SEASIDE GROUNDWATER BASIN WATERMASTER

NOTICE
BUDGET AND FINANCE COMMITTEE MEETING, SEPTEMBER 21, 2012 11:00 A.M. - SEASIDE CITY HALL CONFERENCE ROOM

AGENDA

Committee Members

City of Seaside
Daphne Hodgson - Chair

California American Water
Eric Sabolsice

City of Sand City
Steve Matarazzo

Coastal Subarea Landowners
Director Paul Bruno

The next Watermaster Budget / Finance Committee meeting will be held on Friday, September 21, 2012 at 11:00AM at the Seaside City Hall Conference Room.

The public may comment on any item within the committee's jurisdiction. Please limit comments to three minutes in length.

Action Item:

1. Discuss/Consider Recommendation to the Watermaster Board of the Proposed Unit Cost for Water Year 2012/13 Over Production Replenishment Assessment Amount

2. Discuss/Consider Recommendation to the Watermaster Board of the Proposed Fiscal Year 2013 Annual Budgets.

If requested, the agenda and documents in the agenda packet shall be made available in appropriate alternative formats to persons with a disability, as required by Section 202 of the Americans with Disabilities Act of 1990 (42 U.S.C. Sec. 12132), and the federal rules and regulations adopted in implementation thereof.

SEASIDE GROUNDWATER BASIN
WATERMASTER

TO: Board of Directors

FROM: Dewey D Evans, CEO

DATE: October 3, 2012

SUBJECT: Unit Cost for Water Year 2012/13 Over Production Replenishment Assessment Amount

RECOMMENDATION:

For the last three years the unit cost for over production replenishment assessment has remained at $2,780 per acre foot. Due to the lack of more supportable data the recommendation is to continue using the same $2,780 for the Water Year 2012/2013.

Seaside Groundwater Basin Watermaster
Administrative Fund
Proposed Budget
Administrative Years 2013 & 2014

	2012 Adopted Budget	2012 Estimated Expenses	2013 Proposed Budget
Assessment Income			
Reserve	$ 25,000	$ 25,000	$ 15,000
FY Rollover	60,000	25,000	-
Administrative Fund	-	-	80,000
Totals	85,000	50,000	95,000
Proposed Budget			
Contractual Services - Administrativ	60,000	60,000	70,000
Total Expenses	60,000	60,000	70,000
Total Available	25,000	(10,000)	25,000
Less Reserve	25,000	25,000	25,000
Net Available	$ -	$ -	$ -

Seaside Groundwater Basin Watermaster

Monitoring & Management - Operations Fund

Fiscal Year (January 1 - December 31, 2013)

Proposed Budget

	2012 Adopted Budget	Estimated 2012 Revenue/Expenses	2013 Proposed Budget
Available Balances & Assessments			
Monitoring & Management - Ops Fund	$ -	$ -	$ -
FY 2011 Rollover	337,954.00	751,900.00	583,900.00
Total Available	**$ 337,954.00**	**$ 751,900.00**	**$ 583,900.00**
Appropriations & Expenses			
GENERAL			
Technical Project Manager	$ 60,000.00	$ 36,000.00	$ 60,000.00
Contingency @ 20% (not including TPM)	39,584.00	-	39,844.00
Total General	**$ 99,584.00**	**$ 36,000.00**	**$ 99,844.00**
CONSULTANTS (Hydrometrics)			
Program Administration	$ 8,250.00		$ 8,600.00
Production/Lvl/Qlty Monitoring	3,450.00	$ 26,300.00	3,900.00
Basin Management Action Plan	50,780.00		75,000.00
Seawater Intrusion Contingency Plan	27,800.00	22,000.00	27,750.00
Total Consultants	**$ 90,280.00**	**$ 48,300.00**	**$ 115,250.00**
MPWMD			
Production/Lvl/Qlty Monitoring	$ 74,720.00	$ 80,000.00	$ 69,086.00
Basin Management	5,000.00	-	4,700.00
Seawater Intrusion	3,700.00	3,700.00	10,184.00
Direct Costs	-	-	-
Total MPWMD	**$ 83,420.00**	**$ 83,700.00**	**$ 83,970.00**
Reserve	**$ 24,220.00**	-	**$ -**
Transfer Out to Capital Fund		-	
Total Appropriations & Expenses	**$ 297,504.00**	**$ 168,000.00**	**$ 299,064.00**
Total Available	**40,450.00**	**583,900.00**	**284,836.00**

Seaside Groundwater Basin Management and Monitoring Program
FY 2013 Work Plan

The tasks outlined below are those that are anticipated to be performed during 2013. Some Tasks listed below are specific to 2013, while others Tasks recur throughout the program, such as data collection and database entry, and Program Administration Tasks.

Within the context of this document the term "Consultant" refers either to a firm providing professional engineering or other types of technical services, or to the Monterey Peninsula Water Management District (MPWMD). The term "Contractor" refers to a firm providing construction or field services such as well drilling, induction logging, or meter calibration.

M.1 Program Administration

M. 1. a Project Budget and Controls ($0)	Consultants will provide monthly or bimonthly invoices to the Watermaster for work performed under their contracts with the Watermaster. Consultants will perform maintenance of their internal budgets and schedules, and management of their subconsultants. The Watermaster will perform management of its Consultants.
M. 1. b Assist with Board and TAC Agendas ($0)	Watermaster staff will prepare Board and TAC meeting agenda materials. No assistance from Consultants is expected to be necessary to accomplish this Task.
M. 1. c. & M. 1. d Preparation for and Attendance at Meetings ($5,500)	The Consultants' work will require internal meetings and possibly meetings with outside governmental agencies and the public. For meetings with outside agencies, other Consultants, or any other parties which are necessary for the conduct of the work of their contracts, the Consultants will set up the meetings and prepare agendas and meeting minutes to facilitate the meetings. These may include planning and review meetings with Watermaster staff. The costs for these meetings will be included in their contracts, under the specific Tasks and/or subtasks to which the meetings relate. The only meeting costs that will be incurred under Tasks M.1.c and M.1.d will be: • Those associated with attendance at TAC meetings (either in person or by teleconference connection), including providing written monthly progress reports to the Watermaster for inclusion in the agenda packets for the TAC meetings, when requested by the Watermaster to do so. These progress reports will typically include project progress that has been made, problem identification and resolution, and planned upcoming work. and • From time-to-time when Watermaster staff asks Consultants to make special presentations to the Watermaster Board and/or the TAC, and which are not included in the Consultant's contracts for other tasks. Appropriate Consultant representatives will attend TAC meetings when requested to do so by Watermaster Staff (either in person or by teleconference connection), but will not be asked to prepare agendas or meeting minutes. As necessary, Consultants may provide oral updates to their progress reports (prepared under Task M.1.d) at the TAC meetings.
M. 1. e Peer Review of Documents and Reports ($3,100)	When requested by the Watermaster staff, Consultants may be asked to assist the TAC and the Watermaster staff with peer reviews of documents and reports prepared by various other Watermaster Consultants and/or entities.
M. 1. f QA/QC ($0)	A Consultant (MPWMD) will provide general QA/QC support over the Seaside Basin Monitoring and Management Program.

I. 2 Comprehensive Basin Production, Water Level and Water Quality Monitoring Program

I. 2. a. Database Management

I. 2. a. 1 Conduct Ongoing Data Entry and Database Maintenance/ Enhancement ($11,724)	The database will be maintained by a Consultant (MPWMD) performing this work for the Watermaster. MPWMD will enter new data into the consolidated database, including water production volumes, water quality and water level data, and such other data as may be appropriate. Another Consultant will periodically post database information to the Watermaster's website, so it will be accessible to the public and other interested parties. No enhancements to the database are anticipated during 2013.
I. 2. a. 2 Verify Accuracy of Production Well Meters ($0)	To ensure that water production data is accurate, the well meters of the major producers were verified for accuracy during 2009. No additional work of this type is anticipated during 2013.

I. 2. b. Data Collection Program

I. 2. b. 1 Site Representation and Selection. ($0)	The monitoring well network review that was started in 2008 has been completed, and sites have been identified where future monitoring well(s) could be installed, if it is deemed necessary to do so in order to fill in data gaps. No further work of this type is anticipated in 2013.
I. 2. b. 2 Collect Monthly Manual Water Levels. ($7,076)	Each of the monitoring wells will be visited on a monthly basis. Water levels will be determined by either taking manual water levels using an electric sounder, or by dataloggers. Pursuant to the Management and Monitoring Program approved by the Court in 2006, in 2013 wells at 2 additional sites in the Laguna Seca Subarea will be equipped with dataloggers taking measurements in two aquifers at each site. The cost included in this Task for equipping these additional wells is $2,400. Also included in the cost for this Task is the purchase of one replacement datalogger @ $500.
I. 2. b. 3 Collect Quarterly Water Quality Samples. ($48,738)	Water quality data will be collected quarterly from certain of the monitoring wells. In 2012 water quality analyses were expanded to include barium and iodide ions, to determine the potential benefit of performing these additional analyses. These two parameters have been useful in analyzing seawater intrusion potential in other vulnerable coastal groundwater basins, and are briefly mentioned in the Watermaster's annual Seawater Intrusion Analysis Reports. These parameters were added to the annual water quality sampling list for the four Watermaster Sentinel wells (SBWM-1, SBWM-2, SBWM-3, and SBWM-4), and also for the 3 most coastal MPWMD monitoring wells (MSC, PCA, and FO-09). Barium and iodide analyses will continue being performed in 2013. Water quality data may come from water quality samples that are taken from these wells and submitted to a State Certified analytic laboratory for general mineral and physical suite of analyses, or the data may come from induction logging of these wells and/or other data gathering techniques. The Consultant selected to perform this work will make this judgment based on consideration of costs and other factors. Under this Task in 2013 retrofitting will be completed on the wells that are sampled on an annual basis to use the new low-flow purge approach for getting water quality samples. The wells that are sampled quarterly have previously been retrofitted, and all except two of the wells that are sampled annually have been retrofitted. These two wells are FO-9 (Shallow) and FO-9 (Deep). The cost included in this Task to retrofit these two wells in 2013 is $1,500.

	This sampling equipment sits in the water column and may periodically need to be replaced or repaired. $500 is included in the cost of this Task for performing ongoing maintenance and/or replacement of the sample collection equipment.
I. 2. b. 4 Update Program Schedule and Standard Operating Procedures. ($0)	All recommendations from prior reviews of the data collection program have been implemented. No additional work of this type is anticipated in 2013.
I. 2. b. 5. Monitor Well Construction ($0)	An additional monitoring well was installed in 2009. No further work of this type is anticipated in 2013.
I. 2. b.6 Reports ($5,448)	The groundwater level and quality monitoring will be conducted on a monthly, quarterly, and annual basis, as described in the Consultant's Scope of Work. Reports summarizing data collected and analyzed will be submitted to the Watermaster on a schedule to be established during the year, and will consist of: • One combined report summarizing the water production data and summarizing and analyzing the water quality and water level data from the 1st & 2nd Quarters of the Water Year. • One annual report summarizing the water production data and summarizing and analyzing the water quality and water level data from the 3rd & 4th Quarters of the Water Year, and containing tables consolidating the data from the quarterly reports and a narrative summarization of the findings, conclusions, and recommendations from the quarterly reports. This annual report may include, as attachments, each of the quarterly reports.
	I. 3 Basin Management
I. 3. a. Enhanced Seaside Basin Groundwater Model (Costs listed in subtasks below)	The Watermaster and its consultants use a Groundwater Model for basin management purposes.
I.3.a.1 Update the Existing Model ($0)	The existing Model, described in the report titled "Groundwater Flow and Transport Model" dated October 1, 2007, was updated in 2009 in order to develop protective water levels, and to evaluate replenishment scenarios and develop answers to Basin management questions (Tasks I.3.a.2 and I.3.a.3). No further work of this type is anticipated in 2013.
I. 3. a. 2 Develop Protective Water Levels ($25,000)	A series of cross-sectional models was created in 2009 in order to develop protective water levels for selected production wells, as well as for the Basin as a whole. This work is discussed in Hydrometrics' "Seaside Groundwater Basin Protective Water Elevations Technical Memorandum." In subsequent years further work was scheduled and budgeted to be done to refine these protective water levels to find the most cost-effective approach to provide the desired degree of protection. However, not all of the information needed to perform the refinements was available in those years, so this Task has been rescheduled to occur in 2013.

I. 3. a. 3 Evaluate Replenishment Scenarios and Develop Answers to Basin Management Questions ($25,000)	In 2009 the updated Model was used to evaluate different scenarios to determine such things as the most effective methods of using supplemental water sources to replenish the Basin and/or to assess the impacts of pumping redistribution. This work is described in HydroMetrics' "Seaside Groundwater Basin Groundwater Model Report." In 2010 HydroMetrics used the updated Model to develop answers to some questions associated with Basin management. If requested by the Watermaster additional work may be performed in 2013 to answer additional questions.
I. 3. b. Complete Preparation of Basin Management Action Plan ($0)	The Watermaster's Consultant completed preparation of the Basin Management Action Plan (BMAP) in February 2009. The BMAP serves as the Watermaster's long-term seawater intrusion prevention plan. The Sections that are included in the BMAP are: Executive Summary Section 1 – Background and Purpose Section 2 – State of the Seaside Groundwater Basin Section 3 – Supplemental Water Supplies Section 4 –Groundwater Management Actions Section 5 – Recommended Management Strategies Section 6 – References The only work which is anticipated to be performed on the BMAP in 2013 is discussed under Task I. 3. c.
I. 3. c. Refine and/or Update the Basin Management Action Plan ($25,000)	During 2013 it may be beneficial to update the BMAP based on new data, and/or knowledge that is gained from the work described under Tasks I. 3. a. 2 and/or I. 3. a. 3. Such work might involve issues pertaining to Basin storage capacity, water storage rights, or pumping redistribution strategies. This work has been scheduled and budgeted in several of the preceding years, but not all of the information needed to update the BMAP was available at those times. Therefore, the updating has been rescheduled to occur in 2013. This task is included primarily for budgeting purposes in the event such work is deemed necessary.
I. 3. d. Evaluate Coastal Wells for Cross-Aquifer Contamination Potential ($4,700)	If seawater intrusion were to reach any of the coastal wells in any aquifer, and if a well was constructed without proper seals to prevent cross-aquifer communication, or if deterioration of the well had compromised these seals, it would be possible for the intrusion to flow from one aquifer to another. An evaluation of this was completed in 2012 and is described in MPWMD's Memorandum titled "Summary of Seaside Groundwater Basin Cross-Aquifer Contamination Wells Investigation Process and Conclusions" dated August 8, 2012. This Memorandum did not recommend performing any further work on this matter at this time, other than to incorporate into the Watermaster's Database data from wells that were newly identified by the work performed in 2012.
I. 4 Seawater Intrusion Response Plan (formerly referred to as the Seawater Intrusion Contingency Plan)	
I. 4. a. Oversight of Seawater Intrusion Detection and Tracking ($4,664)	Consultants will provide general oversight over the Seawater Intrusion detection program.
I. 4. b. Focused Hydrogeologic Evaluation ($7,520)	A Consultant will compile historical and current water quality data in the coastal area to provide more in-depth evaluation of conditions in the shallow Dune Sand/Aromas Sand aquifer in the vicinity of the Sand City Public Works well, where unique water quality conditions and variability have recently been observed as discussed at TAC meetings. The results of this work will be summarized in a brief Technical Memorandum with conclusions and recommendations.

I. 4. c. **Annual Report- Seawater Intrusion Analysis ($25,750)**	At the end of each water year, a Consultant will reanalyze all water quality data. Semi-annual chloride concentration maps will be produced for each aquifer in the basin. Time series graphs, trilinear graphs, and stiff diagram comparisons will be updated with new data. The annual EM logs will be analyzed to identify changes in seawater wedge locations. All analyses will be incorporated into an annual report that follows the format of the initial, historical data report. Potential seawater intrusion will be highlighted in the report, and if necessary, recommendations will be included. The annual report will be submitted for review by the TAC and the Board. Modifications to the report will be incorporated based on input from these bodies, as well as Watermaster staff.
I. 4. d **Complete Preparation of Seawater Intrusion Response Plan ($0)**	The Watermaster's Consultant (HydroMetrics) completed preparation of the long-tem Seawater Intrusion Response Plans (SIRP) in February 2009. The Sections that are included in the SIRP are: Section 1 – Background and Purpose Section 2 – Consistency with Other Documents Section 3 – Seawater Intrusion Indicators and Triggers Section 4 –Seawater Intrusion Contingency Actions Section 5 - References No further work on the SIRP is anticipated in 2013.
I. 4. e. **Refine and/or Update the Seawater Intrusion Response Plan ($0)**	At the beginning of 2009 it was thought that it might be beneficial or necessary to perform work to refine the SIRP and/or to update it based on new data or knowledge that was gained subsequent to the preparation of the SIRP. However, this did not prove to be necessary, and no further work of this type is anticipated in 2013.
I. 4. f. **If Seawater Intrusion is Determined to be Occurring, Implement Contingency Response Plan ($0)**	The SIRP will be implemented if seawater intrusion, as defined in the Plan, is determined by the Watermaster to be occurring.

Management and Monitoring Plan Operations Budget For Tasks to be Undertaken in 2013								Comparative Costs from 2012 Budget
Task	Subtask	Sub-Subtask	Cost Description	CONSULTANTS & CONTRACTORS[3]			Total	
				MPWMD	Private Consultants	Contractors		
Labor								
			Technical Project Manager	$0	$60,000	$0	$60,000	$60,000
M.1 Program Administration								
	M.1.a		Project Budget and Controls	$0	$0	$0	$0	$0
	M.1.b		Assist with Board and TAC Agendas	$0	$0	$0	$0	$0
	M.1.c & M.1.d		Preparation for and Attendance at Meetings[8]	$0	$5,500	$0	$5,500	$5,150
	M.1.e		Peer Review of Documents and Reports[8]	$0	$3,100	$0	$3,100	$3,100
	M.1.f		QA/QC	$0	$0	$0	$0	$0
I.1 Initial Phase 1 Monitoring Well Construction (Task Completed in Phase 1)								
I.2 Production, Water Level and Quality Monitoring								
	I. 2. a.		Database Management					
		I. 2. a. 1.	Conduct Ongoing Data Entry/ Database Maintenance/Enhancement	$9,324	$2,400	$0	$11,724	$12,300
		I. 2. a. 2.	Verify Accuracy of Production Well Meters	$0	$0	$0	$0	$0
	I. 2. b.		Data Collection Program					
		I. 2. b. 1.	Site Representation and Selection[7]	$0	$0	$0	$0	$0
		I. 2. b. 2.	Collect Monthly Water Levels[6]	$7,076	$0	$0	$7,076	$3,450
		I. 2. b. 3.	Collect Quarterly Water Quality Samples[1][5][6]	$33,238	$0	$15,500	$48,738	$55,520
		I. 2. b. 4.	Update Program Schedule and Standard Operating Procedures.	$0	$0	$0	$0	$0
		I. 2. b. 5.	Monitor Well Construction[7]	$0	$0	$0	$0	$0
		I. 2. b. 6.	Reports	$3,948	$1,500	$0	$5,448	$6,900
I.3 Basin Management								
	I. 3. a.		Enhanced Seaside Basin Groundwater Model	(Costs Shown in Subtasks Below)				
		I. 3. a. 1	Update the Existing Model	$0	$0	$0	$0	$0
		I. 3. a. 2	Develop Protective Water Levels [11]	$0	$25,000	$0	$25,000	$25,000
		I. 3. a. 3	Evaluate Replenishment Scenarios and Develop Answers to Basin Management Questions[11]	$0	$25,000	$0	$25,000	$25,000
	I. 3. b.		Complete Preparation of Basin Management Action Plan	$0	$0	$0	$0	$0
	I. 3. c.		Refine and/or Update the Basin Management Action Plan [11]	$0	$25,000	$0	$25,000	$25,000
	I. 3. d		Evaluate Coastal Wells for Cross-Aquifer Contamination Potential	$4,700	$0	$0	$4,700	$5,000
I.4 Seawater Intrusion Contingency Plan								
	I. 4. a.		Oversight of Seawater Intrusion Detection and Tracking	$2,664	$2,000	$0	$4,664	$5,750
	I. 4. b.		Provide focused area hydrogeologic investigation for Sand City Public Works	$7,520	$0	$0	$7,520	$0
	I. 4. c.		Annual Report- Seawater Intrusion Analysis	$0	$25,750	$0	$25,750	$25,750
	I. 4. d.		Complete Preparation of Seawater Intrusion Response Plan[2]	$0	$0	$0	$0	$0
	I. 4. e.		Refine and/or Update the Seawater Intrusion Response Plan[2][9]	$0	$0	$0	$0	$0
	I. 4. f.		If Seawater Intrusion is Determined to be Occurring, Implement Contingency Response Plan[2]	(No Costs are Included for This Task, as This Task Will Likely Not be Necessary During 2013. If it Does Become Necessary, Use of Contingency Funds or a Budget Modification Will Likely be Necessary)				
TOTALS CONSULTANTS & CONTRACTORS				**$68,470**	**$175,250**	**$15,500**		
SUBTOTAL not including Technical Program Manager =							$199,220	$197,920
Contingency (not including Technical Program Manager) @ 20%[4] =							$39,844	$39,584
Technical Program Manager =							$60,000	$60,000
TOTAL=							**$299,064**	$297,504

Footnotes:

(1) An outside contractor would be used to perform the induction logging, and potentially to also collect some water quality samples in conjunction with doing the induction logging. MPWMD is expected to perform portions of the work of this Subtask, and will be the party that subcontracts with the Contractor to perform the induction logging and sample collection work on certain of the wells.

(2) The response plan would only be implemented in the event sea water intrusion is determined to be occurring.

(3) Within the context of this document the term "Consultant" refers either to a Private Consultant providing professional engineering or other types of technical services, or to the Monterey Peninsula Water Management District (MPWMD). The term "Contractor" refers to a firm providing construction or field services such as well drilling, induction logging, or meter calibration.

(4) Due to the uncertainties of the exact scopes of some of the Tasks listed above at the time of preparation of this Budget, e.g. Tasks I.3.a, I.3.c, and I.3.d, it is recommended that a 20% Contingency be included in the Budget.

(5) Includes $1,500 in well site retrofitting costs to make some of these wells available for use as monitoring wells, as well as $500 to maintain equipment previously installed for this purpose. Also includes lab costs to analyze for barium and iodide ions in certain of these wells as was done in 2012.

(6) Does not include costs for MPWMD to collect water level data or water quality samples from wells other than those that are part of the basic monitoring well network, i.e. for private well owners who have requested that the Watermaster obtain this data for them. Costs to obtain that data are to be reimbursed to the Watermaster by those well owners, so there should be no net cost to the Watermaster for that portion of the work under these Tasks.

(7) No additional monitoring well is expected to be constructed in 2013.

(8) For HydroMetrics to provide hydrogeologic consulting assistance to the Watermaster, beyond that associated with performing other Tasks, when requested to do so by the Technical Program Manager.

(9) If work under this Task is found to be necessary, it will be funded through the Contingency line item in this Budget.

(10) Does not include funds for Database enhancement, as it is assumed that all desired enhancements have already been made.

(11) If necessary to reflect knowledge gained from modeling work or other data sources. Provides funds for work originally budgeted in prior years, but which has been rescheduled to 2013.

Management and Monitoring Plan Capital Budget For Tasks to be Undertaken in 2013

No Capital projects are anticipated to be undertaken in 2013, so this budget is $0.

Management and Monitoring Plan Capital Budget For Tasks to be Undertaken in 2014

No Capital projects are anticipated to be undertaken in 2014, so this budget is $0.

Seaside Groundwater Basin Watermaster VI.B

Replenishment Fund 10/3/2012

Water Year 2013 (October 1 - September 30) / Fiscal Year (January 1 - December 31, 2013

Proposed Budget

Replenishment Fund	2006	2007	2008	2009	2010	2011	Estimated 2012	Estimated Totals Through WY 2012	Proposed Budget 2013	Projected Totals Through WY 2013
Assessments:	WY 05/06	WY 06/07	WY 07/08	WY 08/09	WY 09/10	WY 10/11	WY 11/12		WY 12/13	
Unit Cost:	$1,132	$1,132	$2,485	$3,040	$2,780	$2,780	$2,780		$2,780	
Cal-Am Water Balance Forward	**$ -**	**$ 1,641,004**	**$ 4,206,475**	**$ (2,900,435)**	**$ (2,868,685)**	**$ (3,850,964)**	**$ (6,088,909)**		**$ (2,769,589)**	
Exceeding Natural Safe Yield Considering Alternative Producers	2,106,652	2,484,533	5,164,969	3,773,464	4,112,933	3,187,854	3,319,320	$ 24,149,726	3,449,961	$ 27,599,687
Operating Yield Overproduction Replenishment	-	80,938	34,045	-	-	-	-	114,983	-	114,983
Total California American	**$ 2,106,652**	**$ 2,565,471**	**$ 5,199,014**	**$ 3,773,464**	**$ 4,112,933**	**$ 3,187,854**	**$ 3,319,320**	**$ 24,264,709**	**$ 3,449,961**	**$ 27,714,670**
CAW Credit Against Assessment	(465,648)		(12,305,924)	$ (3,741,714)	(5,095,213)	(5,425,799)	-	(27,034,298)	-	(27,034,298)
CAW Unpaid Balance	***$ 1,641,004***	***$ 4,206,475***	***$ (2,900,435)***	***$ (2,868,685)***	***$ (3,850,964)***	***$ (6,088,909)***	***$ (2,769,589)***	***$ (2,769,589)***	***$ 680,372***	***$ 680,372***
City of Seaside Balance Forward	**$ -**	**$ 230,671**	**$ 413,454**	**$ 1,106,116**	**$ 1,737,569**	**$ 988,414**	**$ (13,109)**		**$ (1,063,109)**	
City of Seaside Municipal	**332.0 AF**	**387.7 AF**	**294.3 AF**	**293.4 AF**	**282.9 AF**	**240.7 AF**	**247.6 AF**			
Exceeding Natural Safe Yield Considering Alternative Producers	169,200	173,739	385,642	399,211	231,961	141,335	150,000	$ 1,651,088	150,000	$ 1,801,088
Operating Yield Overproduction Replenishment	50,487	340	16,898	66,090	82,761	-	-	216,575	-	216,575
Total Municipal	219,687	174,079	402,540	465,300	314,721	141,335	150,000	1,867,663	150,000	2,017,663
City of Seaside - Golf Courses										
Exceeding Natural Safe Yield - Alternative Producer	-	-	131,705	69,701	-	-	-	201,406	-	201,406
Operating Yield Overproduction Replenishment	-	-	131,705	69,701	-	-	-	201,406	-	201,406
Total Golf Courses	-	-	263,410	139,402	-	-	-	402,812	-	402,812
Total City of Seaside*	**$ 219,687**	**$ 174,079**	**$ 665,950**	**$ 604,702**	**$ 314,721**	**$ 141,335**	**$ 150,000**	**$ 2,270,475**	**$ 150,000**	**$ 2,420,475**
City of Seaside Late Payment 5%	10,984	8,704	26,712	26,750	15,737			88,887		88,887
In-lieu Credit Against Assessment	-		-	$ -	(1,079,613)	(1,142,858)	(1,200,000)	(3,422,471)	(1,200,000)	(4,622,471)
City of Seaside Unpaid Balance	***$ 230,671***	***$ 413,454***	***$ 1,106,116***	***$ 1,737,569***	***$ 988,414***	***$ (13,109)***	***$ (1,063,109)***	***$ 3,400,005***	***$ (2,113,109)***	***$ (2,113,109)***
Total Replenishment Fund Balance	**$ 1,871,675**	**$ 4,619,929**	**$ (1,794,319)**	**$ (1,131,116)**	**$ (2,862,551)**	**$ (6,102,019)**	**$ (3,832,699)**	**$ 630,416**	**$ (1,432,738)**	**$ (1,432,738)**
Replenishment Fund Balance Forward	-	**$ 1,871,675**	**$ 4,619,929**	**$ (1,794,319)**	**$ (1,131,116)**	**$ (2,862,551)**	**$ (6,102,019)**		**$ (2,632,699)**	
Total Replenishment Assessments	2,337,323	2,748,254	5,891,676	4,404,917	4,443,391	3,329,189	3,469,320	26,624,070	3,599,961	**30,224,031**
Total Paid and/or Credited	(465,648)	-	(12,305,924)	(3,741,714)	(6,174,826)	(6,568,657)	-	(29,256,769)	-	**(29,256,769)**
Grand Total Fund Balance	**$ 1,871,675**	**$ 4,619,929**	**$ (1,794,319)**	**$ (1,131,116)**	**$ (2,862,551)**	**$ (6,102,019)**	**$ (2,632,699)**	**(2,632,699)**	**$ 967,262**	**$ 967,262**