

**ISTAP Phase 2 Report:
Supplementary Appendix**
Appendices D, E and F

Authored by the Independent Scientific
Technical Advisory Panel

Under the Auspices of the California
Coastal Commission and Poseidon
Resources (Surfside) LLC

Convened and Facilitated by CONCUR, Inc.



August 17, 2015

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APPENDIX D: Life Cycle Costs Associated with Different Project Scales

Appendix D shows the life cycle cost analysis for each project scale (12.5 MGD, 25 MGD, 50 MGD, 100 MGD), intake option, discount rate (3% and 7%), and project life (30-year and 50-year) assumption. In each life cycle cost table, we show the capital costs for the desalination facility with different intake options over the expected construction period, as well as the operations and maintenance (O&M) costs over the project life. We also show decommissioning costs of \$9,000,000 at the end of each project life.

To perform the life cycle cost analysis, we adjusted all costs to 2015 dollars, taking out the inflation that was built in to the original capital cost estimates. We then applied the discount rate to these real cost estimates over time to estimate total present value (PV) capital and O&M costs. We also applied the discount rate to the expected water production at each facility over time so that we could determine the unit cost (i.e., PV costs/PV water production) of water over time.

Please note that the tables below are very large and difficult to present legibly on a single page. We recommend that you magnify your screen size by 200% or more in order to easily read these data.

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Year	PV water production	Low cost estimate									High cost estimate										
		Open Ocean			SIG Trestle			SIG Float-in			Open Ocean			SIG Trestle			SIG Float-in				
		Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total		
0	14,002	\$ 196,096,438		\$ 196,096,438	\$ 213,709,991		\$ 213,709,991	\$ 256,709,253		\$ 256,709,253	\$ 208,104,344		\$ 208,104,344	\$ 254,768,305		\$ 254,768,305	\$ 255,486,664		\$ 255,486,664		
1	13,594	\$ 72,214,637		\$ 70,111,298	\$ 209,869,382		\$ 203,756,681	\$ 252,095,898		\$ 244,753,299	\$ 77,658,500		\$ 75,396,602	\$ 250,189,831		\$ 242,902,748	\$ 250,895,281		\$ 243,587,651		
2	13,198		\$ 13,594,138	\$ 12,813,779	\$ 206,097,792		\$ 194,266,936	\$ 154,728,406		\$ 145,846,363		\$ 12,350,296	\$ 11,641,338	\$ 103,191,328		\$ 97,267,723	\$ 155,223,438		\$ 146,312,978		
3	12,814		\$ 13,594,138	\$ 12,440,562		\$ 92,609,582		\$ 14,464,893	\$ 13,237,426		\$ 12,350,296	\$ 11,302,270		\$ 10,411,789	\$ 9,528,262		\$ 10,411,789	\$ 9,528,262		\$ 10,411,789	
4	12,440		\$ 13,594,138	\$ 12,078,216		\$ 14,464,893	\$ 12,851,870		\$ 14,464,893	\$ 12,851,870		\$ 12,350,296	\$ 10,973,078		\$ 10,411,789	\$ 9,250,740		\$ 10,411,789	\$ 9,250,740		\$ 10,411,789
5	12,078		\$ 13,594,138	\$ 11,726,423		\$ 14,464,893	\$ 12,477,544		\$ 14,464,893	\$ 12,477,544		\$ 12,350,296	\$ 10,653,474		\$ 10,411,789	\$ 8,981,301		\$ 10,411,789	\$ 8,981,301		\$ 10,411,789
6	11,726		\$ 13,594,138	\$ 11,384,877		\$ 14,464,893	\$ 12,114,120		\$ 14,464,893	\$ 12,114,120		\$ 12,350,296	\$ 10,343,178		\$ 10,411,789	\$ 8,719,710		\$ 10,411,789	\$ 8,719,710		\$ 10,411,789
7	11,385		\$ 13,594,138	\$ 11,053,278		\$ 14,464,893	\$ 11,761,282		\$ 14,464,893	\$ 11,761,282		\$ 12,350,296	\$ 10,041,921		\$ 10,411,789	\$ 8,465,737		\$ 10,411,789	\$ 8,465,737		\$ 10,411,789
8	11,053		\$ 13,594,138	\$ 10,731,338		\$ 14,464,893	\$ 11,418,720		\$ 14,464,893	\$ 11,418,720		\$ 12,350,296	\$ 9,749,438		\$ 10,411,789	\$ 8,219,163		\$ 10,411,789	\$ 8,219,163		\$ 10,411,789
9	10,731		\$ 13,594,138	\$ 10,418,775		\$ 14,464,893	\$ 11,086,136		\$ 14,464,893	\$ 11,086,136		\$ 12,350,296	\$ 9,465,473		\$ 10,411,789	\$ 7,979,769		\$ 10,411,789	\$ 7,979,769		\$ 10,411,789
10	10,419		\$ 13,594,138	\$ 10,115,315		\$ 14,464,893	\$ 10,763,239		\$ 14,464,893	\$ 10,763,239		\$ 12,350,296	\$ 9,189,780		\$ 10,411,789	\$ 7,747,349		\$ 10,411,789	\$ 7,747,349		\$ 10,411,789
11	10,115		\$ 13,594,138	\$ 9,820,695		\$ 14,464,893	\$ 10,449,746		\$ 14,464,893	\$ 10,449,746		\$ 12,350,296	\$ 8,922,117		\$ 10,411,789	\$ 7,521,698		\$ 10,411,789	\$ 7,521,698		\$ 10,411,789
12	9,821		\$ 13,594,138	\$ 9,534,655		\$ 14,464,893	\$ 10,145,385		\$ 14,464,893	\$ 10,145,385		\$ 12,350,296	\$ 8,662,249		\$ 10,411,789	\$ 7,302,619		\$ 10,411,789	\$ 7,302,619		\$ 10,411,789
13	9,535		\$ 13,594,138	\$ 9,256,947		\$ 14,464,893	\$ 9,849,888		\$ 14,464,893	\$ 9,849,888		\$ 12,350,296	\$ 8,409,951		\$ 10,411,789	\$ 7,089,922		\$ 10,411,789	\$ 7,089,922		\$ 10,411,789
14	9,257		\$ 13,594,138	\$ 8,987,327		\$ 14,464,893	\$ 9,562,998		\$ 14,464,893	\$ 9,562,998		\$ 12,350,296	\$ 8,165,001		\$ 10,411,789	\$ 6,883,419		\$ 10,411,789	\$ 6,883,419		\$ 10,411,789
15	8,987		\$ 13,594,138	\$ 8,725,560		\$ 14,464,893	\$ 9,284,464		\$ 14,464,893	\$ 9,284,464		\$ 12,350,296	\$ 7,927,185		\$ 10,411,789	\$ 6,682,931		\$ 10,411,789	\$ 6,682,931		\$ 10,411,789
16	8,725		\$ 13,594,138	\$ 8,471,417		\$ 14,464,893	\$ 9,014,043		\$ 14,464,893	\$ 9,014,043		\$ 12,350,296	\$ 7,696,296		\$ 10,411,789	\$ 6,488,283		\$ 10,411,789	\$ 6,488,283		\$ 10,411,789
17	8,471		\$ 13,594,138	\$ 8,224,677		\$ 14,464,893	\$ 8,751,498		\$ 14,464,893	\$ 8,751,498		\$ 12,350,296	\$ 7,472,132		\$ 10,411,789	\$ 6,299,304		\$ 10,411,789	\$ 6,299,304		\$ 10,411,789
18	8,225		\$ 13,594,138	\$ 7,985,123		\$ 14,464,893	\$ 8,496,600		\$ 14,464,893	\$ 8,496,600		\$ 12,350,296	\$ 7,254,497		\$ 10,411,789	\$ 6,115,829		\$ 10,411,789	\$ 6,115,829		\$ 10,411,789
19	7,985		\$ 13,594,138	\$ 7,752,547		\$ 14,464,893	\$ 8,249,126		\$ 14,464,893	\$ 8,249,126		\$ 12,350,296	\$ 7,043,201		\$ 10,411,789	\$ 5,937,698		\$ 10,411,789	\$ 5,937,698		\$ 10,411,789
20	7,752		\$ 13,594,138	\$ 7,526,745		\$ 14,464,893	\$ 8,008,861		\$ 14,464,893	\$ 8,008,861		\$ 12,350,296	\$ 6,838,059		\$ 10,411,789	\$ 5,764,755		\$ 10,411,789	\$ 5,764,755		\$ 10,411,789
21	7,527		\$ 13,594,138	\$ 7,307,519		\$ 14,464,893	\$ 7,775,593		\$ 14,464,893	\$ 7,775,593		\$ 12,350,296	\$ 6,638,893		\$ 10,411,789	\$ 5,596,850		\$ 10,411,789	\$ 5,596,850		\$ 10,411,789
22	7,307		\$ 13,594,138	\$ 7,094,679		\$ 14,464,893	\$ 7,549,119		\$ 14,464,893	\$ 7,549,119		\$ 12,350,296	\$ 6,445,527		\$ 10,411,789	\$ 5,433,835		\$ 10,411,789	\$ 5,433,835		\$ 10,411,789
23	7,095		\$ 13,594,138	\$ 6,888,038		\$ 14,464,893	\$ 7,329,242		\$ 14,464,893	\$ 7,329,242		\$ 12,350,296	\$ 6,257,793		\$ 10,411,789	\$ 5,275,568		\$ 10,411,789	\$ 5,275,568		\$ 10,411,789
24	6,888		\$ 13,594,138	\$ 6,687,415		\$ 14,464,893	\$ 7,115,769		\$ 14,464,893	\$ 7,115,769		\$ 12,350,296	\$ 6,075,527		\$ 10,411,789	\$ 5,121,910		\$ 10,411,789	\$ 5,121,910		\$ 10,411,789
25	6,687		\$ 13,594,138	\$ 6,492,636		\$ 14,464,893	\$ 6,908,513		\$ 14,464,893	\$ 6,908,513		\$ 12,350,296	\$ 5,898,570		\$ 10,411,789	\$ 4,972,728		\$ 10,411,789	\$ 4,972,728		\$ 10,411,789
26	6,493		\$ 13,594,138	\$ 6,303,530		\$ 14,464,893	\$ 6,707,295		\$ 14,464,893	\$ 6,707,295		\$ 12,350,296	\$ 5,726,767		\$ 10,411,789	\$ 4,827,892		\$ 10,411,789	\$ 4,827,892		\$ 10,411,789
27	6,303		\$ 13,594,138	\$ 6,119,932		\$ 14,464,893	\$ 6,511,937		\$ 14,464,893	\$ 6,511,937		\$ 12,350,296	\$ 5,559,968		\$ 10,411,789	\$ 4,687,274		\$ 10,411,789	\$ 4,687,274		\$ 10,411,789
28	6,120		\$ 13,594,138	\$ 5,941,682		\$ 14,464,893	\$ 6,322,268		\$ 14,464,893	\$ 6,322,268		\$ 12,350,296	\$ 5,398,027		\$ 10,411,789	\$ 4,550,751		\$ 10,411,789	\$ 4,550,751		\$ 10,411,789
29	5,942		\$ 13,594,138	\$ 5,768,623		\$ 14,464,893	\$ 6,138,125		\$ 14,464,893	\$ 6,138,125		\$ 12,350,296	\$ 5,240,803		\$ 10,411,789	\$ 4,418,205		\$ 10,411,789	\$ 4,418,205		\$ 10,411,789
30	5,769		\$ 13,594,138	\$ 5,600,605		\$ 14,464,893	\$ 5,959,344		\$ 14,464,893	\$ 5,959,344		\$ 12,350,296	\$ 5,088,158		\$ 10,411,789	\$ 4,289,519		\$ 10,411,789	\$ 4,289,519		\$ 10,411,789
31	5,601		\$ 13,594,138	\$ 5,437,480		\$ 14,464,893	\$ 5,785,771		\$ 14,464,893	\$ 5,785,771		\$ 12,350,296	\$ 4,939,960		\$ 10,411,789	\$ 4,164,582		\$ 10,411,789	\$ 4,164,582		\$ 10,411,789
32	5,437	\$ 2,880,000		\$ 1,118,411		\$ 14,464,893	\$ 5,617,254		\$ 14,464,893	\$ 5,617,254	\$ 2,880,000		\$ 1,118,411		\$ 10,411,789	\$ 4,043,283		\$ 10,411,789	\$ 4,043,283		\$ 10,411,789
33	5,279			\$ -		\$ 14,464,893	\$ 5,453,644	\$ 2,880,000		\$ 1,085,836			\$ -	\$ 2,880,000		\$ 1,085,836	\$ 2,880,000		\$ 1,085,836		\$ 2,880,000
34	5,125			\$ -		\$ 14,464,893	\$ 5,280,000		\$ 1,054,209				\$ -			\$ -			\$ -		\$ -
Total PV costs		271,191,075		\$ 526,016,541	733,754,157		\$ 964,856,796	666,413,558		\$ 915,637,928	288,642,844		\$ 519,639,989	611,029,463		\$ 788,385,497	664,485,383		\$ 838,834,014		
Unit cost				\$ 1,974.19			\$ 3,841.73			\$ 3,539.57			\$ 1,950.26			\$ 3,047.65			\$ 3,243		

Table D.1.1 Life cycle cost analysis, 12.5 MGD facility, 3% discount rate, 30-year project life

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Year	PV water production	Low cost estimate									High cost estimate								
		Open Ocean			SIG Trestle			SIG Float-in			Open Ocean			SIG Trestle			SIG Float-in		
		Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total
0	14,002	\$196,096,438		\$ 196,096,438	\$ 213,709,991		\$ 213,709,991	\$ 256,709,253		\$ 256,709,253	\$208,104,344		\$ 208,104,344	\$254,768,305		\$ 254,768,305	\$255,486,664		\$ 255,486,664
1	13,086	\$ 72,214,637		\$ 67,490,315	\$ 209,869,382		\$ 196,139,609	\$ 252,095,898		\$ 235,603,643	\$ 77,658,500		\$ 72,578,038	\$250,189,831		\$ 233,822,272	\$250,895,281		\$ 234,481,571
2	12,230		\$ 13,594,138	\$ 11,873,647	\$ 206,097,792		\$ 180,013,794	\$ 154,728,406		\$ 135,145,783		\$ 12,350,296	\$ 10,787,227	\$103,191,328		\$ 90,131,302	\$155,223,438		\$ 135,578,162
3	11,430		\$ 13,594,138	\$ 11,096,866	\$ 101,196,991		\$ 82,606,889		\$ 14,464,893	\$ 11,807,661		\$ 12,350,296	\$ 10,081,520		\$ 8,499,121		\$ 10,411,789		\$ 8,499,121
4	10,682		\$ 13,594,138	\$ 10,370,903		\$ 14,464,893	\$ 11,035,198		\$ 14,464,893	\$ 11,035,198		\$ 12,350,296	\$ 9,421,982		\$ 10,411,789	\$ 7,943,104		\$ 10,411,789	\$ 7,943,104
5	9,983		\$ 13,594,138	\$ 9,692,433		\$ 14,464,893	\$ 10,313,269		\$ 14,464,893	\$ 10,313,269		\$ 12,350,296	\$ 8,805,590		\$ 10,411,789	\$ 7,423,462		\$ 10,411,789	\$ 7,423,462
6	9,330		\$ 13,594,138	\$ 9,058,348		\$ 14,464,893	\$ 9,638,569		\$ 14,464,893	\$ 9,638,569		\$ 12,350,296	\$ 8,229,524		\$ 10,411,789	\$ 6,937,815		\$ 10,411,789	\$ 6,937,815
7	8,720		\$ 13,594,138	\$ 8,465,746		\$ 14,464,893	\$ 9,008,008		\$ 14,464,893	\$ 9,008,008		\$ 12,350,296	\$ 7,691,144		\$ 10,411,789	\$ 6,483,939		\$ 10,411,789	\$ 6,483,939
8	8,149		\$ 13,594,138	\$ 7,911,912		\$ 14,464,893	\$ 8,418,699		\$ 14,464,893	\$ 8,418,699		\$ 12,350,296	\$ 7,187,985		\$ 10,411,789	\$ 6,059,756		\$ 10,411,789	\$ 6,059,756
9	7,616		\$ 13,594,138	\$ 7,394,310		\$ 14,464,893	\$ 7,867,943		\$ 14,464,893	\$ 7,867,943		\$ 12,350,296	\$ 6,717,743		\$ 10,411,789	\$ 5,663,323		\$ 10,411,789	\$ 5,663,323
10	7,118		\$ 13,594,138	\$ 6,910,570		\$ 14,464,893	\$ 7,353,218		\$ 14,464,893	\$ 7,353,218		\$ 12,350,296	\$ 6,278,264		\$ 10,411,789	\$ 5,292,826		\$ 10,411,789	\$ 5,292,826
11	6,652		\$ 13,594,138	\$ 6,458,477		\$ 14,464,893	\$ 6,872,166		\$ 14,464,893	\$ 6,872,166		\$ 12,350,296	\$ 5,867,537		\$ 10,411,789	\$ 4,946,566		\$ 10,411,789	\$ 4,946,566
12	6,217		\$ 13,594,138	\$ 6,035,960		\$ 14,464,893	\$ 6,422,585		\$ 14,464,893	\$ 6,422,585		\$ 12,350,296	\$ 5,483,679		\$ 10,411,789	\$ 4,622,959		\$ 10,411,789	\$ 4,622,959
13	5,810		\$ 13,594,138	\$ 5,641,084		\$ 14,464,893	\$ 6,002,416		\$ 14,464,893	\$ 6,002,416		\$ 12,350,296	\$ 5,124,934		\$ 10,411,789	\$ 4,320,522		\$ 10,411,789	\$ 4,320,522
14	5,430		\$ 13,594,138	\$ 5,272,041		\$ 14,464,893	\$ 5,609,735		\$ 14,464,893	\$ 5,609,735		\$ 12,350,296	\$ 4,789,658		\$ 10,411,789	\$ 4,037,871		\$ 10,411,789	\$ 4,037,871
15	5,075		\$ 13,594,138	\$ 4,927,141		\$ 14,464,893	\$ 5,242,743		\$ 14,464,893	\$ 5,242,743		\$ 12,350,296	\$ 4,476,316		\$ 10,411,789	\$ 3,773,712		\$ 10,411,789	\$ 3,773,712
16	4,743		\$ 13,594,138	\$ 4,604,805		\$ 14,464,893	\$ 4,899,760		\$ 14,464,893	\$ 4,899,760		\$ 12,350,296	\$ 4,183,473		\$ 10,411,789	\$ 3,526,833		\$ 10,411,789	\$ 3,526,833
17	4,433		\$ 13,594,138	\$ 4,303,556		\$ 14,464,893	\$ 4,579,215		\$ 14,464,893	\$ 4,579,215		\$ 12,350,296	\$ 3,989,787		\$ 10,411,789	\$ 3,296,106		\$ 10,411,789	\$ 3,296,106
18	4,143		\$ 13,594,138	\$ 4,022,015		\$ 14,464,893	\$ 4,279,640		\$ 14,464,893	\$ 4,279,640		\$ 12,350,296	\$ 3,654,007		\$ 10,411,789	\$ 3,080,473		\$ 10,411,789	\$ 3,080,473
19	3,872		\$ 13,594,138	\$ 3,758,892		\$ 14,464,893	\$ 3,999,663		\$ 14,464,893	\$ 3,999,663		\$ 12,350,296	\$ 3,414,960		\$ 10,411,789	\$ 2,878,946		\$ 10,411,789	\$ 2,878,946
20	3,618		\$ 13,594,138	\$ 3,512,984		\$ 14,464,893	\$ 3,738,003		\$ 14,464,893	\$ 3,738,003		\$ 12,350,296	\$ 3,191,551		\$ 10,411,789	\$ 2,690,604		\$ 10,411,789	\$ 2,690,604
21	3,382		\$ 13,594,138	\$ 3,283,162		\$ 14,464,893	\$ 3,493,461		\$ 14,464,893	\$ 3,493,461		\$ 12,350,296	\$ 2,982,758		\$ 10,411,789	\$ 2,514,583		\$ 10,411,789	\$ 2,514,583
22	3,160		\$ 13,594,138	\$ 3,068,376		\$ 14,464,893	\$ 3,264,917		\$ 14,464,893	\$ 3,264,917		\$ 12,350,296	\$ 2,787,624		\$ 10,411,789	\$ 2,350,078		\$ 10,411,789	\$ 2,350,078
23	2,954		\$ 13,594,138	\$ 2,867,641		\$ 14,464,893	\$ 3,051,324		\$ 14,464,893	\$ 3,051,324		\$ 12,350,296	\$ 2,605,256		\$ 10,411,789	\$ 2,196,334		\$ 10,411,789	\$ 2,196,334
24	2,760		\$ 13,594,138	\$ 2,680,038		\$ 14,464,893	\$ 2,851,705		\$ 14,464,893	\$ 2,851,705		\$ 12,350,296	\$ 2,434,819		\$ 10,411,789	\$ 2,052,649		\$ 10,411,789	\$ 2,052,649
25	2,580		\$ 13,594,138	\$ 2,504,709		\$ 14,464,893	\$ 2,665,145		\$ 14,464,893	\$ 2,665,145		\$ 12,350,296	\$ 2,275,532		\$ 10,411,789	\$ 1,918,364		\$ 10,411,789	\$ 1,918,364
26	2,411		\$ 13,594,138	\$ 2,340,849		\$ 14,464,893	\$ 2,490,789		\$ 14,464,893	\$ 2,490,789		\$ 12,350,296	\$ 2,126,665		\$ 10,411,789	\$ 1,792,863		\$ 10,411,789	\$ 1,792,863
27	2,253		\$ 13,594,138	\$ 2,187,710		\$ 14,464,893	\$ 2,327,841		\$ 14,464,893	\$ 2,327,841		\$ 12,350,296	\$ 1,987,538		\$ 10,411,789	\$ 1,675,573		\$ 10,411,789	\$ 1,675,573
28	2,106		\$ 13,594,138	\$ 2,044,588		\$ 14,464,893	\$ 2,175,552		\$ 14,464,893	\$ 2,175,552		\$ 12,350,296	\$ 1,857,512		\$ 10,411,789	\$ 1,565,956		\$ 10,411,789	\$ 1,565,956
29	1,968		\$ 13,594,138	\$ 1,910,830		\$ 14,464,893	\$ 2,033,226		\$ 14,464,893	\$ 2,033,226		\$ 12,350,296	\$ 1,735,992		\$ 10,411,789	\$ 1,463,510		\$ 10,411,789	\$ 1,463,510
30	1,839		\$ 13,594,138	\$ 1,785,823		\$ 14,464,893	\$ 1,900,211		\$ 14,464,893	\$ 1,900,211		\$ 12,350,296	\$ 1,622,423		\$ 10,411,789	\$ 1,367,767		\$ 10,411,789	\$ 1,367,767
31	1,719		\$ 13,594,138	\$ 1,668,993		\$ 14,464,893	\$ 1,775,898		\$ 14,464,893	\$ 1,775,898		\$ 12,350,296	\$ 1,516,283		\$ 10,411,789	\$ 1,278,287		\$ 10,411,789	\$ 1,278,287
32	1,607	\$ 2,880,000		\$ 330,454		\$ 14,464,893	\$ 1,659,718		\$ 14,464,893	\$ 1,659,718	\$ 2,880,000		\$ 330,454		\$ 10,411,789	\$ 1,194,660		\$ 10,411,789	\$ 1,194,660
33	1,501			\$ -		\$ 14,464,893	\$ 1,551,138		\$ 14,464,893	\$ 1,551,138		\$ -		\$ 2,880,000		\$ 308,836	\$ 2,880,000		\$ 308,836
34	1,403			\$ -	\$ 2,880,000		\$ 288,632		\$ -			\$ -		\$ -		\$ -	\$ 2,880,000		\$ -
Total PV costs				\$ 421,571,618	733,754,157		\$ 819,280,672	666,413,558		\$ 784,545,795		\$ 424,242,117		\$ 691,879,278		\$ 738,703,797		\$ 738,703,797	
Unit cost				\$ 2,596.18			\$ 5,776.48			\$ 5,169.70		\$ 2,612.62		\$ 4,559.08		\$ 4,868		\$ 4,868	

Table D.1.2 Life cycle cost analysis, 12.5 MGD facility, 7% discount rate, 30-year project life

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Year	PV water production	Low cost estimate									High cost estimate								
		Open Ocean			SIG Trestle			SIG Float-in			Open Ocean			SIG Trestle			SIG Float-in		
		Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total
0	14,002	\$ 196,096,438	\$ 196,096,438	\$ 213,709,991	\$ 213,709,991	\$ 256,709,253	\$ 256,709,253	\$ 208,104,344	\$ 208,104,344	\$ 254,768,305	\$ 254,768,305	\$ 255,486,664	\$ 255,486,664	\$ 255,486,664	\$ 255,486,664	\$ 255,486,664	\$ 255,486,664	\$ 255,486,664	\$ 255,486,664
1	13,594	\$ 72,214,637	\$ 70,111,298	\$ 209,869,382	\$ 203,756,681	\$ 252,095,898	\$ 244,753,299	\$ 77,658,500	\$ 75,396,602	\$ 250,189,831	\$ 242,902,748	\$ 250,189,831	\$ 250,189,831	\$ 250,189,831	\$ 250,189,831	\$ 250,189,831	\$ 250,189,831	\$ 250,189,831	\$ 250,189,831
2	13,198		\$ 13,594,138	\$ 12,813,779	\$ 206,097,792	\$ 194,266,936	\$ 145,846,363	\$ 142,337,426	\$ 12,350,296	\$ 11,641,338	\$ 247,667,723	\$ 247,667,723	\$ 247,667,723	\$ 247,667,723	\$ 247,667,723	\$ 247,667,723	\$ 247,667,723	\$ 247,667,723	\$ 247,667,723
3	12,814		\$ 13,594,138	\$ 12,440,562	\$ 101,196,991	\$ 92,609,582	\$ 14,464,893	\$ 13,231,426	\$ 12,350,296	\$ 11,302,270	\$ 103,191,328	\$ 103,191,328	\$ 103,191,328	\$ 103,191,328	\$ 103,191,328	\$ 103,191,328	\$ 103,191,328	\$ 103,191,328	\$ 103,191,328
4	12,440		\$ 13,594,138	\$ 12,078,216		\$ 12,851,870	\$ 14,464,893	\$ 12,851,870	\$ 12,350,296	\$ 10,973,078		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
5	12,078		\$ 13,594,138	\$ 11,726,423		\$ 12,477,544	\$ 14,464,893	\$ 12,477,544	\$ 12,350,296	\$ 10,653,474		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
6	11,726		\$ 13,594,138	\$ 11,384,877		\$ 12,114,120	\$ 14,464,893	\$ 12,114,120	\$ 12,350,296	\$ 10,343,178		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
7	11,385		\$ 13,594,138	\$ 11,053,278		\$ 11,761,282	\$ 14,464,893	\$ 11,761,282	\$ 12,350,296	\$ 10,041,921		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
8	11,053		\$ 13,594,138	\$ 10,731,338		\$ 11,418,720	\$ 14,464,893	\$ 11,418,720	\$ 12,350,296	\$ 9,749,438		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
9	10,731		\$ 13,594,138	\$ 10,418,775		\$ 11,086,136	\$ 14,464,893	\$ 11,086,136	\$ 12,350,296	\$ 9,465,473		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
10	10,419		\$ 13,594,138	\$ 10,115,315		\$ 10,763,239	\$ 14,464,893	\$ 10,763,239	\$ 12,350,296	\$ 9,189,780		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
11	10,115		\$ 13,594,138	\$ 9,820,695		\$ 10,449,746	\$ 14,464,893	\$ 10,449,746	\$ 12,350,296	\$ 8,922,117		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
12	9,821		\$ 13,594,138	\$ 9,534,655		\$ 10,145,385	\$ 14,464,893	\$ 10,145,385	\$ 12,350,296	\$ 8,662,249		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
13	9,535		\$ 13,594,138	\$ 9,256,947		\$ 9,849,888	\$ 14,464,893	\$ 9,849,888	\$ 12,350,296	\$ 8,409,951		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
14	9,257		\$ 13,594,138	\$ 8,987,327		\$ 9,562,998	\$ 14,464,893	\$ 9,562,998	\$ 12,350,296	\$ 8,165,001		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
15	8,987		\$ 13,594,138	\$ 8,725,560		\$ 9,284,464	\$ 14,464,893	\$ 9,284,464	\$ 12,350,296	\$ 7,927,185		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
16	8,725		\$ 13,594,138	\$ 8,471,417		\$ 9,014,043	\$ 14,464,893	\$ 9,014,043	\$ 12,350,296	\$ 7,696,296		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
17	8,471		\$ 13,594,138	\$ 8,224,677		\$ 8,751,498	\$ 14,464,893	\$ 8,751,498	\$ 12,350,296	\$ 7,472,132		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
18	8,225		\$ 13,594,138	\$ 7,985,123		\$ 8,496,600	\$ 14,464,893	\$ 8,496,600	\$ 12,350,296	\$ 7,254,497		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
19	7,985		\$ 13,594,138	\$ 7,752,547		\$ 8,249,126	\$ 14,464,893	\$ 8,249,126	\$ 12,350,296	\$ 7,043,201		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
20	7,752		\$ 13,594,138	\$ 7,526,745		\$ 8,008,861	\$ 14,464,893	\$ 8,008,861	\$ 12,350,296	\$ 6,838,059		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
21	7,527		\$ 13,594,138	\$ 7,307,519		\$ 7,775,593	\$ 14,464,893	\$ 7,775,593	\$ 12,350,296	\$ 6,638,893		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
22	7,307		\$ 13,594,138	\$ 7,094,679		\$ 7,549,119	\$ 14,464,893	\$ 7,549,119	\$ 12,350,296	\$ 6,443,527		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
23	7,095		\$ 13,594,138	\$ 6,888,038		\$ 7,329,242	\$ 14,464,893	\$ 7,329,242	\$ 12,350,296	\$ 6,257,793		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
24	6,888		\$ 13,594,138	\$ 6,687,415		\$ 7,115,769	\$ 14,464,893	\$ 7,115,769	\$ 12,350,296	\$ 6,075,527		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
25	6,687		\$ 13,594,138	\$ 6,492,636		\$ 6,908,513	\$ 14,464,893	\$ 6,908,513	\$ 12,350,296	\$ 5,898,570		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
26	6,493		\$ 13,594,138	\$ 6,303,530		\$ 6,707,295	\$ 14,464,893	\$ 6,707,295	\$ 12,350,296	\$ 5,726,767		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
27	6,303		\$ 13,594,138	\$ 6,119,932		\$ 6,511,937	\$ 14,464,893	\$ 6,511,937	\$ 12,350,296	\$ 5,559,968		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
28	6,120		\$ 13,594,138	\$ 5,941,682		\$ 6,322,268	\$ 14,464,893	\$ 6,322,268	\$ 12,350,296	\$ 5,398,027		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
29	5,942		\$ 13,594,138	\$ 5,768,623		\$ 6,138,125	\$ 14,464,893	\$ 6,138,125	\$ 12,350,296	\$ 5,240,803		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
30	5,769		\$ 13,594,138	\$ 5,600,605		\$ 5,959,344	\$ 14,464,893	\$ 5,959,344	\$ 12,350,296	\$ 5,088,158		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
31	5,601		\$ 13,594,138	\$ 5,437,480		\$ 5,785,771	\$ 14,464,893	\$ 5,785,771	\$ 12,350,296	\$ 4,939,960		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
32	5,437		\$ 13,594,138	\$ 5,279,107		\$ 5,617,254	\$ 14,464,893	\$ 5,617,254	\$ 12,350,296	\$ 4,796,077		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
33	5,279		\$ 13,594,138	\$ 5,125,347		\$ 5,453,644	\$ 14,464,893	\$ 5,453,644	\$ 12,350,296	\$ 4,656,386		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
34	5,125		\$ 13,594,138	\$ 4,976,065		\$ 5,294,800	\$ 14,464,893	\$ 5,294,800	\$ 12,350,296	\$ 4,520,763		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
35	4,976		\$ 13,594,138	\$ 4,831,131		\$ 5,140,583	\$ 14,464,893	\$ 5,140,583	\$ 12,350,296	\$ 4,389,090		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
36	4,831		\$ 13,594,138	\$ 4,690,418		\$ 4,990,857	\$ 14,464,893	\$ 4,990,857	\$ 12,350,296	\$ 4,261,253		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
37	4,690		\$ 13,594,138	\$ 4,553,804		\$ 4,845,492	\$ 14,464,893	\$ 4,845,492	\$ 12,350,296	\$ 4,137,138		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
38	4,554		\$ 13,594,138	\$ 4,421,169		\$ 4,704,362	\$ 14,464,893	\$ 4,704,362	\$ 12,350,296	\$ 4,016,639		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
39	4,421		\$ 13,594,138	\$ 4,292,397		\$ 4,567,341	\$ 14,464,893	\$ 4,567,341	\$ 12,350,296	\$ 3,899,650		\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789	\$ 10,411,789
40	4,292		\$ 13,594,138	\$ 4,167,376		\$ 4,434,312	\$ 14,464,893	\$ 4											

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Year	PV water production	Low cost estimate												High cost estimate					
		Open Ocean			SIG Trestle			SIG Float-in			Open Ocean			SIG Trestle			SIG Float-in		
		Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total
0	14,002	\$196,096,438		\$ 196,096,438	\$ 213,709,991		\$ 213,709,991	\$ 256,709,253		\$ 256,709,253	\$ 208,104,344		\$ 208,104,344	\$ 254,768,305		\$ 254,768,305	\$ 255,486,664		\$ 255,486,664
1	13,086	\$ 72,214,637		\$ 67,490,315	\$ 209,869,382		\$ 196,139,609	\$ 252,095,898		\$ 235,603,643	\$ 77,658,500		\$ 72,578,038	\$ 250,189,831		\$ 233,822,272	\$ 250,895,281		\$ 234,481,571
2	12,230		\$ 13,594,138	\$ 11,873,647	\$ 10,370,903		\$ 10,370,903	\$ 154,728,406		\$ 135,145,783		\$ 12,350,296	\$ 10,787,227	\$ 250,189,831		\$ 233,822,272	\$ 155,223,438		\$ 135,578,162
3	11,430		\$ 13,594,138	\$ 11,096,866	\$ 10,196,991		\$ 10,196,991		\$ 82,606,889	\$ 14,464,893		\$ 11,807,661	\$ 12,350,296	\$ 10,111,789	\$ 8,499,121	\$ 10,411,789	\$ 10,411,789	\$ 8,499,121	
4	10,682		\$ 13,594,138	\$ 10,370,903	\$ 9,058,348		\$ 9,058,348		\$ 11,035,198	\$ 14,464,893		\$ 11,035,198	\$ 12,350,296	\$ 9,421,982	\$ 10,411,789	\$ 7,943,104	\$ 10,411,789	\$ 7,943,104	
5	9,983		\$ 13,594,138	\$ 9,692,433	\$ 8,465,746		\$ 8,465,746		\$ 10,313,269	\$ 14,464,893		\$ 10,313,269	\$ 12,350,296	\$ 8,805,590	\$ 10,411,789	\$ 7,423,462	\$ 10,411,789	\$ 7,423,462	
6	9,330		\$ 13,594,138	\$ 9,058,348	\$ 8,149,819		\$ 8,149,819		\$ 9,638,569	\$ 14,464,893		\$ 9,638,569	\$ 12,350,296	\$ 8,229,524	\$ 10,411,789	\$ 6,937,815	\$ 10,411,789	\$ 6,937,815	
7	8,720		\$ 13,594,138	\$ 8,465,746	\$ 7,911,912		\$ 7,911,912		\$ 9,008,008	\$ 14,464,893		\$ 9,008,008	\$ 12,350,296	\$ 7,691,144	\$ 10,411,789	\$ 6,483,939	\$ 10,411,789	\$ 6,483,939	
8	8,149		\$ 13,594,138	\$ 7,911,912	\$ 7,394,310		\$ 7,394,310		\$ 8,418,699	\$ 14,464,893		\$ 8,418,699	\$ 12,350,296	\$ 7,187,985	\$ 10,411,789	\$ 6,059,756	\$ 10,411,789	\$ 6,059,756	
9	7,616		\$ 13,594,138	\$ 7,394,310	\$ 6,910,570		\$ 6,910,570		\$ 7,867,943	\$ 14,464,893		\$ 7,867,943	\$ 12,350,296	\$ 6,717,743	\$ 10,411,789	\$ 5,663,323	\$ 10,411,789	\$ 5,663,323	
10	7,118		\$ 13,594,138	\$ 6,910,570	\$ 6,458,477		\$ 6,458,477		\$ 7,353,218	\$ 14,464,893		\$ 7,353,218	\$ 12,350,296	\$ 6,278,264	\$ 10,411,789	\$ 5,292,826	\$ 10,411,789	\$ 5,292,826	
11	6,652		\$ 13,594,138	\$ 6,458,477	\$ 6,035,960		\$ 6,035,960		\$ 6,872,166	\$ 14,464,893		\$ 6,872,166	\$ 12,350,296	\$ 5,867,537	\$ 10,411,789	\$ 4,946,566	\$ 10,411,789	\$ 4,946,566	
12	6,217		\$ 13,594,138	\$ 6,035,960	\$ 5,641,084		\$ 5,641,084		\$ 6,422,585	\$ 14,464,893		\$ 6,422,585	\$ 12,350,296	\$ 5,483,679	\$ 10,411,789	\$ 4,622,959	\$ 10,411,789	\$ 4,622,959	
13	5,810		\$ 13,594,138	\$ 5,641,084	\$ 5,272,041		\$ 5,272,041		\$ 6,002,416	\$ 14,464,893		\$ 6,002,416	\$ 12,350,296	\$ 5,124,934	\$ 10,411,789	\$ 4,320,522	\$ 10,411,789	\$ 4,320,522	
14	5,430		\$ 13,594,138	\$ 5,272,041	\$ 4,927,141		\$ 4,927,141		\$ 5,609,735	\$ 14,464,893		\$ 5,609,735	\$ 12,350,296	\$ 4,789,658	\$ 10,411,789	\$ 4,037,871	\$ 10,411,789	\$ 4,037,871	
15	5,075		\$ 13,594,138	\$ 4,927,141	\$ 4,604,805		\$ 4,604,805		\$ 5,242,743	\$ 14,464,893		\$ 5,242,743	\$ 12,350,296	\$ 4,476,316	\$ 10,411,789	\$ 3,773,712	\$ 10,411,789	\$ 3,773,712	
16	4,743		\$ 13,594,138	\$ 4,604,805	\$ 4,303,556		\$ 4,303,556		\$ 4,899,760	\$ 14,464,893		\$ 4,899,760	\$ 12,350,296	\$ 4,183,473	\$ 10,411,789	\$ 3,526,833	\$ 10,411,789	\$ 3,526,833	
17	4,433		\$ 13,594,138	\$ 4,303,556	\$ 4,022,015		\$ 4,022,015		\$ 4,579,215	\$ 14,464,893		\$ 4,579,215	\$ 12,350,296	\$ 3,909,787	\$ 10,411,789	\$ 3,296,106	\$ 10,411,789	\$ 3,296,106	
18	4,143		\$ 13,594,138	\$ 4,022,015	\$ 3,758,892		\$ 3,758,892		\$ 4,279,640	\$ 14,464,893		\$ 4,279,640	\$ 12,350,296	\$ 3,654,007	\$ 10,411,789	\$ 3,080,473	\$ 10,411,789	\$ 3,080,473	
19	3,872		\$ 13,594,138	\$ 3,758,892	\$ 3,512,984		\$ 3,512,984		\$ 3,999,663	\$ 14,464,893		\$ 3,999,663	\$ 12,350,296	\$ 3,414,960	\$ 10,411,789	\$ 2,878,946	\$ 10,411,789	\$ 2,878,946	
20	3,618		\$ 13,594,138	\$ 3,512,984	\$ 3,283,162		\$ 3,283,162		\$ 3,738,003	\$ 14,464,893		\$ 3,738,003	\$ 12,350,296	\$ 3,191,551	\$ 10,411,789	\$ 2,690,604	\$ 10,411,789	\$ 2,690,604	
21	3,382		\$ 13,594,138	\$ 3,283,162	\$ 3,068,376		\$ 3,068,376		\$ 3,493,461	\$ 14,464,893		\$ 3,493,461	\$ 12,350,296	\$ 2,982,758	\$ 10,411,789	\$ 2,514,583	\$ 10,411,789	\$ 2,514,583	
22	3,160		\$ 13,594,138	\$ 3,068,376	\$ 2,867,641		\$ 2,867,641		\$ 3,264,917	\$ 14,464,893		\$ 3,264,917	\$ 12,350,296	\$ 2,787,624	\$ 10,411,789	\$ 2,350,078	\$ 10,411,789	\$ 2,350,078	
23	2,954		\$ 13,594,138	\$ 2,867,641	\$ 2,680,038		\$ 2,680,038		\$ 3,051,324	\$ 14,464,893		\$ 3,051,324	\$ 12,350,296	\$ 2,605,256	\$ 10,411,789	\$ 2,196,334	\$ 10,411,789	\$ 2,196,334	
24	2,760		\$ 13,594,138	\$ 2,680,038	\$ 2,504,709		\$ 2,504,709		\$ 2,851,705	\$ 14,464,893		\$ 2,851,705	\$ 12,350,296	\$ 2,434,819	\$ 10,411,789	\$ 2,052,649	\$ 10,411,789	\$ 2,052,649	
25	2,580		\$ 13,594,138	\$ 2,504,709	\$ 2,340,849		\$ 2,340,849		\$ 2,665,145	\$ 14,464,893		\$ 2,665,145	\$ 12,350,296	\$ 2,275,632	\$ 10,411,789	\$ 1,918,364	\$ 10,411,789	\$ 1,918,364	
26	2,411		\$ 13,594,138	\$ 2,340,849	\$ 2,187,710		\$ 2,187,710		\$ 2,490,789	\$ 14,464,893		\$ 2,490,789	\$ 12,350,296	\$ 2,126,665	\$ 10,411,789	\$ 1,792,863	\$ 10,411,789	\$ 1,792,863	
27	2,253		\$ 13,594,138	\$ 2,187,710	\$ 2,044,588		\$ 2,044,588		\$ 2,327,841	\$ 14,464,893		\$ 2,327,841	\$ 12,350,296	\$ 1,987,538	\$ 10,411,789	\$ 1,675,573	\$ 10,411,789	\$ 1,675,573	
28	2,106		\$ 13,594,138	\$ 2,044,588	\$ 1,910,830		\$ 1,910,830		\$ 2,175,552	\$ 14,464,893		\$ 2,175,552	\$ 12,350,296	\$ 1,857,512	\$ 10,411,789	\$ 1,565,956	\$ 10,411,789	\$ 1,565,956	
29	1,968		\$ 13,594,138	\$ 1,910,830	\$ 1,785,823		\$ 1,785,823		\$ 2,033,226	\$ 14,464,893		\$ 2,033,226	\$ 12,350,296	\$ 1,735,992	\$ 10,411,789	\$ 1,463,510	\$ 10,411,789	\$ 1,463,510	
30	1,839		\$ 13,594,138	\$ 1,785,823	\$ 1,668,993		\$ 1,668,993		\$ 1,900,211	\$ 14,464,893		\$ 1,900,211	\$ 12,350,296	\$ 1,622,423	\$ 10,411,789	\$ 1,367,767	\$ 10,411,789	\$ 1,367,767	
31	1,719		\$ 13,594,138	\$ 1,668,993	\$ 1,559,807		\$ 1,559,807		\$ 1,775,898	\$ 14,464,893		\$ 1,775,898	\$ 12,350,296	\$ 1,516,283	\$ 10,411,789	\$ 1,278,287	\$ 10,411,789	\$ 1,278,287	
32	1,607		\$ 13,594,138	\$ 1,559,807	\$ 1,457,763		\$ 1,457,763		\$ 1,659,718	\$ 14,464,893		\$ 1,659,718	\$ 12,350,296	\$ 1,417,087	\$ 10,411,789	\$ 1,194,660	\$ 10,411,789	\$ 1,194,660	
33	1,501		\$ 13,594,138	\$ 1,457,763	\$ 1,362,396		\$ 1,362,396		\$ 1,551,138	\$ 14,464,893		\$ 1,551,138	\$ 12,350,296	\$ 1,324,380	\$ 10,411,789	\$ 1,116,505	\$ 10,411,789	\$ 1,116,505	
34	1,403		\$ 13,594,138	\$ 1,362,396	\$ 1,273,267		\$ 1,273,267		\$ 1,449,662	\$ 14,464,893		\$ 1,449,662	\$ 12,350,296	\$ 1,237,739	\$ 10,411,789	\$ 1,043,463	\$ 10,411,789	\$ 1,043,463	
35	1,311		\$ 13,594,138	\$ 1,273,267	\$ 1,189,969		\$ 1,189,969		\$ 1,354,824	\$ 14,464,893		\$ 1,354,824	\$ 12,350,296	\$ 1,156,765	\$ 10,411,789	\$ 975,199	\$ 10,411,789	\$ 975,199	
36	1,226		\$ 13,594,138	\$ 1,189,969	\$ 1,112,121		\$ 1,112,121		\$ 1,266,191	\$ 14,464,893		\$ 1,266,191	\$ 12,350,296	\$ 1,081,889	\$ 10,411,789	\$ 911,401	\$ 10,411,789	\$ 911,401	
37	1,145		\$ 13,594,138	\$ 1,112,121	\$ 1,039,365		\$ 1,039,365		\$ 1,183,356	\$ 14,464,893		\$ 1,183,356	\$ 12,350,296	\$ 1,010,363	\$ 10,411,789	\$ 851,776	\$ 10,411,789	\$ 851,776	
38	1,071		\$ 13,594,138	\$ 1,039,365	\$ 971,369		\$ 971,369		\$ 1,105,940	\$ 14,464,893		\$ 1,105,940	\$ 12,350,296	\$ 944,265	\$ 10,411,789	\$ 796,053	\$ 10,411,789	\$ 796,053	
39	1,000		\$ 13,594,138	\$ 971,369	\$ 907,822		\$ 907,822		\$ 1,033,589	\$ 14,464,893		\$ 1,033,589	\$ 12,350,296	\$ 882,490	\$ 10,411,789	\$ 743,974	\$ 10,411,789	\$ 743,974	
40	935		\$ 13,594,138	\$ 907,822	\$ 848,432		\$ 848,432		\$ 965,971	\$ 14,464,893		\$ 965,971	\$ 12,350,296	\$ 824,757	\$ 10,411,789	\$ 695,303	\$ 10,411,789	\$ 695,303	
41	874		\$ 13,594,138	\$ 848,432	\$ 792,927		\$ 792,927		\$ 902,777	\$ 14,464,893		\$ 902,777	\$ 12,350,296	\$ 770,801	\$ 10,411,789	\$ 649,816	\$ 10,411,789	\$ 649,816	
42	817		\$ 13,594,138	\$ 792,927	\$ 741,053		\$ 741,053		\$ 843,717	\$ 14,464,893		\$ 843,717	\$ 12,350,296	\$ 720,375	\$ 10,411,789	\$ 607,305	\$ 10,411,789	\$ 607,305	
43	763		\$ 13,594,138	\$ 741,053	\$ 692,573		\$ 692,573		\$ 788,520	\$ 14,464,893		\$ 788,520	\$ 12,350,296	\$ 673,248	\$ 10,411,789	\$ 567,575	\$ 10,411,789	\$ 567,575	
44	713		\$ 13,594,138	\$ 692,573	\$ 647,264		\$ 647,264		\$ 736,935	\$ 14,464,893		\$ 736,935	\$ 12,350,296	\$ 629,204	\$ 10,411,789	\$ 530,444	\$ 10,411,789	\$ 530,444	
45	667		\$ 13,594,138	\$ 647,264	\$ 604,920		\$ 604,920		\$ 688,724	\$ 14,464,893		\$ 688,724	\$ 12,350,296	\$ 588,041	\$ 10,411,789	\$ 495,742	\$ 10,411,789	\$ 495,742	
46	623		\$ 13,594,138	\$ 604,920	\$ 565,346		\$ 565,346		\$ 643,667	\$ 14,464,893		\$ 643,667	\$ 12,350,296	\$ 549,571	\$ 10,411,789	\$ 46			

CCC-Poseidon ISTAP Draft Phase 2 Report; for Public Review

Year	PV water production	Low cost estimate									High cost estimate								
		Open Ocean			SIG Trestle			SIG Float-in			Open Ocean			SIG Trestle			SIG Float-in		
		Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total
0	28,004	\$ 228,779,178	\$ 228,779,178	\$ 249,355,203	\$ 249,355,203	\$ 249,355,203	\$ 299,521,008	\$ 299,521,008	\$ 299,521,008	\$ 243,966,986	\$ 243,966,986	\$ 243,966,986	\$ 298,077,664	\$ 298,077,664	\$ 298,077,664	\$ 298,472,897	\$ 298,472,897	\$ 298,472,897	
1	27,188	\$ 224,667,758	\$ 218,124,037	\$ 244,874,009	\$ 237,741,756	\$ 237,741,756	\$ 294,138,278	\$ 285,571,144	\$ 285,571,144	\$ 232,604,889	\$ 232,604,889	\$ 232,604,889	\$ 292,720,872	\$ 284,195,021	\$ 284,195,021	\$ 293,109,002	\$ 284,571,846	\$ 284,571,846	
2	26,396	\$ 13,789,389	\$ 12,997,822	\$ 240,473,347	\$ 226,669,193	\$ 226,669,193	\$ 288,852,281	\$ 272,270,979	\$ 272,270,979	\$ 14,116,623	\$ 13,306,271	\$ 13,306,271	\$ 287,460,348	\$ 270,958,948	\$ 270,958,948	\$ 287,841,502	\$ 271,318,223	\$ 271,318,223	
3	25,627	\$ 27,188,276	\$ 24,881,124	\$ 236,151,769	\$ 216,112,322	\$ 216,112,322	\$ 265,932,450	\$ 243,365,863	\$ 243,365,863	\$ 24,700,592	\$ 22,604,541	\$ 22,604,541	\$ 175,022,504	\$ 160,170,384	\$ 160,170,384	\$ 265,708,546	\$ 243,160,959	\$ 243,160,959	
4	24,881	\$ 27,188,276	\$ 24,156,431	\$ 231,907,856	\$ 206,047,126	\$ 206,047,126	\$ 259,929,786	\$ 25,703,740	\$ 25,703,740	\$ 24,700,592	\$ 21,946,156	\$ 21,946,156	\$ 20,823,578	\$ 18,501,480	\$ 18,501,480	\$ 20,823,578	\$ 18,501,480	\$ 18,501,480	
5	24,156	\$ 27,188,276	\$ 23,452,846	\$ 236,935,052	\$ 19,112,676	\$ 19,112,676	\$ 259,929,786	\$ 24,955,088	\$ 24,955,088	\$ 24,700,592	\$ 21,306,947	\$ 21,306,947	\$ 20,823,578	\$ 17,962,602	\$ 17,962,602	\$ 20,823,578	\$ 17,962,602	\$ 17,962,602	
6	23,452	\$ 27,188,276	\$ 22,769,753	\$ 228,929,786	\$ 24,228,240	\$ 24,228,240	\$ 259,929,786	\$ 24,228,240	\$ 24,228,240	\$ 24,700,592	\$ 20,686,357	\$ 20,686,357	\$ 20,823,578	\$ 17,439,419	\$ 17,439,419	\$ 20,823,578	\$ 17,439,419	\$ 17,439,419	
7	22,769	\$ 27,188,276	\$ 22,106,557	\$ 228,929,786	\$ 23,522,563	\$ 23,522,563	\$ 259,929,786	\$ 23,522,563	\$ 23,522,563	\$ 24,700,592	\$ 20,083,842	\$ 20,083,842	\$ 20,823,578	\$ 16,931,475	\$ 16,931,475	\$ 20,823,578	\$ 16,931,475	\$ 16,931,475	
8	22,106	\$ 27,188,276	\$ 21,462,676	\$ 228,929,786	\$ 22,837,440	\$ 22,837,440	\$ 259,929,786	\$ 22,837,440	\$ 22,837,440	\$ 24,700,592	\$ 19,498,875	\$ 19,498,875	\$ 20,823,578	\$ 16,438,325	\$ 16,438,325	\$ 20,823,578	\$ 16,438,325	\$ 16,438,325	
9	21,462	\$ 27,188,276	\$ 20,837,550	\$ 228,929,786	\$ 22,172,272	\$ 22,172,272	\$ 259,929,786	\$ 22,172,272	\$ 22,172,272	\$ 24,700,592	\$ 18,930,947	\$ 18,930,947	\$ 20,823,578	\$ 15,959,539	\$ 15,959,539	\$ 20,823,578	\$ 15,959,539	\$ 15,959,539	
10	20,837	\$ 27,188,276	\$ 20,230,631	\$ 228,929,786	\$ 21,526,478	\$ 21,526,478	\$ 259,929,786	\$ 21,526,478	\$ 21,526,478	\$ 24,700,592	\$ 18,379,560	\$ 18,379,560	\$ 20,823,578	\$ 15,494,698	\$ 15,494,698	\$ 20,823,578	\$ 15,494,698	\$ 15,494,698	
11	20,230	\$ 27,188,276	\$ 19,641,389	\$ 228,929,786	\$ 20,899,493	\$ 20,899,493	\$ 259,929,786	\$ 20,899,493	\$ 20,899,493	\$ 24,700,592	\$ 17,844,233	\$ 17,844,233	\$ 20,823,578	\$ 15,043,396	\$ 15,043,396	\$ 20,823,578	\$ 15,043,396	\$ 15,043,396	
12	19,641	\$ 27,188,276	\$ 19,069,310	\$ 228,929,786	\$ 20,290,770	\$ 20,290,770	\$ 259,929,786	\$ 20,290,770	\$ 20,290,770	\$ 24,700,592	\$ 17,324,498	\$ 17,324,498	\$ 20,823,578	\$ 14,605,239	\$ 14,605,239	\$ 20,823,578	\$ 14,605,239	\$ 14,605,239	
13	19,069	\$ 27,188,276	\$ 18,513,893	\$ 228,929,786	\$ 19,699,777	\$ 19,699,777	\$ 259,929,786	\$ 19,699,777	\$ 19,699,777	\$ 24,700,592	\$ 16,819,901	\$ 16,819,901	\$ 20,823,578	\$ 14,179,844	\$ 14,179,844	\$ 20,823,578	\$ 14,179,844	\$ 14,179,844	
14	18,514	\$ 27,188,276	\$ 17,974,653	\$ 228,929,786	\$ 19,125,997	\$ 19,125,997	\$ 259,929,786	\$ 19,125,997	\$ 19,125,997	\$ 24,700,592	\$ 16,330,001	\$ 16,330,001	\$ 20,823,578	\$ 13,766,838	\$ 13,766,838	\$ 20,823,578	\$ 13,766,838	\$ 13,766,838	
15	17,974	\$ 27,188,276	\$ 17,451,120	\$ 228,929,786	\$ 18,568,929	\$ 18,568,929	\$ 259,929,786	\$ 18,568,929	\$ 18,568,929	\$ 24,700,592	\$ 15,854,370	\$ 15,854,370	\$ 20,823,578	\$ 13,365,863	\$ 13,365,863	\$ 20,823,578	\$ 13,365,863	\$ 13,365,863	
16	17,451	\$ 27,188,276	\$ 16,942,835	\$ 228,929,786	\$ 18,028,086	\$ 18,028,086	\$ 259,929,786	\$ 18,028,086	\$ 18,028,086	\$ 24,700,592	\$ 15,392,592	\$ 15,392,592	\$ 20,823,578	\$ 12,976,566	\$ 12,976,566	\$ 20,823,578	\$ 12,976,566	\$ 12,976,566	
17	16,943	\$ 27,188,276	\$ 16,449,354	\$ 228,929,786	\$ 17,502,996	\$ 17,502,996	\$ 259,929,786	\$ 17,502,996	\$ 17,502,996	\$ 24,700,592	\$ 14,944,264	\$ 14,944,264	\$ 20,823,578	\$ 12,598,607	\$ 12,598,607	\$ 20,823,578	\$ 12,598,607	\$ 12,598,607	
18	16,449	\$ 27,188,276	\$ 15,970,247	\$ 228,929,786	\$ 16,993,200	\$ 16,993,200	\$ 259,929,786	\$ 16,993,200	\$ 16,993,200	\$ 24,700,592	\$ 14,508,994	\$ 14,508,994	\$ 20,823,578	\$ 12,231,658	\$ 12,231,658	\$ 20,823,578	\$ 12,231,658	\$ 12,231,658	
19	15,970	\$ 27,188,276	\$ 15,505,094	\$ 228,929,786	\$ 16,498,253	\$ 16,498,253	\$ 259,929,786	\$ 16,498,253	\$ 16,498,253	\$ 24,700,592	\$ 14,086,402	\$ 14,086,402	\$ 20,823,578	\$ 11,875,396	\$ 11,875,396	\$ 20,823,578	\$ 11,875,396	\$ 11,875,396	
20	15,505	\$ 27,188,276	\$ 15,053,489	\$ 228,929,786	\$ 16,017,721	\$ 16,017,721	\$ 259,929,786	\$ 16,017,721	\$ 16,017,721	\$ 24,700,592	\$ 13,676,119	\$ 13,676,119	\$ 20,823,578	\$ 11,529,599	\$ 11,529,599	\$ 20,823,578	\$ 11,529,599	\$ 11,529,599	
21	15,053	\$ 27,188,276	\$ 14,615,038	\$ 228,929,786	\$ 15,551,186	\$ 15,551,186	\$ 259,929,786	\$ 15,551,186	\$ 15,551,186	\$ 24,700,592	\$ 13,277,785	\$ 13,277,785	\$ 20,823,578	\$ 11,193,699	\$ 11,193,699	\$ 20,823,578	\$ 11,193,699	\$ 11,193,699	
22	14,615	\$ 27,188,276	\$ 14,189,357	\$ 228,929,786	\$ 15,098,238	\$ 15,098,238	\$ 259,929,786	\$ 15,098,238	\$ 15,098,238	\$ 24,700,592	\$ 12,891,054	\$ 12,891,054	\$ 20,823,578	\$ 10,867,669	\$ 10,867,669	\$ 20,823,578	\$ 10,867,669	\$ 10,867,669	
23	14,189	\$ 27,188,276	\$ 13,776,075	\$ 228,929,786	\$ 14,658,484	\$ 14,658,484	\$ 259,929,786	\$ 14,658,484	\$ 14,658,484	\$ 24,700,592	\$ 12,515,586	\$ 12,515,586	\$ 20,823,578	\$ 10,551,135	\$ 10,551,135	\$ 20,823,578	\$ 10,551,135	\$ 10,551,135	
24	13,776	\$ 27,188,276	\$ 13,374,830	\$ 228,929,786	\$ 14,231,538	\$ 14,231,538	\$ 259,929,786	\$ 14,231,538	\$ 14,231,538	\$ 24,700,592	\$ 12,151,054	\$ 12,151,054	\$ 20,823,578	\$ 10,243,821	\$ 10,243,821	\$ 20,823,578	\$ 10,243,821	\$ 10,243,821	
25	13,375	\$ 27,188,276	\$ 12,985,272	\$ 228,929,786	\$ 13,817,027	\$ 13,817,027	\$ 259,929,786	\$ 13,817,027	\$ 13,817,027	\$ 24,700,592	\$ 11,797,140	\$ 11,797,140	\$ 20,823,578	\$ 9,945,457	\$ 9,945,457	\$ 20,823,578	\$ 9,945,457	\$ 9,945,457	
26	12,985	\$ 27,188,276	\$ 12,607,060	\$ 228,929,786	\$ 13,414,589	\$ 13,414,589	\$ 259,929,786	\$ 13,414,589	\$ 13,414,589	\$ 24,700,592	\$ 11,453,534	\$ 11,453,534	\$ 20,823,578	\$ 9,655,783	\$ 9,655,783	\$ 20,823,578	\$ 9,655,783	\$ 9,655,783	
27	12,607	\$ 27,188,276	\$ 12,239,864	\$ 228,929,786	\$ 13,023,873	\$ 13,023,873	\$ 259,929,786	\$ 13,023,873	\$ 13,023,873	\$ 24,700,592	\$ 11,119,936	\$ 11,119,936	\$ 20,823,578	\$ 9,374,547	\$ 9,374,547	\$ 20,823,578	\$ 9,374,547	\$ 9,374,547	
28	12,240	\$ 27,188,276	\$ 11,883,363	\$ 228,929,786	\$ 12,644,537	\$ 12,644,537	\$ 259,929,786	\$ 12,644,537	\$ 12,644,537	\$ 24,700,592	\$ 10,796,054	\$ 10,796,054	\$ 20,823,578	\$ 9,101,502	\$ 9,101,502	\$ 20,823,578	\$ 9,101,502	\$ 9,101,502	
29	11,883	\$ 27,188,276	\$ 11,537,246	\$ 228,929,786	\$ 12,276,249	\$ 12,276,249	\$ 259,929,786	\$ 12,276,249	\$ 12,276,249	\$ 24,700,592	\$ 10,481,606	\$ 10,481,606	\$ 20,823,578	\$ 8,836,410	\$ 8,836,410	\$ 20,823,578	\$ 8,836,410	\$ 8,836,410	
30	11,537	\$ 27,188,276	\$ 11,201,210	\$ 228,929,786	\$ 11,918,689	\$ 11,918,689	\$ 259,929,786	\$ 11,918,689	\$ 11,918,689	\$ 24,700,592	\$ 10,176,317	\$ 10,176,317	\$ 20,823,578	\$ 8,579,039	\$ 8,579,039	\$ 20,823,578	\$ 8,579,039	\$ 8,579,039	
31	11,201	\$ 27,188,276	\$ 10,874,961	\$ 228,929,786	\$ 11,571,543	\$ 11,571,543	\$ 259,929,786	\$ 11,571,543	\$ 11,571,543	\$ 24,700,592	\$ 9,879,919	\$ 9,879,919	\$ 20,823,578	\$ 8,329,164	\$ 8,329,164	\$ 20,823,578	\$ 8,329,164	\$ 8,329,164	
32	10,875	\$ 27,188,276	\$ 10,558,215	\$ 228,929,786	\$ 11,234,507	\$ 11,234,507	\$ 259,929,786	\$ 11,234,507	\$ 11,234,507	\$ 24,700,592	\$ 9,592,155	\$ 9,592,155	\$ 20,823,578	\$ 8,086,567	\$ 8,086,567	\$ 20,823,578	\$ 8,086,567	\$ 8,086,567	
33	10,558	\$ 5,040,000	\$ 1,900,212	\$ 228,929,786	\$ 10,907,289	\$ 10,907,289	\$ 259,929,786	\$ 10,907,289	\$ 10,907,289	\$ 5,040,000	\$ 1,900,212	\$ 1,900,212	\$ 20,823,578	\$ 7,851,036	\$ 7,851,036	\$ 20,823,578	\$ 7,851,036	\$ 7,851,036	
34	10,251	\$ -	\$ -	\$ 228,929,786	\$ 10,589,601	\$ 10,589,601	\$ 259,929,786	\$ 10,589,601	\$ 10,589,601	\$ -	\$ -	\$ -	\$ 5,040,000	\$ 1,844,866	\$ 1,844,866	\$ 5,040,000	\$ 1,844,866	\$ 1,844,866	
35	9,952	\$ -	\$ -	\$ 228,929,786	\$ 10,281,166	\$ 10,281,166	\$ 259,929,786	\$ 10,281,166	\$ 10,281,166	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
36	9,662	\$ -	\$ -	\$ 228,929,786	\$ 1,738,963	\$ 1,738,963	\$ 259,929,786	\$ 1,738,963	\$ 1,738,963	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total PV costs		\$ 964,112,695			\$ 1,675,907,971			\$ 1,621,492,652			\$ 948,128,700			\$ 1,388,763,165			\$ 1,472,885,073		
Unit cost		\$ 1,863			\$ 3,540			\$ 3,228			\$ 1,833			\$ 2,765			\$ 2,932		

Table D.2.1 Life cycle cost analysis, 25 MGD facility, 3% discount rate, 30-year project life

CCC-Poseidon ISTAP Draft Phase 2 Report; for Public Review

Year	PV water production	Low cost estimate									High cost estimate								
		Open Ocean			SIG Trestle			SIG Float-in			Open Ocean			SIG Trestle			SIG Float-in		
		Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total
0	28003.5	\$ 228,779,178		\$ 228,779,178	\$ 249,355,203		\$ 249,355,203	\$ 299,521,008		\$ 299,521,008	\$ 243,966,986		\$ 243,966,986	\$ 298,077,664		\$ 298,077,664	\$ 298,472,897		\$ 298,472,897
1	26171.4953	\$ 224,667,758		\$ 209,969,868	\$ 244,874,009		\$ 228,854,214	\$ 294,138,278		\$ 274,895,587	\$ 239,582,624		\$ 223,908,994	\$ 292,720,872		\$ 273,570,908	\$ 293,109,002		\$ 273,933,647
2	24459.3414	\$ 13,789,389		\$ 12,044,186	\$ 240,473,347		\$ 210,038,734	\$ 288,852,281		\$ 252,294,769	\$ 14,116,623		\$ 12,330,005	\$ 287,460,348		\$ 251,079,000	\$ 287,841,502		\$ 251,411,916
3	22859.1976		\$ 27,188,276	\$ 22,193,732	\$ 236,151,769		\$ 192,770,188	\$ 265,932,450		\$ 217,080,094		\$ 20,163,041	\$ 175,022,504		\$ 142,870,498	\$ 265,708,546		\$ 216,897,322	
4	21363.7361		\$ 27,188,276	\$ 20,741,806	\$ 231,907,856		\$ 176,921,393		\$ 28,929,786	\$ 22,070,395		\$ 24,700,592		\$ 18,843,963		\$ 15,886,208		\$ 15,886,208	
5	19966.1085		\$ 27,188,276	\$ 19,384,865	\$ 56,935,052		\$ 40,593,906		\$ 28,929,786	\$ 20,626,538		\$ 24,700,592		\$ 17,611,181		\$ 14,846,924		\$ 14,846,924	
6	18659.9145		\$ 27,188,276	\$ 18,116,696		\$ 28,929,786	\$ 19,277,138		\$ 28,929,786	\$ 19,277,138		\$ 24,700,592		\$ 16,459,047		\$ 13,875,629		\$ 13,875,629	
7	17439.1724		\$ 27,188,276	\$ 16,931,492		\$ 28,929,786	\$ 18,016,017		\$ 28,929,786	\$ 18,016,017		\$ 24,700,592		\$ 15,382,287		\$ 12,967,878		\$ 12,967,878	
8	16298.292		\$ 27,188,276	\$ 15,823,824		\$ 28,929,786	\$ 16,837,399		\$ 28,929,786	\$ 16,837,399		\$ 24,700,592		\$ 14,375,969		\$ 12,119,512		\$ 12,119,512	
9	15232.0486		\$ 27,188,276	\$ 14,788,621		\$ 28,929,786	\$ 15,735,887		\$ 28,929,786	\$ 15,735,887		\$ 24,700,592		\$ 13,435,485		\$ 11,326,647		\$ 11,326,647	
10	14235.5594		\$ 27,188,276	\$ 13,821,141		\$ 28,929,786	\$ 14,706,436		\$ 28,929,786	\$ 14,706,436		\$ 24,700,592		\$ 12,556,528		\$ 10,585,651		\$ 10,585,651	
11	13304.2611		\$ 27,188,276	\$ 12,916,954		\$ 28,929,786	\$ 13,744,333		\$ 28,929,786	\$ 13,744,333		\$ 24,700,592		\$ 11,735,073		\$ 9,893,132		\$ 9,893,132	
12	12433.8889		\$ 27,188,276	\$ 12,071,920		\$ 28,929,786	\$ 12,845,171		\$ 28,929,786	\$ 12,845,171		\$ 24,700,592		\$ 10,967,358		\$ 9,245,918		\$ 9,245,918	
13	11620.4569		\$ 27,188,276	\$ 11,282,168		\$ 28,929,786	\$ 12,004,833		\$ 28,929,786	\$ 12,004,833		\$ 24,700,592		\$ 10,249,867		\$ 8,641,045		\$ 8,641,045	
14	10860.2401		\$ 27,188,276	\$ 10,544,082		\$ 28,929,786	\$ 11,219,470		\$ 28,929,786	\$ 11,219,470		\$ 24,700,592		\$ 9,579,315		\$ 8,075,743		\$ 8,075,743	
15	10149.7571		\$ 27,188,276	\$ 9,854,282		\$ 28,929,786	\$ 10,485,486		\$ 28,929,786	\$ 10,485,486		\$ 24,700,592		\$ 8,952,631		\$ 7,547,423		\$ 7,547,423	
16	9485.75431		\$ 27,188,276	\$ 9,209,610		\$ 28,929,786	\$ 9,799,519		\$ 28,929,786	\$ 9,799,519		\$ 24,700,592		\$ 8,366,945		\$ 7,053,666		\$ 7,053,666	
17	8865.19094		\$ 27,188,276	\$ 8,607,112		\$ 28,929,786	\$ 9,158,429		\$ 28,929,786	\$ 9,158,429		\$ 24,700,592		\$ 7,819,575		\$ 6,592,212		\$ 6,592,212	
18	8285.22518		\$ 27,188,276	\$ 8,044,030		\$ 28,929,786	\$ 8,559,280		\$ 28,929,786	\$ 8,559,280		\$ 24,700,592		\$ 7,308,014		\$ 6,160,945		\$ 6,160,945	
19	7743.2011		\$ 27,188,276	\$ 7,517,785		\$ 28,929,786	\$ 7,999,327		\$ 28,929,786	\$ 7,999,327		\$ 24,700,592		\$ 6,829,919		\$ 5,757,893		\$ 5,757,893	
20	7236.63655		\$ 27,188,276	\$ 7,025,967		\$ 28,929,786	\$ 7,476,006		\$ 28,929,786	\$ 7,476,006		\$ 24,700,592		\$ 6,383,102		\$ 5,381,208		\$ 5,381,208	
21	6763.21172		\$ 27,188,276	\$ 6,566,325		\$ 28,929,786	\$ 6,986,922		\$ 28,929,786	\$ 6,986,922		\$ 24,700,592		\$ 5,965,516		\$ 5,029,167		\$ 5,029,167	
22	6320.75862		\$ 27,188,276	\$ 6,136,752		\$ 28,929,786	\$ 6,529,834		\$ 28,929,786	\$ 6,529,834		\$ 24,700,592		\$ 5,575,249		\$ 4,700,156		\$ 4,700,156	
23	5907.25105		\$ 27,188,276	\$ 5,735,282		\$ 28,929,786	\$ 6,102,648		\$ 28,929,786	\$ 6,102,648		\$ 24,700,592		\$ 5,210,513		\$ 4,392,669		\$ 4,392,669	
24	5520.79537		\$ 27,188,276	\$ 5,360,077		\$ 28,929,786	\$ 5,703,410		\$ 28,929,786	\$ 5,703,410		\$ 24,700,592		\$ 4,869,638		\$ 4,105,298		\$ 4,105,298	
25	5159.62184		\$ 27,188,276	\$ 5,009,418		\$ 28,929,786	\$ 5,330,289		\$ 28,929,786	\$ 5,330,289		\$ 24,700,592		\$ 4,551,064		\$ 3,836,727		\$ 3,836,727	
26	4822.07649		\$ 27,188,276	\$ 4,681,699		\$ 28,929,786	\$ 4,981,579		\$ 28,929,786	\$ 4,981,579		\$ 24,700,592		\$ 4,253,331		\$ 3,585,726		\$ 3,585,726	
27	4506.61354		\$ 27,188,276	\$ 4,375,419		\$ 28,929,786	\$ 4,655,681		\$ 28,929,786	\$ 4,655,681		\$ 24,700,592		\$ 3,975,075		\$ 3,351,146		\$ 3,351,146	
28	4211.78836		\$ 27,188,276	\$ 4,089,177		\$ 28,929,786	\$ 4,351,104		\$ 28,929,786	\$ 4,351,104		\$ 24,700,592		\$ 3,715,024		\$ 3,131,912		\$ 3,131,912	
29	3936.2508		\$ 27,188,276	\$ 3,821,661		\$ 28,929,786	\$ 4,066,452		\$ 28,929,786	\$ 4,066,452		\$ 24,700,592		\$ 3,471,985		\$ 2,927,021		\$ 2,927,021	
30	3678.73907		\$ 27,188,276	\$ 3,571,645		\$ 28,929,786	\$ 3,800,423		\$ 28,929,786	\$ 3,800,423		\$ 24,700,592		\$ 3,244,846		\$ 2,735,533		\$ 2,735,533	
31	3438.07389		\$ 27,188,276	\$ 3,337,986		\$ 28,929,786	\$ 3,551,797		\$ 28,929,786	\$ 3,551,797		\$ 24,700,592		\$ 3,032,566		\$ 2,556,573		\$ 2,556,573	
32	3213.15317		\$ 27,188,276	\$ 3,119,613		\$ 28,929,786	\$ 3,319,436		\$ 28,929,786	\$ 3,319,436		\$ 24,700,592		\$ 2,834,174		\$ 2,389,321		\$ 2,389,321	
33	3002.94689	\$ 5,040,000		\$ 540,463		\$ 28,929,786	\$ 3,102,277		\$ 28,929,786	\$ 3,102,277	\$ 5,040,000		\$ 540,463		\$ 2,233,010		\$ 2,233,010		
34	2806.49242					\$ 28,929,786	\$ 2,899,324	\$ 5,040,000		\$ 505,105			\$ 505,105	\$ 5,040,000		\$ 505,105	\$ 5,040,000		\$ 505,105
35	2622.89011					\$ 28,929,786	\$ 2,709,649												
36	2451.29917				\$ 5,040,000		\$ 441,179												
Total PV costs				\$ 746,014,836		\$ 1,354,930,371		\$ 1,337,340,079		\$ 748,464,731		\$ 1,177,035,071		\$ 1,252,152,781					
Unit cost				\$ 2,458		\$ 4,469		\$ 4,715		\$ 2,466		\$ 4,149		\$ 4,414					

Table D.2.2 Life cycle cost analysis, 25 MGD facility, 7% discount rate, 30-year project life

CCC-Poseidon ISTAP Draft Phase 2 Report; for Public Review

Year	PV water production	Low cost estimate									High cost estimate								
		Open Ocean			SIG Trestle			SIG Float-in			Open Ocean			SIG Trestle			SIG Float-in		
		Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total
0	28,004	\$ 228,779,178		\$ 228,779,178	\$ 249,355,203		\$ 249,355,203	\$ 299,521,008		\$ 299,521,008	\$ 243,966,986		\$ 243,966,986	\$ 298,077,664		\$ 298,077,664	\$ 298,472,897		\$ 298,472,897
1	27,188	\$ 224,667,758		\$ 218,124,037	\$ 244,874,009		\$ 237,741,756	\$ 294,138,278		\$ 285,571,144	\$ 239,582,624		\$ 232,604,489	\$ 292,720,872		\$ 284,195,021	\$ 293,109,002		\$ 284,571,846
2	26,396	\$ 13,789,389		\$ 12,997,822	\$ 240,473,347		\$ 226,669,193	\$ 288,852,281		\$ 272,270,979	\$ 14,116,623		\$ 13,306,271	\$ 287,460,348		\$ 270,958,948	\$ 287,841,502		\$ 271,318,223
3	25,627		\$ 27,188,276	\$ 24,881,124	\$ 236,151,769		\$ 216,112,322	\$ 265,932,450		\$ 243,365,863		\$ 24,700,592	\$ 22,604,541		\$ 160,170,384		\$ 265,708,546		\$ 243,160,959
4	24,881		\$ 27,188,276	\$ 24,156,431	\$ 231,907,856		\$ 206,047,126		\$ 28,929,786	\$ 25,703,740		\$ 24,700,592	\$ 21,946,156		\$ 20,823,578	\$ 18,501,480		\$ 20,823,578	\$ 18,501,480
5	24,156		\$ 27,188,276	\$ 23,452,846	\$ 56,935,052		\$ 49,112,676		\$ 28,929,786	\$ 24,955,088		\$ 24,700,592	\$ 21,306,947		\$ 20,823,578	\$ 17,962,602		\$ 20,823,578	\$ 17,962,602
6	23,452		\$ 27,188,276	\$ 22,769,753		\$ 28,929,786	\$ 24,228,240		\$ 28,929,786	\$ 24,228,240		\$ 24,700,592	\$ 20,686,357		\$ 20,823,578	\$ 17,439,419		\$ 20,823,578	\$ 17,439,419
7	22,769		\$ 27,188,276	\$ 22,106,557		\$ 28,929,786	\$ 23,522,563		\$ 28,929,786	\$ 23,522,563		\$ 24,700,592	\$ 20,083,842		\$ 20,823,578	\$ 16,931,475		\$ 20,823,578	\$ 16,931,475
8	22,106		\$ 27,188,276	\$ 21,462,676		\$ 28,929,786	\$ 22,837,440		\$ 28,929,786	\$ 22,837,440		\$ 24,700,592	\$ 19,498,875		\$ 20,823,578	\$ 16,438,325		\$ 20,823,578	\$ 16,438,325
9	21,462		\$ 27,188,276	\$ 20,837,550		\$ 28,929,786	\$ 22,172,272		\$ 28,929,786	\$ 22,172,272		\$ 24,700,592	\$ 18,930,947		\$ 20,823,578	\$ 15,959,539		\$ 20,823,578	\$ 15,959,539
10	20,837		\$ 27,188,276	\$ 20,230,631		\$ 28,929,786	\$ 21,526,478		\$ 28,929,786	\$ 21,526,478		\$ 24,700,592	\$ 18,379,560		\$ 20,823,578	\$ 15,494,698		\$ 20,823,578	\$ 15,494,698
11	20,230		\$ 27,188,276	\$ 19,641,389		\$ 28,929,786	\$ 20,899,493		\$ 28,929,786	\$ 20,899,493		\$ 24,700,592	\$ 17,844,233		\$ 20,823,578	\$ 15,043,396		\$ 20,823,578	\$ 15,043,396
12	19,641		\$ 27,188,276	\$ 19,069,310		\$ 28,929,786	\$ 20,290,770		\$ 28,929,786	\$ 20,290,770		\$ 24,700,592	\$ 17,324,498		\$ 20,823,578	\$ 14,605,239		\$ 20,823,578	\$ 14,605,239
13	19,069		\$ 27,188,276	\$ 18,513,893		\$ 28,929,786	\$ 19,699,777		\$ 28,929,786	\$ 19,699,777		\$ 24,700,592	\$ 16,819,901		\$ 20,823,578	\$ 14,179,844		\$ 20,823,578	\$ 14,179,844
14	18,514		\$ 27,188,276	\$ 17,974,653		\$ 28,929,786	\$ 19,125,997		\$ 28,929,786	\$ 19,125,997		\$ 24,700,592	\$ 16,330,001		\$ 20,823,578	\$ 13,766,838		\$ 20,823,578	\$ 13,766,838
15	17,974		\$ 27,188,276	\$ 17,451,120		\$ 28,929,786	\$ 18,568,929		\$ 28,929,786	\$ 18,568,929		\$ 24,700,592	\$ 15,854,370		\$ 20,823,578	\$ 13,365,863		\$ 20,823,578	\$ 13,365,863
16	17,451		\$ 27,188,276	\$ 16,942,835		\$ 28,929,786	\$ 18,028,086		\$ 28,929,786	\$ 18,028,086		\$ 24,700,592	\$ 15,392,592		\$ 20,823,578	\$ 12,976,566		\$ 20,823,578	\$ 12,976,566
17	16,943		\$ 27,188,276	\$ 16,449,354		\$ 28,929,786	\$ 17,502,996		\$ 28,929,786	\$ 17,502,996		\$ 24,700,592	\$ 14,944,264		\$ 20,823,578	\$ 12,598,607		\$ 20,823,578	\$ 12,598,607
18	16,449		\$ 27,188,276	\$ 15,970,247		\$ 28,929,786	\$ 16,993,200		\$ 28,929,786	\$ 16,993,200		\$ 24,700,592	\$ 14,508,994		\$ 20,823,578	\$ 12,231,658		\$ 20,823,578	\$ 12,231,658
19	15,970		\$ 27,188,276	\$ 15,505,094		\$ 28,929,786	\$ 16,498,253		\$ 28,929,786	\$ 16,498,253		\$ 24,700,592	\$ 14,086,402		\$ 20,823,578	\$ 11,875,396		\$ 20,823,578	\$ 11,875,396
20	15,505		\$ 27,188,276	\$ 15,053,489		\$ 28,929,786	\$ 16,017,721		\$ 28,929,786	\$ 16,017,721		\$ 24,700,592	\$ 13,676,119		\$ 20,823,578	\$ 11,529,510		\$ 20,823,578	\$ 11,529,510
21	15,053		\$ 27,188,276	\$ 14,615,038		\$ 28,929,786	\$ 15,551,186		\$ 28,929,786	\$ 15,551,186		\$ 24,700,592	\$ 13,277,785		\$ 20,823,578	\$ 11,193,699		\$ 20,823,578	\$ 11,193,699
22	14,615		\$ 27,188,276	\$ 14,189,357		\$ 28,929,786	\$ 15,098,238		\$ 28,929,786	\$ 15,098,238		\$ 24,700,592	\$ 12,891,054		\$ 20,823,578	\$ 10,867,669		\$ 20,823,578	\$ 10,867,669
23	14,189		\$ 27,188,276	\$ 13,776,075		\$ 28,929,786	\$ 14,658,484		\$ 28,929,786	\$ 14,658,484		\$ 24,700,592	\$ 12,515,586		\$ 20,823,578	\$ 10,551,135		\$ 20,823,578	\$ 10,551,135
24	13,776		\$ 27,188,276	\$ 13,374,830		\$ 28,929,786	\$ 14,231,538		\$ 28,929,786	\$ 14,231,538		\$ 24,700,592	\$ 12,151,054		\$ 20,823,578	\$ 10,243,821		\$ 20,823,578	\$ 10,243,821
25	13,375		\$ 27,188,276	\$ 12,985,272		\$ 28,929,786	\$ 13,817,027		\$ 28,929,786	\$ 13,817,027		\$ 24,700,592	\$ 11,797,140		\$ 20,823,578	\$ 9,945,457		\$ 20,823,578	\$ 9,945,457
26	12,985		\$ 27,188,276	\$ 12,607,060		\$ 28,929,786	\$ 13,414,589		\$ 28,929,786	\$ 13,414,589		\$ 24,700,592	\$ 11,453,534		\$ 20,823,578	\$ 9,655,783		\$ 20,823,578	\$ 9,655,783
27	12,607		\$ 27,188,276	\$ 12,239,864		\$ 28,929,786	\$ 13,023,873		\$ 28,929,786	\$ 13,023,873		\$ 24,700,592	\$ 11,119,936		\$ 20,823,578	\$ 9,374,547		\$ 20,823,578	\$ 9,374,547
28	12,240		\$ 27,188,276	\$ 11,883,363		\$ 28,929,786	\$ 12,644,537		\$ 28,929,786	\$ 12,644,537		\$ 24,700,592	\$ 10,796,054		\$ 20,823,578	\$ 9,101,502		\$ 20,823,578	\$ 9,101,502
29	11,883		\$ 27,188,276	\$ 11,537,246		\$ 28,929,786	\$ 12,276,249		\$ 28,929,786	\$ 12,276,249		\$ 24,700,592	\$ 10,481,606		\$ 20,823,578	\$ 8,836,410		\$ 20,823,578	\$ 8,836,410
30	11,537		\$ 27,188,276	\$ 11,201,210		\$ 28,929,786	\$ 11,918,689		\$ 28,929,786	\$ 11,918,689		\$ 24,700,592	\$ 10,176,317		\$ 20,823,578	\$ 8,579,039		\$ 20,823,578	\$ 8,579,039
31	11,201		\$ 27,188,276	\$ 10,874,961		\$ 28,929,786	\$ 11,571,543		\$ 28,929,786	\$ 11,571,543		\$ 24,700,592	\$ 9,979,919		\$ 20,823,578	\$ 8,329,164		\$ 20,823,578	\$ 8,329,164
32	10,875		\$ 27,188,276	\$ 10,558,215		\$ 28,929,786	\$ 11,234,507		\$ 28,929,786	\$ 11,234,507		\$ 24,700,592	\$ 9,592,155		\$ 20,823,578	\$ 8,086,567		\$ 20,823,578	\$ 8,086,567
33	10,558		\$ 27,188,276	\$ 10,250,694		\$ 28,929,786	\$ 10,907,289		\$ 28,929,786	\$ 10,907,289		\$ 24,700,592	\$ 9,312,771		\$ 20,823,578	\$ 7,851,036		\$ 20,823,578	\$ 7,851,036
34	10,251		\$ 27,188,276	\$ 9,952,130		\$ 28,929,786	\$ 10,589,601		\$ 28,929,786	\$ 10,589,601		\$ 24,700,592	\$ 9,041,526		\$ 20,823,578	\$ 7,622,365		\$ 20,823,578	\$ 7,622,365
35	9,952		\$ 27,188,276	\$ 9,662,262		\$ 28,929,786	\$ 10,281,166		\$ 28,929,786	\$ 10,281,166		\$ 24,700,592	\$ 8,778,180		\$ 20,823,578	\$ 7,400,354		\$ 20,823,578	\$ 7,400,354
36	9,662		\$ 27,188,276	\$ 9,380,837		\$ 28,929,786	\$ 9,981,714		\$ 28,929,786	\$ 9,981,714		\$ 24,700,592	\$ 8,522,505		\$ 20,823,578	\$ 7,184,810		\$ 20,823,578	\$ 7,184,810
37	9,381		\$ 27,188,276	\$ 9,107,609		\$ 28,929,786	\$ 9,690,985		\$ 28,929,786	\$ 9,690,985		\$ 24,700,592	\$ 8,274,277		\$ 20,823,578	\$ 6,975,543		\$ 20,823,578	\$ 6,975,543
38	9,107		\$ 27,188,276	\$ 8,842,338		\$ 28,929,786	\$ 9,408,723		\$ 28,929,786	\$ 9,408,723		\$ 24,700,592	\$ 8,033,278		\$ 20,823,578	\$ 6,772,372		\$ 20,823,578	\$ 6,772,372
39	8,842		\$ 27,188,276	\$ 8,584,795		\$ 28,929,786	\$ 9,134,683		\$ 28,929,786	\$ 9,134,683		\$ 24,700,592	\$ 7,799,299		\$ 20,823,578	\$ 6,575,119		\$ 20,823,578	\$ 6,575,119
40	8,585		\$ 27,188,276	\$ 8,334,752		\$ 28,929,786	\$ 8,868,624		\$ 28,929,786	\$ 8,868,624		\$ 24,700,592	\$ 7,572,135		\$ 20,823,578	\$ 6,383,610		\$ 20,823,578	\$ 6,383,610
41	8,335		\$ 27,188,276	\$ 8,091,992		\$ 28,929,786	\$ 8,610,314		\$ 28,929,786	\$ 8,610,314		\$ 24,700,592	\$ 7,351,588		\$ 20,823,578	\$ 6,197,680		\$ 20,823,578	\$ 6,197,680
42	8,092		\$ 27,188,276	\$ 7,856,303		\$ 28,929,786	\$ 8,359,529		\$ 28,929,786	\$ 8,359,529		\$ 24,700,592	\$ 7,137,464		\$ 20,823,578	\$ 6,017,165		\$ 20,823,578	\$ 6,017,165
43	7,856		\$ 27,188,276	\$ 7,627,479		\$ 28,929,786	\$ 8,116,047		\$ 28,929,786	\$ 8,116,047		\$ 24,700,592	\$ 6,929,577		\$ 20,823,578	\$ 5,841,908		\$ 20,823,578	\$ 5,841,908
44	7,627		\$ 27,188,276	\$ 7,405,319		\$ 28,929,786	\$ 7,879,657		\$ 28,929,786	\$ 7,879,657		\$ 24,700,592	\$ 6,727,744		\$ 20,823,578	\$ 5,671,755		\$ 20,823,578	\$ 5,671,755
45	7,405		\$ 27,188,276	\$ 7,189,630		\$ 28,929,786	\$ 7,650,153		\$ 28,929,786	\$ 7,650,153		\$ 24,700,592	\$ 6,531,791		\$ 20,823,578	\$ 5,506,558		\$ 20,823,578	\$ 5,506,558
46	7,190		\$ 27,188,276	\$ 6,980,224		\$ 28,929,786</													

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Year	PV water production	Low cost estimate									High cost estimate								
		Open Ocean			SIG Trestle			SIG Float-in			Open Ocean			SIG Trestle			SIG Float-in		
		Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total
0	28,004	\$ 228,779,178		\$ 228,779,178	\$ 249,355,203		\$ 249,355,203	\$ 299,521,008		\$ 299,521,008	\$ 243,966,986		\$ 243,966,986	\$ 298,077,664		\$ 298,077,664	\$ 298,472,897		\$ 298,472,897
1	26,171	\$ 224,667,758		\$ 224,667,758	\$ 244,874,009		\$ 244,874,009	\$ 274,895,587		\$ 274,895,587	\$ 223,908,994		\$ 223,908,994	\$ 292,720,872		\$ 292,720,872	\$ 293,933,647		\$ 293,933,647
2	24,459	\$ 13,789,389		\$ 12,044,186	\$ 240,473,347		\$ 210,038,734	\$ 288,852,281		\$ 252,294,769	\$ 14,116,623		\$ 12,330,005	\$ 287,460,348		\$ 251,079,000	\$ 287,841,502		\$ 251,411,916
3	22,859		\$ 27,188,276	\$ 22,193,732	\$ 236,151,769		\$ 192,770,188	\$ 265,932,450		\$ 217,080,094		\$ 24,700,592	\$ 20,163,041	\$ 175,022,504		\$ 142,870,498	\$ 265,708,546		\$ 216,897,322
4	21,364		\$ 27,188,276	\$ 20,741,806	\$ 231,907,856		\$ 176,921,393		\$ 176,921,393	\$ 28,929,786		\$ 22,070,395		\$ 20,823,578		\$ 15,886,208		\$ 20,823,578	\$ 15,886,208
5	19,966		\$ 27,188,276	\$ 19,384,865	\$ 56,935,052		\$ 40,593,906		\$ 40,593,906	\$ 28,929,786		\$ 20,626,538		\$ 24,700,592		\$ 14,846,924		\$ 20,823,578	\$ 14,846,924
6	18,660		\$ 27,188,276	\$ 18,116,696		\$ 28,929,786		\$ 19,277,138		\$ 19,277,138	\$ 28,929,786		\$ 16,459,047		\$ 20,823,578		\$ 13,875,629		\$ 20,823,578
7	17,439		\$ 27,188,276	\$ 16,931,492		\$ 28,929,786		\$ 18,016,017		\$ 18,016,017	\$ 28,929,786		\$ 15,382,287		\$ 20,823,578		\$ 12,967,878		\$ 20,823,578
8	16,298		\$ 27,188,276	\$ 15,823,824		\$ 28,929,786		\$ 16,837,399		\$ 16,837,399	\$ 28,929,786		\$ 14,375,969		\$ 20,823,578		\$ 12,119,512		\$ 20,823,578
9	15,232		\$ 27,188,276	\$ 14,788,621		\$ 28,929,786		\$ 15,735,887		\$ 15,735,887	\$ 28,929,786		\$ 13,435,485		\$ 20,823,578		\$ 11,326,647		\$ 20,823,578
10	14,236		\$ 27,188,276	\$ 13,821,141		\$ 28,929,786		\$ 14,706,436		\$ 14,706,436	\$ 28,929,786		\$ 12,556,528		\$ 20,823,578		\$ 10,585,651		\$ 20,823,578
11	13,304		\$ 27,188,276	\$ 12,916,954		\$ 28,929,786		\$ 13,744,333		\$ 13,744,333	\$ 28,929,786		\$ 11,735,073		\$ 20,823,578		\$ 9,893,132		\$ 20,823,578
12	12,434		\$ 27,188,276	\$ 12,071,920		\$ 28,929,786		\$ 12,845,171		\$ 12,845,171	\$ 28,929,786		\$ 10,967,358		\$ 20,823,578		\$ 9,245,918		\$ 20,823,578
13	11,620		\$ 27,188,276	\$ 11,282,168		\$ 28,929,786		\$ 12,004,833		\$ 12,004,833	\$ 28,929,786		\$ 10,249,867		\$ 20,823,578		\$ 8,641,045		\$ 20,823,578
14	10,860		\$ 27,188,276	\$ 10,544,082		\$ 28,929,786		\$ 11,219,470		\$ 11,219,470	\$ 28,929,786		\$ 9,579,315		\$ 20,823,578		\$ 8,075,743		\$ 20,823,578
15	10,150		\$ 27,188,276	\$ 9,854,282		\$ 28,929,786		\$ 10,485,486		\$ 10,485,486	\$ 28,929,786		\$ 8,952,631		\$ 20,823,578		\$ 7,547,423		\$ 20,823,578
16	9,486		\$ 27,188,276	\$ 9,209,610		\$ 28,929,786		\$ 9,799,519		\$ 9,799,519	\$ 28,929,786		\$ 8,366,945		\$ 20,823,578		\$ 7,053,666		\$ 20,823,578
17	8,865		\$ 27,188,276	\$ 8,607,112		\$ 28,929,786		\$ 9,158,429		\$ 9,158,429	\$ 28,929,786		\$ 7,819,575		\$ 20,823,578		\$ 6,592,212		\$ 20,823,578
18	8,285		\$ 27,188,276	\$ 8,044,030		\$ 28,929,786		\$ 8,559,280		\$ 8,559,280	\$ 28,929,786		\$ 7,308,014		\$ 20,823,578		\$ 6,160,945		\$ 20,823,578
19	7,743		\$ 27,188,276	\$ 7,517,785		\$ 28,929,786		\$ 7,999,327		\$ 7,999,327	\$ 28,929,786		\$ 6,829,919		\$ 20,823,578		\$ 5,757,893		\$ 20,823,578
20	7,237		\$ 27,188,276	\$ 7,025,067		\$ 28,929,786		\$ 7,476,006		\$ 7,476,006	\$ 28,929,786		\$ 6,383,102		\$ 20,823,578		\$ 5,381,208		\$ 20,823,578
21	6,763		\$ 27,188,276	\$ 6,566,325		\$ 28,929,786		\$ 6,986,922		\$ 6,986,922	\$ 28,929,786		\$ 5,965,516		\$ 20,823,578		\$ 5,029,167		\$ 20,823,578
22	6,321		\$ 27,188,276	\$ 6,136,752		\$ 28,929,786		\$ 6,529,834		\$ 6,529,834	\$ 28,929,786		\$ 5,575,249		\$ 20,823,578		\$ 4,700,156		\$ 20,823,578
23	5,907		\$ 27,188,276	\$ 5,735,282		\$ 28,929,786		\$ 6,102,648		\$ 6,102,648	\$ 28,929,786		\$ 5,210,513		\$ 20,823,578		\$ 4,392,669		\$ 20,823,578
24	5,521		\$ 27,188,276	\$ 5,360,077		\$ 28,929,786		\$ 5,703,410		\$ 5,703,410	\$ 28,929,786		\$ 4,869,638		\$ 20,823,578		\$ 4,105,298		\$ 20,823,578
25	5,160		\$ 27,188,276	\$ 5,009,418		\$ 28,929,786		\$ 5,330,289		\$ 5,330,289	\$ 28,929,786		\$ 4,551,064		\$ 20,823,578		\$ 3,836,727		\$ 20,823,578
26	4,822		\$ 27,188,276	\$ 4,681,699		\$ 28,929,786		\$ 4,981,579		\$ 4,981,579	\$ 28,929,786		\$ 4,253,331		\$ 20,823,578		\$ 3,585,726		\$ 20,823,578
27	4,507		\$ 27,188,276	\$ 4,375,419		\$ 28,929,786		\$ 4,655,681		\$ 4,655,681	\$ 28,929,786		\$ 3,975,075		\$ 20,823,578		\$ 3,351,146		\$ 20,823,578
28	4,212		\$ 27,188,276	\$ 4,089,177		\$ 28,929,786		\$ 4,351,104		\$ 4,351,104	\$ 28,929,786		\$ 3,715,024		\$ 20,823,578		\$ 3,131,912		\$ 20,823,578
29	3,936		\$ 27,188,276	\$ 3,821,661		\$ 28,929,786		\$ 4,066,452		\$ 4,066,452	\$ 28,929,786		\$ 3,471,985		\$ 20,823,578		\$ 2,927,021		\$ 20,823,578
30	3,679		\$ 27,188,276	\$ 3,571,645		\$ 28,929,786		\$ 3,800,423		\$ 3,800,423	\$ 28,929,786		\$ 3,244,846		\$ 20,823,578		\$ 2,735,533		\$ 20,823,578
31	3,438		\$ 27,188,276	\$ 3,337,986		\$ 28,929,786		\$ 3,551,797		\$ 3,551,797	\$ 28,929,786		\$ 3,032,566		\$ 20,823,578		\$ 2,556,573		\$ 20,823,578
32	3,213		\$ 27,188,276	\$ 3,119,613		\$ 28,929,786		\$ 3,319,436		\$ 3,319,436	\$ 28,929,786		\$ 2,834,174		\$ 20,823,578		\$ 2,389,321		\$ 20,823,578
33	3,003		\$ 27,188,276	\$ 2,915,527		\$ 28,929,786		\$ 3,102,277		\$ 3,102,277	\$ 28,929,786		\$ 2,648,761		\$ 20,823,578		\$ 2,233,010		\$ 20,823,578
34	2,806		\$ 27,188,276	\$ 2,724,791		\$ 28,929,786		\$ 2,899,324		\$ 2,899,324	\$ 28,929,786		\$ 2,475,477		\$ 20,823,578		\$ 2,086,925		\$ 20,823,578
35	2,623		\$ 27,188,276	\$ 2,546,534		\$ 28,929,786		\$ 2,709,649		\$ 2,709,649	\$ 28,929,786		\$ 2,313,530		\$ 20,823,578		\$ 1,950,398		\$ 20,823,578
36	2,451		\$ 27,188,276	\$ 2,379,938		\$ 28,929,786		\$ 2,532,382		\$ 2,532,382	\$ 28,929,786		\$ 2,162,178		\$ 20,823,578		\$ 1,822,801		\$ 20,823,578
37	2,291		\$ 27,188,276	\$ 2,224,241		\$ 28,929,786		\$ 2,366,712		\$ 2,366,712	\$ 28,929,786		\$ 2,020,727		\$ 20,823,578		\$ 1,703,553		\$ 20,823,578
38	2,141		\$ 27,188,276	\$ 2,078,730		\$ 28,929,786		\$ 2,211,881		\$ 2,211,881	\$ 28,929,786		\$ 1,888,530		\$ 20,823,578		\$ 1,592,105		\$ 20,823,578
39	2,001		\$ 27,188,276	\$ 1,942,738		\$ 28,929,786		\$ 2,067,178		\$ 2,067,178	\$ 28,929,786		\$ 1,764,981		\$ 20,823,578		\$ 1,487,949		\$ 20,823,578
40	1,870		\$ 27,188,276	\$ 1,815,643		\$ 28,929,786		\$ 1,931,942		\$ 1,931,942	\$ 28,929,786		\$ 1,649,515		\$ 20,823,578		\$ 1,390,606		\$ 20,823,578
41	1,748		\$ 27,188,276	\$ 1,696,863		\$ 28,929,786		\$ 1,805,553		\$ 1,805,553	\$ 28,929,786		\$ 1,541,603		\$ 20,823,578		\$ 1,299,632		\$ 20,823,578
42	1,633		\$ 27,188,276	\$ 1,585,853		\$ 28,929,786		\$ 1,687,433		\$ 1,687,433	\$ 28,929,786		\$ 1,440,750		\$ 20,823,578		\$ 1,214,610		\$ 20,823,578
43	1,527		\$ 27,188,276	\$ 1,482,106		\$ 28,929,786		\$ 1,577,040		\$ 1,577,040	\$ 28,929,786		\$ 1,346,496		\$ 20,823,578		\$ 1,135,149		\$ 20,823,578
44	1,427		\$ 27,188,276	\$ 1,385,146		\$ 28,929,786		\$ 1,473,869		\$ 1,473,869	\$ 28,929,786		\$ 1,258,407		\$ 20,823,578		\$ 1,060,887		\$ 20,823,578
45	1,333		\$ 27,188,276	\$ 1,294,529		\$ 28,929,786		\$ 1,377,448		\$ 1,377,448	\$ 28,929,786		\$ 1,176,081		\$ 20,823,578		\$ 991,483		\$ 20,823,578
46	1,246		\$ 27,188,276	\$ 1,209,840		\$ 28,929,786		\$ 1,287,335		\$ 1,287,335	\$ 28,929,786		\$ 1,099,141		\$ 20,823,578		\$ 926,620		\$ 20,823,578
47	1,165		\$ 27,188,276	\$ 1,130,691		\$ 28,929,786		\$ 1,203,116		\$ 1,203,116	\$ 28,929,786		\$ 1,027,235		\$ 20,823,578		\$ 866,000		\$ 20,823,578
48	1,088		\$ 27,188,276	\$ 1,056,721		\$ 28,929,786		\$ 1,124,408		\$ 1,124,408	\$ 28,929,786		\$ 960,033		\$ 20,823,578		\$ 809,346		\$ 20,823,578
49	1,017		\$ 27,188,276	\$ 987,590		\$ 28,929,786		\$ 1,050,849		\$ 1,050,849	\$ 28,929,786		\$ 897,227		\$ 20,823,578		\$ 756,398		\$ 20,823,578
50	951		\$ 27,188,276	\$ 922,981		\$ 28,929,786		\$ 982,101		\$ 982,101	\$ 28,929,786		\$ 838,530		\$ 20,823,578		\$ 706,914		\$ 20,823,578
51	888		\$ 27,188,276	\$ 862,599		\$ 28,929,786		\$ 917,852		\$ 917,852	\$ 28,929,786		\$ 783,673		\$ 20,823,578		\$ 660,667		\$ 20,823,578
52	830		\$ 27,188,276	\$ 806,167		\$ 28,929,786		\$ 857,805		\$ 857,805	\$ 28,929,786		\$ 732,404		\$ 20,823,578		\$ 617,446		\$ 20,823,578
53	776	\$ 5,040,000		\$ 139,666		\$ 28,929,786		\$ 801,687		\$ 801,687	\$ 5,040,000		\$ 139,666		\$ 20,823,578		\$ 577,052		\$ 20,823,578
54	725					\$ 28,929,786		\$ 749,240		\$ 749,240	\$ 5,040,000		\$ 130,529		\$ 20,823,578		\$ 504,000		\$ 20,823,578
55	678					\$ 28,929,786		\$ 700,225		\$ 700,225									
56	633				\$ 5,040,000		\$ 114,009												
Total PV costs				\$ 778,663,269		\$ 1,383,309,260		\$ 1,369,831,068		\$ 778,089,211		\$ 1,200,317,036		\$					

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Year	PV water production	Low cost estimate									High cost estimate									
		Open Ocean			SIG Trestle			SIG Float-in			Open Ocean			SIG Trestle			SIG Float-in			
		Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	
0	56007	\$ 306,400,685		\$ 306,400,685	\$ 333,993,862		\$ 333,993,862	\$ 401,180,208		\$ 401,180,208	\$ 326,345,449		\$ 326,345,449	\$ 398,971,649		\$ 398,971,649	\$ 400,030,290		\$ 400,030,290	
1	54375.7282	\$ 300,894,319		\$ 292,130,407	\$ 327,991,615		\$ 318,438,461	\$ 393,970,547		\$ 382,495,677	\$ 320,480,653		\$ 311,146,265	\$ 391,801,678		\$ 380,389,979	\$ 392,841,294		\$ 381,399,315	
2	52791.9691	\$ 221,615,181		\$ 208,893,563	\$ 322,097,236		\$ 303,607,537	\$ 386,890,452		\$ 364,681,357	\$ 236,040,940		\$ 222,491,225	\$ 384,760,560		\$ 362,673,730	\$ 385,781,493		\$ 363,636,057	
3	51254.3389		\$ 54,376,552	\$ 49,762,248	\$ 316,308,785		\$ 289,467,346	\$ 379,937,594		\$ 347,696,720		\$ 49,401,184	\$ 45,209,081	\$ 377,845,978		\$ 345,782,596	\$ 378,848,564		\$ 346,700,104	
4	49761.4941		\$ 54,376,552	\$ 48,312,862	\$ 310,624,359		\$ 275,985,720	\$ 373,109,686		\$ 331,503,124		\$ 49,401,184	\$ 43,892,312	\$ 307,976,198		\$ 273,632,863	\$ 372,040,228		\$ 330,552,924	
5	48312.1302		\$ 54,376,552	\$ 46,905,692	\$ 305,042,089		\$ 263,131,986	\$ 373,109,686		\$ 291,601,121		\$ 49,401,184	\$ 42,613,895		\$ 307,976,198		\$ 273,632,863	\$ 372,040,228		\$ 330,552,924
6	46904.9808		\$ 54,376,552	\$ 45,539,507	\$ 299,560,138		\$ 250,876,900	\$ 373,109,686		\$ 250,876,900		\$ 49,401,184	\$ 41,372,714		\$ 307,976,198		\$ 273,632,863	\$ 372,040,228		\$ 330,552,924
7	45538.8163		\$ 54,376,552	\$ 44,213,113		\$ 57,859,572	\$ 47,045,127	\$ 57,859,572		\$ 48,456,481		\$ 49,401,184	\$ 40,167,683		\$ 307,976,198	\$ 41,647,157	\$ 35,925,203	\$ 100,007,572		\$ 86,267,411
8	44212.4443		\$ 54,376,552	\$ 42,925,353		\$ 57,859,572	\$ 45,674,880	\$ 57,859,572		\$ 45,674,880		\$ 49,401,184	\$ 38,997,751		\$ 307,976,198	\$ 41,647,157	\$ 34,878,838		\$ 34,878,838	
9	42924.7019		\$ 54,376,552	\$ 41,675,100		\$ 57,859,572	\$ 44,344,544	\$ 57,859,572		\$ 44,344,544		\$ 49,401,184	\$ 37,861,894		\$ 307,976,198	\$ 41,647,157	\$ 33,862,950		\$ 33,862,950	
10	41674.4679		\$ 54,376,552	\$ 40,461,262		\$ 57,859,572	\$ 43,052,955	\$ 57,859,572		\$ 43,052,955		\$ 49,401,184	\$ 36,759,120		\$ 307,976,198	\$ 41,647,157	\$ 32,876,650		\$ 32,876,650	
11	40460.6484		\$ 54,376,552	\$ 39,282,778		\$ 57,859,572	\$ 41,798,986	\$ 57,859,572		\$ 41,798,986		\$ 49,401,184	\$ 35,688,466		\$ 307,976,198	\$ 41,647,157	\$ 31,919,078		\$ 31,919,078	
12	39282.1829		\$ 54,376,552	\$ 38,138,620		\$ 57,859,572	\$ 40,581,540	\$ 57,859,572		\$ 40,581,540		\$ 49,401,184	\$ 34,648,996		\$ 307,976,198	\$ 41,647,157	\$ 30,989,396		\$ 30,989,396	
13	38138.0417		\$ 54,376,552	\$ 37,027,786		\$ 57,859,572	\$ 39,399,553	\$ 57,859,572		\$ 39,399,553		\$ 49,401,184	\$ 33,639,802		\$ 307,976,198	\$ 41,647,157	\$ 30,086,792		\$ 30,086,792	
14	37027.2225		\$ 54,376,552	\$ 35,949,307		\$ 57,859,572	\$ 38,251,993	\$ 57,859,572		\$ 38,251,993		\$ 49,401,184	\$ 32,660,002		\$ 307,976,198	\$ 41,647,157	\$ 29,210,478		\$ 29,210,478	
15	35948.7621		\$ 54,376,552	\$ 34,902,240		\$ 57,859,572	\$ 37,137,858	\$ 57,859,572		\$ 37,137,858		\$ 49,401,184	\$ 31,708,740		\$ 307,976,198	\$ 41,647,157	\$ 28,359,687		\$ 28,359,687	
16	34901.7108		\$ 54,376,552	\$ 33,885,670		\$ 57,859,572	\$ 36,056,172	\$ 57,859,572		\$ 36,056,172		\$ 49,401,184	\$ 30,785,184		\$ 307,976,198	\$ 41,647,157	\$ 27,533,677		\$ 27,533,677	
17	33885.1561		\$ 54,376,552	\$ 32,898,708		\$ 57,859,572	\$ 35,005,993	\$ 57,859,572		\$ 35,005,993		\$ 49,401,184	\$ 29,888,529		\$ 307,976,198	\$ 41,647,157	\$ 26,731,725		\$ 26,731,725	
18	32898.2098		\$ 54,376,552	\$ 31,940,494		\$ 57,859,572	\$ 33,986,401	\$ 57,859,572		\$ 33,986,401		\$ 49,401,184	\$ 29,017,989		\$ 307,976,198	\$ 41,647,157	\$ 25,953,131		\$ 25,953,131	
19	31940.0095		\$ 54,376,552	\$ 31,010,188		\$ 57,859,572	\$ 32,996,505	\$ 57,859,572		\$ 32,996,505		\$ 49,401,184	\$ 28,172,805		\$ 307,976,198	\$ 41,647,157	\$ 25,197,215		\$ 25,197,215	
20	31009.718		\$ 54,376,552	\$ 30,106,979		\$ 57,859,572	\$ 32,035,442	\$ 57,859,572		\$ 32,035,442		\$ 49,401,184	\$ 27,352,238		\$ 307,976,198	\$ 41,647,157	\$ 24,463,315		\$ 24,463,315	
21	30106.5223		\$ 54,376,552	\$ 29,230,076		\$ 57,859,572	\$ 31,102,371	\$ 57,859,572		\$ 31,102,371		\$ 49,401,184	\$ 26,555,571		\$ 307,976,198	\$ 41,647,157	\$ 23,750,792		\$ 23,750,792	
22	29229.6333		\$ 54,376,552	\$ 28,378,715		\$ 57,859,572	\$ 30,196,477	\$ 57,859,572		\$ 30,196,477		\$ 49,401,184	\$ 25,782,107		\$ 307,976,198	\$ 41,647,157	\$ 23,059,021		\$ 23,059,021	
23	28378.2848		\$ 54,376,552	\$ 27,552,150		\$ 57,859,572	\$ 29,316,968	\$ 57,859,572		\$ 29,316,968		\$ 49,401,184	\$ 25,031,172		\$ 307,976,198	\$ 41,647,157	\$ 22,387,399		\$ 22,387,399	
24	27551.7328		\$ 54,376,552	\$ 26,749,661		\$ 57,859,572	\$ 28,463,075	\$ 57,859,572		\$ 28,463,075		\$ 49,401,184	\$ 24,302,109		\$ 307,976,198	\$ 41,647,157	\$ 21,735,339		\$ 21,735,339	
25	26749.2551		\$ 54,376,552	\$ 25,970,544		\$ 57,859,572	\$ 27,634,054	\$ 57,859,572		\$ 27,634,054		\$ 49,401,184	\$ 23,594,280		\$ 307,976,198	\$ 41,647,157	\$ 21,102,271		\$ 21,102,271	
26	25970.1506		\$ 54,376,552	\$ 25,214,121		\$ 57,859,572	\$ 26,829,179	\$ 57,859,572		\$ 26,829,179		\$ 49,401,184	\$ 22,907,068		\$ 307,976,198	\$ 41,647,157	\$ 20,487,641		\$ 20,487,641	
27	25213.7384		\$ 54,376,552	\$ 24,479,729		\$ 57,859,572	\$ 26,047,746	\$ 57,859,572		\$ 26,047,746		\$ 49,401,184	\$ 22,239,872		\$ 307,976,198	\$ 41,647,157	\$ 19,890,914		\$ 19,890,914	
28	24479.3577		\$ 54,376,552	\$ 23,766,727		\$ 57,859,572	\$ 25,289,074	\$ 57,859,572		\$ 25,289,074		\$ 49,401,184	\$ 21,592,109		\$ 307,976,198	\$ 41,647,157	\$ 19,311,567		\$ 19,311,567	
29	23766.3667		\$ 54,376,552	\$ 23,074,492		\$ 57,859,572	\$ 24,552,499	\$ 57,859,572		\$ 24,552,499		\$ 49,401,184	\$ 20,963,213		\$ 307,976,198	\$ 41,647,157	\$ 18,749,094		\$ 18,749,094	
30	23074.1424		\$ 54,376,552	\$ 22,402,420		\$ 57,859,572	\$ 23,837,378	\$ 57,859,572		\$ 23,837,378		\$ 49,401,184	\$ 20,352,634		\$ 307,976,198	\$ 41,647,157	\$ 18,203,004		\$ 18,203,004	
31	22402.08		\$ 54,376,552	\$ 21,749,922		\$ 57,859,572	\$ 23,143,085	\$ 57,859,572		\$ 23,143,085		\$ 49,401,184	\$ 19,759,838		\$ 307,976,198	\$ 41,647,157	\$ 17,672,819		\$ 17,672,819	
32	21749.5923		\$ 54,376,552	\$ 21,116,429		\$ 57,859,572	\$ 22,469,015	\$ 57,859,572		\$ 22,469,015		\$ 49,401,184	\$ 19,184,309		\$ 307,976,198	\$ 41,647,157	\$ 17,158,077		\$ 17,158,077	
33	21116.109	\$ 9,000,000		\$ 3,393,236		\$ 57,859,572	\$ 21,814,577	\$ 57,859,572		\$ 21,814,577	\$ 9,000,000		\$ 3,393,236		\$ 307,976,198	\$ 41,647,157	\$ 16,658,327		\$ 16,658,327	
34	20501.0767					\$ 57,859,572	\$ 21,179,201	\$ 57,859,572		\$ 21,179,201					\$ 307,976,198	\$ 41,647,157	\$ 16,173,133		\$ 16,173,133	
35	19903.958					\$ 57,859,572	\$ 20,562,331	\$ 57,859,572		\$ 20,562,331					\$ 307,976,198	\$ 41,647,157	\$ 15,702,071		\$ 15,702,071	
36	19324.231					\$ 57,859,572	\$ 19,963,428	\$ 57,859,572		\$ 19,963,428	\$ 9,000,000				\$ 307,976,198	\$ 41,647,157	\$ 15,244,729		\$ 15,244,729	
37	18761.3893				\$ 9,000,000		\$ 3,014,846	\$ 57,859,572		\$ 3,014,846					\$ 307,976,198	\$ 41,647,157	\$ 14,800,708		\$ 14,800,708	
	Total PV costs		\$ 1,815,440,782		\$ 2,988,285,066		\$ 2,887,939,769		\$ 2,887,939,769		\$ 1,776,077,657		\$ 2,489,923,600		\$ 2,489,923,600		\$ 2,615,841,230		\$ 2,615,841,230	
	Unit cost		\$ 1,754		\$ 3,250		\$ 3,050		\$ 3,050		\$ 1,716		\$ 2,553		\$ 2,553		\$ 2,762		\$ 2,762	

Table D.3.1 Life cycle cost analysis, 50 MGD facility, 3% discount rate, 30-year project life

CCC-Poseidon ISTAP Draft Phase 2 Report; for Public Review

Year	PV water production	Low cost estimate									High cost estimate								
		Open Ocean			SIG Trestle			SIG Float-in			Open Ocean			SIG Trestle			SIG Float-in		
		Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total
0	56007	\$ 306,400,685		\$ 306,400,685	\$ 333,993,862		\$ 333,993,862	\$ 401,180,208		\$ 401,180,208	\$ 326,345,449		\$ 326,345,449	\$ 398,971,649		\$ 398,971,649	\$ 400,030,290		\$ 400,030,290
1	52342.991	\$ 300,894,319		\$ 281,209,644	\$ 327,991,615		\$ 306,534,220	\$ 393,970,547		\$ 368,196,773	\$ 320,480,653		\$ 299,514,629	\$ 391,801,678		\$ 366,169,793	\$ 392,841,294		\$ 367,141,396
2	48918.683	\$ 221,615,181		\$ 193,567,282	\$ 322,097,236		\$ 281,332,200	\$ 386,890,452		\$ 337,925,104	\$ 236,040,940		\$ 206,167,299	\$ 384,760,560		\$ 336,064,774	\$ 385,781,493		\$ 336,956,497
3	45718.395		\$ 54,376,552	\$ 44,387,464	\$ 316,308,785		\$ 258,202,190	\$ 379,937,594		\$ 310,142,251		\$ 49,401,184	\$ 40,326,081	\$ 377,845,978		\$ 308,434,870	\$ 378,848,564		\$ 309,253,279
4	42727.472		\$ 54,376,552	\$ 41,483,611	\$ 310,624,359		\$ 236,973,836	\$ 373,109,686		\$ 284,643,593		\$ 49,401,184	\$ 37,687,926	\$ 307,976,198		\$ 234,953,567	\$ 372,040,228		\$ 283,827,709
5	39932.217		\$ 54,376,552	\$ 38,769,730	\$ 305,042,089		\$ 217,490,794	\$ 91,601,121		\$ 65,310,333		\$ 49,401,184	\$ 35,222,361		\$ 29,693,847	\$ 100,007,572		\$ 71,304,017	
6	37319.829		\$ 54,376,552	\$ 36,233,393	\$ 299,560,138		\$ 199,609,569		\$ 57,859,572	\$ 38,554,276		\$ 49,401,184	\$ 32,918,095		\$ 27,751,259		\$ 41,647,157	\$ 27,751,259	
7	34878.345		\$ 54,376,552	\$ 33,862,984		\$ 57,859,572	\$ 36,032,034		\$ 57,859,572	\$ 36,032,034		\$ 49,401,184	\$ 30,764,574		\$ 25,935,756		\$ 41,647,157	\$ 25,935,756	
8	32596.584		\$ 54,376,552	\$ 31,647,649		\$ 57,859,572	\$ 33,674,798		\$ 57,859,572	\$ 33,674,798		\$ 49,401,184	\$ 28,751,939		\$ 24,239,024		\$ 41,647,157	\$ 24,239,024	
9	30464.097		\$ 54,376,552	\$ 29,577,242		\$ 57,859,572	\$ 31,471,774		\$ 57,859,572	\$ 31,471,774		\$ 49,401,184	\$ 26,870,971		\$ 22,653,294		\$ 41,647,157	\$ 22,653,294	
10	28471.119		\$ 54,376,552	\$ 27,642,282		\$ 57,859,572	\$ 29,412,873		\$ 57,859,572	\$ 29,412,873		\$ 49,401,184	\$ 25,113,057		\$ 21,171,303		\$ 41,647,157	\$ 21,171,303	
11	26608.522		\$ 54,376,552	\$ 25,833,908		\$ 57,859,572	\$ 27,488,666		\$ 57,859,572	\$ 27,488,666		\$ 49,401,184	\$ 23,470,146		\$ 19,786,264		\$ 41,647,157	\$ 19,786,264	
12	24867.778		\$ 54,376,552	\$ 24,143,840		\$ 57,859,572	\$ 25,690,342		\$ 57,859,572	\$ 25,690,342		\$ 49,401,184	\$ 21,934,716		\$ 18,491,836		\$ 41,647,157	\$ 18,491,836	
13	23240.914		\$ 54,376,552	\$ 22,564,336		\$ 57,859,572	\$ 24,009,665		\$ 57,859,572	\$ 24,009,665		\$ 49,401,184	\$ 20,499,735		\$ 17,282,089		\$ 41,647,157	\$ 17,282,089	
14	21720.48		\$ 54,376,552	\$ 21,088,165		\$ 57,859,572	\$ 22,438,940		\$ 57,859,572	\$ 22,438,940		\$ 49,401,184	\$ 19,158,631		\$ 16,151,485		\$ 41,647,157	\$ 16,151,485	
15	20299.514		\$ 54,376,552	\$ 19,708,565		\$ 57,859,572	\$ 20,970,972		\$ 57,859,572	\$ 20,970,972		\$ 49,401,184	\$ 17,905,262		\$ 15,094,846		\$ 41,647,157	\$ 15,094,846	
16	18971.509		\$ 54,376,552	\$ 18,419,220		\$ 57,859,572	\$ 19,599,039		\$ 57,859,572	\$ 19,599,039		\$ 49,401,184	\$ 16,733,890		\$ 14,107,333		\$ 41,647,157	\$ 14,107,333	
17	17730.382		\$ 54,376,552	\$ 17,214,224		\$ 57,859,572	\$ 18,316,859		\$ 57,859,572	\$ 18,316,859		\$ 49,401,184	\$ 15,639,150		\$ 13,184,423		\$ 41,647,157	\$ 13,184,423	
18	16570.45		\$ 54,376,552	\$ 16,088,060		\$ 57,859,572	\$ 17,118,560		\$ 57,859,572	\$ 17,118,560		\$ 49,401,184	\$ 14,616,028		\$ 12,321,891		\$ 41,647,157	\$ 12,321,891	
19	15486.402		\$ 54,376,552	\$ 15,035,570		\$ 57,859,572	\$ 15,998,654		\$ 57,859,572	\$ 15,998,654		\$ 49,401,184	\$ 13,659,839		\$ 11,515,786		\$ 41,647,157	\$ 11,515,786	
20	14473.273		\$ 54,376,552	\$ 14,051,934		\$ 57,859,572	\$ 14,952,013		\$ 57,859,572	\$ 14,952,013		\$ 49,401,184	\$ 12,766,205		\$ 10,762,417		\$ 41,647,157	\$ 10,762,417	
21	13526.423		\$ 54,376,552	\$ 13,132,649		\$ 57,859,572	\$ 13,973,844		\$ 57,859,572	\$ 13,973,844		\$ 49,401,184	\$ 11,931,032		\$ 10,058,333		\$ 41,647,157	\$ 10,058,333	
22	12641.517		\$ 54,376,552	\$ 12,273,504		\$ 57,859,572	\$ 13,059,667		\$ 57,859,572	\$ 13,059,667		\$ 49,401,184	\$ 11,150,498		\$ 9,400,312		\$ 41,647,157	\$ 9,400,312	
23	11814.502		\$ 54,376,552	\$ 11,470,564		\$ 57,859,572	\$ 12,205,296		\$ 57,859,572	\$ 12,205,296		\$ 49,401,184	\$ 10,421,026		\$ 8,785,338		\$ 41,647,157	\$ 8,785,338	
24	11041.591		\$ 54,376,552	\$ 10,720,153		\$ 57,859,572	\$ 11,406,819		\$ 57,859,572	\$ 11,406,819		\$ 49,401,184	\$ 9,739,276		\$ 8,210,596		\$ 41,647,157	\$ 8,210,596	
25	10319.244		\$ 54,376,552	\$ 10,018,835		\$ 57,859,572	\$ 10,660,579		\$ 57,859,572	\$ 10,660,579		\$ 49,401,184	\$ 9,102,127		\$ 7,673,454		\$ 41,647,157	\$ 7,673,454	
26	9644.153		\$ 54,376,552	\$ 9,363,397		\$ 57,859,572	\$ 9,963,158		\$ 57,859,572	\$ 9,963,158		\$ 49,401,184	\$ 8,506,661		\$ 7,171,453		\$ 41,647,157	\$ 7,171,453	
27	9013.2271		\$ 54,376,552	\$ 8,750,839		\$ 57,859,572	\$ 9,311,362		\$ 57,859,572	\$ 9,311,362		\$ 49,401,184	\$ 7,950,151		\$ 6,702,292		\$ 41,647,157	\$ 6,702,292	
28	8423.5767		\$ 54,376,552	\$ 8,178,354		\$ 57,859,572	\$ 8,702,208		\$ 57,859,572	\$ 8,702,208		\$ 49,401,184	\$ 7,430,047		\$ 6,263,825		\$ 41,647,157	\$ 6,263,825	
29	7872.5016		\$ 54,376,552	\$ 7,643,321		\$ 57,859,572	\$ 8,132,904		\$ 57,859,572	\$ 8,132,904		\$ 49,401,184	\$ 6,943,969		\$ 5,854,042		\$ 41,647,157	\$ 5,854,042	
30	7357.4781		\$ 54,376,552	\$ 7,143,291		\$ 57,859,572	\$ 7,600,845		\$ 57,859,572	\$ 7,600,845		\$ 49,401,184	\$ 6,489,691		\$ 5,471,067		\$ 41,647,157	\$ 5,471,067	
31	6876.1478		\$ 54,376,552	\$ 6,675,973		\$ 57,859,572	\$ 7,103,594		\$ 57,859,572	\$ 7,103,594		\$ 49,401,184	\$ 6,065,132		\$ 5,113,147		\$ 41,647,157	\$ 5,113,147	
32	6426.3063		\$ 54,376,552	\$ 6,239,227		\$ 57,859,572	\$ 6,638,873		\$ 57,859,572	\$ 6,638,873		\$ 49,401,184	\$ 5,668,348		\$ 4,778,642		\$ 41,647,157	\$ 4,778,642	
33	6005.8938	\$ 9,000,000		\$ 965,112		\$ 57,859,572	\$ 6,204,554		\$ 57,859,572	\$ 6,204,554	\$ 9,000,000		\$ 965,112		\$ 4,466,020		\$ 41,647,157	\$ 4,466,020	
34	5612.9848					\$ 57,859,572	\$ 5,798,648		\$ 57,859,572	\$ 5,798,648					\$ 4,173,851		\$ 41,647,157	\$ 4,173,851	
35	5245.7802					\$ 57,859,572	\$ 5,419,298		\$ 57,859,572	\$ 5,419,298				\$ 9,000,000	\$ 842,966		\$ 41,647,157	\$ 3,900,795	
36	4902.5983					\$ 57,859,572	\$ 5,064,764	\$ 9,000,000		\$ 787,819						\$ 9,000,000	\$ 41,647,157	\$ 787,819	
37	4581.8676				\$ 9,000,000		\$ 736,280											\$ -	
38	4282.1193																	\$ -	
39	4001.9806																	\$ -	
Total PV costs				\$ 1,371,505,006		\$ 2,313,294,547		\$ 2,280,097,191		\$ 1,368,429,053		\$ 2,039,702,843		\$ 2,137,773,178		\$ 2,137,773,178		\$ 2,137,773,178	
Unit cost				\$ 2,259		\$ 4,995		\$ 4,601		\$ 2,254		\$ 3,847		\$ 4,314		\$ 4,314		\$ 4,314	

Table D.3.2 Life cycle cost analysis, 50 MGD facility, 7% discount rate, 30-year project life

CCC-Poseidon ISTAP Draft Phase 2 Report; for Public Review

Year	PV water production	Low cost estimate									High cost estimate								
		Open Ocean			SIG Trestle			SIG Float-in			Open Ocean			SIG Trestle			SIG Float-in		
		Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total
0	56,007	\$ 306,400,685	\$ 306,400,685	\$ 333,993,862	\$ 333,993,862	\$ 401,180,208	\$ 401,180,208	\$ 326,345,449	\$ 326,345,449	\$ 398,971,649	\$ 398,971,649	\$ 400,030,290	\$ 400,030,290						
1	54,376	\$ 300,894,319	\$ 292,130,407	\$ 327,991,615	\$ 318,438,461	\$ 393,970,547	\$ 382,495,677	\$ 311,146,265	\$ 311,146,265	\$ 391,801,678	\$ 380,389,979	\$ 392,841,294	\$ 381,399,315						
2	52,792	\$ 221,615,181	\$ 208,893,563	\$ 322,097,236	\$ 303,607,537	\$ 386,890,452	\$ 364,681,357	\$ 236,040,940	\$ 236,040,940	\$ 222,491,225	\$ 222,491,225	\$ 384,760,560	\$ 363,673,730						
3	51,254	\$ 54,376,552	\$ 49,762,248	\$ 316,308,785	\$ 289,467,346	\$ 379,937,594	\$ 347,696,720	\$ 49,401,184	\$ 45,209,081	\$ 377,845,978	\$ 345,782,596	\$ 378,848,564	\$ 346,700,104						
4	49,761	\$ 54,376,552	\$ 48,312,862	\$ 310,624,359	\$ 275,985,720	\$ 373,109,686	\$ 331,503,124	\$ 49,401,184	\$ 43,892,312	\$ 307,976,198	\$ 273,532,863	\$ 372,040,228	\$ 330,552,924						
5	48,312	\$ 54,376,552	\$ 46,905,692	\$ 305,042,089	\$ 263,131,986	\$ 91,601,121	\$ 79,015,932	\$ 49,401,184	\$ 42,613,895	\$ 41,647,157	\$ 35,925,203	\$ 100,007,572	\$ 86,267,411						
6	46,905	\$ 54,376,552	\$ 45,539,507	\$ 299,560,138	\$ 250,876,900	\$ 57,859,572	\$ 48,456,481	\$ 49,401,184	\$ 41,372,714	\$ 41,647,157	\$ 34,878,838	\$ 41,647,157	\$ 34,878,838						
7	45,539	\$ 54,376,552	\$ 44,213,113	\$ 57,859,572	\$ 47,045,127	\$ 57,859,572	\$ 47,045,127	\$ 49,401,184	\$ 40,167,683	\$ 41,647,157	\$ 33,862,950	\$ 41,647,157	\$ 33,862,950						
8	44,212	\$ 54,376,552	\$ 42,925,353	\$ 57,859,572	\$ 45,674,880	\$ 57,859,572	\$ 45,674,880	\$ 49,401,184	\$ 38,997,751	\$ 41,647,157	\$ 32,876,650	\$ 41,647,157	\$ 32,876,650						
9	42,925	\$ 54,376,552	\$ 41,675,100	\$ 57,859,572	\$ 44,344,544	\$ 57,859,572	\$ 44,344,544	\$ 49,401,184	\$ 37,861,894	\$ 41,647,157	\$ 31,919,078	\$ 41,647,157	\$ 31,919,078						
10	41,674	\$ 54,376,552	\$ 40,461,262	\$ 57,859,572	\$ 43,052,955	\$ 57,859,572	\$ 43,052,955	\$ 49,401,184	\$ 36,759,120	\$ 41,647,157	\$ 30,989,396	\$ 41,647,157	\$ 30,989,396						
11	40,461	\$ 54,376,552	\$ 39,282,778	\$ 57,859,572	\$ 41,798,986	\$ 57,859,572	\$ 41,798,986	\$ 49,401,184	\$ 35,688,466	\$ 41,647,157	\$ 30,086,792	\$ 41,647,157	\$ 30,086,792						
12	39,282	\$ 54,376,552	\$ 38,138,620	\$ 57,859,572	\$ 40,581,540	\$ 57,859,572	\$ 40,581,540	\$ 49,401,184	\$ 34,648,996	\$ 41,647,157	\$ 29,210,478	\$ 41,647,157	\$ 29,210,478						
13	38,138	\$ 54,376,552	\$ 37,027,786	\$ 57,859,572	\$ 39,399,553	\$ 57,859,572	\$ 39,399,553	\$ 49,401,184	\$ 33,639,802	\$ 41,647,157	\$ 28,359,687	\$ 41,647,157	\$ 28,359,687						
14	37,027	\$ 54,376,552	\$ 35,949,307	\$ 57,859,572	\$ 38,251,993	\$ 57,859,572	\$ 38,251,993	\$ 49,401,184	\$ 32,660,002	\$ 41,647,157	\$ 27,533,677	\$ 41,647,157	\$ 27,533,677						
15	35,949	\$ 54,376,552	\$ 34,902,240	\$ 57,859,572	\$ 37,137,858	\$ 57,859,572	\$ 37,137,858	\$ 49,401,184	\$ 31,708,740	\$ 41,647,157	\$ 26,731,725	\$ 41,647,157	\$ 26,731,725						
16	34,902	\$ 54,376,552	\$ 33,885,670	\$ 57,859,572	\$ 36,056,172	\$ 57,859,572	\$ 36,056,172	\$ 49,401,184	\$ 30,785,184	\$ 41,647,157	\$ 25,953,131	\$ 41,647,157	\$ 25,953,131						
17	33,885	\$ 54,376,552	\$ 32,898,708	\$ 57,859,572	\$ 35,005,993	\$ 57,859,572	\$ 35,005,993	\$ 49,401,184	\$ 29,888,529	\$ 41,647,157	\$ 25,197,215	\$ 41,647,157	\$ 25,197,215						
18	32,898	\$ 54,376,552	\$ 31,940,494	\$ 57,859,572	\$ 33,986,401	\$ 57,859,572	\$ 33,986,401	\$ 49,401,184	\$ 29,017,989	\$ 41,647,157	\$ 24,463,315	\$ 41,647,157	\$ 24,463,315						
19	31,940	\$ 54,376,552	\$ 31,010,188	\$ 57,859,572	\$ 32,996,505	\$ 57,859,572	\$ 32,996,505	\$ 49,401,184	\$ 28,172,805	\$ 41,647,157	\$ 23,750,792	\$ 41,647,157	\$ 23,750,792						
20	31,010	\$ 54,376,552	\$ 30,106,979	\$ 57,859,572	\$ 32,035,442	\$ 57,859,572	\$ 32,035,442	\$ 49,401,184	\$ 27,352,238	\$ 41,647,157	\$ 23,059,021	\$ 41,647,157	\$ 23,059,021						
21	30,107	\$ 54,376,552	\$ 29,230,076	\$ 57,859,572	\$ 31,102,371	\$ 57,859,572	\$ 31,102,371	\$ 49,401,184	\$ 26,555,571	\$ 41,647,157	\$ 22,387,399	\$ 41,647,157	\$ 22,387,399						
22	29,230	\$ 54,376,552	\$ 28,378,715	\$ 57,859,572	\$ 30,196,477	\$ 57,859,572	\$ 30,196,477	\$ 49,401,184	\$ 25,782,107	\$ 41,647,157	\$ 21,735,339	\$ 41,647,157	\$ 21,735,339						
23	28,378	\$ 54,376,552	\$ 27,552,150	\$ 57,859,572	\$ 29,316,968	\$ 57,859,572	\$ 29,316,968	\$ 49,401,184	\$ 25,031,172	\$ 41,647,157	\$ 21,102,271	\$ 41,647,157	\$ 21,102,271						
24	27,552	\$ 54,376,552	\$ 26,749,661	\$ 57,859,572	\$ 28,463,075	\$ 57,859,572	\$ 28,463,075	\$ 49,401,184	\$ 24,302,109	\$ 41,647,157	\$ 20,487,641	\$ 41,647,157	\$ 20,487,641						
25	26,749	\$ 54,376,552	\$ 25,970,544	\$ 57,859,572	\$ 27,634,054	\$ 57,859,572	\$ 27,634,054	\$ 49,401,184	\$ 23,594,280	\$ 41,647,157	\$ 19,890,914	\$ 41,647,157	\$ 19,890,914						
26	25,970	\$ 54,376,552	\$ 25,214,121	\$ 57,859,572	\$ 26,829,179	\$ 57,859,572	\$ 26,829,179	\$ 49,401,184	\$ 22,907,068	\$ 41,647,157	\$ 19,311,567	\$ 41,647,157	\$ 19,311,567						
27	25,214	\$ 54,376,552	\$ 24,479,729	\$ 57,859,572	\$ 26,047,746	\$ 57,859,572	\$ 26,047,746	\$ 49,401,184	\$ 22,239,872	\$ 41,647,157	\$ 18,749,094	\$ 41,647,157	\$ 18,749,094						
28	24,479	\$ 54,376,552	\$ 23,766,727	\$ 57,859,572	\$ 25,289,074	\$ 57,859,572	\$ 25,289,074	\$ 49,401,184	\$ 21,592,109	\$ 41,647,157	\$ 18,203,004	\$ 41,647,157	\$ 18,203,004						
29	23,766	\$ 54,376,552	\$ 23,074,492	\$ 57,859,572	\$ 24,552,499	\$ 57,859,572	\$ 24,552,499	\$ 49,401,184	\$ 20,963,213	\$ 41,647,157	\$ 17,672,819	\$ 41,647,157	\$ 17,672,819						
30	23,074	\$ 54,376,552	\$ 22,402,420	\$ 57,859,572	\$ 23,837,378	\$ 57,859,572	\$ 23,837,378	\$ 49,401,184	\$ 20,352,634	\$ 41,647,157	\$ 17,158,077	\$ 41,647,157	\$ 17,158,077						
31	22,402	\$ 54,376,552	\$ 21,749,922	\$ 57,859,572	\$ 23,143,085	\$ 57,859,572	\$ 23,143,085	\$ 49,401,184	\$ 19,759,838	\$ 41,647,157	\$ 16,658,327	\$ 41,647,157	\$ 16,658,327						
32	21,750	\$ 54,376,552	\$ 21,116,429	\$ 57,859,572	\$ 22,469,015	\$ 57,859,572	\$ 22,469,015	\$ 49,401,184	\$ 19,184,309	\$ 41,647,157	\$ 16,173,133	\$ 41,647,157	\$ 16,173,133						
33	21,116	\$ 54,376,552	\$ 20,501,387	\$ 57,859,572	\$ 21,814,577	\$ 57,859,572	\$ 21,814,577	\$ 49,401,184	\$ 18,625,543	\$ 41,647,157	\$ 15,702,071	\$ 41,647,157	\$ 15,702,071						
34	20,501	\$ 54,376,552	\$ 19,904,260	\$ 57,859,572	\$ 21,179,201	\$ 57,859,572	\$ 21,179,201	\$ 49,401,184	\$ 18,083,051	\$ 41,647,157	\$ 15,244,729	\$ 41,647,157	\$ 15,244,729						
35	19,904	\$ 54,376,552	\$ 19,324,524	\$ 57,859,572	\$ 20,562,331	\$ 57,859,572	\$ 20,562,331	\$ 49,401,184	\$ 17,556,361	\$ 41,647,157	\$ 14,800,708	\$ 41,647,157	\$ 14,800,708						
36	19,324	\$ 54,376,552	\$ 18,761,674	\$ 57,859,572	\$ 19,963,428	\$ 57,859,572	\$ 19,963,428	\$ 49,401,184	\$ 17,045,010	\$ 41,647,157	\$ 14,369,619	\$ 41,647,157	\$ 14,369,619						
37	18,761	\$ 54,376,552	\$ 18,215,217	\$ 57,859,572	\$ 19,381,969	\$ 57,859,572	\$ 19,381,969	\$ 49,401,184	\$ 16,548,554	\$ 41,647,157	\$ 13,951,087	\$ 41,647,157	\$ 13,951,087						
38	18,215	\$ 54,376,552	\$ 17,684,677	\$ 57,859,572	\$ 18,817,446	\$ 57,859,572	\$ 18,817,446	\$ 49,401,184	\$ 16,066,557	\$ 41,647,157	\$ 13,544,745	\$ 41,647,157	\$ 13,544,745						
39	17,684	\$ 54,376,552	\$ 17,169,589	\$ 57,859,572	\$ 18,269,365	\$ 57,859,572	\$ 18,269,365	\$ 49,401,184	\$ 15,598,599	\$ 41,647,157	\$ 13,150,237	\$ 41,647,157	\$ 13,150,237						
40	17,169	\$ 54,376,552	\$ 16,669,504	\$ 57,859,572	\$ 17,737,248	\$ 57,859,572	\$ 17,737,248	\$ 49,401,184	\$ 15,144,271	\$ 41,647,157	\$ 12,767,221	\$ 41,647,157	\$ 12,767,221						
41	16,669	\$ 54,376,552	\$ 16,183,985	\$ 57,859,572	\$ 17,220,629	\$ 57,859,572	\$ 17,220,629	\$ 49,401,184	\$ 14,703,176	\$ 41,647,157	\$ 12,395,360	\$ 41,647,157	\$ 12,395,360						
42	16,184	\$ 54,376,552	\$ 15,712,606	\$ 57,859,572	\$ 16,719,057	\$ 57,859,572	\$ 16,719,057	\$ 49,401,184	\$ 14,274,928	\$ 41,647,157	\$ 12,034,330	\$ 41,647,157	\$ 12,034,330						
43	15,712	\$ 54,376,552	\$ 15,254,958	\$ 57,859,572	\$ 16,232,094	\$ 57,859,572	\$ 16,232,094	\$ 49,401,184	\$ 13,859,153	\$ 41,647,157	\$ 11,683,816	\$ 41,647,157	\$ 11,683,816						
44	15,255	\$ 54,376,552	\$ 14,810,638	\$ 57,859,572	\$ 15,759,315	\$ 57,859,572	\$ 15,759,315	\$ 49,401,184	\$ 13,455,488	\$ 41,647,157	\$ 11,343,510	\$ 41,647,157	\$ 11,343,510						
45	14,810	\$ 54,376,552	\$ 14,379,261	\$ 57,859,572	\$ 15,300,306	\$ 57,859,572	\$ 15,300,306	\$ 49,401,184	\$ 13,063,581	\$ 41,647,157	\$ 11,013,117	\$ 41,647,157	\$						

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Year	PV water production	Low cost estimate									High cost estimate								
		Open Ocean			SIG Trestle			SIG Float-in			Open Ocean			SIG Trestle			SIG Float-in		
		Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total
0	56,007	\$ 306,400,685	\$ 306,400,685	\$ 333,993,862	\$ 333,993,862	\$ 401,180,208	\$ 401,180,208	\$ 326,345,449	\$ 326,345,449	\$ 398,971,649	\$ 398,971,649	\$ 400,030,290	\$ 400,030,290						
1	52,343	\$ 300,894,319	\$ 281,209,644	\$ 327,991,615	\$ 327,991,615	\$ 399,514,220	\$ 399,514,220	\$ 320,480,653	\$ 320,480,653	\$ 391,801,678	\$ 391,801,678	\$ 392,841,294	\$ 392,841,294						
2	48,919	\$ 221,615,181	\$ 193,567,282	\$ 322,097,236	\$ 322,097,236	\$ 386,890,452	\$ 386,890,452	\$ 337,925,104	\$ 337,925,104	\$ 384,760,560	\$ 384,760,560	\$ 385,781,493	\$ 385,781,493						
3	45,718	\$ 54,376,552	\$ 44,387,464	\$ 316,308,785	\$ 316,308,785	\$ 258,202,190	\$ 258,202,190	\$ 310,142,251	\$ 310,142,251	\$ 49,401,184	\$ 40,326,081	\$ 308,434,870	\$ 309,253,279						
4	42,727	\$ 54,376,552	\$ 41,483,611	\$ 310,624,359	\$ 310,624,359	\$ 236,973,836	\$ 236,973,836	\$ 373,109,686	\$ 373,109,686	\$ 49,401,184	\$ 37,687,926	\$ 307,976,198	\$ 283,827,709						
5	39,932	\$ 54,376,552	\$ 38,769,730	\$ 305,042,089	\$ 305,042,089	\$ 217,490,794	\$ 217,490,794	\$ 65,310,333	\$ 65,310,333	\$ 49,401,184	\$ 35,222,361	\$ 296,933,847	\$ 283,827,709						
6	37,320	\$ 54,376,552	\$ 36,233,393	\$ 299,560,138	\$ 299,560,138	\$ 199,609,569	\$ 199,609,569	\$ 57,859,572	\$ 38,554,276	\$ 49,401,184	\$ 32,918,095	\$ 41,647,157	\$ 27,751,259						
7	34,878	\$ 54,376,552	\$ 33,862,984	\$ 57,859,572	\$ 36,032,034	\$ 57,859,572	\$ 36,032,034	\$ 49,401,184	\$ 30,764,574	\$ 49,401,184	\$ 41,647,157	\$ 25,935,756	\$ 41,647,157						
8	32,597	\$ 54,376,552	\$ 31,647,649	\$ 57,859,572	\$ 33,674,798	\$ 57,859,572	\$ 33,674,798	\$ 49,401,184	\$ 28,751,939	\$ 49,401,184	\$ 41,647,157	\$ 24,239,024	\$ 41,647,157						
9	30,464	\$ 54,376,552	\$ 29,577,242	\$ 57,859,572	\$ 31,471,774	\$ 57,859,572	\$ 31,471,774	\$ 49,401,184	\$ 26,870,971	\$ 49,401,184	\$ 41,647,157	\$ 22,653,294	\$ 41,647,157						
10	28,471	\$ 54,376,552	\$ 27,642,282	\$ 57,859,572	\$ 29,412,873	\$ 57,859,572	\$ 29,412,873	\$ 49,401,184	\$ 25,113,057	\$ 49,401,184	\$ 41,647,157	\$ 21,171,303	\$ 41,647,157						
11	26,609	\$ 54,376,552	\$ 25,833,908	\$ 57,859,572	\$ 27,488,666	\$ 57,859,572	\$ 27,488,666	\$ 49,401,184	\$ 23,470,146	\$ 49,401,184	\$ 41,647,157	\$ 19,786,264	\$ 41,647,157						
12	24,868	\$ 54,376,552	\$ 24,143,840	\$ 57,859,572	\$ 25,690,342	\$ 57,859,572	\$ 25,690,342	\$ 49,401,184	\$ 21,934,716	\$ 49,401,184	\$ 41,647,157	\$ 18,491,836	\$ 41,647,157						
13	23,241	\$ 54,376,552	\$ 22,564,336	\$ 57,859,572	\$ 24,009,665	\$ 57,859,572	\$ 24,009,665	\$ 49,401,184	\$ 20,499,735	\$ 49,401,184	\$ 41,647,157	\$ 17,282,089	\$ 41,647,157						
14	21,720	\$ 54,376,552	\$ 21,088,165	\$ 57,859,572	\$ 22,438,940	\$ 57,859,572	\$ 22,438,940	\$ 49,401,184	\$ 19,158,631	\$ 49,401,184	\$ 41,647,157	\$ 16,151,485	\$ 41,647,157						
15	20,300	\$ 54,376,552	\$ 19,708,565	\$ 57,859,572	\$ 20,970,972	\$ 57,859,572	\$ 20,970,972	\$ 49,401,184	\$ 17,905,262	\$ 49,401,184	\$ 41,647,157	\$ 15,094,846	\$ 41,647,157						
16	18,972	\$ 54,376,552	\$ 18,419,220	\$ 57,859,572	\$ 19,599,039	\$ 57,859,572	\$ 19,599,039	\$ 49,401,184	\$ 16,733,890	\$ 49,401,184	\$ 41,647,157	\$ 14,107,333	\$ 41,647,157						
17	17,730	\$ 54,376,552	\$ 17,214,224	\$ 57,859,572	\$ 18,316,859	\$ 57,859,572	\$ 18,316,859	\$ 49,401,184	\$ 15,639,150	\$ 49,401,184	\$ 41,647,157	\$ 13,184,423	\$ 41,647,157						
18	16,570	\$ 54,376,552	\$ 16,088,060	\$ 57,859,572	\$ 17,118,560	\$ 57,859,572	\$ 17,118,560	\$ 49,401,184	\$ 14,616,028	\$ 49,401,184	\$ 41,647,157	\$ 12,321,891	\$ 41,647,157						
19	15,486	\$ 54,376,552	\$ 15,035,570	\$ 57,859,572	\$ 15,998,654	\$ 57,859,572	\$ 15,998,654	\$ 49,401,184	\$ 13,659,839	\$ 49,401,184	\$ 41,647,157	\$ 11,515,786	\$ 41,647,157						
20	14,473	\$ 54,376,552	\$ 14,051,934	\$ 57,859,572	\$ 14,952,013	\$ 57,859,572	\$ 14,952,013	\$ 49,401,184	\$ 12,766,205	\$ 49,401,184	\$ 41,647,157	\$ 10,762,417	\$ 41,647,157						
21	13,526	\$ 54,376,552	\$ 13,132,649	\$ 57,859,572	\$ 13,973,844	\$ 57,859,572	\$ 13,973,844	\$ 49,401,184	\$ 11,931,032	\$ 49,401,184	\$ 41,647,157	\$ 10,058,333	\$ 41,647,157						
22	12,642	\$ 54,376,552	\$ 12,273,504	\$ 57,859,572	\$ 13,059,667	\$ 57,859,572	\$ 13,059,667	\$ 49,401,184	\$ 11,150,498	\$ 49,401,184	\$ 41,647,157	\$ 9,400,312	\$ 41,647,157						
23	11,815	\$ 54,376,552	\$ 11,470,564	\$ 57,859,572	\$ 12,205,296	\$ 57,859,572	\$ 12,205,296	\$ 49,401,184	\$ 10,421,026	\$ 49,401,184	\$ 41,647,157	\$ 8,785,338	\$ 41,647,157						
24	11,042	\$ 54,376,552	\$ 10,720,153	\$ 57,859,572	\$ 11,406,819	\$ 57,859,572	\$ 11,406,819	\$ 49,401,184	\$ 9,739,276	\$ 49,401,184	\$ 41,647,157	\$ 8,210,596	\$ 41,647,157						
25	10,319	\$ 54,376,552	\$ 10,018,835	\$ 57,859,572	\$ 10,660,579	\$ 57,859,572	\$ 10,660,579	\$ 49,401,184	\$ 9,102,127	\$ 49,401,184	\$ 41,647,157	\$ 7,673,454	\$ 41,647,157						
26	9,644	\$ 54,376,552	\$ 9,363,397	\$ 57,859,572	\$ 9,963,158	\$ 57,859,572	\$ 9,963,158	\$ 49,401,184	\$ 8,506,661	\$ 49,401,184	\$ 41,647,157	\$ 7,171,453	\$ 41,647,157						
27	9,013	\$ 54,376,552	\$ 8,750,839	\$ 57,859,572	\$ 9,311,362	\$ 57,859,572	\$ 9,311,362	\$ 49,401,184	\$ 7,950,151	\$ 49,401,184	\$ 41,647,157	\$ 6,702,292	\$ 41,647,157						
28	8,424	\$ 54,376,552	\$ 8,178,354	\$ 57,859,572	\$ 8,702,208	\$ 57,859,572	\$ 8,702,208	\$ 49,401,184	\$ 7,430,047	\$ 49,401,184	\$ 41,647,157	\$ 6,263,825	\$ 41,647,157						
29	7,873	\$ 54,376,552	\$ 7,643,321	\$ 57,859,572	\$ 8,132,904	\$ 57,859,572	\$ 8,132,904	\$ 49,401,184	\$ 6,943,969	\$ 49,401,184	\$ 41,647,157	\$ 5,854,042	\$ 41,647,157						
30	7,357	\$ 54,376,552	\$ 7,143,291	\$ 57,859,572	\$ 7,600,845	\$ 57,859,572	\$ 7,600,845	\$ 49,401,184	\$ 6,489,691	\$ 49,401,184	\$ 41,647,157	\$ 5,471,067	\$ 41,647,157						
31	6,876	\$ 54,376,552	\$ 6,675,973	\$ 57,859,572	\$ 7,103,594	\$ 57,859,572	\$ 7,103,594	\$ 49,401,184	\$ 6,065,132	\$ 49,401,184	\$ 41,647,157	\$ 5,113,147	\$ 41,647,157						
32	6,426	\$ 54,376,552	\$ 6,239,227	\$ 57,859,572	\$ 6,638,873	\$ 57,859,572	\$ 6,638,873	\$ 49,401,184	\$ 5,668,348	\$ 49,401,184	\$ 41,647,157	\$ 4,778,642	\$ 41,647,157						
33	6,006	\$ 54,376,552	\$ 5,831,053	\$ 57,859,572	\$ 6,204,554	\$ 57,859,572	\$ 6,204,554	\$ 49,401,184	\$ 5,297,521	\$ 49,401,184	\$ 41,647,157	\$ 4,466,020	\$ 41,647,157						
34	5,613	\$ 54,376,552	\$ 5,449,582	\$ 57,859,572	\$ 5,798,648	\$ 57,859,572	\$ 5,798,648	\$ 49,401,184	\$ 4,950,954	\$ 49,401,184	\$ 41,647,157	\$ 4,173,851	\$ 41,647,157						
35	5,246	\$ 54,376,552	\$ 5,093,068	\$ 57,859,572	\$ 5,419,298	\$ 57,859,572	\$ 5,419,298	\$ 49,401,184	\$ 4,627,060	\$ 49,401,184	\$ 41,647,157	\$ 3,900,795	\$ 41,647,157						
36	4,903	\$ 54,376,552	\$ 4,759,876	\$ 57,859,572	\$ 5,064,764	\$ 57,859,572	\$ 5,064,764	\$ 49,401,184	\$ 4,324,355	\$ 49,401,184	\$ 41,647,157	\$ 3,645,603	\$ 41,647,157						
37	4,582	\$ 54,376,552	\$ 4,448,483	\$ 57,859,572	\$ 4,733,424	\$ 57,859,572	\$ 4,733,424	\$ 49,401,184	\$ 4,041,453	\$ 49,401,184	\$ 41,647,157	\$ 3,407,106	\$ 41,647,157						
38	4,282	\$ 54,376,552	\$ 4,157,460	\$ 57,859,572	\$ 4,423,761	\$ 57,859,572	\$ 4,423,761	\$ 49,401,184	\$ 3,777,059	\$ 49,401,184	\$ 41,647,157	\$ 3,184,211	\$ 41,647,157						
39	4,002	\$ 54,376,552	\$ 3,885,477	\$ 57,859,572	\$ 4,134,356	\$ 57,859,572	\$ 4,134,356	\$ 49,401,184	\$ 3,529,962	\$ 49,401,184	\$ 41,647,157	\$ 2,975,898	\$ 41,647,157						
40	3,740	\$ 54,376,552	\$ 3,631,287	\$ 57,859,572	\$ 3,863,884	\$ 57,859,572	\$ 3,863,884	\$ 49,401,184	\$ 3,299,030	\$ 49,401,184	\$ 41,647,157	\$ 2,781,213	\$ 41,647,157						
41	3,495	\$ 54,376,552	\$ 3,393,726	\$ 57,859,572	\$ 3,611,107	\$ 57,859,572	\$ 3,611,107	\$ 49,401,184	\$ 3,083,205	\$ 49,401,184	\$ 41,647,157	\$ 2,599,264	\$ 41,647,157						
42	3,267	\$ 54,376,552	\$ 3,171,707	\$ 57,859,572	\$ 3,374,866	\$ 57,859,572	\$ 3,374,866	\$ 49,401,184	\$ 2,881,500	\$ 49,401,184	\$ 41,647,157	\$ 2,429,219	\$ 41,647,157						
43	3,053	\$ 54,376,552	\$ 2,964,212	\$ 57,859,572	\$ 3,154,081	\$ 57,859,572	\$ 3,154,081	\$ 49,401,184	\$ 2,692,991	\$ 49,401,184	\$ 41,647,157	\$ 2,270,298	\$ 41,647,157						
44	2,853	\$ 54,376,552	\$ 2,770,291	\$ 57,859,572	\$ 2,947,739	\$ 57,859,572	\$ 2,947,739	\$ 49,401,184	\$ 2,516,814	\$ 49,401,184	\$ 41,647,157	\$ 2,121,774	\$ 41,647,157						
45	2,667	\$ 54,376,552	\$ 2,589,057	\$ 57,859,572	\$ 2,754,896	\$ 57,859,572	\$ 2,754,896	\$ 49,401,184	\$ 2,352,163	\$ 49,401,184	\$ 41,647,157	\$ 1,982,966	\$ 41,647,157						
46	2,492	\$ 54,376,552	\$ 2,419,680	\$ 57,859,572	\$ 2,574,669	\$ 57,859,572	\$ 2,574,669	\$ 49,401,184	\$ 2,198,283	\$ 49,401,184	\$ 41,647,157	\$ 1,853,240	\$ 41,647,157						
47	2,329	\$ 54,376,552	\$ 2,261,383	\$ 57,859,572	\$ 2,406,233	\$ 57,859,572	\$ 2,406,233	\$ 49,401,184	\$ 2,054,470	\$ 49,401,184	\$ 41,647,157	\$ 1,732,000	\$ 41,647,157						
48	2,177	\$ 54,376,552	\$ 2,113,442	\$ 57,859,572	\$ 2,248,816	\$ 57,859,572	\$ 2,248,816	\$ 49,401,184	\$ 1,920,065	\$ 49,401,184	\$ 41,647,157	\$ 1,618,691	\$ 41,647,157						
49	2,034	\$ 54,376,552	\$ 1,975,179	\$ 57,859,572	\$ 2,101,697	\$ 57,859,572	\$ 2,101,697	\$ 49,401,184	\$ 1,794,454	\$ 49,401,184	\$ 41,647,157	\$ 1,512,796	\$ 41,647,157						
50	1,901	\$ 54,376,552	\$ 1,845,962	\$ 57,859,572	\$ 1,964,203	\$ 57,859,572	\$ 1,964,203	\$ 49,401,184	\$ 1,677,059	\$ 49,401,184	\$ 41,647,157	\$ 1,413,828	\$ 41,647,157						
51	1,777	\$ 54,376,552	\$ 1,725,198	\$ 57,859,572	\$ 1,835,704	\$ 57,859,572	\$ 1,835,704	\$ 49,401,184	\$ 1,567,345	\$ 49,401,184	\$ 41,647,157	\$ 1,321,334	\$ 41,647,157						
52	1,661	\$ 54,376,552	\$ 1,612,335	\$ 57,859,572	\$ 1,715,611	\$ 57,859,572	\$ 1,715,611	\$ 49,401,184	\$ 1,464,809	\$ 49,401,184	\$ 41,647,157	\$ 1,234,892	\$ 41,647,157						
53	1,552	\$ 9,000,000	\$ 249,403	\$ 57,859,572	\$ 1,603,375	\$ 57,859,572	\$ 1,603,375	\$ 9,000,000	\$ 249,403	\$ 41,647,157	\$ 1,154,105	\$ 41,647,157	\$ 1,154,105						
54	1,451			\$ 57,859,572	\$ 1,498,481	\$ 57,859,572	\$ 1,498,481			\$ 41,647,157	\$ 1,078,602	\$ 41,647,157	\$ 1,078,602						
55	1,356			\$ 57,859,572	\$ 1,400,449	\$ 57,859,572	\$ 1,400,449			\$ 9,000,000	\$ 217,839	\$ 41,647,157	\$ 1,008,040						
56	1,267			\$ 57,859,572	\$ 1,308,831	\$ 9,000,000	\$ 203,587												
57	1,184			\$ 9,000,000	\$ 190,269														

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Year	PV water production	Low cost estimate										High cost estimate									
		Open Ocean			SIG Trestle			SIG Float-in			Open Ocean			SIG Trestle			SIG Float-in				
		Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total		
0	112014	\$ 563,777,261		\$ 563,777,261	\$ 506,145,692		\$ 506,145,692	\$ 553,694,927		\$ 553,694,927	\$ 600,475,626		\$ 600,475,626	\$ 734,107,834		\$ 734,107,834	\$ 736,055,733		\$ 736,055,733		
1	108751.456	\$ 553,645,547		\$ 537,519,949	\$ 497,049,682		\$ 482,572,507	\$ 543,744,404		\$ 527,907,189	\$ 589,684,401		\$ 572,509,127	\$ 720,915,088		\$ 699,917,561	\$ 722,827,981		\$ 701,774,739		
2	105583.938	\$ 407,771,934		\$ 384,364,157	\$ 488,117,139		\$ 460,097,218	\$ 533,972,704		\$ 503,320,486	\$ 434,315,330		\$ 409,383,854	\$ 707,959,430		\$ 667,319,663	\$ 709,837,947		\$ 669,090,345		
3	102508.678		\$ 108,753,105	\$ 99,524,497	\$ 479,345,123		\$ 438,668,691	\$ 524,376,612		\$ 479,878,883		\$ 98,802,367	\$ 90,418,162		\$ 695,236,600		\$ 636,239,976		\$ 697,081,358		
4	99522.9882		\$ 108,753,105	\$ 96,625,725	\$ 470,730,750		\$ 418,238,175	\$ 514,952,972		\$ 457,529,046		\$ 98,802,367	\$ 87,784,624		\$ 566,676,204		\$ 503,484,467		\$ 608,217,380		
5	96624.2604		\$ 108,753,105	\$ 93,811,383	\$ 462,271,188		\$ 398,759,187	\$ 505,698,686		\$ 436,220,129		\$ 98,802,367	\$ 85,227,790			\$ 83,294,313	\$ 71,850,406		\$ 158,732,035		
6	93809.9615		\$ 108,753,105	\$ 91,079,013	\$ 453,963,653		\$ 380,187,412	\$ 496,610,710		\$ 415,903,652		\$ 98,802,367	\$ 82,745,427			\$ 83,294,313	\$ 69,757,676		\$ 158,732,035		
7	91077.6326		\$ 108,753,105	\$ 88,426,226	\$ 445,805,414		\$ 362,480,598		\$ 415,903,652	\$ 115,719,144		\$ 94,090,254	\$ 98,802,367	\$ 80,335,366		\$ 83,294,313	\$ 67,725,899		\$ 158,732,035		
8	88424.886		\$ 108,753,105	\$ 85,850,705	\$ 218,896,894		\$ 172,799,229		\$ 415,903,652	\$ 115,719,144		\$ 91,349,761	\$ 98,802,367	\$ 77,995,501		\$ 83,294,313	\$ 65,753,300		\$ 158,732,035		
9	85849.4039		\$ 108,753,105	\$ 83,350,199		\$ 115,719,144	\$ 88,689,088		\$ 415,903,652	\$ 115,719,144		\$ 88,689,088	\$ 98,802,367	\$ 75,723,788		\$ 83,294,313	\$ 63,838,155		\$ 158,732,035		
10	83348.9358		\$ 108,753,105	\$ 80,922,523		\$ 115,719,144	\$ 86,105,911		\$ 415,903,652	\$ 115,719,144		\$ 86,105,911	\$ 98,802,367	\$ 73,518,240		\$ 83,294,313	\$ 61,978,792		\$ 158,732,035		
11	80921.2969		\$ 108,753,105	\$ 78,565,557		\$ 115,719,144	\$ 83,597,972		\$ 415,903,652	\$ 115,719,144		\$ 83,597,972	\$ 98,802,367	\$ 71,376,932		\$ 83,294,313	\$ 60,173,584		\$ 158,732,035		
12	78564.3659		\$ 108,753,105	\$ 76,277,240		\$ 115,719,144	\$ 81,163,079		\$ 415,903,652	\$ 115,719,144		\$ 81,163,079	\$ 98,802,367	\$ 69,297,993		\$ 83,294,313	\$ 58,420,956		\$ 158,732,035		
13	76276.0834		\$ 108,753,105	\$ 74,055,572		\$ 115,719,144	\$ 78,799,106		\$ 415,903,652	\$ 115,719,144		\$ 78,799,106	\$ 98,802,367	\$ 67,279,604		\$ 83,294,313	\$ 56,719,374		\$ 158,732,035		
14	74054.4499		\$ 108,753,105	\$ 71,898,614		\$ 115,719,144	\$ 76,503,987		\$ 415,903,652	\$ 115,719,144		\$ 76,503,987	\$ 98,802,367	\$ 65,320,004		\$ 83,294,313	\$ 55,067,354		\$ 158,732,035		
15	71897.5242		\$ 108,753,105	\$ 69,804,480		\$ 115,719,144	\$ 74,275,715		\$ 415,903,652	\$ 115,719,144		\$ 74,275,715	\$ 98,802,367	\$ 63,417,480		\$ 83,294,313	\$ 53,463,450		\$ 158,732,035		
16	69803.4215		\$ 108,753,105	\$ 67,771,339		\$ 115,719,144	\$ 72,112,345		\$ 415,903,652	\$ 115,719,144		\$ 72,112,345	\$ 98,802,367	\$ 61,570,369		\$ 83,294,313	\$ 51,906,262		\$ 158,732,035		
17	67770.3122		\$ 108,753,105	\$ 65,797,417		\$ 115,719,144	\$ 70,011,985		\$ 415,903,652	\$ 115,719,144		\$ 70,011,985	\$ 98,802,367	\$ 59,777,057		\$ 83,294,313	\$ 50,394,429		\$ 158,732,035		
18	65796.4196		\$ 108,753,105	\$ 63,880,987		\$ 115,719,144	\$ 67,972,801		\$ 415,903,652	\$ 115,719,144		\$ 67,972,801	\$ 98,802,367	\$ 58,035,978		\$ 83,294,313	\$ 48,926,630		\$ 158,732,035		
19	63880.019		\$ 108,753,105	\$ 62,020,376		\$ 115,719,144	\$ 65,993,011		\$ 415,903,652	\$ 115,719,144		\$ 65,993,011	\$ 98,802,367	\$ 56,345,610		\$ 83,294,313	\$ 47,501,583		\$ 158,732,035		
20	62019.4359		\$ 108,753,105	\$ 60,213,957		\$ 115,719,144	\$ 64,070,884		\$ 415,903,652	\$ 115,719,144		\$ 64,070,884	\$ 98,802,367	\$ 54,704,475		\$ 83,294,313	\$ 46,118,042		\$ 158,732,035		
21	60213.0446		\$ 108,753,105	\$ 58,460,153		\$ 115,719,144	\$ 62,204,742		\$ 415,903,652	\$ 115,719,144		\$ 62,204,742	\$ 98,802,367	\$ 53,111,141		\$ 83,294,313	\$ 44,774,798		\$ 158,732,035		
22	58459.2666		\$ 108,753,105	\$ 56,757,430		\$ 115,719,144	\$ 60,392,954		\$ 415,903,652	\$ 115,719,144		\$ 60,392,954	\$ 98,802,367	\$ 51,564,215		\$ 83,294,313	\$ 43,470,677		\$ 158,732,035		
23	56756.5695		\$ 108,753,105	\$ 55,104,301		\$ 115,719,144	\$ 58,633,935		\$ 415,903,652	\$ 115,719,144		\$ 58,633,935	\$ 98,802,367	\$ 50,062,344		\$ 83,294,313	\$ 42,204,541		\$ 158,732,035		
24	55103.4655		\$ 108,753,105	\$ 53,499,321		\$ 115,719,144	\$ 56,926,151		\$ 415,903,652	\$ 115,719,144		\$ 56,926,151	\$ 98,802,367	\$ 48,604,218		\$ 83,294,313	\$ 40,975,283		\$ 158,732,035		
25	53498.5102		\$ 108,753,105	\$ 51,941,088		\$ 115,719,144	\$ 55,268,108		\$ 415,903,652	\$ 115,719,144		\$ 55,268,108	\$ 98,802,367	\$ 47,188,561		\$ 83,294,313	\$ 39,781,828		\$ 158,732,035		
26	51940.3012		\$ 108,753,105	\$ 50,428,241		\$ 115,719,144	\$ 53,658,357		\$ 415,903,652	\$ 115,719,144		\$ 53,658,357	\$ 98,802,367	\$ 45,814,137		\$ 83,294,313	\$ 38,623,134		\$ 158,732,035		
27	50427.4769		\$ 108,753,105	\$ 48,959,458		\$ 115,719,144	\$ 52,095,492		\$ 415,903,652	\$ 115,719,144		\$ 52,095,492	\$ 98,802,367	\$ 44,479,744		\$ 83,294,313	\$ 37,498,188		\$ 158,732,035		
28	48958.7154		\$ 108,753,105	\$ 47,533,454		\$ 115,719,144	\$ 50,578,148		\$ 415,903,652	\$ 115,719,144		\$ 50,578,148	\$ 98,802,367	\$ 43,184,218		\$ 83,294,313	\$ 36,406,008		\$ 158,732,035		
29	47532.7334		\$ 108,753,105	\$ 46,148,984		\$ 115,719,144	\$ 49,104,998		\$ 415,903,652	\$ 115,719,144		\$ 49,104,998	\$ 98,802,367	\$ 41,926,425		\$ 83,294,313	\$ 35,345,639		\$ 158,732,035		
30	46148.2849		\$ 108,753,105	\$ 44,804,839		\$ 115,719,144	\$ 47,674,755		\$ 415,903,652	\$ 115,719,144		\$ 47,674,755	\$ 98,802,367	\$ 40,705,267		\$ 83,294,313	\$ 34,316,154		\$ 158,732,035		
31	44804.1601		\$ 108,753,105	\$ 43,499,844		\$ 115,719,144	\$ 46,286,170		\$ 415,903,652	\$ 115,719,144		\$ 46,286,170	\$ 98,802,367	\$ 39,519,677		\$ 83,294,313	\$ 33,316,655		\$ 158,732,035		
32	43499.1845		\$ 108,753,105	\$ 42,232,858		\$ 115,719,144	\$ 44,938,029		\$ 415,903,652	\$ 115,719,144		\$ 44,938,029	\$ 98,802,367	\$ 38,368,618		\$ 83,294,313	\$ 32,346,267		\$ 158,732,035		
33	42232.218	\$ 16,560,000		\$ 6,243,555		\$ 115,719,144	\$ 43,629,155		\$ 415,903,652	\$ 115,719,144	\$ 16,560,000		\$ 43,629,155		\$ 83,294,313	\$ 31,404,142		\$ 30,489,459		\$ 158,732,035	
34	41002.1534					\$ 115,719,144	\$ 42,358,403		\$ 415,903,652	\$ 115,719,144		\$ 42,358,403				\$ 83,294,313	\$ 30,489,459		\$ 158,732,035		
35	39807.9159					\$ 115,719,144	\$ 41,124,663		\$ 415,903,652	\$ 115,719,144		\$ 41,124,663		\$ 16,560,000		\$ 83,294,313	\$ 29,601,416		\$ 158,732,035		
36	38648.4621					\$ 115,719,144	\$ 39,926,857		\$ 415,903,652	\$ 115,719,144		\$ 39,926,857				\$ 83,294,313	\$ 28,819,416		\$ 158,732,035		
37	37522.7787					\$ 115,719,144	\$ 38,763,939	\$ 16,560,000		\$ 415,903,652		\$ 38,763,939				\$ 83,294,313	\$ 28,097,416		\$ 158,732,035		
38	36429.8822					\$ 115,719,144	\$ 37,634,892					\$ 37,634,892				\$ 83,294,313	\$ 27,433,416		\$ 158,732,035		
39	35368.8177				\$ 16,560,000		\$ 5,228,879					\$ 5,228,879				\$ 83,294,313	\$ 26,819,416		\$ 158,732,035		
Total PV costs				\$ 3,501,150,702		\$ 5,415,673,220		\$ 5,279,538,445		\$ 3,414,015,127		\$ 4,697,503,317		\$ 4,925,811,837		\$ 4,925,811,837		\$ 4,925,811,837		\$ 4,925,811,837	
Unit cost				\$ 1,692		\$ 3,125		\$ 2,871		\$ 1,650		\$ 2,408		\$ 2,601		\$ 2,601		\$ 2,601		\$ 2,601	

Table D.4.1 Life cycle cost analysis, 100 MGD facility, 3% discount rate, 30-year project life

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Year	Low cost estimate									High cost estimate									
	Open Ocean			SIG Trestle			SIG Float-in			Open Ocean			SIG Trestle			SIG Float-in			
	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	
0	112014	\$ 563,777,261	\$ 563,777,261	\$ 506,145,692	\$ 506,145,692	\$ 506,145,692	\$ 553,694,927	\$ 553,694,927	\$ 553,694,927	\$ 600,475,626	\$ 600,475,626	\$ 600,475,626	\$ 734,107,834	\$ 734,107,834	\$ 734,107,834	\$ 736,055,733	\$ 736,055,733	\$ 736,055,733	
1	104686	\$ 553,645,547	\$ 517,425,745	\$ 497,049,682	\$ 464,532,413	\$ 464,532,413	\$ 543,744,404	\$ 508,172,340	\$ 508,172,340	\$ 589,684,401	\$ 551,106,917	\$ 551,106,917	\$ 720,915,088	\$ 673,752,419	\$ 673,752,419	\$ 722,827,981	\$ 675,540,170	\$ 675,540,170	
2	97837.37	\$ 407,771,934	\$ 356,163,799	\$ 488,117,139	\$ 426,340,413	\$ 426,340,413	\$ 533,972,704	\$ 466,392,439	\$ 466,392,439	\$ 434,315,330	\$ 379,347,830	\$ 379,347,830	\$ 707,959,430	\$ 618,359,184	\$ 618,359,184	\$ 709,837,947	\$ 619,999,954	\$ 619,999,954	
3	91436.79		\$ 108,753,105	\$ 88,774,928	\$ 479,345,123	\$ 391,288,406	\$ 524,376,612	\$ 428,047,515	\$ 428,047,515		\$ 98,802,367	\$ 80,652,163	\$ 695,236,600	\$ 567,520,161	\$ 567,520,161	\$ 697,081,358	\$ 569,026,033	\$ 569,026,033	
4	85454.94		\$ 108,753,105	\$ 82,967,223	\$ 470,730,750	\$ 359,118,236	\$ 514,952,972	\$ 392,855,157	\$ 392,855,157		\$ 98,802,367	\$ 75,375,853	\$ 566,676,204	\$ 432,314,563	\$ 432,314,563	\$ 684,554,020	\$ 522,242,984	\$ 522,242,984	
5	79864.43		\$ 108,753,105	\$ 77,539,461	\$ 462,271,188	\$ 329,592,968	\$ 505,698,686	\$ 360,556,174	\$ 360,556,174		\$ 98,802,367	\$ 70,444,722		\$ 83,294,313	\$ 59,387,694	\$ 184,013,933	\$ 131,199,391	\$ 131,199,391	
6	74639.66		\$ 108,753,105	\$ 72,466,786	\$ 453,963,653	\$ 302,495,150	\$ 496,610,710	\$ 330,912,685	\$ 330,912,685		\$ 98,802,367	\$ 65,836,189		\$ 83,294,313	\$ 55,502,518		\$ 83,294,313	\$ 55,502,518	
7	69756.69		\$ 108,753,105	\$ 67,725,968	\$ 445,805,414	\$ 277,625,206		\$ 115,719,144	\$ 72,064,067		\$ 98,802,367	\$ 61,529,149		\$ 83,294,313	\$ 51,871,512		\$ 83,294,313	\$ 51,871,512	
8	65193.17		\$ 108,753,105	\$ 63,295,297	\$ 428,896,894	\$ 218,896,894		\$ 115,719,144	\$ 67,349,595		\$ 98,802,367	\$ 57,503,877		\$ 83,294,313	\$ 48,478,049		\$ 83,294,313	\$ 48,478,049	
9	60928.19		\$ 108,753,105	\$ 59,154,483		\$ 115,719,144	\$ 62,943,547	\$ 62,943,547		\$ 98,802,367	\$ 53,741,941		\$ 83,294,313	\$ 45,306,588		\$ 83,294,313	\$ 45,306,588		
10	56942.24		\$ 108,753,105	\$ 55,284,564		\$ 115,719,144	\$ 58,825,745	\$ 58,825,745		\$ 98,802,367	\$ 50,226,113		\$ 83,294,313	\$ 42,342,605		\$ 83,294,313	\$ 42,342,605		
11	53217.04		\$ 108,753,105	\$ 51,667,817		\$ 115,719,144	\$ 54,977,332	\$ 54,977,332		\$ 98,802,367	\$ 46,940,293		\$ 83,294,313	\$ 39,572,528		\$ 83,294,313	\$ 39,572,528		
12	49735.56		\$ 108,753,105	\$ 48,287,679		\$ 115,719,144	\$ 51,380,684	\$ 51,380,684		\$ 98,802,367	\$ 43,869,433		\$ 83,294,313	\$ 36,983,671		\$ 83,294,313	\$ 36,983,671		
13	46481.83		\$ 108,753,105	\$ 45,128,672		\$ 115,719,144	\$ 48,019,331	\$ 48,019,331		\$ 98,802,367	\$ 40,999,470		\$ 83,294,313	\$ 34,564,179		\$ 83,294,313	\$ 34,564,179		
14	43440.96		\$ 108,753,105	\$ 42,176,329		\$ 115,719,144	\$ 44,877,879	\$ 44,877,879		\$ 98,802,367	\$ 38,317,262		\$ 83,294,313	\$ 32,302,971		\$ 83,294,313	\$ 32,302,971		
15	40599.03		\$ 108,753,105	\$ 39,417,130		\$ 115,719,144	\$ 41,941,943	\$ 41,941,943		\$ 98,802,367	\$ 35,810,525		\$ 83,294,313	\$ 30,189,692		\$ 83,294,313	\$ 30,189,692		
16	37943.02		\$ 108,753,105	\$ 36,838,439		\$ 115,719,144	\$ 39,198,078	\$ 39,198,078		\$ 98,802,367	\$ 33,467,780		\$ 83,294,313	\$ 28,214,666		\$ 83,294,313	\$ 28,214,666		
17	35460.76		\$ 108,753,105	\$ 34,428,448		\$ 115,719,144	\$ 36,633,718	\$ 36,633,718		\$ 98,802,367	\$ 31,278,299		\$ 83,294,313	\$ 26,368,846		\$ 83,294,313	\$ 26,368,846		
18	33140.9		\$ 108,753,105	\$ 32,176,119		\$ 115,719,144	\$ 34,237,119	\$ 34,237,119		\$ 98,802,367	\$ 29,232,055		\$ 83,294,313	\$ 24,643,782		\$ 83,294,313	\$ 24,643,782		
19	30972.8		\$ 108,753,105	\$ 30,071,140		\$ 115,719,144	\$ 31,997,308	\$ 31,997,308		\$ 98,802,367	\$ 27,319,678		\$ 83,294,313	\$ 23,031,572		\$ 83,294,313	\$ 23,031,572		
20	28946.55		\$ 108,753,105	\$ 28,103,869		\$ 115,719,144	\$ 29,904,026	\$ 29,904,026		\$ 98,802,367	\$ 25,532,409		\$ 83,294,313	\$ 21,524,833		\$ 83,294,313	\$ 21,524,833		
21	27052.85		\$ 108,753,105	\$ 26,265,298		\$ 115,719,144	\$ 27,947,688	\$ 27,947,688		\$ 98,802,367	\$ 23,862,065		\$ 83,294,313	\$ 20,116,667		\$ 83,294,313	\$ 20,116,667		
22	25283.03		\$ 108,753,105	\$ 24,547,007		\$ 115,719,144	\$ 26,119,334	\$ 26,119,334		\$ 98,802,367	\$ 22,300,995		\$ 83,294,313	\$ 18,800,623		\$ 83,294,313	\$ 18,800,623		
23	23629		\$ 108,753,105	\$ 22,941,127		\$ 115,719,144	\$ 24,410,593	\$ 24,410,593		\$ 98,802,367	\$ 20,842,051		\$ 83,294,313	\$ 17,570,676		\$ 83,294,313	\$ 17,570,676		
24	22083.18		\$ 108,753,105	\$ 21,440,307		\$ 115,719,144	\$ 22,813,638	\$ 22,813,638		\$ 98,802,367	\$ 19,478,553		\$ 83,294,313	\$ 16,421,192		\$ 83,294,313	\$ 16,421,192		
25	20638.49		\$ 108,753,105	\$ 20,037,670		\$ 115,719,144	\$ 21,321,157	\$ 21,321,157		\$ 98,802,367	\$ 18,204,255		\$ 83,294,313	\$ 15,346,909		\$ 83,294,313	\$ 15,346,909		
26	19288.31		\$ 108,753,105	\$ 18,726,394		\$ 115,719,144	\$ 19,926,315	\$ 19,926,315		\$ 98,802,367	\$ 17,013,322		\$ 83,294,313	\$ 14,342,905		\$ 83,294,313	\$ 14,342,905		
27	18026.45		\$ 108,753,105	\$ 17,501,677		\$ 115,719,144	\$ 18,622,724	\$ 18,622,724		\$ 98,802,367	\$ 15,900,301		\$ 83,294,313	\$ 13,404,584		\$ 83,294,313	\$ 13,404,584		
28	16847.15		\$ 108,753,105	\$ 16,356,708		\$ 115,719,144	\$ 17,404,415	\$ 17,404,415		\$ 98,802,367	\$ 14,860,095		\$ 83,294,313	\$ 12,527,649		\$ 83,294,313	\$ 12,527,649		
29	15745		\$ 108,753,105	\$ 15,286,643		\$ 115,719,144	\$ 16,265,809	\$ 16,265,809		\$ 98,802,367	\$ 13,887,939		\$ 83,294,313	\$ 11,708,083		\$ 83,294,313	\$ 11,708,083		
30	14714.96		\$ 108,753,105	\$ 14,286,582		\$ 115,719,144	\$ 15,201,690	\$ 15,201,690		\$ 98,802,367	\$ 12,979,382		\$ 83,294,313	\$ 10,942,134		\$ 83,294,313	\$ 10,942,134		
31	13752.3		\$ 108,753,105	\$ 13,351,946		\$ 115,719,144	\$ 14,207,187	\$ 14,207,187		\$ 98,802,367	\$ 12,130,264		\$ 83,294,313	\$ 10,226,293		\$ 83,294,313	\$ 10,226,293		
32	12852.61		\$ 108,753,105	\$ 12,478,454		\$ 115,719,144	\$ 13,277,745	\$ 13,277,745		\$ 98,802,367	\$ 11,336,695		\$ 83,294,313	\$ 9,557,283		\$ 83,294,313	\$ 9,557,283		
33	12011.79	\$ 16,560,000	\$ 1,775,807		\$ 115,719,144	\$ 12,409,108		\$ 115,719,144	\$ 12,409,108	\$ 16,560,000	\$ 1,775,807		\$ 83,294,313	\$ 8,932,041		\$ 83,294,313	\$ 8,932,041		
34	11225.97				\$ 115,719,144	\$ 11,597,297		\$ 115,719,144	\$ 11,597,297		\$ -		\$ 83,294,313	\$ 8,347,701		\$ 83,294,313	\$ 8,347,701		
35	10491.56				\$ 115,719,144	\$ 10,838,595		\$ 115,719,144	\$ 10,838,595		\$ -	\$ 16,560,000	\$ 1,551,058		\$ 83,294,313	\$ 7,801,590		\$ 7,801,590	
36	9805.197				\$ 115,719,144	\$ 10,129,528		\$ 115,719,144	\$ 10,129,528		\$ -		\$ -	\$ 16,560,000	\$ -	\$ 1,449,587		\$ 1,449,587	
37	9163.735				\$ 115,719,144	\$ 9,466,849	\$ 16,560,000	\$ 1,354,754	\$ 1,354,754		\$ -		\$ -	\$ -	\$ -	\$ -		\$ -	
38	8564.239				\$ 115,719,144	\$ 8,847,522		\$ -	\$ -		\$ -		\$ -	\$ -	\$ -	\$ -		\$ -	
39	8003.961			\$ 16,560,000	\$ 1,183,295		\$ -	\$ -	\$ -		\$ -		\$ -	\$ -	\$ -	\$ -		\$ -	
Total PV costs			\$ 2,617,867,177		\$ 4,021,465,668		\$ 3,998,829,188		\$ 2,603,579,308		\$ 3,816,135,666		\$ 3,992,458,195		\$ 3,992,458,195		\$ 4,029		\$ 4,029
Unit cost			\$ 2,156		\$ 4,971		\$ 4,317		\$ 2,145		\$ 3,599		\$ 4,029		\$ 4,029		\$ 4,029		\$ 4,029

Table D.4.2 Life cycle cost analysis, 100 MGD facility, 7% discount rate, 30-year project life

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Year	PV water production	Low cost estimate									High cost estimate								
		Open Ocean			SIG Trestle			SIG Float-in			Open Ocean			SIG Trestle			SIG Float-in		
		Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total
0	112,014	\$ 563,777,261	\$ 563,777,261	\$ 506,145,692	\$ 506,145,692	\$ 506,145,692	\$ 553,694,927	\$ 553,694,927	\$ 553,694,927	\$ 600,475,626	\$ 600,475,626	\$ 600,475,626	\$ 734,107,834	\$ 734,107,834	\$ 734,107,834	\$ 736,055,733	\$ 736,055,733	\$ 736,055,733	
1	108,751	\$ 553,645,547	\$ 537,919,949	\$ 497,049,682	\$ 482,572,507	\$ 497,049,682	\$ 543,744,404	\$ 527,907,189	\$ 543,744,404	\$ 589,684,401	\$ 572,509,127	\$ 589,684,401	\$ 720,915,088	\$ 699,917,561	\$ 720,915,088	\$ 722,827,981	\$ 722,827,981	\$ 701,774,739	
2	105,584	\$ 407,771,934	\$ 384,364,157	\$ 488,117,139	\$ 460,097,218	\$ 488,117,139	\$ 533,972,704	\$ 503,320,486	\$ 533,972,704	\$ 434,315,330	\$ 409,383,854	\$ 434,315,330	\$ 707,959,430	\$ 667,319,663	\$ 707,959,430	\$ 709,837,947	\$ 709,837,947	\$ 669,090,345	
3	102,509		\$ 108,753,105	\$ 99,524,497	\$ 479,345,123	\$ 438,668,691	\$ 524,376,612	\$ 479,878,883	\$ 524,376,612	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 695,239,976	\$ 636,239,976	\$ 695,239,976	\$ 697,081,358	\$ 697,081,358	\$ 637,928,191	
4	99,523		\$ 108,753,105	\$ 96,625,725	\$ 470,730,750	\$ 418,238,175	\$ 514,952,972	\$ 457,529,046	\$ 514,952,972	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 566,676,204	\$ 503,484,467	\$ 566,676,204	\$ 568,554,020	\$ 568,554,020	\$ 508,217,380	
5	96,624		\$ 108,753,105	\$ 93,811,383	\$ 462,271,188	\$ 398,759,187	\$ 505,698,686	\$ 436,220,129	\$ 505,698,686	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 184,013,933	\$ 184,013,933	\$ 158,732,035	
6	93,810		\$ 108,753,105	\$ 91,079,013	\$ 445,805,414	\$ 362,480,598	\$ 496,610,710	\$ 415,903,652	\$ 496,610,710	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 158,732,035	\$ 158,732,035	\$ 132,573,676	
7	91,078		\$ 108,753,105	\$ 88,426,226	\$ 445,805,414	\$ 362,480,598	\$ 496,610,710	\$ 415,903,652	\$ 496,610,710	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 158,732,035	\$ 158,732,035	\$ 132,573,676	
8	88,425		\$ 108,753,105	\$ 85,850,705	\$ 445,805,414	\$ 362,480,598	\$ 496,610,710	\$ 415,903,652	\$ 496,610,710	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 158,732,035	\$ 158,732,035	\$ 132,573,676	
9	85,849		\$ 108,753,105	\$ 83,350,199	\$ 445,805,414	\$ 362,480,598	\$ 496,610,710	\$ 415,903,652	\$ 496,610,710	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 158,732,035	\$ 158,732,035	\$ 132,573,676	
10	83,349		\$ 108,753,105	\$ 80,922,523	\$ 445,805,414	\$ 362,480,598	\$ 496,610,710	\$ 415,903,652	\$ 496,610,710	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 158,732,035	\$ 158,732,035	\$ 132,573,676	
11	80,921		\$ 108,753,105	\$ 78,565,557	\$ 445,805,414	\$ 362,480,598	\$ 496,610,710	\$ 415,903,652	\$ 496,610,710	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 158,732,035	\$ 158,732,035	\$ 132,573,676	
12	78,564		\$ 108,753,105	\$ 76,277,240	\$ 445,805,414	\$ 362,480,598	\$ 496,610,710	\$ 415,903,652	\$ 496,610,710	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 158,732,035	\$ 158,732,035	\$ 132,573,676	
13	76,276		\$ 108,753,105	\$ 74,055,572	\$ 445,805,414	\$ 362,480,598	\$ 496,610,710	\$ 415,903,652	\$ 496,610,710	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 158,732,035	\$ 158,732,035	\$ 132,573,676	
14	74,054		\$ 108,753,105	\$ 71,898,614	\$ 445,805,414	\$ 362,480,598	\$ 496,610,710	\$ 415,903,652	\$ 496,610,710	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 158,732,035	\$ 158,732,035	\$ 132,573,676	
15	71,898		\$ 108,753,105	\$ 69,804,480	\$ 445,805,414	\$ 362,480,598	\$ 496,610,710	\$ 415,903,652	\$ 496,610,710	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 158,732,035	\$ 158,732,035	\$ 132,573,676	
16	69,803		\$ 108,753,105	\$ 67,771,339	\$ 445,805,414	\$ 362,480,598	\$ 496,610,710	\$ 415,903,652	\$ 496,610,710	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 158,732,035	\$ 158,732,035	\$ 132,573,676	
17	67,770		\$ 108,753,105	\$ 65,797,417	\$ 445,805,414	\$ 362,480,598	\$ 496,610,710	\$ 415,903,652	\$ 496,610,710	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 158,732,035	\$ 158,732,035	\$ 132,573,676	
18	65,796		\$ 108,753,105	\$ 63,880,987	\$ 445,805,414	\$ 362,480,598	\$ 496,610,710	\$ 415,903,652	\$ 496,610,710	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 158,732,035	\$ 158,732,035	\$ 132,573,676	
19	63,880		\$ 108,753,105	\$ 62,020,376	\$ 445,805,414	\$ 362,480,598	\$ 496,610,710	\$ 415,903,652	\$ 496,610,710	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 158,732,035	\$ 158,732,035	\$ 132,573,676	
20	62,019		\$ 108,753,105	\$ 60,213,957	\$ 445,805,414	\$ 362,480,598	\$ 496,610,710	\$ 415,903,652	\$ 496,610,710	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 158,732,035	\$ 158,732,035	\$ 132,573,676	
21	60,213		\$ 108,753,105	\$ 58,460,153	\$ 445,805,414	\$ 362,480,598	\$ 496,610,710	\$ 415,903,652	\$ 496,610,710	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 158,732,035	\$ 158,732,035	\$ 132,573,676	
22	58,459		\$ 108,753,105	\$ 56,757,430	\$ 445,805,414	\$ 362,480,598	\$ 496,610,710	\$ 415,903,652	\$ 496,610,710	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 158,732,035	\$ 158,732,035	\$ 132,573,676	
23	56,757		\$ 108,753,105	\$ 55,104,301	\$ 445,805,414	\$ 362,480,598	\$ 496,610,710	\$ 415,903,652	\$ 496,610,710	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 158,732,035	\$ 158,732,035	\$ 132,573,676	
24	55,103		\$ 108,753,105	\$ 53,499,321	\$ 445,805,414	\$ 362,480,598	\$ 496,610,710	\$ 415,903,652	\$ 496,610,710	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 158,732,035	\$ 158,732,035	\$ 132,573,676	
25	53,499		\$ 108,753,105	\$ 51,941,088	\$ 445,805,414	\$ 362,480,598	\$ 496,610,710	\$ 415,903,652	\$ 496,610,710	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 158,732,035	\$ 158,732,035	\$ 132,573,676	
26	51,940		\$ 108,753,105	\$ 50,428,241	\$ 445,805,414	\$ 362,480,598	\$ 496,610,710	\$ 415,903,652	\$ 496,610,710	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 158,732,035	\$ 158,732,035	\$ 132,573,676	
27	50,427		\$ 108,753,105	\$ 48,959,458	\$ 445,805,414	\$ 362,480,598	\$ 496,610,710	\$ 415,903,652	\$ 496,610,710	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 158,732,035	\$ 158,732,035	\$ 132,573,676	
28	48,959		\$ 108,753,105	\$ 47,533,454	\$ 445,805,414	\$ 362,480,598	\$ 496,610,710	\$ 415,903,652	\$ 496,610,710	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 158,732,035	\$ 158,732,035	\$ 132,573,676	
29	47,533		\$ 108,753,105	\$ 46,148,984	\$ 445,805,414	\$ 362,480,598	\$ 496,610,710	\$ 415,903,652	\$ 496,610,710	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 158,732,035	\$ 158,732,035	\$ 132,573,676	
30	46,148		\$ 108,753,105	\$ 44,804,839	\$ 445,805,414	\$ 362,480,598	\$ 496,610,710	\$ 415,903,652	\$ 496,610,710	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 158,732,035	\$ 158,732,035	\$ 132,573,676	
31	44,804		\$ 108,753,105	\$ 43,499,844	\$ 445,805,414	\$ 362,480,598	\$ 496,610,710	\$ 415,903,652	\$ 496,610,710	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 158,732,035	\$ 158,732,035	\$ 132,573,676	
32	43,499		\$ 108,753,105	\$ 42,232,858	\$ 445,805,414	\$ 362,480,598	\$ 496,610,710	\$ 415,903,652	\$ 496,610,710	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 158,732,035	\$ 158,732,035	\$ 132,573,676	
33	42,232		\$ 108,753,105	\$ 41,002,775	\$ 445,805,414	\$ 362,480,598	\$ 496,610,710	\$ 415,903,652	\$ 496,610,710	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 158,732,035	\$ 158,732,035	\$ 132,573,676	
34	41,002		\$ 108,753,105	\$ 39,808,519	\$ 445,805,414	\$ 362,480,598	\$ 496,610,710	\$ 415,903,652	\$ 496,610,710	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 158,732,035	\$ 158,732,035	\$ 132,573,676	
35	39,808		\$ 108,753,105	\$ 38,649,048	\$ 445,805,414	\$ 362,480,598	\$ 496,610,710	\$ 415,903,652	\$ 496,610,710	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 158,732,035	\$ 158,732,035	\$ 132,573,676	
36	38,648		\$ 108,753,105	\$ 37,523,347	\$ 445,805,414	\$ 362,480,598	\$ 496,610,710	\$ 415,903,652	\$ 496,610,710	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 158,732,035	\$ 158,732,035	\$ 132,573,676	
37	37,523		\$ 108,753,105	\$ 36,430,434	\$ 445,805,414	\$ 362,480,598	\$ 496,610,710	\$ 415,903,652	\$ 496,610,710	\$ 496,610,710	\$ 452,172,726	\$ 496,610,710	\$ 83,294,313	\$ 71,850,406	\$ 83,294,313	\$ 1			

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Year	PV water production	Low cost estimate												High cost estimate					
		Open Ocean			SIG Trestle			SIG Float-in			Open Ocean			SIG Trestle			SIG Float-in		
		Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total	Capital	O&M	PV total
0	112,014	\$ 563,777,261		\$ 563,777,261	\$ 506,145,692		\$ 506,145,692	\$ 553,694,927		\$ 553,694,927	\$ 600,475,626		\$ 600,475,626	\$ 734,107,834		\$ 734,107,834	\$ 736,055,733		\$ 736,055,733
1	104,686	\$ 553,645,547		\$ 517,425,745	\$ 497,049,682		\$ 464,532,413	\$ 543,744,404		\$ 508,172,340	\$ 589,684,401		\$ 551,106,917	\$ 720,915,088		\$ 673,752,419	\$ 722,827,981		\$ 675,540,170
2	97,837	\$ 407,717,934		\$ 356,163,799	\$ 488,117,139		\$ 426,340,413	\$ 533,972,704		\$ 466,392,439	\$ 434,315,330		\$ 379,347,830	\$ 707,959,430		\$ 618,359,184	\$ 709,837,947		\$ 619,999,954
3	91,437		\$ 108,753,105	\$ 88,774,928	\$ 479,345,123		\$ 391,288,406	\$ 524,376,612		\$ 428,047,515	\$ 98,802,367		\$ 80,652,163	\$ 695,236,600		\$ 567,520,161	\$ 697,081,358		\$ 569,026,033
4	85,455		\$ 108,753,105	\$ 82,967,223	\$ 470,730,750		\$ 359,118,236	\$ 514,952,972		\$ 392,855,157	\$ 98,802,367		\$ 75,375,853	\$ 566,676,204		\$ 432,314,563	\$ 684,554,020		\$ 522,242,984
5	79,864		\$ 108,753,105	\$ 77,539,461	\$ 462,271,188		\$ 329,592,968	\$ 505,698,686		\$ 360,556,174	\$ 98,802,367		\$ 70,444,722		\$ 83,294,313	\$ 59,387,694	\$ 184,013,933		\$ 131,199,391
6	74,640		\$ 108,753,105	\$ 72,466,786	\$ 453,963,653		\$ 302,495,150	\$ 496,610,710		\$ 330,912,685	\$ 98,802,367		\$ 65,836,189		\$ 83,294,313	\$ 55,502,518		\$ 83,294,313	\$ 55,502,518
7	69,757		\$ 108,753,105	\$ 67,225,968	\$ 445,805,414		\$ 277,625,206		\$ 115,719,144	\$ 72,064,067	\$ 98,802,367		\$ 61,529,149		\$ 83,294,313	\$ 51,871,512		\$ 83,294,313	\$ 51,871,512
8	65,193		\$ 108,753,105	\$ 63,295,297	\$ 218,896,894		\$ 127,399,985		\$ 115,719,144	\$ 67,349,595	\$ 98,802,367		\$ 57,503,877		\$ 83,294,313	\$ 48,478,049		\$ 83,294,313	\$ 48,478,049
9	60,928		\$ 108,753,105	\$ 59,154,483		\$ 115,719,144	\$ 62,943,547		\$ 115,719,144	\$ 62,943,547	\$ 98,802,367		\$ 53,741,941		\$ 83,294,313	\$ 45,306,588		\$ 83,294,313	\$ 45,306,588
10	56,942		\$ 108,753,105	\$ 55,284,564		\$ 115,719,144	\$ 58,825,745		\$ 115,719,144	\$ 58,825,745	\$ 98,802,367		\$ 50,226,113		\$ 83,294,313	\$ 42,342,605		\$ 83,294,313	\$ 42,342,605
11	53,217		\$ 108,753,105	\$ 51,667,817		\$ 115,719,144	\$ 54,977,332		\$ 115,719,144	\$ 54,977,332	\$ 98,802,367		\$ 46,940,293		\$ 83,294,313	\$ 39,572,528		\$ 83,294,313	\$ 39,572,528
12	49,736		\$ 108,753,105	\$ 48,287,679		\$ 115,719,144	\$ 51,380,684		\$ 115,719,144	\$ 51,380,684	\$ 98,802,367		\$ 43,869,433		\$ 83,294,313	\$ 36,983,671		\$ 83,294,313	\$ 36,983,671
13	46,482		\$ 108,753,105	\$ 45,128,672		\$ 115,719,144	\$ 48,019,331		\$ 115,719,144	\$ 48,019,331	\$ 98,802,367		\$ 40,999,470		\$ 83,294,313	\$ 34,564,179		\$ 83,294,313	\$ 34,564,179
14	43,441		\$ 108,753,105	\$ 42,176,329		\$ 115,719,144	\$ 44,877,879		\$ 115,719,144	\$ 44,877,879	\$ 98,802,367		\$ 38,317,262		\$ 83,294,313	\$ 32,302,971		\$ 83,294,313	\$ 32,302,971
15	40,599		\$ 108,753,105	\$ 39,417,130		\$ 115,719,144	\$ 41,941,943		\$ 115,719,144	\$ 41,941,943	\$ 98,802,367		\$ 35,810,525		\$ 83,294,313	\$ 30,189,692		\$ 83,294,313	\$ 30,189,692
16	37,943		\$ 108,753,105	\$ 36,838,439		\$ 115,719,144	\$ 39,198,078		\$ 115,719,144	\$ 39,198,078	\$ 98,802,367		\$ 33,467,780		\$ 83,294,313	\$ 28,214,666		\$ 83,294,313	\$ 28,214,666
17	35,461		\$ 108,753,105	\$ 34,428,448		\$ 115,719,144	\$ 36,633,718		\$ 115,719,144	\$ 36,633,718	\$ 98,802,367		\$ 31,278,299		\$ 83,294,313	\$ 26,368,846		\$ 83,294,313	\$ 26,368,846
18	33,141		\$ 108,753,105	\$ 32,176,119		\$ 115,719,144	\$ 34,237,119		\$ 115,719,144	\$ 34,237,119	\$ 98,802,367		\$ 29,232,055		\$ 83,294,313	\$ 24,643,782		\$ 83,294,313	\$ 24,643,782
19	30,973		\$ 108,753,105	\$ 30,071,140		\$ 115,719,144	\$ 31,997,308		\$ 115,719,144	\$ 31,997,308	\$ 98,802,367		\$ 27,319,678		\$ 83,294,313	\$ 23,031,572		\$ 83,294,313	\$ 23,031,572
20	28,947		\$ 108,753,105	\$ 28,103,869		\$ 115,719,144	\$ 29,904,026		\$ 115,719,144	\$ 29,904,026	\$ 98,802,367		\$ 25,532,409		\$ 83,294,313	\$ 21,524,833		\$ 83,294,313	\$ 21,524,833
21	27,053		\$ 108,753,105	\$ 26,265,298		\$ 115,719,144	\$ 27,947,688		\$ 115,719,144	\$ 27,947,688	\$ 98,802,367		\$ 23,862,065		\$ 83,294,313	\$ 20,116,667		\$ 83,294,313	\$ 20,116,667
22	25,283		\$ 108,753,105	\$ 24,547,007		\$ 115,719,144	\$ 26,119,334		\$ 115,719,144	\$ 26,119,334	\$ 98,802,367		\$ 22,300,995		\$ 83,294,313	\$ 18,800,623		\$ 83,294,313	\$ 18,800,623
23	23,629		\$ 108,753,105	\$ 22,941,128		\$ 115,719,144	\$ 24,410,593		\$ 115,719,144	\$ 24,410,593	\$ 98,802,367		\$ 20,842,015		\$ 83,294,313	\$ 17,570,676		\$ 83,294,313	\$ 17,570,676
24	22,083		\$ 108,753,105	\$ 21,440,307		\$ 115,719,144	\$ 22,813,638		\$ 115,719,144	\$ 22,813,638	\$ 98,802,367		\$ 19,478,553		\$ 83,294,313	\$ 16,421,192		\$ 83,294,313	\$ 16,421,192
25	20,638		\$ 108,753,105	\$ 20,037,670		\$ 115,719,144	\$ 21,321,157		\$ 115,719,144	\$ 21,321,157	\$ 98,802,367		\$ 18,204,255		\$ 83,294,313	\$ 15,346,909		\$ 83,294,313	\$ 15,346,909
26	19,288		\$ 108,753,105	\$ 18,726,794		\$ 115,719,144	\$ 19,926,315		\$ 115,719,144	\$ 19,926,315	\$ 98,802,367		\$ 17,013,322		\$ 83,294,313	\$ 14,342,905		\$ 83,294,313	\$ 14,342,905
27	18,026		\$ 108,753,105	\$ 17,501,677		\$ 115,719,144	\$ 18,622,724		\$ 115,719,144	\$ 18,622,724	\$ 98,802,367		\$ 15,900,301		\$ 83,294,313	\$ 13,404,584		\$ 83,294,313	\$ 13,404,584
28	16,847		\$ 108,753,105	\$ 16,356,708		\$ 115,719,144	\$ 17,404,415		\$ 115,719,144	\$ 17,404,415	\$ 98,802,367		\$ 14,860,095		\$ 83,294,313	\$ 12,527,649		\$ 83,294,313	\$ 12,527,649
29	15,745		\$ 108,753,105	\$ 15,286,643		\$ 115,719,144	\$ 16,265,809		\$ 115,719,144	\$ 16,265,809	\$ 98,802,367		\$ 13,887,939		\$ 83,294,313	\$ 11,708,083		\$ 83,294,313	\$ 11,708,083
30	14,715		\$ 108,753,105	\$ 14,286,582		\$ 115,719,144	\$ 15,201,690		\$ 115,719,144	\$ 15,201,690	\$ 98,802,367		\$ 12,979,382		\$ 83,294,313	\$ 10,942,134		\$ 83,294,313	\$ 10,942,134
31	13,752		\$ 108,753,105	\$ 13,351,946		\$ 115,719,144	\$ 14,207,187		\$ 115,719,144	\$ 14,207,187	\$ 98,802,367		\$ 12,130,264		\$ 83,294,313	\$ 10,226,293		\$ 83,294,313	\$ 10,226,293
32	12,853		\$ 108,753,105	\$ 12,478,454		\$ 115,719,144	\$ 13,277,745		\$ 115,719,144	\$ 13,277,745	\$ 98,802,367		\$ 11,336,695		\$ 83,294,313	\$ 9,557,283		\$ 83,294,313	\$ 9,557,283
33	12,012		\$ 108,753,105	\$ 11,662,106		\$ 115,719,144	\$ 12,409,108		\$ 115,719,144	\$ 12,409,108	\$ 98,802,367		\$ 10,595,042		\$ 83,294,313	\$ 8,932,041		\$ 83,294,313	\$ 8,932,041
34	11,226		\$ 108,753,105	\$ 10,899,165		\$ 115,719,144	\$ 11,597,297		\$ 115,719,144	\$ 11,597,297	\$ 98,802,367		\$ 9,901,909		\$ 83,294,313	\$ 8,347,701		\$ 83,294,313	\$ 8,347,701
35	10,492		\$ 108,753,105	\$ 10,186,135		\$ 115,719,144	\$ 10,838,595		\$ 115,719,144	\$ 10,838,595	\$ 98,802,367		\$ 9,254,120		\$ 83,294,313	\$ 7,801,590		\$ 83,294,313	\$ 7,801,590
36	9,805		\$ 108,753,105	\$ 9,519,753		\$ 115,719,144	\$ 10,129,528		\$ 115,719,144	\$ 10,129,528	\$ 98,802,367		\$ 8,648,710		\$ 83,294,313	\$ 7,291,206		\$ 83,294,313	\$ 7,291,206
37	9,164		\$ 108,753,105	\$ 8,966,965		\$ 115,719,144	\$ 9,466,849		\$ 115,719,144	\$ 9,466,849	\$ 98,802,367		\$ 8,082,907		\$ 83,294,313	\$ 6,814,211		\$ 83,294,313	\$ 6,814,211
38	8,564		\$ 108,753,105	\$ 8,314,921		\$ 115,719,144	\$ 8,847,522		\$ 115,719,144	\$ 8,847,522	\$ 98,802,367		\$ 7,554,119		\$ 83,294,313	\$ 6,368,422		\$ 83,294,313	\$ 6,368,422
39	8,004		\$ 108,753,105	\$ 7,770,954		\$ 115,719,144	\$ 8,268,712		\$ 115,719,144	\$ 8,268,712	\$ 98,802,367		\$ 7,059,924		\$ 83,294,313	\$ 5,951,796		\$ 83,294,313	\$ 5,951,796
40	7,480		\$ 108,753,105	\$ 7,262,574		\$ 115,719,144	\$ 7,727,769		\$ 115,719,144	\$ 7,727,769	\$ 98,802,367		\$ 6,598,062		\$ 83,294,313	\$ 5,562,426		\$ 83,294,313	\$ 5,562,426
41	6,991		\$ 108,753,105	\$ 6,787,452		\$ 115,719,144	\$ 7,222,214		\$ 115,719,144	\$ 7,222,214	\$ 98,802,367		\$ 6,166,411		\$ 83,294,313	\$ 5,198,529		\$ 83,294,313	\$ 5,198,529
42	6,534		\$ 108,753,105	\$ 6,343,413		\$ 115,719,144	\$ 6,749,732		\$ 115,719,144	\$ 6,749,732	\$ 98,802,367		\$ 5,763,001		\$ 83,294,313	\$ 4,858,438		\$ 83,294,313	\$ 4,858,438
43	6,106		\$ 108,753,105	\$ 5,928,424		\$ 115,719,144	\$ 6,308,161		\$ 115,719,144	\$ 6,308,161	\$ 98,802,367		\$ 5,385,982		\$ 83,294,313	\$ 4,540,597		\$ 83,294,313	\$ 4,540,597
44	5,707		\$ 108,753,105	\$ 5,540,583		\$ 115,719,144	\$ 5,895,478		\$ 115,719,144	\$ 5,895,478	\$ 98,802,367		\$ 5,033,628		\$ 83,294,313	\$ 4,243,548		\$ 83,294,313	\$ 4,243,548
45	5,333		\$ 108,753,105	\$ 5,178,115		\$ 115,719,144	\$ 5,509,792		\$ 115,719,144	\$ 5,509,792	\$ 98,802,367								

APPENDIX E: Data Related to OCWD Willingness to Pay

Appendix E provides the background data and assumptions we used to estimate OCWD willingness to pay (WTP) for water from the desalination facility in the future. As described in the main report, per the current term sheet, OCWD has indicated that it would be willing to pay an amount equal to the price of MWD water, plus a reliability premium and the amount of MWD's local water supply subsidy. Thus, to estimate WTP we first estimated future MWD rates based on established forecasts developed by MWD. The base rate that MWD charges for treated water (Tier 1 rate) is currently (2015) \$1,081 per acre-foot. In recent history, the Tier 1 rate has increased between 1% and 5% annually in real dollars. As shown in Table B-1, in this analysis, we assume the Tier 1 rate will increase in the near future as it has in the recent past, by 3.3% between 2015 and 2025, on average. We then assume the annual rate of increase will drop back to 3% per year starting in 2025.

In addition to the MWD rates, OCWD has indicated that it is willing to pay a reliability premium for locally produced water. Consistent with our understanding of the ongoing contract discussions, in our projections we assume that the reliability premium amounts to 20% of MWD's Tier 1 water price for 10 years after construction. The premium drops to 15% of the Tier 1 price for the next ten years, to 10% for 10 more years, to 5% for ten years, and then finally to 0%. For this analysis, we assume that the reliability premium kicks in as the facility comes online - around 2020 (although in reality this will differ by alternative).

In addition, MWD currently provides a subsidy to communities that develop local water supplies (including desalination) to offset reliance on MWD water. We assume that MWD will continue to provide this subsidy into the future. The subsidy varies according to the unit cost of the local supplies that are developed. There are currently three subsidy options that may be available to OCWD, including a sliding scale of up to \$340/AF for 25 years, a sliding scale for up to \$475/AF for 15 years and a fixed \$305/AF for 25 years. OCWD's current term sheet is based on the second option, a maximum of \$475 per AF for up to 15 years, provided that the cost of the local supply exceeds MWD rates by this amount.

Table E.1 shows what the subsidy would be in any given year of the analysis, based on the average cost of each intake option. The table shows more than 15 years of the subsidy because the year that the subsidy runs out will depend on when the project actually comes online.

Based on these assumptions, the final columns in Table B-1 show OCWD's WTP for water from a desalination facility with the different intake options. Uncertainty surrounding these estimates includes uncertainty regarding the rate at which MWD prices will increase in the future, as well as the actual unit cost of the desalination facility with different intake options. As unit costs change, the subsidy that MWD provides may also change, depending on how close it is to the project MWD rate.

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		MWD rates Tier 1 Treated	Forecasted increase	Reliability premium per current term sheet	MWD rate w/reliability premium	Amount over/below MWD rate			Subsidy (only available for 15 years following construction)			Willingness to pay (MWD cost+reliability premium+subsidy)		
						Open Ocean	SIG Trestle	SIG Float-in	Open Ocean	SIG Trestle	SIG Float-in	Open Ocean	SIG Trestle	SIG Float-in
1	2015	\$1,081		0%	\$1,081.00	906.31	2,518.13	2,453.75	\$ 475	\$ 475	\$ 475	\$1,556.00	\$1,556.00	\$1,556.00
2	2016	\$1,103	2.1%	0%	\$1,103.25	884.06	2,495.87	2,431.50	\$ 475	\$ 475	\$ 475	\$1,578.25	\$1,578.25	\$1,578.25
3	2017	\$1,140	3.3%	0%	\$1,139.56	847.75	2,459.57	2,395.19	\$ 475	\$ 475	\$ 475	\$1,614.56	\$1,614.56	\$1,614.56
4	2018	\$1,170	2.7%	0%	\$1,170.01	817.30	2,429.12	2,364.74	\$ 475	\$ 475	\$ 475	\$1,645.01	\$1,645.01	\$1,645.01
5	2019	\$1,203	2.8%	0%	\$1,202.80	784.51	2,396.32	2,331.95	\$ 475	\$ 475	\$ 475	\$1,677.80	\$1,677.80	\$1,677.80
6	2020	\$1,252	4.1%	20%	\$1,502.39	735.32	2,347.13	2,282.76	\$ 475	\$ 475	\$ 475	\$1,977.39	\$1,977.39	\$1,977.39
7	2021	\$1,298	3.6%	20%	\$1,557.20	689.64	2,301.46	2,237.08	\$ 475	\$ 475	\$ 475	\$2,032.20	\$2,032.20	\$2,032.20
8	2022	\$1,342	3.4%	20%	\$1,610.61	645.14	2,256.95	2,192.58	\$ 475	\$ 475	\$ 475	\$2,085.61	\$2,085.61	\$2,085.61
9	2023	\$1,391	3.7%	20%	\$1,669.64	595.95	2,207.76	2,143.39	\$ 475	\$ 475	\$ 475	\$2,144.64	\$2,144.64	\$2,144.64
10	2024	\$1,444	3.8%	20%	\$1,732.88	543.25	2,155.06	2,090.68	\$ 475	\$ 475	\$ 475	\$2,207.88	\$2,207.88	\$2,207.88
11	2025	\$1,487	3.0%	20%	\$1,784.87	499.92	2,111.74	2,047.36	\$ 475	\$ 475	\$ 475	\$2,259.87	\$2,259.87	\$2,259.87
12	2026	\$1,532	3.0%	20%	\$1,838.41	455.30	2,067.12	2,002.74	\$ 455	\$ 475	\$ 475	\$2,293.71	\$2,313.41	\$2,313.41
13	2027	\$1,578	3.0%	20%	\$1,893.56	409.34	2,021.15	1,956.78	\$ 409	\$ 475	\$ 475	\$2,302.91	\$2,368.56	\$2,368.56
14	2028	\$1,625	3.0%	20%	\$1,950.37	362.00	1,973.82	1,909.44	\$ 362	\$ 475	\$ 475	\$2,312.37	\$2,425.37	\$2,425.37
15	2029	\$1,674	3.0%	20%	\$2,008.88	313.24	1,925.06	1,860.68	\$ 313	\$ 475	\$ 475	\$2,322.13	\$2,483.88	\$2,483.88
16	2030	\$1,724	3.0%	15%	\$1,982.93	263.02	1,874.83	1,810.46	\$ 263	\$ 475	\$ 475	\$2,245.96	\$2,457.93	\$2,457.93
17	2031	\$1,776	3.0%	15%	\$2,042.42	211.29	1,823.11	1,758.73	\$ 211	\$ 475	\$ 475	\$2,253.72	\$2,517.42	\$2,517.42
18	2032	\$1,829	3.0%	15%	\$2,103.69	158.01	1,769.83	1,705.45	\$ 158	\$ 475	\$ 475	\$2,261.71	\$2,578.69	\$2,578.69
19	2033	\$1,884	3.0%	15%	\$2,166.81	103.13	1,714.95	1,650.57	\$ 103	\$ 475	\$ 475	\$2,269.94	\$2,641.81	\$2,641.81
20	2034	\$1,941	3.0%	15%	\$2,231.81	46.61	1,658.42	1,594.05	\$ 47	\$ 475	\$ 475	\$2,278.42	\$2,706.81	\$2,706.81
21	2035	\$1,999	3.0%	15%	\$2,298.76	(11.61)	1,600.20	1,535.82	\$ -	\$ 475	\$ 475	\$2,298.76	\$2,773.76	\$2,773.76
22	2036	\$2,059	3.0%	15%	\$2,367.73	(71.58)	1,540.23	1,475.86	\$ -	\$ 475	\$ 475	\$2,367.73	\$2,842.73	\$2,842.73
23	2037	\$2,121	3.0%	15%	\$2,438.76	(133.35)	1,478.47	1,414.09	\$ -	\$ 475	\$ 475	\$2,438.76	\$2,913.76	\$2,913.76
24	2038	\$2,184	3.0%	15%	\$2,511.92	(196.97)	1,414.85	1,350.47	\$ -	\$ 475	\$ 475	\$2,511.92	\$2,986.92	\$2,986.92
25	2039	\$2,250	3.0%	15%	\$2,587.28	(262.50)	1,349.32	1,284.94	\$ -	\$ 475	\$ 475	\$2,587.28	\$3,062.28	\$3,062.28
26	2040	\$2,317	3.0%	10%	\$2,549.03	(329.99)	1,281.82	1,217.45	\$ -	\$ 475	\$ 475	\$2,549.03	\$3,024.03	\$3,024.03
27	2041	\$2,387	3.0%	10%	\$2,625.50	(399.51)	1,212.30	1,147.93	\$ -	\$ 475	\$ 475	\$2,625.50	\$3,100.50	\$3,100.50
28	2042	\$2,458	3.0%	10%	\$2,704.27	(471.11)	1,140.70	1,076.32	\$ -	\$ 475	\$ 475	\$2,704.27	\$3,179.27	\$3,179.27
29	2043	\$2,532	3.0%	10%	\$2,785.40	(544.87)	1,066.95	1,002.57	\$ -	\$ 475	\$ 475	\$2,785.40	\$3,260.40	\$3,260.40
30	2044	\$2,608	3.0%	10%	\$2,868.96	(620.83)	990.98	926.61	\$ -	\$ 475	\$ 475	\$2,868.96	\$3,343.96	\$3,343.96
31	2045	\$2,686	3.0%	10%	\$2,955.03	(699.08)	912.74	848.36	\$ -	\$ 475	\$ 475	\$2,955.03	\$3,430.03	\$3,430.03
32	2046	\$2,767	3.0%	10%	\$3,043.68	(779.67)	832.15	767.77	\$ -	\$ 475	\$ 475	\$3,043.68	\$3,518.68	\$3,518.68
33	2047	\$2,850	3.0%	10%	\$3,134.99	(862.68)	749.14	684.76	\$ -	\$ 475	\$ 475	\$3,134.99	\$3,609.99	\$3,609.99
34	2048	\$2,935	3.0%	10%	\$3,229.04	(948.18)	663.64	599.26	\$ -	\$ 475	\$ 475	\$3,229.04	\$3,704.04	\$3,704.04
35	2049	\$3,024	3.0%	10%	\$3,325.91	(1,036.24)	575.57	511.20	\$ -	\$ 475	\$ 475	\$3,325.91	\$3,800.91	\$3,800.91
36	2050	\$3,114	3.0%	5%	\$3,269.97	(1,126.95)	484.86	420.49	\$ -	\$ 475	\$ 420	\$3,269.97	\$3,744.97	\$3,690.46
37	2051	\$3,208	3.0%	5%	\$3,368.07	(1,220.38)	391.44	327.06	\$ -	\$ 391	\$ 327	\$3,368.07	\$3,759.51	\$3,695.13
38	2052	\$3,304	3.0%	5%	\$3,469.11	(1,316.61)	295.21	230.83	\$ -	\$ 295	\$ 231	\$3,469.11	\$3,764.32	\$3,699.95
39	2053	\$3,403	3.0%	5%	\$3,573.19	(1,415.72)	196.09	131.71	\$ -	\$ 196	\$ 132	\$3,573.19	\$3,769.28	\$3,704.90
40	2054	\$3,505	3.0%	5%	\$3,680.38	(1,517.81)	94.00	29.62	\$ -	\$ 94	\$ 30	\$3,680.38	\$3,774.38	\$3,710.01
41	2055	\$3,610	3.0%	5%	\$3,790.80	(1,622.97)	(11.16)	(75.53)	\$ -	\$ -	\$ -	\$3,790.80	\$3,790.80	\$3,790.80
42	2056	\$3,719	3.0%	5%	\$3,904.52	(1,731.28)	(119.46)	(183.84)	\$ -	\$ -	\$ -	\$3,904.52	\$3,904.52	\$3,904.52
43	2057	\$3,830	3.0%	5%	\$4,021.65	(1,842.83)	(231.02)	(295.40)	\$ -	\$ -	\$ -	\$4,021.65	\$4,021.65	\$4,021.65
44	2058	\$3,945	3.0%	5%	\$4,142.30	(1,957.74)	(345.93)	(410.30)	\$ -	\$ -	\$ -	\$4,142.30	\$4,142.30	\$4,142.30
45	2059	\$4,063	3.0%	5%	\$4,266.57	(2,076.09)	(464.28)	(528.65)	\$ -	\$ -	\$ -	\$4,266.57	\$4,266.57	\$4,266.57
46	2060	\$4,185	3.0%	0%	\$4,185.31	(2,197.99)	(586.18)	(650.56)	\$ -	\$ -	\$ -	\$4,185.31	\$4,185.31	\$4,185.31
47	2061	\$4,311	3.0%	0%	\$4,310.86	(2,323.55)	(711.74)	(776.11)	\$ -	\$ -	\$ -	\$4,310.86	\$4,310.86	\$4,310.86
48	2062	\$4,440	3.0%	0%	\$4,440.19	(2,452.88)	(841.07)	(905.44)	\$ -	\$ -	\$ -	\$4,440.19	\$4,440.19	\$4,440.19
49	2063	\$4,573	3.0%	0%	\$4,573.40	(2,586.08)	(974.27)	(1,038.65)	\$ -	\$ -	\$ -	\$4,573.40	\$4,573.40	\$4,573.40
50	2064	\$4,711	3.0%	0%	\$4,710.60	(2,723.29)	(1,111.47)	(1,175.85)	\$ -	\$ -	\$ -	\$4,710.60	\$4,710.60	\$4,710.60
51	2065	\$4,852	3.0%	0%	\$4,851.92	(2,864.60)	(1,252.79)	(1,317.17)	\$ -	\$ -	\$ -	\$4,851.92	\$4,851.92	\$4,851.92
52	2066	\$4,997	3.0%	0%	\$4,997.47	(3,010.16)	(1,398.35)	(1,462.72)	\$ -	\$ -	\$ -	\$4,997.47	\$4,997.47	\$4,997.47
53	2067	\$5,147	3.0%	0%	\$5,147.40	(3,160.09)	(1,548.27)	(1,612.65)	\$ -	\$ -	\$ -	\$5,147.40	\$5,147.40	\$5,147.40
54	2068	\$5,302	3.0%	0%	\$5,301.82	(3,314.51)	(1,702.69)	(1,767.07)	\$ -	\$ -	\$ -	\$5,301.82	\$5,301.82	\$5,301.82
55	2069	\$5,461	3.0%	0%	\$5,460.87	(3,473.56)	(1,861.75)	(1,926.12)	\$ -	\$ -	\$ -	\$5,460.87	\$5,460.87	\$5,460.87

Table E.1 Assumptions and inputs used to estimate OCWD WTP

APPENDIX F: Sensitive Plants and Animals in the Huntington Beach Wetland Area

Table F.1 Sensitive species known from the vicinity with potential to occur in the Huntington Beach Wetland complex	
Species	Common Name
Plants	
<i>Aphanisma blitoides</i>	Aphanisma
<i>Atriplex coulteri</i>	Coulter's Saltbush
<i>Atriplex pacifica</i>	South Coast Saltscale
<i>Atriplex serenana</i> var. <i>davisonii</i>	Davidson's Saltscale
<i>Astragalus pycnostachyus</i> var. <i>lanosissimus</i>	Ventura Marsh Milk-vetch
<i>Centromadia parryi</i> ssp. <i>Australis</i>	Southern Tarplant
<i>Cordylanthus maritimus</i> ssp. <i>maritimus</i>	Salt Marsh Bird's-beak
<i>Juncus acutus</i> ssp. <i>leopoldii</i>	Southwestern Spiny Rush
<i>Lasthenia glabrata</i> ssp. <i>coulteri</i>	Coulter's Goldfields
<i>Nemacaulis denudata</i> var. <i>denudata</i>	Coast Woolly-Heads
<i>Nama stenocarpum</i>	Mud Nama
<i>Navarretia prostrata</i>	Prostrate
<i>Navarretia Suaeda esteroa</i>	Estuary Seablite
Animals	
<i>Athene cunicularia</i>	Burrowing Owl
<i>Charadrius alexandrinus nivosus</i>	Western Snowy Plover
<i>Cicindela gabbi</i>	Gabb's Tiger Beetle
<i>Panoquina errans</i>	Salt Marsh Skipper
<i>Passerculus sandwichensis beldingi</i>	Belding's Savannah Sparrow
<i>Pelecanus occidentalis</i>	California Brown Pelican
<i>Rallus longirostris levipes</i>	Light-footed Clapper Rail
<i>Sterna antillarum browni</i>	California Least Tern
<i>Trigonoscuta dorothea dorothea</i>	Dorothy's El Segundo Dune Weevil
<i>Tryonia imitator</i>	Mimic Tryonia (California Brackish Water Snail)

Source: Merkel & Associates, 2004