultant	220 days
4	Solicit Proposal from GEI	30 days
5	Subcontract with GEI	190 days
6	Permitting	227 days
7	Confirm USACE 404 Time Extension	122 days
8	Develop DSC Consistency Determination	210 days
9	Certify DSC Consistency	142 days
10	Compensatory Mitigation	19 days
11	Purchase Mitigation Credits	584 days
12	Cost Sharing	44 days
13	Explore Cost Sharing Opportunities	44 days
14	Negotiate Cost Sharing Agreement	112 days
15	Execute Cost Sharing Agreement	1 day
16	Utility Relocation	584 days
17	Apply to PG&E	1 day
18	Review Application by PG&E	1 day
19	Execute Agreement with PG&E	1 day
20	Relocate Utility Poles	1 day
21	DWR Grant Management	1 day
22	General Grant Management	1 day
23	Project Funding Agreement	1 day
24	Approve PFA by RD 1601	1 day
25	Route PFA for Signature	1 day
26	Execute PFA	1 day
27	Scope of Work	1 day
28	Prepare Draft SOW	1 day
29	Review Draft SOW by DWR & CDFW	1 day
30	Prepare Final SOW	1 day
31	Review Final SOW by DWR & CDFW	1 day
32	Approve SOW	1 day
33	Funding Advances	1 day
34	Submit Funding Advance Request 1	1 day
35	Submit Funding Advance Request 2	1 day
36	Submit Funding Advance Request 3	1 day
37	Submit Funding Advance Request 4	1 day
38	Submit Funding Advance Request 5	1 day

Legend:

- Task Types:**
 - External Tasks (Light Blue)
 - Manual Summary Rollup (Dark Blue)
 - Manual Summary (Medium Blue)
 - Start-only (Light Blue)
 - Finish-only (Light Blue)
 - Duration-only (Light Blue)
 - External Milestone (Light Blue)
 - External Milestone (Dark Blue)
 - Deadline (Light Blue)
 - Progress (Light Blue)
- Task States:**
 - Rolled Up Critical Split (Light Blue)
 - Inactive Task (Light Blue)
 - Inactive Milestone (Light Blue)
 - Inactive Summary (Light Blue)
 - Manual Task (Light Blue)
- Task Attributes:**
 - Slack (Light Blue)
 - Slippage (Light Blue)
 - Summary (Light Blue)
 - Project Summary (Light Blue)
 - Rolled Up Critical (Light Blue)



Task Name	Start	End	Duration	Task Type
Submit Funding Advance Request 6	2024-01-01	2024-01-01	0 days	Milestone
Submit Funding Advance Request 7	2024-01-01	2024-01-01	0 days	Milestone
Project Completion	2024-01-01	2024-01-01	0 days	Milestone
Prepare Draft Completion Report	2024-01-01	2024-01-01	0 days	Task
Review Draft Completion Report	2024-01-01	2024-01-01	0 days	Task
Prepare Final Completion Report	2024-01-01	2024-01-01	0 days	Task
Review Final Completion Report	2024-01-01	2024-01-01	0 days	Task
Approve Project Closeout	2024-01-01	2024-01-01	0 days	Task
Phase 1 - Toe Berm Engineering / Management	2024-01-01	2024-01-01	0 days	Task
Surveying & Mapping	2024-01-01	2024-01-01	0 days	Task
Prepare Plans & Specifications	2024-01-01	2024-01-01	0 days	Task
Review Plans & Specifications by DWR	2024-01-01	2024-01-01	0 days	Task
Approve Plans & Specifications	2024-01-01	2024-01-01	0 days	Task
Bid Solicitation	2024-01-01	2024-01-01	0 days	Task
Bid Opening	2024-01-01	2024-01-01	0 days	Task
Award of Contract by RD 1601	2024-01-01	2024-01-01	0 days	Milestone
Construction	2024-01-01	2024-01-01	0 days	Task
Notice to Proceed	2024-01-01	2024-01-01	0 days	Task
Mobilization	2024-01-01	2024-01-01	0 days	Task
Clearing & Grubbing	2024-01-01	2024-01-01	0 days	Task
Utility Modification	2024-01-01	2024-01-01	0 days	Task
Toe Ditch	2024-01-01	2024-01-01	0 days	Task
Engineered Fill	2024-01-01	2024-01-01	0 days	Task
Site Clean Up	2024-01-01	2024-01-01	0 days	Task
Final Completion	2024-01-01	2024-01-01	0 days	Task
Phase 2 - Setback Levee Engineering / Management	2024-01-01	2024-01-01	0 days	Task
Surveying & Mapping	2024-01-01	2024-01-01	0 days	Task
Prepare Plans & Specifications	2024-01-01	2024-01-01	0 days	Task
Review Plans & Specifications by DWR	2024-01-01	2024-01-01	0 days	Task
Approve Plans & Specifications	2024-01-01	2024-01-01	0 days	Task
Bid Solicitation	2024-01-01	2024-01-01	0 days	Task
Bid Opening	2024-01-01	2024-01-01	0 days	Task
Award of Contract by RD 1601	2024-01-01	2024-01-01	0 days	Milestone

Legend:

- Task Types:**
 - External Tasks (Light Blue)
 - Manual Summary Rollup (Dark Blue)
 - Manual Summary (Medium Blue)
 - Start-only (Light Blue)
 - Finish-only (Dark Blue)
 - Duration-only (Light Blue)
 - External Milestone (Light Blue)
 - Deadline (Dark Blue)
 - Progress (Medium Blue)
- Task States:**
 - Rolled Up Critical Split (Red)
 - Inactive Task (Green)
 - Inactive Milestone (Green)
 - Inactive Summary (Green)
 - Manual Task (Red)
- Summary Types:**
 - Stack (Red)
 - Slippage (Blue)
 - Summary (Blue)
 - Project Summary (Blue)
 - Rolled Up Critical (Red)
- Other:**
 - Critical (Red)
 - Critical Split (Red)
 - Task (Blue)
 - Split (Blue)
 - Milestone (Blue)



Task Name	Start	End	Duration	Task Type
Contract / Bonds / Insurance	2024-01-01	2024-01-01	0 days	External Task
Execute Contract	2024-01-01	2024-01-01	0 days	External Task
CM & Inspection	2024-01-01	2024-01-01	0 days	External Task
Construction	2024-01-01	2024-01-31	32 days	Manual Summary Rollup
Notice to Proceed	2024-01-01	2024-01-01	0 days	Manual Summary
Mobilization	2024-01-01	2024-01-01	0 days	Manual Summary
Clearing & Grubbing	2024-01-01	2024-01-01	0 days	Manual Summary
Utility Modification	2024-01-01	2024-01-01	0 days	Manual Summary
Engineered Fill	2024-01-01	2024-01-01	0 days	Manual Summary
All-Weather Road	2024-01-01	2024-01-01	0 days	Manual Summary
Site Clean Up	2024-01-01	2024-01-01	0 days	Manual Summary
Final Completion	2024-01-01	2024-01-01	0 days	Manual Summary
Phase 3 - Habitat	2024-01-01	2024-01-01	0 days	Manual Summary
Engineering / Management	2024-01-01	2024-01-01	0 days	Manual Summary
Surveying & Mapping	2024-01-01	2024-01-01	0 days	Manual Summary
Prepare Plans & Specifications	2024-01-01	2024-01-01	0 days	Manual Summary
Prepare Planting Plans	2024-01-01	2024-01-01	0 days	Manual Summary
Review Plans & Specifications by DWR	2024-01-01	2024-01-01	0 days	Manual Summary
Approve Plans & Specifications	2024-01-01	2024-01-01	0 days	Manual Summary
Bid Solicitation	2024-01-01	2024-01-01	0 days	Manual Summary
Bid Opening	2024-01-01	2024-01-01	0 days	Manual Summary
Award of Contract by RD 1601	2024-01-01	2024-01-01	0 days	Manual Summary
Contract / Bonds / Insurance	2024-01-01	2024-01-01	0 days	Manual Summary
Execute Contract	2024-01-01	2024-01-01	0 days	Manual Summary
CM & Inspection	2024-01-01	2024-01-01	0 days	Manual Summary
Construction	2024-01-01	2024-01-01	0 days	Manual Summary
Notice to Proceed	2024-01-01	2024-01-01	0 days	Manual Summary
Mobilization	2024-01-01	2024-01-01	0 days	Manual Summary
Earthwork & RSP	2024-01-01	2024-01-01	0 days	Manual Summary
Planting	2024-01-01	2024-01-01	0 days	Manual Summary
Site Clean Up	2024-01-01	2024-01-01	0 days	Manual Summary
Final Completion	2024-01-01	2024-01-01	0 days	Manual Summary

Task Name	Start	End	Duration	Task Type
Slack	2024-01-01	2024-01-01	0 days	Manual Summary
Slippage	2024-01-01	2024-01-01	0 days	Manual Summary
Summary	2024-01-01	2024-01-01	0 days	Manual Summary
Project Summary	2024-01-01	2024-01-01	0 days	Manual Summary
Rolled Up Critical	2024-01-01	2024-01-01	0 days	Manual Summary
Critical	2024-01-01	2024-01-01	0 days	Manual Summary
Critical Split	2024-01-01	2024-01-01	0 days	Manual Summary
Task	2024-01-01	2024-01-01	0 days	Manual Summary
Split	2024-01-01	2024-01-01	0 days	Manual Summary
Milestone	2024-01-01	2024-01-01	0 days	Manual Summary

EXHIBIT H

Christopher H. Neudeck

From: Jeff Mueller
Sent: Tuesday, June 11, 2024 6:47 AM
To: Christopher H. Neudeck
Subject: RE: I am preparing Twitchell's Engr'ing report
Attachments: Twitchell Island Reclaim_Dist_Project.VC0-Report.pdf; Twitchell Island Reclaim_Dist_Project.VC2-Report.pdf; Twitchell Island Reclaim_Dist_Project.VC3-Report.pdf

CEQA is complete. Civil and Structural plans are complete, and Cecil & Cecil are currently working on the electrical design. Attached are three reports evaluating alternate panel tilt angles in an energy optimization study.

- Base 7deg tilt - 4.18 kwh/kwp/day - 638 MWh/yr
- 35deg tilt - 4.35 kwh/kwp/day - 664 MWh/yr (4% greater production from base)
- 35deg tilt, larger spacing - 4.5 kwh/kwp/day - 687 MWh/yr (7% greater production from base)

We are waiting to hear back from the District on whether they would like to adjust the panel tilt angle.

KSN is currently working on the Sacramento County Building Permit application and we should have it submitted this week.

We are on track with the District's proposed schedule:

Building Permits	June-July
C&C Electrical Drawings complete	July 15
RD-1601 Board Approves Bid Package	July 16 (Regular July Meeting)
Project Bids	July 19
RD-1601 Board Approves Successful Bidder	August 9 (Special Meeting)
Project Award	August 12
Pile Driver sub award	August 15 (not required)
Steel Fabrication supplier award	August 15 (not required unless we separately bid a steel procurement package)
Pile Driving complete	September 15
Structural Steel arrives on site	October 15
Structural Steel & solar erection	October 15 – November 15
Solar power transmission lines to POI	December 1
Wait for PG&E to interconnect	

EXHIBIT I

Christopher H. Neudeck

From: Jeff Mueller
Sent: Tuesday, June 11, 2024 6:16 AM
To: barry@solagra.com
Cc: Christopher H. Neudeck
Subject: FW: Twitchell Solar - Energy Modelling and tilt considerations
Attachments: Twitchell Island Reclaim_Dist_Project.VC0-Report.pdf; Twitchell Island Reclaim_Dist_Project.VC2-Report.pdf; Twitchell Island Reclaim_Dist_Project.VC3-Report.pdf

Barry,

Please find below analysis and attached reports from Cecil & Cecil, evaluating alternative tilt angles for the solar panels on our Twitchell project. The analysis compares the current 7-degree tilt with two additional scenarios: a 35-degree tilt and a 35-degree tilt with wider spacing.

The findings suggest that adjusting the tilt angle could lead to better energy production and improved dust prevention, potentially increasing annual production by up to 7%. The attached reports provide more detailed modeling results for your review and consideration.

Please evaluate these findings and share your thoughts. The Cecil & Cecil team is available to discuss this in more detail if needed.

Thanks,
Jeff

From: Coreen Cecil <ccecil@cecilinc.com>
Sent: Monday, June 10, 2024 1:47 PM
To: Jeff Mueller <jmueller@ksninc.com>
Subject: Twitchell Solar - Energy Modelling and tilt considerations

CAUTION: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Happy Monday Jeff,

We want to confirm that the very low tilt of the panels is final.

I've attached three quick modelling reports from our engineers showing the expected annual production with the as designed 7deg tilt, 35deg tilt and 35deg tilt with wider spacing.

The normalized production for the three scenarios are:

base - 4.18 kwh/kwp/day - 638 MWh/yr
35deg tilt - 4.35 kwh/kwp/day - 664 MWh/yr (4% greater production from base)
35deg tilt, larger spacing - 4.5 kwh/kwp/day - 687 MWh/yr (7% greater production from base)

We have kept the soiling losses the same for all three options, however, the soiling losses are likely to be much higher for the base scenario. The small tilt will likely accumulate more dust and general debris, and will require more rain to clean naturally. The 35deg tilt provides better "self-cleaning" along with the higher production. This means that the percent difference noted above are likely conservative, and the actual difference is greater in real life.

These changes shouldn't affect the electrical design.

Please confirm the client is firm in the decision of installing a 7 degree tilt on the panels.

Thank you,
Coreen Cecil
President

Cecil & Cecil Enterprises, Inc.
3741 Business Drive, Suite 100
Sacramento, CA 95820
916-469-3799 O
916-519-7466 M
www.cecilinc.com