

**RECLAMATION DISTRICT NO. 1601
TWITCHELL ISLAND
BOARD OF TRUSTEES MEETING
TUESDAY, MAY 21, 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. DELTA LEVEE SUBVENTIONS PROGRAM AB 360

- A. Review road repairs following core trenching in the vicinity of Levee Station 317+00 in the Owl harbor Marina.

EXHIBIT D: Photos from KSN Inc Daily Field reports.

III. PROJECT FUNDING AGREEMENT TW – 21 - 1.2 TIMES PROJECT

- A. Review the general status of the project process.

IV. DISTRICT EXCAVATOR RECOVERY WITH INSURANCE COMPANY

- A. Review status of the Excavator extraction efforts.

V. DISTRICT PUMP STATION SOLAR ARRAY

- A. Review status of Solar Array Plans.

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
 5/11/2024

		(Max Assessment Factor 47.6382)				Proposed New Assessment Factor (MAX)				Prior Assessment Factor (MAX)									
		\$700,000 (100% of MAX ASSESSMENT)				Proposed New Assessment (2024-25)				Prior Assessment (2023-24)									
A		B		C		D		E		F		G		H		I		J	
Tract No.	Description Sacramento County Assessor Parcel No.	Acres	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							
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	Karlie & 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	Manjorie 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	Manjorie 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	\$8,096.65							
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							
19a	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	157-0130-015	20.000		20.000	Skin 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	Ricky & Linda Carter	200	2,104	39.37523	\$828.45	2,104	39.69045	\$835.09							
25	** 157-0130-023	0.360		0.360	RD No 1601	200	72	39.37523	\$28.35	72	39.69045	\$28.58							
26	157-0130-025	4.040		4.040	RD No 1601	200	808	39.37523	\$318.15	808	39.69045	\$320.70							
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		(\$43,175.98)							
							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

\$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

		(Max Assessment Factor 47.6382)				(Proposed New Assessment Factor (MAX) Prior Assessment Factor (2023-24))				(Max Assessment Factor 47.6382)				(Proposed New Assessment Factor (MAX) Prior Assessment Factor (2023-24))					
		\$560,000 (80% of MAX ASSESSMENT)				\$560,000 (80% of MAX ASSESSMENT)				\$560,000 (80% of MAX ASSESSMENT)				\$560,000 (80% of MAX ASSESSMENT)					
A		B		C		D		E		F		G		H		I		J	
Tract No.	Description Sacramento County Assessor Parcel No.	Acres	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 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	31,50018	\$26,618.22	84,502	31,75236	\$26,831.32	84,502	31,75236	\$26,831.32				
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	23,400	31,75236	\$7,430.05				
3	157-0130-011	0.951		0.951	Karlie & Noeme Silva	400	380	31,50018	\$119.83	380	31,75236	\$120.79	380	31,75236	\$120.79				
4	157-0130-015	0.566		0.566	State of California	200	113	31,50018	\$35.66	113	31,75236	\$35.94	113	31,75236	\$35.94				
5	157-0130-019	0.410		0.410	Marjorie H. Sgarrella	400	164	31,50018	\$51.66	164	31,75236	\$52.07	164	31,75236	\$52.07				
6	157-0130-016	0.741		0.741	State of California	200	148	31,50018	\$46.68	148	31,75236	\$47.06	148	31,75236	\$47.06				
7	157-0130-018	1.070		1.070	Marjorie H. Sgarrella	400	428	31,50018	\$134.82	428	31,75236	\$135.90	428	31,75236	\$135.90				
8	157-0130-014	0.010		0.010	County of Sacramento	0	0	31,50018	\$0.00	0	31,75236	\$0.00	0	31,75236	\$0.00				
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	20,490	31,75236	\$6,506.06				
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	40,110	31,75236	\$12,735.87				
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	60,592	31,75236	\$19,239.39				
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	9,550	31,75236	\$3,032.35				
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	8,000	31,75236	\$2,540.19				
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	60,170	31,75236	\$19,105.40				
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	71,596	31,75236	\$22,733.42				
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	20,400	31,75236	\$6,477.48				
17	157-0140-004	1,000		1,000	State of California	200	200	31,50018	\$63.00	200	31,75236	\$63.50	200	31,75236	\$63.50				
18a	157-0140-020	578.470	209,400	369,070	State of California	200	73,814	31,50018	\$23,251.55	73,814	31,75236	\$23,437.68	73,814	31,75236	\$23,437.68				
18b	157-0140-020	181,500	140,800	209,400	State of California	1200	251,280	31,50018	\$79,153.67	251,280	31,75236	\$79,787.28	251,280	31,75236	\$79,787.28				
19a	157-0140-011	186,000	121,100	140,800	State of California	200	8,140	31,50018	\$2,584.11	8,140	31,75236	\$2,584.64	8,140	31,75236	\$2,584.64				
19b	157-0140-011	186,000	121,100	140,800	State of California	200	168,960	31,50018	\$53,222.70	168,960	31,75236	\$53,648.79	168,960	31,75236	\$53,648.79				
20a	157-0140-009	181,500	111,300	121,100	State of California	200	12,980	31,50018	\$4,088.72	12,980	31,75236	\$4,121.46	12,980	31,75236	\$4,121.46				
20b	157-0140-009	181,500	111,300	121,100	State of California	200	145,320	31,50018	\$45,776.06	145,320	31,75236	\$46,142.53	145,320	31,75236	\$46,142.53				
21a	157-0140-010	20,000	0.870	70,200	State of California	200	14,040	31,50018	\$4,422.63	14,040	31,75236	\$4,458.03	14,040	31,75236	\$4,458.03				
21b	157-0140-010	20,000	0.870	70,200	State of California	200	133,560	31,50018	\$42,071.64	133,560	31,75236	\$42,408.45	133,560	31,75236	\$42,408.45				
22	157-0140-015	20,000	0.870	70,200	Stkn Marina Properties LLC	1200	24,000	31,50018	\$7,560.04	24,000	31,75236	\$7,620.57	24,000	31,75236	\$7,620.57				
23	157-0130-003	0.870	0.870	0.870	State of California (1/2)	200	174	31,50018	\$54.81	174	31,75236	\$55.25	174	31,75236	\$55.25				
24	157-0130-023	10.520	0.360	10.520	State of California (1/2)	200	174	31,50018	\$54.81	174	31,75236	\$55.25	174	31,75236	\$55.25				
25	157-0130-023	10.520	0.360	10.520	Ricky & Linda Carter	200	2,104	31,50018	\$662.76	2,104	31,75236	\$668.07	2,104	31,75236	\$668.07				
26	157-0130-025	4.040	0.360	4.040	RD No 1601	200	72	31,50018	\$22.68	72	31,75236	\$22.86	72	31,75236	\$22.86				
27a	157-0140-021	471.960	182,300	289,660	RD No 1601	200	808	31,50018	\$254.52	808	31,75236	\$256.56	808	31,75236	\$256.56				
27b	157-0140-021	471.960	182,300	289,660	State of California	200	57,932	31,50018	\$18,248.68	57,932	31,75236	\$18,394.78	57,932	31,75236	\$18,394.78				
				182,300	State of California	1200	218,760	31,50018	\$68,909.79	218,760	31,75236	\$69,461.46	218,760	31,75236	\$69,461.46				
		3,634.887	764,900	3,634.887	California Resources Production LESS RD1601		1,512,362	31,50018	\$83,603.37	1,512,362	31,75236	\$83,603.37	1,512,362	31,75236	\$83,603.37				
							265,406		(\$34,266.46)	265,406		(\$34,266.46)	265,406		(\$34,266.46)				
							1,777,768		\$525,733.54	1,777,768		\$525,733.54	1,777,768		\$525,733.54				

** .36 purchased from Carter for exclusive levee easement
 *** Exxon Corp billed to State of CA
 H:\Twitchell Island - RD 1601 Assessments\2024 Assessments\Folder\RD1601 2024 asmtcomp1_\$700K_revised acreage

Exhibit C

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
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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

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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

Exhibit D











































