

- Does use of the variable “crowd out” or diminish the weight in the formula of a more representative variable?
- As the underlying data for the variables could change over time (e.g., number of radios), which could affect their cost share, is the participating agency willing to report the updated information?

Table 3 lists some potential variables and their applicability to capital and O&M costs; more may be identified as the formula specification process continues.

Table 3. Potential Variables for LMR and LTE Cost Sharing Formulas

System/ Variable	Description	Measure of Cost	Variable applied to Capital Cost	Variable applied to O&M Cost
LMR				
Total actual radios in inventory	A jurisdiction’s inventory of radios for first and second responders	Measures the capacity of a jurisdiction’s use of the LA-RICS system; the higher the inventory, the increased capacity required of the	X	
Monthly average radios in daily use	A jurisdiction’s typical radio use for first and second responders	Measures the typical usage by a jurisdiction of the LA-RICS system; the higher the average radio use, the greater the impact to the system.		X
Dispatched calls for service	A jurisdiction’s origin of use of the LA-RICS system by first and second responders	Measures to a degree each jurisdiction’s local environment; the higher the dispatch calls for service, the greater the impact to the system.		X
Jurisdiction residential population	A jurisdiction’s current resident population	Measures the size of population as a predictor of system use; in general, the greater the population, the greater the impact to the system.	X	X
LTE				
High speed data units	A jurisdiction’s inventory of high speed data units that require broadband access (mobile devices, tablets, PDAs, etc.) for first and second responders	Measures the capacity of a jurisdiction’s use of the LA-RICS system; the higher the inventory, the increased capacity required of the system.	X	X

System/ Variable	Description	Measure of Cost	Variable applied to Capital Cost	Variable applied to O&M Cost
Jurisdiction maximum data available	A jurisdiction's maximum allotted broadband usage using current broadband estimates for first and second responders	Measures the capacity of a jurisdiction's use of the LA-RICS system; the higher the maximum data available, the increased capacity required of the system.	X	
Jurisdiction average daily data use	A jurisdiction's typical daily broadband use for first and second responders	Measures the typical usage by a jurisdiction of the LA-RICS system; the higher the average broadband use, the greater the impact to the system.		X
Jurisdiction residential population	A jurisdiction's current resident population	Measures the size of population as a predictor of system use; in general, the greater the population, the greater the impact to the system.	X	X

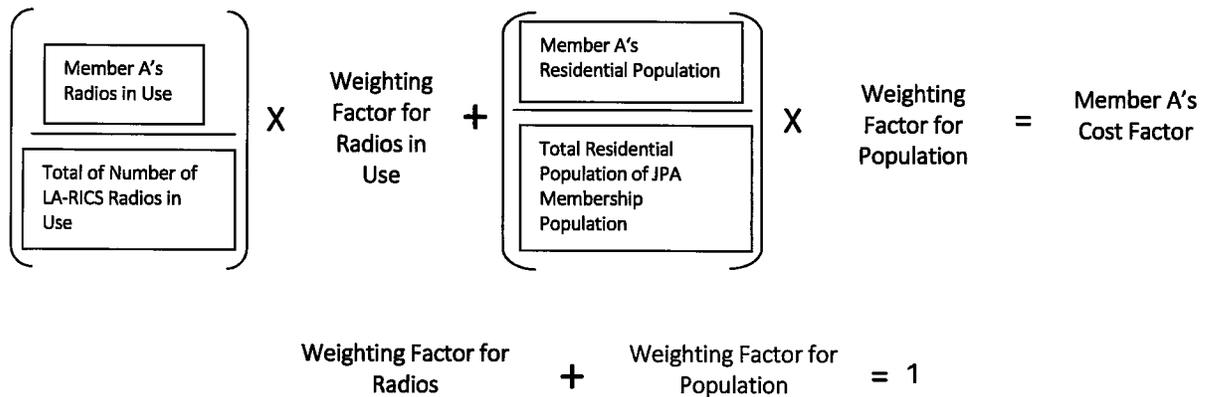
Use of Variables

Initially the cost formulas for LMR and LTE will be based primarily on the information provided by the members and can be refined and updated over time as more information becomes available. Each member would report the quantity or volume for each variable used in the formulas. As LA-RICS becomes operable, the system itself may be able to capture the required information in lieu of reporting by the members.

LMR Formula

A system-wide total for each variable is derived by summing all members' quantities for that variable. A member's variable factor will be determined by dividing its quantity by the system total. A weight factor determined by the members during the stakeholder meetings is then applied to the variable. The weight factor is used to measure the significance of the particular variable relative to other variables in predicting the cost share for each member. **Figure 2** illustrates how the share of LMR operations cost for a given member would be calculated using the average number of radios in use and the member's population. The variables are identified for illustration purposes only.

Figure 2. Formula for LMR O&M Cost Allocation



Note: Variables for illustration purposes only.

The weighting factors in the above illustration will be determined based on stakeholder input. The weighting factors must sum to one which will also be the total of all members' cost factors added together. The cost factor derived from the above illustration would then be multiplied by either the annual total LMR O&M cost or the total LMR Life Cycle Cost to arrive at the member's cost share for O&M or capital. The members' share of the cost for O&M and capital would be calculated separately but using the same apportionment method illustrated above and possibly with different variables and different weighting factors that will be determined based on stakeholder input. **Figure 3** provides an illustration of the apportionment using hypothetical figures.

Figure 3. Illustration of Cost Allocation Formula

Assumptions: Member A has 200 radios in use. There are 1,500 total radios in use in LA-RICS. Member A has 90,000 population. Total population is 500,000 in LA-RICS. Weighting factor is 60% for radios in use variable, and 40% for population variable to illustrate the relative importance of each variable on the the cost share. Weighting factors will be determined during stakeholder workshop.

$$[(200/1,500) \times 60\%] + [(90,000/500,000) \times 40\%] = \text{Member A's Cost Factor}$$

$$(0.079) + (0.072) = 0.151$$

If Annual Total Cost is \$1M, then Member A's Cost Share is = \$1M x 0.151 = \$151,000

Note: Variables for illustration purposes only.

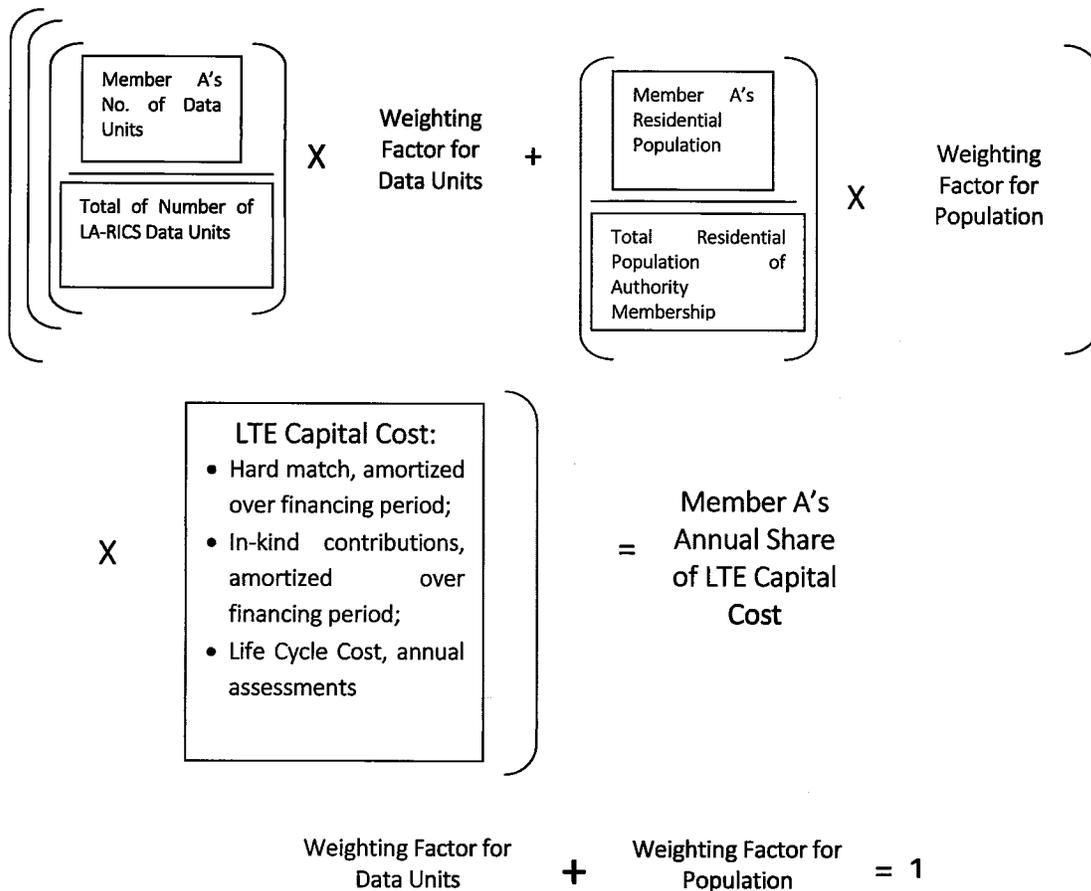
LTE Formulas

The formulas for LTE cost sharing have the same general structure as LMR described above, but with different variables and cost components. The LTE BTOP grant requires a hard cash match of approximately 10 percent and a soft match of 10 percent that may be provided by in-kind contributions. For the purpose of illustration the hard and soft match plus the LTE Life Cycle Cost

are combined to equal the LTE capital cost to be apportioned. In the actual Funding Plan these costs may be broken out separately. Each cost can also be separated for their respective apportionments through replication of the formula. The in-kind contributions include non-infrastructure items such as administrative support and program management, but the total in-kind contribution is considered for the purposes of LTE capital cost apportionment.

In **Figure 4**, two capital-related variables are indicated for LTE: high speed data units and residential population. The illustration below indicates how the infrastructure components of the LTE program would figure into the members’ share of capital cost.

Figure 4. Formula for LTE Capital Replacement Cost Allocation



Note: Variables for illustration purposes only.

LTE capital costs and member shares are annualized amounts, assuming that members spread their total capital cost shares such as for lifecycle replacement over time.

The LTE O&M cost formula would follow the same format as the LMR’s O&M formula, as shown in **Figure 5**, below. For illustration, the variables used are daily data usage and total available data.

Figure 5. Formula for LTE O&M Cost Allocation

$$\left(\frac{\text{Member A's Daily Data Usage}}{\text{Total of Daily Usage of Authority Membership}} \right) \times \text{Weighting Factor for Radios} + \left(\frac{\text{Member A's Total Available Data}}{\text{Total Available Data of Authority Membership}} \right) \times \text{Weighting Factor for Population} = \text{Member A's Cost Factor}$$

$$\text{Weighting Factor for Radios} + \text{Weighting Factor for Population} = 1$$

Note: Variables for illustration purposes only.

Draft annual fee estimates by member agency were developed for the LA-RICS LMR and LTE systems using the cost allocation process described above. Fee estimates are shown for LA-RICS members with their own independent police and/or fire services. Estimated fees for full contract cities are not calculated, as fees for full contract cities will be determined by each member’s contract terms with Los Angeles County. However, where full contract members report secondary responder information, fee estimates are provided for that portion. Also, if a full contract member did not submit a survey for secondary responder information, a fee was not calculated. Full contract cities are as follows:

- City of Agoura Hills
- City of Artesia
- City of Bellflower
- City of Bradbury
- City of Calabasas
- City of Carson
- City of Cerritos
- City of Commerce
- City of Duarte
- City of Hawaiian Gardens
- City of Hidden Hills
- City of Industry
- City of La Cañada Flintridge
- City of La Mirada
- City of La Puente
- City of Lakewood
- City of Lancaster
- City of Lawndale
- City of Lynwood
- City of Maywood
- City of Norwalk
- City of Palmdale
- City of Paramount
- City of Pico Rivera
- City of Rancho Palos Verdes
- City of Rolling Hills Estates
- City of Rosemead
- City of San Dimas
- City of Santa Clarita
- City of South El Monte
- City of Temple City
- City of Walnut
- City of Westlake Village

A survey was distributed to the member agencies in early February 2014 to collect updated data for the cost model. The need for updated data was in response to suggestions by member agencies attending the third round of funding plan workshops. Forty-eight (48) member agencies responded to the survey. Of the thirty-eight (38) member agencies that did not provide a response, twenty-one (21) members contract with the County for police, fire, and EMS. The remaining non-respondents are members who either contract only for fire with the County, or are independent cities.

Assignment of Cost Share Data

The Funding Plan requires data input on the variables from members to specify the cost-sharing amounts. The reliance on data from members provides a component of local influence in that a jurisdiction's provided data will directly impact its cost share. Data not provided by members, non-members, or withdrawn members are assigned an allocation of their variables for purposes of calculating a "standby" share cost, and to minimize burden on the participating members. Cost shares are re-calculated for all members whenever there is buy in from new or returning members.

In order to provide fee estimates for all members that either do not contract services with the County, or contract for only one service with the county, data for non-responders to the survey under this group was extrapolated using actual data from the submitted surveys. The extrapolation consisted of deriving a multiplier coefficient for each of the data variables. The coefficient is the ratio of the total sum of the data variable (radios, for example) divided by the total population of all survey respondents. This coefficient is then multiplied by the population of each survey non-responder to estimate its respective data variable.

Those members with extrapolated estimates who did not submit a survey are identified in the funding plan. Other members that submitted a survey did not include all requested data. For example, a member reported one piece of data (e.g., average radios), but did not report another requested piece (e.g., total radios). Similarly, a member reported the number of high speed data units, but did not report the average daily data usage. To bridge these data gaps, the coefficient method described above is used to complete the data input.

Mutual Aid Agreement Affiliates

Agencies that have formal mutual aid agreements with Authority members may receive limited authorization to utilize the RICS network as a result of the mutual aid agreement. Access to the RICS system will be limited to those communications essential to and within the scope of such mutual aid operations.

Buy-in Cost for Late Adopters

The Funding Plan is predicated on the assumption of full participation of every member of the Authority. That is, the member shares will be calculated assuming every potential member is paying its indicated annual share. However, this scenario is not likely to occur in the initial years

as some members will exercise their right to withdraw as allowed under the Authority agreement. An agency may make a financial decision to delay participation until such time as their communication system equipment completes its normal replacement cycle and thus the agency's capital investment is fully amortized.

For every member that chooses not to participate, its annual share of the cost must be assumed by the Authority should total system costs be higher than the revenues collected from early participating members. In this instance, bridge financing may be required to make up the difference. Alternatively, early participating members would have to absorb the costs of non-participants resulting in a higher cost for the early members.

Each year a member does not join LA-RICS, its allocated but unpaid cost share of the LTE hard match and both LMR and LTE capital replacement will accumulate. The allocated share of a member's hard match will be based on a measure such as population or the cost allocation formula while capital replacement is based on the cost allocation formula. Further, the opportunity for an agency to buy in later into the program will include paying its accumulated unpaid LTE hard match share, plus one-time buy-in charges based upon a progressive rate schedule tied to the length of time a member does not join. Assuming the Authority or a member agency incurs carrying cost of loans or funds for advanced funding to pay the LMR and LTE agreements, the buy-in charges would contribute toward repaying these carrying costs and other advanced payments made by early adopters in absorbing costs of non-participants. Description, formula and examples of the buy-in method are contained in the Appendix and using sample members and their costs for LMR and LTE Scenario 12.

Some Members may have special radio or broadband coverage challenges (e.g., hilly terrain or clusters of tall buildings) that the standard backbone systems would be unable to meet. Those Members may require additional sites or facilities for an acceptable level of service. If so, those members, and not LA-RICS, would be responsible for the costs of building and maintaining these facilities. (Note that this does not preclude LA-RICS from being the agency that does the actual work of constructing or maintaining these facilities.)

Incentives for Early Adopters

The Funding Plan described here does not provide a direct financial incentive per se to "early adopters" (current members who do not withdraw after approval of the final Funding Plan) other than the potential for avoiding higher cost payments for late adopters as described above. As other existing communications systems become dated, a program of incentives may be considered as a means to influence a jurisdiction's decision to be an early adopter, or to rejoin the Authority at an earlier period after withdrawing. These may include receiving some relief from the LTE hard and/or soft matches (e.g. reduced cost share), and receiving compatible radios for LA-RICS from the Authority. Possible incentives/penalties include:

- For the LTE program, some portion of the hard and/or soft match recovery costs may be forgiven for early adopters. Alternatively, this incentive could apply to early adopters of both LMR and LTE.

- Early adopters can take advantage of favorable interest rates for amortized principal (LTE hard and soft match).

Phasing of Construction

The original concept assumed LTE construction costs and the hard match payments based on construction were not phased. That is, the entire hard match is treated as payable principal amount at the beginning, but with annual payments then spread-out over a 15-year financing period. A modification of that model assumes that the hard match payments will be due upon the actual progress payments made to the PSBN contractor when construction milestones are reached. At this time the particular milestones have not been identified, or whether only certain areas will benefit from the system prior to others. The phasing and location of construction will determine the possible scenarios for member payment and cash flow. As described in the JPA agreement, the funding plan will illustrate the general timing and phasing for project implementation, which will allow JPA members to understand the approximate time frames for when the system will come on line and they will be required to contribute to the system.

Cash Flow

The LA-RICS funding plan provides a projection of cash flow of project expenses based on construction milestones and system operability, and the impact on members' fees. The cash flow required for the LMR system backbone is developed for the time period of FY 2017/18 through FY 2031/32, a 15 year period. The cash flow is presented assuming participation by all JPA members from system implementation. Potential major funding sources for the LMR backbone include Los Angeles County, City of Los Angeles, Long Beach, and all other Independent Cities.

The cash flow required for the LTE system backbone is developed separately for the time period of FY 2015/16 through FY 2031/32, a 17 year period to match the end years with LMR. The cash flow is presented assuming participation by all JPA members from system implementation. Potential major funding sources for the LTE backbone include Los Angeles County, City of Los Angeles, Long Beach, and all other Independent Cities.

Cash flow is conducted for one LRM scenario and five LTE system implementation scenarios including:

Scenario 1, Baseline

Scenario 2, Excluding LTE In-Kind Match

Scenario 3, Excluding LTE In-Kind Match and Capital Replacement

Scenario 8, Excluding In-Kind Match and Adding Maintenance for Home Subscriber Server (HSS)

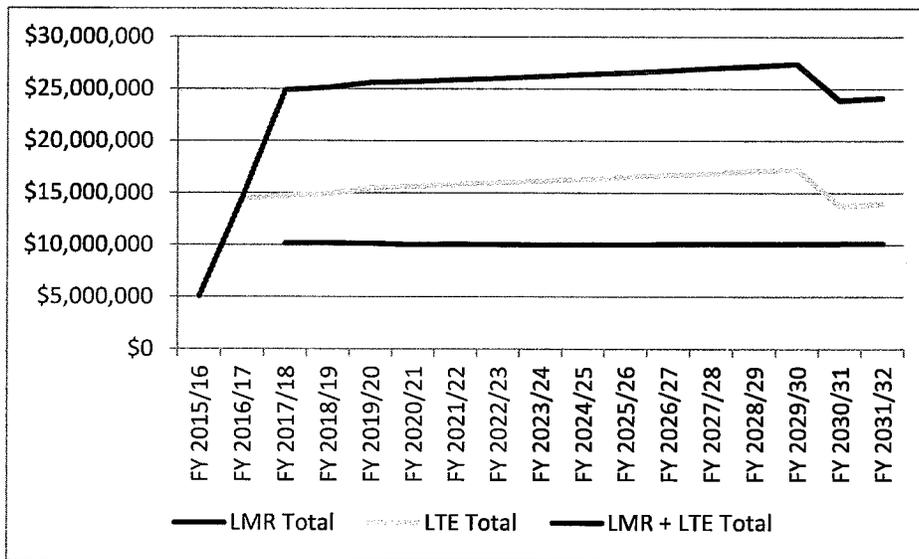
Scenario 12, Excluding In Kind and Capital Replacement, and Adding Maintenance for Home Subscriber Server (HSS) and Redundant Evolved Packet Core

The Appendix contains the detailed Cash Flow for each scenario in which LMR and LTE system costs are shown on an annual basis. Following these costs, the member fees on an annual basis

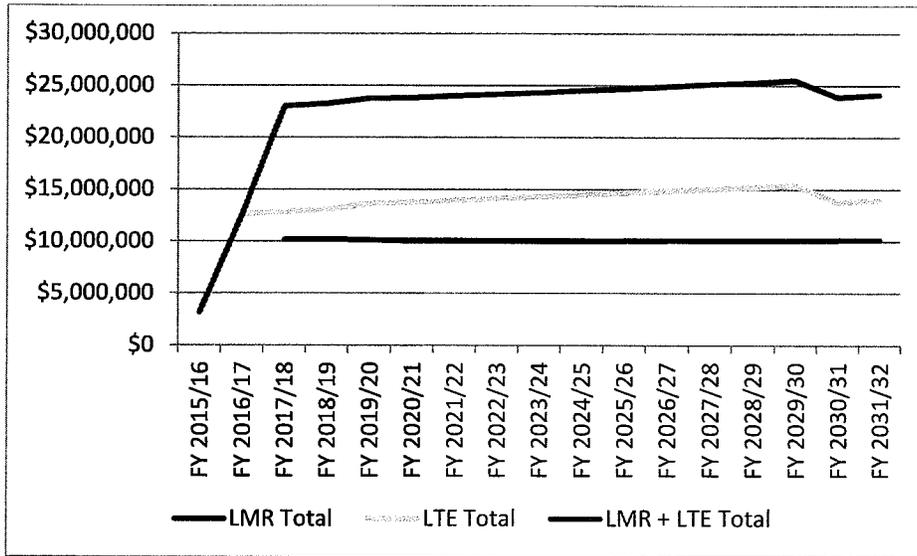
are then provided. The total system costs are consistent with the funding plan model costs used for the cost allocation method. There is a slight deviation in the fee amounts for each member agency when comparing the cash flow against the annual cost figures shown separately in the funding plan model for a few reasons, one being that the cash flow shows the annual O&M cost estimates from the respective LMR and LTE PSBN contracts that vary up and down while the funding plan model reflects an average annual O&M of the total that is straightline, and another being the funding plan model uses rounded data. The annual O&M in the cash flow shows the variation over time depicting the phasing of the systems as described in the contracts.

Graphics below show the general trends in project expenditures for LMR and LTE for each scenario. As the assumption in the cash flow is that revenue equals cost, a single line each for LMR, LTE, and combined systems represents the trends. LTE costs begin in FY 2015/16 (1st year of period) while LMR costs do not begin until FY 2017/18 (3rd year of period). The trend either up or down for most of the period is due primarily to the O&M contract cost estimates. Towards the end of the cash flow period, the hard match payments for LTE conclude which reduces the LTE cost.

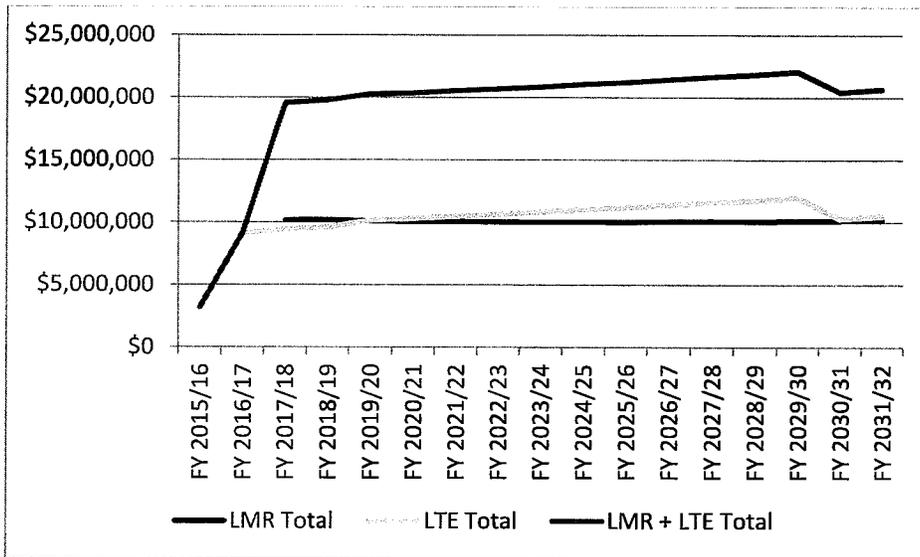
Scenario 1, Baseline



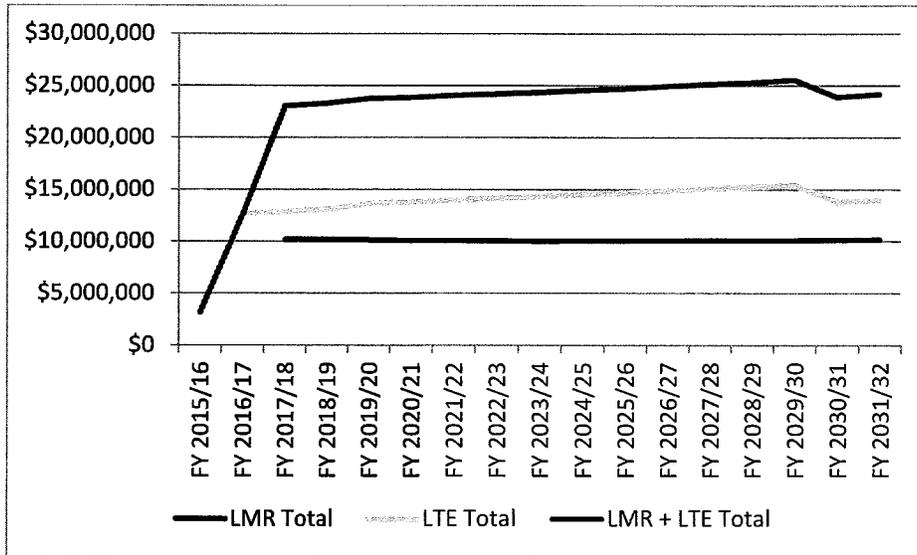
Scenario 2, Excluding LTE In-Kind Match



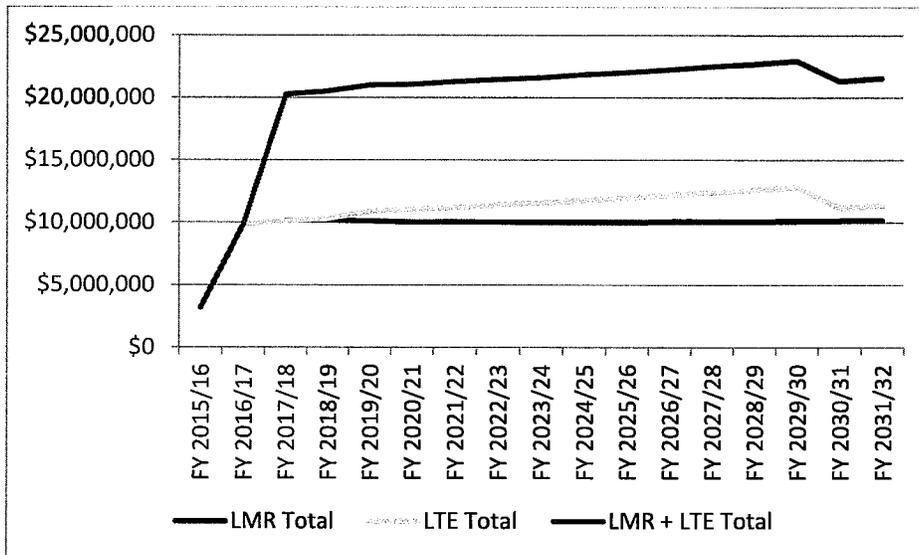
Scenario 3, Excluding LTE In-Kind Match and Capital Replacement



Scenario 8, Excluding LTE In-Kind Match and Adding Maintenance for Home Subscriber Server (HSS)



Scenario 12, Excluding LTE In-Kind Match and Capital Replacement and Adding Maintenance for Home Subscriber Server (HSS) and Redundant Evolved Packet Core



Section 5. Data Monitoring and True Up Period

The cost model, at least during the initial term, places an emphasis on data contributed by the members as inputs to deriving each of their cost shares. The variables for the model can be updated on a regular basis with recent data that measures each agency's current communications usage and capacity. With multiple variables being considered and the wide array of participating jurisdictions, a check and verification process should be in place for the data that is collected and reported to LA-RICS.

For this regular reporting process, a means to validate the data submitted to LA-RICS could be conducted by an independent third party. The validation could include tracing the process by which the data is collected and reported by the jurisdiction, reviewing internal and external reports generated by the jurisdiction, conducting field visits, and developing historic trends in the reported data. The validation should occur in regular intervals such as annually or biannually and implemented through various techniques including random validations and/or geographic-focused verification.

The data monitoring process would be applied to information generated by the member jurisdictions as well as by the LA-RICS communications provider should the provider have capability to track the variable data. A report of the findings would be developed for the LA-RICS Board by the independent third party reviewer. An ongoing program of data verification is required as an assurance to all participants and the Authority that the cost shares are apportioned using representative data for each participating agency.

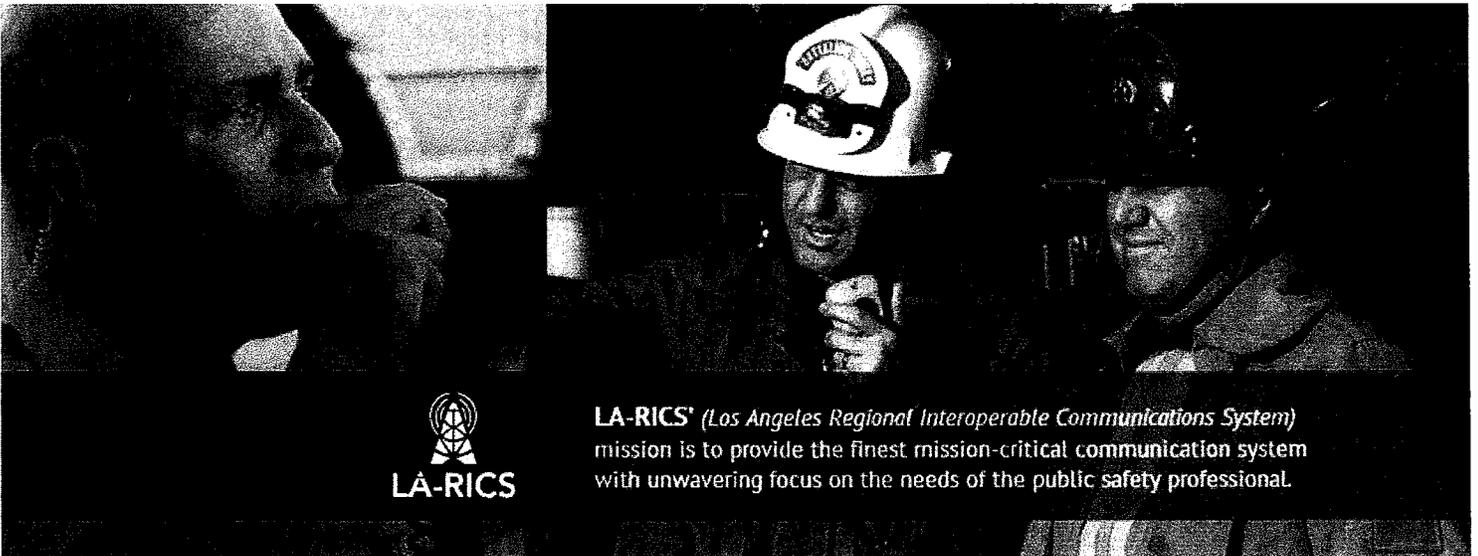
A True Up period is the period within which the data that will be the basis for the cost allocation is verified and revised. The Members will agree on a revised set of data that measure usage and their participation in LA-RICS. The revised data will provide more assurance and certainty of their cost allocation and fees. The variables described in this plan are recognized by Members as proxies to actual usage of the still-to-be-built communications systems. Once LA-RICS is functional and the system is capable of capturing actual usage (e.g. talk time) that can be tied back to each Member, the funding plan variables will be revised to reflect this captured data. A True Up can be conducted as necessary and in intervals agreed upon by the Authority.

APPENDIX 1



LA-RICS

CASH FLOW



LA-RICS' (*Los Angeles Regional Interoperable Communications System*) mission is to provide the finest mission-critical communication system with unwavering focus on the needs of the public safety professional.

MARCH 2014

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LA-RICS
Cash Flow Estimates
March 2014

Annual Costs - Scenario 1, Baseline

	FY 2015/16	FY 2016/17	FY 2017/18	FY 2018/19	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24
LMR									
Operations and Maintenance (from Phase 5 LMR Contract)			\$4,011,090	\$4,011,090	\$3,904,394	\$3,797,698	\$3,797,698	\$3,744,351	\$3,691,003
Capital Replacement			\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841
Administration			\$1,343,528	\$1,370,398	\$1,397,806	\$1,425,762	\$1,454,278	\$1,483,363	\$1,513,031
LMR Total			\$10,161,459	\$10,188,329	\$10,109,041	\$10,030,302	\$10,058,817	\$10,034,555	\$10,010,875
LTE									
Hard Match (from BTOP grant budget narrative)	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012
In-Kind (from BTOP grant budget narrative)	\$1,871,924	\$1,871,924	\$1,871,924	\$1,871,924	\$1,871,924	\$1,871,924	\$1,871,924	\$1,871,924	\$1,871,924
Operations and Maintenance (first 5 years from Phase 5 PSBN contract)		\$5,955,692	\$6,164,811	\$6,346,320	\$6,891,526	\$7,011,440	\$7,151,669	\$7,294,702	\$7,440,596
Capital Replacement		\$3,452,733	\$3,452,733	\$3,452,733	\$3,452,733	\$3,452,733	\$3,452,733	\$3,452,733	\$3,452,733
Administration	\$1,291,357	\$1,317,184	\$1,343,528	\$1,370,398	\$1,397,806	\$1,425,762	\$1,454,278	\$1,483,363	\$1,513,031
LTE Total	\$5,038,294	\$14,472,546	\$14,708,008	\$14,916,388	\$15,489,002	\$15,636,872	\$15,805,616	\$15,977,735	\$16,153,296
Total LMR+LTE	\$5,038,294	\$14,472,546	\$24,869,467	\$25,104,717	\$25,598,043	\$25,667,174	\$25,864,433	\$26,012,290	\$26,164,171

Interest Rates

Loan rate for hard match and in-kind	5.00%
Investment rate for capital replacement sinking fund	0.625%
LTE O&M inflation (after 5th year)	2%
Administration	2%

Note: LMR and LTE O&M based on respective contracts. In funding model, annual O&M is averaged using straight line method.

LA-RICS
Cash Flow Estimates
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Annual Costs - Scenario 1, Baseline

	FY 2024/25	FY 2025/26	FY 2026/27	FY 2027/28	FY 2028/29	FY 2029/30	FY 2030/31	FY 2031/32	Total
LMR									
Operations and Maintenance (from Phase 5 LMR Contract)	\$3,691,003	\$3,637,655	\$3,637,655	\$3,637,655	\$3,584,307	\$3,584,307	\$3,584,307	\$3,584,307	\$55,898,520
Capital Replacement	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$72,102,617
Administration	\$1,543,291	\$1,574,157	\$1,605,640	\$1,637,753	\$1,670,508	\$1,703,918	\$1,737,996	\$1,772,756	\$23,234,187
LMR Total	\$10,041,135	\$10,018,653	\$10,050,136	\$10,082,249	\$10,061,656	\$10,095,066	\$10,129,145	\$10,163,905	
LTE									
Hard Match (from BTOP grant budget narrative)	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$0	\$0	\$28,125,185
In-Kind (from BTOP grant budget narrative)	\$1,871,924	\$1,871,924	\$1,871,924	\$1,871,924	\$1,871,924	\$1,871,924	\$0	\$0	\$28,078,863
Operations and Maintenance (first 5 years from Phase 5 PSBN contract)	\$7,589,408	\$7,741,196	\$7,896,020	\$8,053,941	\$8,215,019	\$8,379,320	\$8,546,906	\$8,717,844	\$119,396,411
Capital Replacement	\$3,452,733	\$3,452,733	\$3,452,733	\$3,452,733	\$3,452,733	\$3,452,733	\$3,452,733	\$3,452,733	\$55,243,728
Administration	\$1,543,291	\$1,574,157	\$1,605,640	\$1,637,753	\$1,670,508	\$1,703,918	\$1,737,996	\$1,772,756	\$25,842,728
LTE Total	\$16,332,369	\$16,515,023	\$16,701,330	\$16,891,363	\$17,085,197	\$17,282,908	\$13,737,636	\$13,943,334	
Total LMR+LTE	\$26,373,504	\$26,533,676	\$26,751,466	\$26,973,612	\$27,146,853	\$27,377,974	\$23,866,780	\$24,107,238	

Interest Rates

Loan rate for hard match and in-kind	5.00%
Investment rate for capital replacement sinking fund	0.625%
LTE O&M inflation (after 5th year)	2%
Administration	2%

Note: LMR and LTE O&M based on respective contracts. In funding model, annual O&M is averaged using straight line method.

LA-RICS
Cash Flow Estimates
March 2014

Annual Member Fees - Scenario 1, Baseline

	FY 2015/16	FY 2016/17	FY 2017/18	FY 2018/19	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24
City of Agoura Hills	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Alhambra	\$34,539	\$99,212	\$169,194	\$170,803	\$174,195	\$174,679	\$176,027	\$177,044	\$178,088
City of Arcadia	\$27,104	\$77,858	\$134,894	\$136,162	\$138,808	\$139,171	\$140,235	\$141,028	\$141,843
City of Artesia	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Avalon	\$807	\$2,318	\$4,176	\$4,214	\$4,292	\$4,302	\$4,334	\$4,357	\$4,381
City of Azusa	\$13,352	\$38,353	\$62,362	\$62,976	\$64,311	\$64,522	\$65,035	\$65,435	\$65,846
City of Baldwin Park	\$21,718	\$62,386	\$101,440	\$102,438	\$104,610	\$104,953	\$105,787	\$106,438	\$107,106
City of Bell	\$10,161	\$29,187	\$47,458	\$47,926	\$48,942	\$49,102	\$49,492	\$49,797	\$50,109
City of Bell Gardens	\$8,389	\$24,098	\$39,369	\$39,755	\$40,593	\$40,724	\$41,046	\$41,297	\$41,555
City of Bellflower	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Beverly Hills	\$84,609	\$243,039	\$324,684	\$328,388	\$337,398	\$339,279	\$342,331	\$345,036	\$347,803
City of Bradbury	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Burbank	\$74,410	\$213,743	\$392,416	\$395,957	\$403,047	\$403,873	\$406,857	\$408,980	\$411,165
City of Calabasas	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Carson	\$1,856	\$5,331	\$9,123	\$9,209	\$9,391	\$9,417	\$9,490	\$9,544	\$9,600
City of Cerritos	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Claremont	\$20,290	\$58,283	\$86,429	\$87,340	\$89,434	\$89,818	\$90,574	\$91,202	\$91,846
City of Commerce	\$16,139	\$46,361	\$62,007	\$62,714	\$64,432	\$64,790	\$65,373	\$65,889	\$66,416
City of Compton	\$10,361	\$29,761	\$53,894	\$54,385	\$55,378	\$55,499	\$55,913	\$56,210	\$56,516
City of Covina	\$5,506	\$15,817	\$56,544	\$56,879	\$57,189	\$57,037	\$57,335	\$57,426	\$57,524
City of Culver City	\$22,550	\$64,774	\$164,629	\$165,822	\$167,614	\$167,511	\$168,543	\$169,077	\$169,633
City of Downey	\$52,476	\$150,737	\$232,570	\$234,950	\$240,295	\$241,220	\$243,200	\$244,803	\$246,447
City of Duarte	\$6,051	\$17,381	\$22,955	\$23,219	\$23,866	\$24,002	\$24,220	\$24,414	\$24,612
City of El Monte	\$13,906	\$39,946	\$89,132	\$89,835	\$91,037	\$91,069	\$91,671	\$92,030	\$92,402
City of El Segundo	\$8,014	\$23,022	\$39,887	\$40,262	\$41,044	\$41,151	\$41,466	\$41,700	\$41,941
City of Gardena	\$37,175	\$106,786	\$182,843	\$184,577	\$188,222	\$188,737	\$190,191	\$191,283	\$192,405
City of Glendale	\$173,722	\$499,017	\$745,630	\$753,445	\$771,328	\$774,579	\$781,066	\$786,432	\$791,929
City of Glendora	\$14,424	\$41,433	\$67,369	\$68,032	\$69,475	\$69,702	\$70,256	\$70,689	\$71,132
City of Hawaiian Gardens	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Hawthorne	\$24,358	\$69,969	\$113,769	\$114,890	\$117,325	\$117,709	\$118,645	\$119,375	\$120,125
City of Hermosa Beach	\$8,781	\$25,223	\$49,486	\$49,912	\$50,724	\$50,797	\$51,158	\$51,401	\$51,651
City of Hidden Hills	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Huntington Park	\$19,122	\$54,929	\$90,250	\$91,132	\$93,036	\$93,331	\$94,068	\$94,639	\$95,225
City of Industry	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Inglewood	\$5,434	\$15,610	\$81,214	\$81,612	\$81,720	\$81,373	\$81,738	\$81,768	\$81,805
City of Irwindale	\$406	\$1,165	\$1,894	\$1,913	\$1,953	\$1,960	\$1,975	\$1,988	\$2,000
City of La Canada Flintridge	\$329	\$945	\$1,077	\$1,091	\$1,127	\$1,136	\$1,148	\$1,159	\$1,170
City of La Habra Heights	\$571	\$1,641	\$2,731	\$2,757	\$2,814	\$2,822	\$2,844	\$2,861	\$2,879
City of La Mirada	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of La Puente	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of La Verne	\$3,091	\$8,879	\$33,167	\$33,359	\$33,522	\$33,425	\$33,597	\$33,645	\$33,696
City of Lakewood	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Lancaster	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Lawndale	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Long Beach	\$192,208	\$552,118	\$1,232,224	\$1,241,948	\$1,258,556	\$1,258,997	\$1,267,317	\$1,272,281	\$1,277,415
City of Los Angeles	\$2,313,252	\$6,644,840	\$9,877,913	\$9,981,851	\$10,220,374	\$10,264,051	\$10,350,297	\$10,421,861	\$10,495,185

LA-RICS
Cash Flow Estimates
March 2014

Annual Member Fees - Scenario 1, Baseline

	FY 2024/25	FY 2025/26	FY 2026/27	FY 2027/28	FY 2028/29	FY 2029/30	FY 2030/31	FY 2031/32
City of Agoura Hills	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Alhambra	\$179,519	\$180,620	\$182,109	\$183,628	\$184,818	\$186,398	\$162,324	\$163,968
City of Arcadia	\$142,972	\$143,831	\$145,006	\$146,205	\$147,135	\$148,382	\$129,496	\$130,794
City of Artesia	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Avalon	\$4,415	\$4,440	\$4,476	\$4,512	\$4,539	\$4,577	\$4,015	\$4,054
City of Azusa	\$66,390	\$66,822	\$67,388	\$67,966	\$68,432	\$69,033	\$59,716	\$60,341
City of Baldwin Park	\$107,991	\$108,694	\$109,615	\$110,555	\$111,313	\$112,291	\$97,136	\$98,153
City of Bell	\$50,524	\$50,853	\$51,283	\$51,723	\$52,078	\$52,535	\$45,445	\$45,921
City of Bell Gardens	\$41,897	\$42,169	\$42,525	\$42,888	\$43,181	\$43,559	\$37,706	\$38,099
City of Bellflower	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Beverly Hills	\$351,042	\$353,937	\$357,307	\$360,743	\$363,841	\$367,417	\$308,141	\$311,861
City of Bradbury	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Burbank	\$414,331	\$416,641	\$419,936	\$423,296	\$425,804	\$429,300	\$377,528	\$381,165
City of Calabasas	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Carson	\$9,677	\$9,736	\$9,816	\$9,898	\$9,962	\$10,047	\$8,754	\$8,842
City of Cerritos	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Claremont	\$92,648	\$93,324	\$94,158	\$95,009	\$95,735	\$96,620	\$82,434	\$83,356
City of Commerce	\$67,034	\$67,586	\$68,229	\$68,885	\$69,476	\$70,158	\$58,851	\$59,561
City of Compton	\$56,955	\$57,278	\$57,734	\$58,200	\$58,551	\$59,035	\$51,824	\$52,328
City of Covina	\$57,840	\$57,950	\$58,279	\$58,615	\$58,745	\$59,094	\$55,355	\$55,718
City of Culver City	\$170,729	\$171,328	\$172,468	\$173,630	\$174,298	\$175,507	\$159,971	\$161,230
City of Downey	\$248,548	\$250,275	\$252,462	\$254,692	\$256,550	\$258,870	\$222,211	\$224,625
City of Duarte	\$24,843	\$25,051	\$25,291	\$25,536	\$25,758	\$26,013	\$21,773	\$22,038
City of El Monte	\$93,040	\$93,437	\$94,102	\$94,780	\$95,216	\$95,922	\$86,299	\$87,033
City of El Segundo	\$42,275	\$42,529	\$42,877	\$43,231	\$43,506	\$43,875	\$38,291	\$38,674
City of Gardena	\$193,948	\$195,131	\$196,736	\$198,373	\$199,653	\$201,356	\$175,447	\$177,219
City of Glendale	\$798,814	\$804,584	\$811,747	\$819,053	\$825,253	\$832,854	\$711,412	\$719,321
City of Glendora	\$71,720	\$72,187	\$72,799	\$73,423	\$73,927	\$74,576	\$64,511	\$65,186
City of Hawaiian Gardens	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Hawthorne	\$121,117	\$121,906	\$122,939	\$123,993	\$124,843	\$125,939	\$108,942	\$110,083
City of Hermosa Beach	\$52,034	\$52,300	\$52,698	\$53,105	\$53,394	\$53,817	\$47,719	\$48,159
City of Hidden Hills	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Huntington Park	\$96,007	\$96,624	\$97,438	\$98,268	\$98,934	\$99,798	\$86,457	\$87,356
City of Industry	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Inglewood	\$82,193	\$82,245	\$82,648	\$83,060	\$83,137	\$83,565	\$79,960	\$80,405
City of Irwindale	\$2,017	\$2,030	\$2,047	\$2,064	\$2,079	\$2,097	\$1,814	\$1,833
City of La Canada Flintridge	\$1,182	\$1,193	\$1,206	\$1,219	\$1,231	\$1,244	\$1,013	\$1,027
City of La Habra Heights	\$2,902	\$2,921	\$2,945	\$2,970	\$2,990	\$3,016	\$2,617	\$2,644
City of La Mirada	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of La Puente	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of La Verne	\$33,878	\$33,936	\$34,126	\$34,318	\$34,388	\$34,589	\$32,495	\$32,704
City of Lakewood	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Lancaster	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Lawndale	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Long Beach	\$1,286,245	\$1,291,728	\$1,300,915	\$1,310,286	\$1,316,320	\$1,326,069	\$1,193,070	\$1,203,213
City of Los Angeles	\$10,586,709	\$10,663,658	\$10,758,880	\$10,856,006	\$10,938,669	\$11,039,720	\$9,422,445	\$9,527,577

LA-RICS
Cash Flow Estimates
March 2014

Annual Member Fees - Scenario 1, Baseline

	FY 2015/16	FY 2016/17	FY 2017/18	FY 2018/19	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24
City of Lynwood	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Manhattan Beach	\$81,153	\$233,112	\$275,302	\$278,760	\$287,684	\$289,768	\$292,594	\$295,274	\$298,013
City of Maywood	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Monrovia	\$32,172	\$92,415	\$142,341	\$143,800	\$147,078	\$147,647	\$148,861	\$149,844	\$150,853
City of Montebello	\$30,129	\$86,547	\$149,949	\$151,359	\$154,300	\$154,704	\$155,887	\$156,768	\$157,673
City of Monterey Park	\$15,488	\$44,489	\$68,183	\$68,885	\$70,466	\$70,742	\$71,325	\$71,800	\$72,286
City of Norwalk	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Palmdale	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Palos Verdes Estates	\$3,871	\$11,120	\$18,081	\$18,259	\$18,646	\$18,707	\$18,856	\$18,972	\$19,091
City of Paramount	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Pasadena	\$29,351	\$84,312	\$244,197	\$245,830	\$247,929	\$247,562	\$248,990	\$249,614	\$250,268
City of Pico Rivera	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Pomona	\$157,019	\$451,039	\$536,739	\$543,440	\$560,674	\$564,676	\$570,154	\$575,331	\$580,620
City of Ranchos Palos Verdes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Redondo Beach	\$20,460	\$58,772	\$138,315	\$139,369	\$141,082	\$141,073	\$141,979	\$142,490	\$143,020
City of Rolling Hills Estates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Rosemead	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of San Dimas	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of San Fernando	\$6,803	\$19,541	\$31,774	\$32,086	\$32,767	\$32,874	\$33,135	\$33,339	\$33,549
City of San Gabriel	\$39,626	\$113,826	\$181,844	\$183,658	\$187,645	\$188,295	\$189,808	\$191,004	\$192,231
City of San Marino	\$11,968	\$34,377	\$51,304	\$51,842	\$53,075	\$53,299	\$53,746	\$54,116	\$54,495
City of Santa Clarita	\$42,720	\$122,714	\$140,287	\$142,095	\$146,829	\$147,962	\$149,436	\$150,859	\$152,311
City of Santa Fe Springs	\$6,540	\$18,787	\$43,757	\$44,093	\$44,644	\$44,645	\$44,933	\$45,098	\$45,268
City of Santa Monica	\$27,422	\$78,769	\$296,019	\$297,725	\$299,156	\$298,287	\$299,812	\$300,233	\$300,685
City of Sierra Madre	\$5,255	\$15,095	\$26,153	\$26,399	\$26,912	\$26,982	\$27,188	\$27,342	\$27,500
City of Signal Hill	\$4,383	\$12,592	\$23,266	\$23,475	\$23,892	\$23,939	\$24,115	\$24,240	\$24,368
City of South El Monte	\$0	\$0	\$1,069	\$1,072	\$1,064	\$1,055	\$1,058	\$1,056	\$1,053
City of South Gate	\$30,953	\$88,912	\$134,423	\$135,820	\$138,994	\$139,561	\$140,721	\$141,673	\$142,649
City of South Pasadena	\$12,331	\$35,421	\$61,369	\$61,946	\$63,149	\$63,314	\$63,799	\$64,159	\$64,530
City of Temple City	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Torrance	\$28,396	\$81,566	\$286,287	\$288,000	\$289,640	\$288,897	\$290,419	\$290,903	\$291,419
City of Vernon	\$11,526	\$33,109	\$58,833	\$59,376	\$60,490	\$60,633	\$61,090	\$61,423	\$61,766
City of Walnut	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of West Covina	\$51,151	\$146,932	\$254,570	\$256,964	\$261,956	\$262,642	\$264,651	\$266,147	\$267,684
City of Westlake Village	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Whittier	\$16,045	\$46,089	\$89,023	\$89,798	\$91,292	\$91,437	\$92,092	\$92,540	\$93,000
County of Los Angeles	\$1,071,883	\$3,078,994	\$6,527,949	\$6,581,269	\$6,676,570	\$6,681,692	\$6,727,129	\$6,755,632	\$6,785,061
Inglewood Unified School District	\$2,685	\$7,713	\$12,541	\$12,665	\$12,933	\$12,975	\$13,079	\$13,159	\$13,242
Los Angeles Unified School District	\$67,781	\$194,701	\$393,676	\$396,997	\$403,173	\$403,645	\$406,464	\$408,312	\$410,218
UCLA	\$6,072	\$17,441	\$109,487	\$109,981	\$109,955	\$109,422	\$109,883	\$109,871	\$109,869
Total	\$5,038,294	\$14,472,546	\$24,869,467	\$25,104,717	\$25,598,043	\$25,667,174	\$25,864,433	\$26,012,290	\$26,164,171

LA-RICS
Cash Flow Estimates
March 2014

Annual Member Fees - Scenario 1, Baseline

	FY 2024/25	FY 2025/26	FY 2026/27	FY 2027/28	FY 2028/29	FY 2029/30	FY 2030/31	FY 2031/32
City of Lynwood	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Manhattan Beach	\$301,011	\$303,868	\$306,988	\$310,171	\$313,215	\$316,526	\$259,550	\$262,995
City of Maywood	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Monrovia	\$152,140	\$153,199	\$154,539	\$155,906	\$157,045	\$158,467	\$135,991	\$137,470
City of Montebello	\$158,929	\$159,884	\$161,190	\$162,523	\$163,556	\$164,942	\$143,949	\$145,391
City of Monterey Park	\$72,905	\$73,415	\$74,059	\$74,716	\$75,265	\$75,949	\$65,127	\$65,838
City of Norwalk	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Palmdale	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Palos Verdes Estates	\$19,248	\$19,374	\$19,538	\$19,705	\$19,841	\$20,015	\$17,314	\$17,495
City of Paramount	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Pasadena	\$251,783	\$252,496	\$254,073	\$255,681	\$256,489	\$258,162	\$238,040	\$239,780
City of Pico Rivera	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Pomona	\$586,434	\$591,953	\$598,003	\$604,173	\$610,055	\$616,474	\$506,248	\$512,927
City of Ranchos Palos Verdes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Redondo Beach	\$143,981	\$144,549	\$145,549	\$146,569	\$147,197	\$148,258	\$134,125	\$135,229
City of Rolling Hills Estates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Rosemead	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of San Dimas	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of San Fernando	\$33,826	\$34,046	\$34,335	\$34,629	\$34,866	\$35,172	\$30,426	\$30,744
City of San Gabriel	\$193,836	\$195,126	\$196,797	\$198,500	\$199,891	\$201,663	\$174,002	\$175,846
City of San Marino	\$54,969	\$55,366	\$55,860	\$56,363	\$56,790	\$57,313	\$48,947	\$49,492
City of Santa Clarita	\$153,876	\$155,390	\$157,018	\$158,678	\$160,290	\$162,018	\$132,010	\$133,807
City of Santa Fe Springs	\$45,574	\$45,756	\$46,075	\$46,399	\$46,601	\$46,939	\$42,419	\$42,771
City of Santa Monica	\$302,303	\$302,819	\$304,502	\$306,219	\$306,836	\$308,623	\$290,051	\$291,909
City of Sierra Madre	\$27,719	\$27,886	\$28,113	\$28,346	\$28,526	\$28,768	\$25,106	\$25,358
City of Signal Hill	\$24,555	\$24,691	\$24,886	\$25,084	\$25,232	\$25,438	\$22,389	\$22,603
City of South El Monte	\$1,056	\$1,054	\$1,057	\$1,061	\$1,059	\$1,062	\$1,066	\$1,069
City of South Gate	\$143,881	\$144,905	\$146,186	\$147,493	\$148,595	\$149,954	\$128,322	\$129,736
City of South Pasadena	\$65,044	\$65,435	\$65,969	\$66,514	\$66,937	\$67,505	\$58,913	\$59,503
City of Temple City	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Torrance	\$293,034	\$293,613	\$295,293	\$297,007	\$297,687	\$299,471	\$280,172	\$282,027
City of Vernon	\$62,251	\$62,613	\$63,117	\$63,632	\$64,024	\$64,559	\$56,533	\$57,090
City of Walnut	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of West Covina	\$269,815	\$271,437	\$273,654	\$275,916	\$277,671	\$280,024	\$244,384	\$246,832
City of Westlake Village	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Whittier	\$93,696	\$94,185	\$94,909	\$95,647	\$96,179	\$96,947	\$85,798	\$86,598
County of Los Angeles	\$6,833,280	\$6,864,620	\$6,914,786	\$6,965,957	\$7,000,306	\$7,053,544	\$6,310,696	\$6,366,084
Inglewood Unified School District	\$13,351	\$13,438	\$13,552	\$13,668	\$13,762	\$13,883	\$12,009	\$12,135
Los Angeles Unified School District	\$413,210	\$415,234	\$418,347	\$421,522	\$423,733	\$427,037	\$379,998	\$383,436
UCLA	\$110,358	\$110,375	\$110,884	\$111,403	\$111,451	\$111,991	\$108,026	\$108,588
Total	\$26,373,504	\$26,533,676	\$26,751,466	\$26,973,612	\$27,146,853	\$27,377,974	\$23,866,780	\$24,107,238

LA-RICS
Cash Flow Estimates
March 2014

Annual Costs - Scenario 2, Excluding In-Kind Match

	FY 2015/16	FY 2016/17	FY 2017/18	FY 2018/19	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24
LMR									
Operations and Maintenance (from Phase 5 LMR Contract)			\$4,011,090	\$4,011,090	\$3,904,394	\$3,797,698	\$3,797,698	\$3,744,351	\$3,691,003
Capital Replacement			\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841
Administration			\$1,343,528	\$1,370,398	\$1,397,806	\$1,425,762	\$1,454,278	\$1,483,363	\$1,513,031
LMR Total			\$10,161,459	\$10,188,329	\$10,109,041	\$10,030,302	\$10,058,817	\$10,034,555	\$10,010,875
LTE									
Hard Match (from BTOP grant budget narrative)	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012
In-Kind	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Operations and Maintenance (first 5 years from Phase 5 PSBN contract)		\$5,955,692	\$6,164,811	\$6,346,320	\$6,891,526	\$7,011,440	\$7,151,669	\$7,294,702	\$7,440,596
Capital Replacement		\$3,452,733	\$3,452,733	\$3,452,733	\$3,452,733	\$3,452,733	\$3,452,733	\$3,452,733	\$3,452,733
Administration		\$1,291,357	\$1,317,184	\$1,343,528	\$1,370,398	\$1,397,806	\$1,425,762	\$1,454,278	\$1,513,031
LTE Total	\$3,166,369	\$12,600,621	\$12,836,084	\$13,044,464	\$13,617,078	\$13,764,948	\$13,933,692	\$14,105,811	\$14,281,372
Total LMR+LTE	\$3,166,369	\$12,600,621	\$22,997,543	\$23,232,793	\$23,726,119	\$23,795,249	\$23,992,509	\$24,140,366	\$24,292,247

Interest Rates	
Loan rate for hard match	5.00%
Investment rate for capital replacement sinking fund	0.625%
LTE O&M inflation (after 5th year)	2%
Administration	2%

Note: LMR and LTE O&M based on respective contracts. In funding model, annual O&M is averaged using straight line method.

LA-RICS
Cash Flow Estimates
March 2014

Annual Costs - Scenario 2, Excluding In-Kind Match

	FY 2024/25	FY 2025/26	FY 2026/27	FY 2027/28	FY 2028/29	FY 2029/30	FY 2030/31	FY 2031/32	Total
LMR									
Operations and Maintenance (from Phase 5 LMR Contract)	\$3,691,003	\$3,637,655	\$3,637,655	\$3,637,655	\$3,584,307	\$3,584,307	\$3,584,307	\$3,584,307	\$55,898,520
Capital Replacement	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$72,102,617
Administration	\$1,543,291	\$1,574,157	\$1,605,640	\$1,637,753	\$1,670,508	\$1,703,918	\$1,737,996	\$1,772,756	\$23,234,187
LMR Total	\$10,041,135	\$10,018,653	\$10,050,136	\$10,082,249	\$10,061,656	\$10,095,066	\$10,129,145	\$10,163,905	
LTE									
Hard Match (from BTOP grant budget narrative)	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$0	\$0	\$28,125,185
In-Kind	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Operations and Maintenance (first 5 years from Phase 5 PSBN contract)	\$7,589,408	\$7,741,196	\$7,896,020	\$8,053,941	\$8,215,019	\$8,379,320	\$8,546,906	\$8,717,844	\$119,396,411
Capital Replacement	\$3,452,733	\$3,452,733	\$3,452,733	\$3,452,733	\$3,452,733	\$3,452,733	\$3,452,733	\$3,452,733	\$55,243,728
Administration	\$1,543,291	\$1,574,157	\$1,605,640	\$1,637,753	\$1,670,508	\$1,703,918	\$1,737,996	\$1,772,756	\$25,842,728
LTE Total	\$14,460,445	\$14,643,099	\$14,829,406	\$15,019,439	\$15,213,273	\$15,410,983	\$13,737,636	\$13,943,334	
Total LMR+LTE	\$24,501,580	\$24,661,752	\$24,879,542	\$25,101,688	\$25,274,929	\$25,506,050	\$23,866,780	\$24,107,238	

Interest Rates

Loan rate for hard match	5.00%
Investment rate for capital replacement sinking fund	0.625%
LTE O&M inflation (after 5th year)	2%
Administration	2%

Note: LMR and LTE O&M based on respective contracts. In funding model, annual O&M is averaged using straight line method.

LA-RICS

Cash Flow Estimates

March 2014

Annual Member Fees - Scenario 2, Excluding
In-Kind Match

	FY 2015/16	FY 2016/17	FY 2017/18	FY 2018/19	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23
City of Agoura Hills	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Alhambra	\$21,706	\$86,380	\$156,361	\$157,971	\$161,362	\$161,846	\$163,195	\$164,212
City of Arcadia	\$17,034	\$67,787	\$124,824	\$126,092	\$128,737	\$129,101	\$130,165	\$130,958
City of Artesia	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Avalon	\$507	\$2,018	\$3,876	\$3,915	\$3,992	\$4,002	\$4,034	\$4,057
City of Azusa	\$8,391	\$33,392	\$57,401	\$58,015	\$59,350	\$59,561	\$60,074	\$60,474
City of Baldwin Park	\$13,649	\$54,317	\$93,370	\$94,369	\$96,541	\$96,883	\$97,718	\$98,369
City of Bell	\$6,386	\$25,412	\$43,683	\$44,151	\$45,167	\$45,327	\$45,717	\$46,022
City of Bell Gardens	\$5,272	\$20,981	\$36,252	\$36,638	\$37,476	\$37,607	\$37,929	\$38,180
City of Bellflower	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Beverly Hills	\$53,173	\$211,604	\$293,248	\$296,953	\$305,963	\$307,844	\$310,896	\$313,601
City of Bradbury	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Burbank	\$46,764	\$186,096	\$364,770	\$368,311	\$375,401	\$376,227	\$379,211	\$381,334
City of Calabasas	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Carson	\$1,166	\$4,641	\$8,433	\$8,520	\$8,702	\$8,728	\$8,800	\$8,855
City of Cerritos	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Claremont	\$12,751	\$50,745	\$78,890	\$79,801	\$81,895	\$82,280	\$83,036	\$83,664
City of Commerce	\$10,143	\$40,364	\$56,011	\$56,718	\$58,436	\$58,794	\$59,376	\$59,892
City of Compton	\$6,511	\$25,912	\$50,045	\$50,536	\$51,529	\$51,650	\$52,063	\$52,361
City of Covina	\$3,460	\$13,771	\$54,498	\$54,833	\$55,143	\$54,991	\$55,289	\$55,381
City of Culver City	\$14,172	\$56,396	\$156,250	\$157,444	\$159,236	\$159,132	\$160,165	\$160,699
City of Downey	\$32,979	\$131,240	\$213,073	\$215,453	\$220,798	\$221,723	\$223,703	\$225,307
City of Duarte	\$3,803	\$15,133	\$20,707	\$20,971	\$21,617	\$21,754	\$21,972	\$22,166
City of El Monte	\$8,739	\$34,779	\$83,965	\$84,668	\$85,870	\$85,902	\$86,504	\$86,863
City of El Segundo	\$5,037	\$20,044	\$36,909	\$37,284	\$38,066	\$38,174	\$38,488	\$38,723
City of Gardena	\$23,363	\$92,974	\$169,031	\$170,765	\$174,410	\$174,925	\$176,379	\$177,471
City of Glendale	\$109,177	\$434,472	\$681,085	\$688,901	\$706,784	\$710,034	\$716,522	\$721,887
City of Glendora	\$9,065	\$36,074	\$62,010	\$62,673	\$64,116	\$64,343	\$64,897	\$65,330
City of Hawaiian Gardens	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Hawthorne	\$15,308	\$60,919	\$104,719	\$105,840	\$108,275	\$108,659	\$109,595	\$110,325
City of Hermosa Beach	\$5,518	\$21,961	\$46,223	\$46,649	\$47,461	\$47,534	\$47,895	\$48,138
City of Hidden Hills	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Huntington Park	\$12,018	\$47,825	\$83,145	\$84,027	\$85,932	\$86,226	\$86,963	\$87,534
City of Industry	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Inglewood	\$3,415	\$13,591	\$79,195	\$79,593	\$79,701	\$79,354	\$79,719	\$79,749
City of Irwindale	\$255	\$1,014	\$1,744	\$1,762	\$1,803	\$1,809	\$1,825	\$1,837
City of La Canada Flintridge	\$207	\$823	\$955	\$969	\$1,005	\$1,014	\$1,025	\$1,036
City of La Habra Heights	\$359	\$1,429	\$2,518	\$2,545	\$2,601	\$2,610	\$2,632	\$2,649
City of La Mirada	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of La Puente	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of La Verne	\$1,943	\$7,731	\$32,019	\$32,210	\$32,373	\$32,277	\$32,448	\$32,496
City of Lakewood	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Lancaster	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Lawndale	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Long Beach	\$120,795	\$480,705	\$1,160,811	\$1,170,535	\$1,187,143	\$1,187,584	\$1,195,905	\$1,200,869
City of Los Angeles	\$1,453,788	\$5,785,375	\$9,018,449	\$9,122,387	\$9,360,910	\$9,404,587	\$9,490,833	\$9,562,397

LA-RICS

Cash Flow Estimates

March 2014

Annual Member Fees - Scenario 2, Excluding
In-Kind Match

	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27	FY 2027/28	FY 2028/29	FY 2029/30	FY 2030/31	FY 2031/32
City of Agoura Hills	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Alhambra	\$165,256	\$166,687	\$167,788	\$169,277	\$170,796	\$171,986	\$173,566	\$162,324	\$163,968
City of Arcadia	\$131,772	\$132,902	\$133,761	\$134,936	\$136,135	\$137,064	\$138,311	\$129,496	\$130,794
City of Artesia	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Avalon	\$4,081	\$4,115	\$4,140	\$4,176	\$4,212	\$4,239	\$4,277	\$4,015	\$4,054
City of Azusa	\$60,885	\$61,429	\$61,861	\$62,428	\$63,005	\$63,471	\$64,072	\$59,716	\$60,341
City of Baldwin Park	\$99,037	\$99,922	\$100,625	\$101,546	\$102,486	\$103,244	\$104,221	\$97,136	\$98,153
City of Bell	\$46,334	\$46,748	\$47,077	\$47,508	\$47,948	\$48,303	\$48,760	\$45,445	\$45,921
City of Bell Gardens	\$38,438	\$38,781	\$39,052	\$39,408	\$39,772	\$40,064	\$40,442	\$37,706	\$38,099
City of Bellflower	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Beverly Hills	\$316,368	\$319,606	\$322,502	\$325,871	\$329,308	\$332,406	\$335,981	\$308,141	\$311,861
City of Bradbury	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Burbank	\$383,519	\$386,685	\$388,995	\$392,290	\$395,650	\$398,158	\$401,653	\$377,528	\$381,165
City of Calabasas	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Carson	\$8,911	\$8,988	\$9,047	\$9,127	\$9,209	\$9,272	\$9,357	\$8,754	\$8,842
City of Cerritos	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Claremont	\$84,307	\$85,110	\$85,785	\$86,620	\$87,471	\$88,196	\$89,082	\$82,434	\$83,356
City of Commerce	\$60,420	\$61,038	\$61,590	\$62,233	\$62,889	\$63,479	\$64,162	\$58,851	\$59,561
City of Compton	\$52,667	\$53,105	\$53,429	\$53,885	\$54,350	\$54,701	\$55,185	\$51,824	\$52,328
City of Covina	\$55,478	\$55,794	\$55,905	\$56,234	\$56,569	\$56,699	\$57,048	\$55,355	\$55,718
City of Culver City	\$161,255	\$162,351	\$162,949	\$164,089	\$165,252	\$165,920	\$167,129	\$159,971	\$161,230
City of Downey	\$226,950	\$229,052	\$230,778	\$232,965	\$235,195	\$237,053	\$239,373	\$222,211	\$224,625
City of Duarte	\$22,364	\$22,595	\$22,803	\$23,043	\$23,288	\$23,510	\$23,765	\$21,773	\$22,038
City of El Monte	\$87,235	\$87,874	\$88,270	\$88,935	\$89,613	\$90,050	\$90,755	\$86,299	\$87,033
City of El Segundo	\$38,964	\$39,298	\$39,552	\$39,899	\$40,253	\$40,528	\$40,897	\$38,291	\$38,674
City of Gardena	\$178,593	\$180,136	\$181,319	\$182,924	\$184,561	\$185,841	\$187,544	\$175,447	\$177,219
City of Glendale	\$727,385	\$734,269	\$740,040	\$747,203	\$754,509	\$760,709	\$768,310	\$711,412	\$719,321
City of Glendora	\$65,773	\$66,361	\$66,828	\$67,440	\$68,064	\$68,568	\$69,217	\$64,511	\$65,186
City of Hawaiian Gardens	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Hawthorne	\$111,075	\$112,067	\$112,856	\$113,889	\$114,943	\$115,793	\$116,889	\$108,942	\$110,083
City of Hermosa Beach	\$48,389	\$48,772	\$49,037	\$49,436	\$49,842	\$50,132	\$50,555	\$47,719	\$48,159
City of Hidden Hills	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Huntington Park	\$88,120	\$88,902	\$89,520	\$90,333	\$91,163	\$91,829	\$92,693	\$86,457	\$87,356
City of Industry	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Inglewood	\$79,786	\$80,174	\$80,226	\$80,629	\$81,041	\$81,117	\$81,546	\$79,960	\$80,405
City of Irwindale	\$1,849	\$1,866	\$1,879	\$1,896	\$1,914	\$1,928	\$1,946	\$1,814	\$1,833
City of La Canada Flintridge	\$1,048	\$1,060	\$1,071	\$1,084	\$1,097	\$1,109	\$1,122	\$1,013	\$1,027
City of La Habra Heights	\$2,666	\$2,690	\$2,708	\$2,733	\$2,758	\$2,777	\$2,803	\$2,617	\$2,644
City of La Mirada	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of La Puente	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of La Verne	\$32,548	\$32,729	\$32,788	\$32,977	\$33,170	\$33,240	\$33,441	\$32,495	\$32,704
City of Lakewood	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Lancaster	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Lawndale	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Long Beach	\$1,206,002	\$1,214,832	\$1,220,316	\$1,229,502	\$1,238,873	\$1,244,907	\$1,254,657	\$1,193,070	\$1,203,213
City of Los Angeles	\$9,635,721	\$9,727,245	\$9,804,194	\$9,899,416	\$9,996,542	\$10,079,205	\$10,180,255	\$9,422,445	\$9,527,577

LA-RICS

Cash Flow Estimates

March 2014

Annual Member Fees - Scenario 2, Excluding
In-Kind Match

	FY 2015/16	FY 2016/17	FY 2017/18	FY 2018/19	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23
City of Lynwood	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Manhattan Beach	\$51,001	\$202,960	\$245,151	\$248,609	\$257,532	\$259,617	\$262,442	\$265,123
City of Maywood	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Monrovia	\$20,219	\$80,462	\$130,388	\$131,847	\$135,125	\$135,694	\$136,908	\$137,891
City of Montebello	\$18,935	\$75,353	\$138,755	\$140,165	\$143,106	\$143,509	\$144,692	\$145,574
City of Monterey Park	\$9,734	\$38,735	\$62,429	\$63,130	\$64,711	\$64,988	\$65,571	\$66,045
City of Norwalk	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Palmdale	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Palos Verdes Estates	\$2,433	\$9,681	\$16,642	\$16,820	\$17,208	\$17,269	\$17,417	\$17,533
City of Paramount	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Pasadena	\$18,446	\$73,407	\$233,292	\$234,925	\$237,024	\$236,657	\$238,085	\$238,709
City of Pico Rivera	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Pomona	\$98,680	\$392,700	\$478,400	\$485,102	\$502,336	\$506,337	\$511,816	\$516,993
City of Ranchos Palos Verdes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Redondo Beach	\$12,859	\$51,171	\$130,714	\$131,768	\$133,480	\$133,471	\$134,377	\$134,888
City of Rolling Hills Estates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Rosemead	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of San Dimas	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of San Fernando	\$4,275	\$17,014	\$29,246	\$29,559	\$30,239	\$30,347	\$30,608	\$30,812
City of San Gabriel	\$24,903	\$99,103	\$167,121	\$168,935	\$172,923	\$173,573	\$175,086	\$176,281
City of San Marino	\$7,521	\$29,931	\$46,858	\$47,396	\$48,628	\$48,853	\$49,300	\$49,669
City of Santa Clarita	\$26,848	\$106,842	\$124,415	\$126,223	\$130,957	\$132,090	\$133,564	\$134,986
City of Santa Fe Springs	\$4,110	\$16,357	\$41,327	\$41,663	\$42,214	\$42,215	\$42,503	\$42,668
City of Santa Monica	\$17,233	\$68,581	\$285,831	\$287,536	\$288,968	\$288,099	\$289,623	\$290,045
City of Sierra Madre	\$3,303	\$13,142	\$24,200	\$24,446	\$24,959	\$25,030	\$25,236	\$25,390
City of Signal Hill	\$2,755	\$10,963	\$21,638	\$21,846	\$22,263	\$22,311	\$22,487	\$22,611
City of South El Monte	\$0	\$0	\$1,069	\$1,072	\$1,064	\$1,055	\$1,058	\$1,056
City of South Gate	\$19,453	\$77,412	\$122,923	\$124,320	\$127,494	\$128,061	\$129,221	\$130,173
City of South Pasadena	\$7,749	\$30,839	\$56,787	\$57,364	\$58,568	\$58,733	\$59,217	\$59,578
City of Temple City	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Torrance	\$17,845	\$71,016	\$275,737	\$277,450	\$279,090	\$278,347	\$279,869	\$280,353
City of Vernon	\$7,244	\$28,827	\$54,551	\$55,094	\$56,207	\$56,351	\$56,807	\$57,141
City of Walnut	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of West Covina	\$32,146	\$127,927	\$235,566	\$237,960	\$242,952	\$243,637	\$245,646	\$247,142
City of Westlake Village	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Whittier	\$10,084	\$40,128	\$83,062	\$83,837	\$85,331	\$85,475	\$86,131	\$86,578
County of Los Angeles	\$673,636	\$2,680,747	\$6,129,702	\$6,183,022	\$6,278,323	\$6,283,445	\$6,328,883	\$6,357,385
Inglewood Unified School District	\$1,687	\$6,715	\$11,544	\$11,667	\$11,936	\$11,978	\$12,081	\$12,162
Los Angeles Unified School District	\$42,598	\$169,518	\$368,492	\$371,814	\$377,989	\$378,461	\$381,281	\$383,129
UCLA	\$3,816	\$15,185	\$107,231	\$107,725	\$107,699	\$107,166	\$107,627	\$107,615
Total	\$3,166,369	\$12,600,621	\$22,997,543	\$23,232,793	\$23,726,119	\$23,795,249	\$23,992,509	\$24,140,366

LA-RICS
Cash Flow Estimates
March 2014

Annual Member Fees - Scenario 2, Excluding
 In-Kind Match

	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27	FY 2027/28	FY 2028/29	FY 2029/30	FY 2030/31	FY 2031/32
City of Lynwood	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Manhattan Beach	\$267,861	\$270,860	\$273,717	\$276,837	\$280,019	\$283,063	\$286,374	\$259,550	\$262,995
City of Maywood	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Monrovia	\$138,899	\$140,187	\$141,246	\$142,586	\$143,952	\$145,092	\$146,514	\$135,991	\$137,470
City of Montebello	\$146,479	\$147,735	\$148,690	\$149,996	\$151,328	\$152,362	\$153,748	\$143,949	\$145,391
City of Monterey Park	\$66,531	\$67,150	\$67,661	\$68,305	\$68,962	\$69,511	\$70,194	\$65,127	\$65,838
City of Norwalk	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Palmdale	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Palos Verdes Estates	\$17,652	\$17,810	\$17,936	\$18,100	\$18,267	\$18,402	\$18,577	\$17,314	\$17,495
City of Paramount	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Pasadena	\$239,362	\$240,878	\$241,591	\$243,167	\$244,775	\$245,583	\$247,256	\$238,040	\$239,780
City of Pico Rivera	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Pomona	\$522,282	\$528,096	\$533,615	\$539,664	\$545,834	\$551,716	\$558,135	\$506,248	\$512,927
City of Ranchos Palos Verdes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Redondo Beach	\$135,418	\$136,379	\$136,947	\$137,947	\$138,967	\$139,595	\$140,657	\$134,125	\$135,229
City of Rolling Hills Estates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Rosemead	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of San Dimas	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of San Fernando	\$31,021	\$31,298	\$31,519	\$31,807	\$32,101	\$32,339	\$32,645	\$30,426	\$30,744
City of San Gabriel	\$177,508	\$179,113	\$180,404	\$182,074	\$183,778	\$185,168	\$186,941	\$174,002	\$175,846
City of San Marino	\$50,048	\$50,522	\$50,920	\$51,413	\$51,916	\$52,344	\$52,867	\$48,947	\$49,492
City of Santa Clarita	\$136,439	\$138,003	\$139,518	\$141,146	\$142,806	\$144,418	\$146,146	\$132,010	\$133,807
City of Santa Fe Springs	\$42,838	\$43,144	\$43,326	\$43,645	\$43,969	\$44,171	\$44,509	\$42,419	\$42,771
City of Santa Monica	\$290,497	\$292,115	\$292,631	\$294,314	\$296,031	\$296,648	\$298,434	\$290,051	\$291,909
City of Sierra Madre	\$25,548	\$25,767	\$25,933	\$26,161	\$26,393	\$26,574	\$26,815	\$25,106	\$25,358
City of Signal Hill	\$22,740	\$22,927	\$23,063	\$23,257	\$23,455	\$23,603	\$23,809	\$22,389	\$22,603
City of South El Monte	\$1,053	\$1,056	\$1,054	\$1,057	\$1,061	\$1,059	\$1,062	\$1,066	\$1,069
City of South Gate	\$131,149	\$132,380	\$133,405	\$134,686	\$135,993	\$137,094	\$138,454	\$128,322	\$129,736
City of South Pasadena	\$59,948	\$60,462	\$60,853	\$61,388	\$61,933	\$62,356	\$62,923	\$58,913	\$59,503
City of Temple City	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Torrance	\$280,869	\$282,484	\$283,063	\$284,743	\$286,457	\$287,137	\$288,920	\$280,172	\$282,027
City of Vernon	\$57,484	\$57,969	\$58,331	\$58,835	\$59,349	\$59,742	\$60,277	\$56,533	\$57,090
City of Walnut	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of West Covina	\$248,679	\$250,811	\$252,432	\$254,650	\$256,912	\$258,666	\$261,020	\$244,384	\$246,832
City of Westlake Village	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Whittier	\$87,039	\$87,735	\$88,223	\$88,947	\$89,686	\$90,218	\$90,986	\$85,798	\$86,598
County of Los Angeles	\$6,386,815	\$6,435,034	\$6,466,373	\$6,516,540	\$6,567,710	\$6,602,060	\$6,655,297	\$6,310,696	\$6,366,084
Inglewood Unified School District	\$12,244	\$12,354	\$12,440	\$12,554	\$12,670	\$12,764	\$12,885	\$12,009	\$12,135
Los Angeles Unified School District	\$385,034	\$388,027	\$390,051	\$393,164	\$396,339	\$398,550	\$401,854	\$379,998	\$383,436
UCLA	\$107,613	\$108,102	\$108,119	\$108,628	\$109,147	\$109,195	\$109,735	\$108,026	\$108,588
Total	\$24,292,247	\$24,501,580	\$24,661,752	\$24,879,542	\$25,101,688	\$25,274,929	\$25,506,050	\$23,866,780	\$24,107,238

LA-RICS
Cash Flow Estimates
March 2014

Annual Costs - Scenario 3, Excluding In-Kind Match
and Capital Replacement

	FY 2015/16	FY 2016/17	FY 2017/18	FY 2018/19	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24
LMR									
Operations and Maintenance (from Phase 5 LMR Contract)			\$4,011,090	\$4,011,090	\$3,904,394	\$3,797,698	\$3,797,698	\$3,744,351	\$3,691,003
Capital Replacement			\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841
Administration			\$1,343,528	\$1,370,398	\$1,397,806	\$1,425,762	\$1,454,278	\$1,483,363	\$1,513,031
LMR Total			\$10,161,459	\$10,188,329	\$10,109,041	\$10,030,302	\$10,058,817	\$10,034,555	\$10,010,875
LTE									
Hard Match (from BTOP grant budget narrative)	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012
In-Kind	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Operations and Maintenance (first 5 years from Phase 5 PSBN contract)		\$5,955,692	\$6,164,811	\$6,346,320	\$6,891,526	\$7,011,440	\$7,151,669	\$7,294,702	\$7,440,596
Capital Replacement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Administration	\$1,291,357	\$1,317,184	\$1,343,528	\$1,370,398	\$1,397,806	\$1,425,762	\$1,454,278	\$1,483,363	\$1,513,031
LTE Total	\$3,166,369	\$9,147,888	\$9,383,351	\$9,591,731	\$10,164,345	\$10,312,215	\$10,480,959	\$10,653,078	\$10,828,639
Total LMR+LTE	\$3,166,369	\$9,147,888	\$19,544,810	\$19,780,060	\$20,273,386	\$20,342,516	\$20,539,776	\$20,687,633	\$20,839,514

Interest Rates	
Loan rate for hard match	5.00%
Investment rate for capital replacement sinking fund	0.625%
LTE O&M inflation (after 5th year)	2%
Administration	2%

Note: LMR and LTE O&M based on respective contracts. In funding model, annual O&M is averaged using straight line method.

LA-RICS
Cash Flow Estimates
March 2014

Annual Costs - Scenario 3, Excluding In-Kind Match
and Capital Replacement

	FY 2024/25	FY 2025/26	FY 2026/27	FY 2027/28	FY 2028/29	FY 2029/30	FY 2030/31	FY 2031/32	Total
LMR									
Operations and Maintenance (from Phase 5 LMR Contract)	\$3,691,003	\$3,637,655	\$3,637,655	\$3,637,655	\$3,584,307	\$3,584,307	\$3,584,307	\$3,584,307	\$55,898,520
Capital Replacement	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$72,102,617
Administration	\$1,543,291	\$1,574,157	\$1,605,640	\$1,637,753	\$1,670,508	\$1,703,918	\$1,737,996	\$1,772,756	\$23,234,187
LMR Total	\$10,041,135	\$10,018,653	\$10,050,136	\$10,082,249	\$10,061,656	\$10,095,066	\$10,129,145	\$10,163,905	
LTE									
Hard Match (from BTOP grant budget narrative)	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$0	\$0	\$28,125,185
In-Kind	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Operations and Maintenance (first 5 years from Phase 5 PSBN contract)	\$7,589,408	\$7,741,196	\$7,896,020	\$8,053,941	\$8,215,019	\$8,379,320	\$8,546,906	\$8,717,844	\$119,396,411
Capital Replacement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Administration	\$1,543,291	\$1,574,157	\$1,605,640	\$1,637,753	\$1,670,508	\$1,703,918	\$1,737,996	\$1,772,756	\$25,842,728
LTE Total	\$11,007,712	\$11,190,366	\$11,376,673	\$11,566,706	\$11,760,540	\$11,958,250	\$10,284,903	\$10,490,601	
Total LMR+LTE	\$21,048,847	\$21,209,019	\$21,426,809	\$21,648,955	\$21,822,196	\$22,053,317	\$20,414,047	\$20,654,505	

Interest Rates	
Loan rate for hard match	5.00%
Investment rate for capital replacement sinking fund	0.625%
LTE O&M inflation (after 5th year)	2%
Administration	2%

Note: LMR and LTE O&M based on respective contracts. In funding model, annual O&M is averaged using straight line method.

LA-RICS

Cash Flow Estimates

March 2014

Annual Member Fees - Scenario 3,
Excluding In-Kind Match and Capital
Replacement

	FY 2015/16	FY 2016/17	FY 2017/18	FY 2018/19	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23
City of Agoura Hills	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Alhambra	\$21,706	\$62,711	\$132,692	\$134,301	\$137,693	\$138,177	\$139,526	\$140,543
City of Arcadia	\$17,034	\$49,213	\$106,249	\$107,517	\$110,163	\$110,526	\$111,590	\$112,383
City of Artesia	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Avalon	\$507	\$1,465	\$3,323	\$3,362	\$3,439	\$3,449	\$3,481	\$3,504
City of Azusa	\$8,391	\$24,242	\$48,251	\$48,865	\$50,200	\$50,411	\$50,924	\$51,324
City of Baldwin Park	\$13,649	\$39,433	\$78,487	\$79,486	\$81,657	\$82,000	\$82,834	\$83,485
City of Bell	\$6,386	\$18,449	\$36,720	\$37,187	\$38,203	\$38,364	\$38,754	\$39,058
City of Bell Gardens	\$5,272	\$15,232	\$30,503	\$30,889	\$31,727	\$31,858	\$32,180	\$32,431
City of Bellflower	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Beverly Hills	\$53,173	\$153,622	\$235,266	\$238,971	\$247,980	\$249,862	\$252,913	\$255,618
City of Bradbury	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Burbank	\$46,764	\$135,104	\$313,777	\$317,318	\$324,408	\$325,234	\$328,218	\$330,342
City of Calabasas	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Carson	\$1,166	\$3,369	\$7,162	\$7,248	\$7,430	\$7,456	\$7,528	\$7,583
City of Cerritos	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Claremont	\$12,751	\$36,840	\$64,985	\$65,897	\$67,990	\$68,375	\$69,131	\$69,759
City of Commerce	\$10,143	\$29,304	\$44,950	\$45,657	\$47,375	\$47,734	\$48,316	\$48,832
City of Compton	\$6,511	\$18,812	\$42,945	\$43,436	\$44,429	\$44,550	\$44,963	\$45,261
City of Covina	\$3,460	\$9,997	\$50,725	\$51,060	\$51,370	\$51,218	\$51,516	\$51,607
City of Culver City	\$14,172	\$40,943	\$140,797	\$141,991	\$143,783	\$143,679	\$144,712	\$145,246
City of Downey	\$32,979	\$95,279	\$177,112	\$179,492	\$184,837	\$185,762	\$187,742	\$189,345
City of Duarte	\$3,803	\$10,986	\$16,560	\$16,824	\$17,471	\$17,607	\$17,825	\$18,019
City of El Monte	\$8,739	\$25,249	\$74,435	\$75,139	\$76,340	\$76,372	\$76,974	\$77,333
City of El Segundo	\$5,037	\$14,552	\$31,417	\$31,792	\$32,574	\$32,681	\$32,996	\$33,230
City of Gardena	\$23,363	\$67,498	\$143,555	\$145,289	\$148,934	\$149,449	\$150,903	\$151,995
City of Glendale	\$109,177	\$315,421	\$562,034	\$569,850	\$587,733	\$590,983	\$597,471	\$602,836
City of Glendora	\$9,065	\$26,189	\$52,126	\$52,789	\$54,231	\$54,459	\$55,013	\$55,445
City of Hawaiian Gardens	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Hawthorne	\$15,308	\$44,226	\$88,027	\$89,147	\$91,583	\$91,967	\$92,902	\$93,633
City of Hermosa Beach	\$5,518	\$15,943	\$40,206	\$40,632	\$41,444	\$41,517	\$41,878	\$42,121
City of Hidden Hills	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Huntington Park	\$12,018	\$34,720	\$70,040	\$70,922	\$72,827	\$73,121	\$73,859	\$74,430
City of Industry	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Inglewood	\$3,415	\$9,867	\$75,471	\$75,869	\$75,976	\$75,630	\$75,995	\$76,025
City of Irwindale	\$255	\$736	\$1,466	\$1,484	\$1,525	\$1,531	\$1,547	\$1,559
City of La Canada Flintridge	\$207	\$597	\$729	\$743	\$780	\$789	\$800	\$811
City of La Habra Heights	\$359	\$1,037	\$2,127	\$2,153	\$2,210	\$2,218	\$2,241	\$2,258
City of La Mirada	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of La Puente	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of La Verne	\$1,943	\$5,612	\$29,900	\$30,092	\$30,255	\$30,159	\$30,330	\$30,378
City of Lakewood	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Lancaster	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Lawndale	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Long Beach	\$120,795	\$348,986	\$1,029,091	\$1,038,816	\$1,055,424	\$1,055,865	\$1,064,185	\$1,069,149

LA-RICS

Cash Flow Estimates

March 2014

Annual Member Fees - Scenario 3,
Excluding In-Kind Match and Capital
Replacement

	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27	FY 2027/28	FY 2028/29	FY 2029/30	FY 2030/31	FY 2031/32
City of Agoura Hills	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Alhambra	\$141,587	\$143,018	\$144,119	\$145,608	\$147,127	\$148,317	\$149,897	\$138,655	\$140,299
City of Arcadia	\$113,198	\$114,327	\$115,186	\$116,361	\$117,560	\$118,490	\$119,737	\$110,922	\$112,219
City of Artesia	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Avalon	\$3,528	\$3,562	\$3,587	\$3,623	\$3,659	\$3,686	\$3,724	\$3,462	\$3,501
City of Azusa	\$51,735	\$52,279	\$52,711	\$53,278	\$53,855	\$54,321	\$54,922	\$50,566	\$51,191
City of Baldwin Park	\$84,153	\$85,039	\$85,742	\$86,663	\$87,602	\$88,361	\$89,338	\$82,252	\$83,269
City of Bell	\$39,371	\$39,785	\$40,114	\$40,545	\$40,985	\$41,339	\$41,797	\$38,482	\$38,957
City of Bell Gardens	\$32,689	\$33,032	\$33,303	\$33,659	\$34,023	\$34,315	\$34,693	\$31,957	\$32,350
City of Bellflower	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Beverly Hills	\$258,386	\$261,624	\$264,520	\$267,889	\$271,326	\$274,423	\$277,999	\$250,159	\$253,879
City of Bradbury	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Burbank	\$332,526	\$335,692	\$338,002	\$341,297	\$344,657	\$347,165	\$350,661	\$326,535	\$330,172
City of Calabasas	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Carson	\$7,639	\$7,716	\$7,775	\$7,855	\$7,937	\$8,001	\$8,086	\$7,482	\$7,570
City of Cerritos	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Claremont	\$70,403	\$71,205	\$71,880	\$72,715	\$73,566	\$74,292	\$75,177	\$68,530	\$69,451
City of Commerce	\$49,359	\$49,977	\$50,530	\$51,173	\$51,828	\$52,419	\$53,101	\$47,791	\$48,501
City of Compton	\$45,566	\$46,005	\$46,328	\$46,785	\$47,250	\$47,601	\$48,085	\$44,724	\$45,227
City of Covina	\$51,705	\$52,021	\$52,131	\$52,460	\$52,796	\$52,926	\$53,275	\$51,582	\$51,945
City of Culver City	\$145,802	\$146,897	\$147,496	\$148,636	\$149,799	\$150,466	\$151,676	\$144,518	\$145,777
City of Downey	\$190,989	\$193,090	\$194,817	\$197,003	\$199,233	\$201,091	\$203,412	\$186,249	\$188,663
City of Duarte	\$18,217	\$18,448	\$18,656	\$18,896	\$19,141	\$19,363	\$19,618	\$17,626	\$17,891
City of El Monte	\$77,705	\$78,344	\$78,740	\$79,405	\$80,083	\$80,520	\$81,225	\$76,769	\$77,503
City of El Segundo	\$33,471	\$33,805	\$34,059	\$34,407	\$34,761	\$35,036	\$35,405	\$32,798	\$33,182
City of Gardena	\$153,117	\$154,660	\$155,843	\$157,448	\$159,085	\$160,365	\$162,068	\$149,971	\$151,743
City of Glendale	\$608,334	\$615,218	\$620,989	\$628,151	\$635,458	\$641,658	\$649,259	\$592,361	\$600,270
City of Glendora	\$55,889	\$56,477	\$56,944	\$57,555	\$58,179	\$58,683	\$59,332	\$54,626	\$55,301
City of Hawaiian Gardens	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Hawthorne	\$94,382	\$95,375	\$96,163	\$97,196	\$98,250	\$99,101	\$100,197	\$92,250	\$93,390
City of Hermosa Beach	\$42,371	\$42,754	\$43,020	\$43,418	\$43,825	\$44,114	\$44,537	\$41,701	\$42,141
City of Hidden Hills	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Huntington Park	\$75,016	\$75,798	\$76,415	\$77,229	\$78,059	\$78,725	\$79,588	\$73,353	\$74,251
City of Industry	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Inglewood	\$76,062	\$76,449	\$76,502	\$76,905	\$77,317	\$77,393	\$77,821	\$76,236	\$76,681
City of Irwindale	\$1,571	\$1,588	\$1,601	\$1,618	\$1,636	\$1,650	\$1,668	\$1,536	\$1,555
City of La Canada Flintridge	\$822	\$834	\$846	\$858	\$871	\$883	\$897	\$788	\$802
City of La Habra Heights	\$2,275	\$2,298	\$2,317	\$2,341	\$2,366	\$2,386	\$2,412	\$2,226	\$2,253
City of La Mirada	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of La Puente	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of La Verne	\$30,429	\$30,611	\$30,670	\$30,859	\$31,052	\$31,122	\$31,322	\$30,377	\$30,586
City of Lakewood	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Lancaster	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Lawndale	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Long Beach	\$1,074,283	\$1,083,113	\$1,088,596	\$1,097,783	\$1,107,153	\$1,113,188	\$1,122,937	\$1,061,351	\$1,071,494

LA-RICS

Cash Flow Estimates

March 2014

Annual Member Fees - Scenario 3,
Excluding In-Kind Match and Capital
Replacement

	FY 2015/16	FY 2016/17	FY 2017/18	FY 2018/19	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23
City of Los Angeles	\$1,453,788	\$4,200,108	\$7,433,182	\$7,537,119	\$7,775,642	\$7,819,320	\$7,905,565	\$7,977,130
City of Lynwood	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Manhattan Beach	\$51,001	\$147,347	\$189,537	\$192,995	\$201,919	\$204,003	\$206,829	\$209,509
City of Maywood	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Monrovia	\$20,219	\$58,414	\$108,340	\$109,799	\$113,078	\$113,647	\$114,860	\$115,844
City of Montebello	\$18,935	\$54,705	\$118,107	\$119,517	\$122,458	\$122,862	\$124,045	\$124,926
City of Monterey Park	\$9,734	\$28,121	\$51,815	\$52,516	\$54,097	\$54,374	\$54,957	\$55,431
City of Norwalk	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Palmdale	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Palos Verdes Estates	\$2,433	\$7,029	\$13,990	\$14,168	\$14,555	\$14,616	\$14,764	\$14,880
City of Paramount	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Pasadena	\$18,446	\$53,293	\$213,177	\$214,810	\$216,909	\$216,542	\$217,970	\$218,594
City of Pico Rivera	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Pomona	\$98,680	\$285,095	\$370,795	\$377,497	\$394,731	\$398,732	\$404,211	\$409,388
City of Ranchos Palos Verdes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Redondo Beach	\$12,859	\$37,149	\$116,692	\$117,746	\$119,458	\$119,450	\$120,356	\$120,867
City of Rolling Hills Estates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Rosemead	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of San Dimas	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of San Fernando	\$4,275	\$12,352	\$24,584	\$24,897	\$25,577	\$25,685	\$25,946	\$26,150
City of San Gabriel	\$24,903	\$71,948	\$139,966	\$141,780	\$145,767	\$146,417	\$147,930	\$149,126
City of San Marino	\$7,521	\$21,729	\$38,656	\$39,195	\$40,427	\$40,651	\$41,098	\$41,468
City of Santa Clarita	\$26,848	\$77,566	\$95,139	\$96,947	\$101,681	\$102,814	\$104,288	\$105,710
City of Santa Fe Springs	\$4,110	\$11,875	\$36,845	\$37,181	\$37,732	\$37,733	\$38,021	\$38,186
City of Santa Monica	\$17,233	\$49,789	\$267,039	\$268,744	\$270,176	\$269,307	\$270,831	\$271,253
City of Sierra Madre	\$3,303	\$9,541	\$20,599	\$20,845	\$21,358	\$21,429	\$21,635	\$21,789
City of Signal Hill	\$2,755	\$7,959	\$18,634	\$18,843	\$19,259	\$19,307	\$19,483	\$19,607
City of South El Monte	\$0	\$0	\$1,069	\$1,072	\$1,064	\$1,055	\$1,058	\$1,056
City of South Gate	\$19,453	\$56,200	\$101,711	\$103,108	\$106,282	\$106,849	\$108,009	\$108,961
City of South Pasadena	\$7,749	\$22,389	\$48,337	\$48,914	\$50,117	\$50,283	\$50,767	\$51,128
City of Temple City	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Torrance	\$17,845	\$51,557	\$256,278	\$257,990	\$259,630	\$258,888	\$260,410	\$260,894
City of Vernon	\$7,244	\$20,928	\$46,652	\$47,195	\$48,309	\$48,452	\$48,908	\$49,242
City of Walnut	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of West Covina	\$32,146	\$92,874	\$200,512	\$202,906	\$207,898	\$208,584	\$210,592	\$212,088
City of Westlake Village	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Whittier	\$10,084	\$29,133	\$72,066	\$72,841	\$74,335	\$74,480	\$75,135	\$75,583
County of Los Angeles	\$673,636	\$1,946,188	\$5,395,143	\$5,448,463	\$5,543,764	\$5,548,885	\$5,594,323	\$5,622,826
Inglewood Unified School District	\$1,687	\$4,875	\$9,703	\$9,827	\$10,095	\$10,138	\$10,241	\$10,321
Los Angeles Unified School District	\$42,598	\$123,068	\$322,042	\$325,363	\$331,539	\$332,011	\$334,831	\$336,679
UCLA	\$3,816	\$11,024	\$103,070	\$103,564	\$103,538	\$103,005	\$103,466	\$103,455
Total	\$3,166,369	\$9,147,888	\$19,544,810	\$19,780,060	\$20,273,386	\$20,342,516	\$20,539,776	\$20,687,633

LA-RICS

Cash Flow Estimates

March 2014

Annual Member Fees - Scenario 3,
Excluding In-Kind Match and Capital
Replacement

	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27	FY 2027/28	FY 2028/29	FY 2029/30	FY 2030/31	FY 2031/32
City of Los Angeles	\$8,050,453	\$8,141,978	\$8,218,926	\$8,314,148	\$8,411,275	\$8,493,937	\$8,594,988	\$7,837,177	\$7,942,310
City of Lynwood	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Manhattan Beach	\$212,248	\$215,246	\$218,103	\$221,223	\$224,405	\$227,450	\$230,761	\$203,936	\$207,381
City of Maywood	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Monrovia	\$116,852	\$118,139	\$119,199	\$120,538	\$121,905	\$123,044	\$124,466	\$113,943	\$115,422
City of Montebello	\$125,831	\$127,087	\$128,042	\$129,348	\$130,681	\$131,714	\$133,100	\$123,301	\$124,744
City of Monterey Park	\$55,918	\$56,536	\$57,047	\$57,691	\$58,348	\$58,897	\$59,580	\$54,513	\$55,224
City of Norwalk	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Palmdale	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Palos Verdes Estates	\$15,000	\$15,157	\$15,283	\$15,447	\$15,614	\$15,749	\$15,924	\$14,661	\$14,842
City of Paramount	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Pasadena	\$219,248	\$220,763	\$221,476	\$223,053	\$224,661	\$225,469	\$227,142	\$217,925	\$219,666
City of Pico Rivera	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Pomona	\$414,677	\$420,491	\$426,010	\$432,059	\$438,229	\$444,111	\$450,530	\$398,643	\$405,322
City of Ranchos Palos Verdes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Redondo Beach	\$121,397	\$122,358	\$122,926	\$123,926	\$124,946	\$125,574	\$126,635	\$120,103	\$121,208
City of Rolling Hills Estates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Rosemead	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of San Dimas	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of San Fernando	\$26,359	\$26,636	\$26,857	\$27,145	\$27,439	\$27,677	\$27,983	\$25,764	\$26,082
City of San Gabriel	\$150,352	\$151,958	\$153,248	\$154,918	\$156,622	\$158,012	\$159,785	\$146,846	\$148,690
City of San Marino	\$41,847	\$42,321	\$42,718	\$43,212	\$43,715	\$44,142	\$44,666	\$40,746	\$41,290
City of Santa Clarita	\$107,163	\$108,727	\$110,242	\$111,870	\$113,530	\$115,142	\$116,870	\$102,734	\$104,531
City of Santa Fe Springs	\$38,356	\$38,662	\$38,844	\$39,163	\$39,487	\$39,689	\$40,027	\$37,937	\$38,289
City of Santa Monica	\$271,705	\$273,323	\$273,839	\$275,522	\$277,239	\$277,856	\$279,642	\$271,259	\$273,117
City of Sierra Madre	\$21,946	\$22,165	\$22,332	\$22,560	\$22,792	\$22,972	\$23,214	\$21,505	\$21,757
City of Signal Hill	\$19,736	\$19,923	\$20,059	\$20,253	\$20,451	\$20,599	\$20,805	\$19,385	\$19,599
City of South El Monte	\$1,053	\$1,056	\$1,054	\$1,057	\$1,061	\$1,059	\$1,062	\$1,066	\$1,069
City of South Gate	\$109,937	\$111,169	\$112,193	\$113,474	\$114,781	\$115,883	\$117,242	\$107,110	\$108,524
City of South Pasadena	\$51,498	\$52,012	\$52,403	\$52,937	\$53,483	\$53,906	\$54,473	\$50,463	\$51,053
City of Temple City	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Torrance	\$261,409	\$263,024	\$263,604	\$265,284	\$266,998	\$267,678	\$269,461	\$260,712	\$262,567
City of Vernon	\$49,585	\$50,070	\$50,432	\$50,936	\$51,450	\$51,843	\$52,378	\$48,634	\$49,191
City of Walnut	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of West Covina	\$213,625	\$215,757	\$217,378	\$219,596	\$221,858	\$223,613	\$225,966	\$209,330	\$211,779
City of Westlake Village	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Whittier	\$76,043	\$76,739	\$77,228	\$77,952	\$78,690	\$79,222	\$79,990	\$74,803	\$75,602
County of Los Angeles	\$5,652,255	\$5,700,474	\$5,731,813	\$5,781,980	\$5,833,151	\$5,867,500	\$5,920,738	\$5,576,136	\$5,631,525
Inglewood Unified School District	\$10,404	\$10,513	\$10,600	\$10,714	\$10,830	\$10,924	\$11,045	\$10,169	\$10,295
Los Angeles Unified School District	\$338,584	\$341,577	\$343,601	\$346,714	\$349,889	\$352,100	\$355,403	\$333,548	\$336,985
UCLA	\$103,452	\$103,941	\$103,958	\$104,467	\$104,986	\$105,034	\$105,574	\$103,865	\$104,427
Total	\$20,839,514	\$21,048,847	\$21,209,019	\$21,426,809	\$21,648,955	\$21,822,196	\$22,053,317	\$20,414,047	\$20,654,505

LA-RICS
Cash Flow Estimates
March 2014

Annual Costs - Scenario 8, Excluding In-Kind Match and
Adding HSS Additive Alt Maintenance

	FY 2015/16	FY 2016/17	FY 2017/18	FY 2018/19	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24
LMR									
Operations and Maintenance (from Phase 5 LMR Contract)			\$4,011,090	\$4,011,090	\$3,904,394	\$3,797,698	\$3,797,698	\$3,744,351	\$3,691,003
Capital Replacement			\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841
Administration			\$1,343,528	\$1,370,398	\$1,397,806	\$1,425,762	\$1,454,278	\$1,483,363	\$1,513,031
LMR Total			\$10,161,459	\$10,188,329	\$10,109,041	\$10,030,302	\$10,058,817	\$10,034,555	\$10,010,875
LTE									
Hard Match (from BTOP grant budget narrative)	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012
In-Kind	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Operations and Maintenance (includes Maintenance of HSS)		\$5,971,773	\$6,180,892	\$6,362,401	\$6,907,607	\$7,027,521	\$7,168,071	\$7,311,433	\$7,457,662
Capital Replacement		\$3,452,733	\$3,452,733	\$3,452,733	\$3,452,733	\$3,452,733	\$3,452,733	\$3,452,733	\$3,452,733
Administration	\$1,291,357	\$1,317,184	\$1,343,528	\$1,370,398	\$1,397,806	\$1,425,762	\$1,454,278	\$1,483,363	\$1,513,031
LTE Total	\$3,166,369	\$12,616,702	\$12,852,165	\$13,060,545	\$13,633,159	\$13,781,029	\$13,950,094	\$14,122,541	\$14,298,437
Total LMR+LTE	\$3,166,369	\$12,616,702	\$23,013,624	\$23,248,874	\$23,742,200	\$23,811,330	\$24,008,911	\$24,157,097	\$24,309,312

Interest Rates	
Loan rate for hard match	5.00%
Investment rate for capital replacement sinking fund	0.625%
LTE O&M inflation (after 5th year)	2%
Administration	2%

Note: LMR and LTE O&M based on
respective contracts. In funding model,
annual O&M is averaged using straight line
method.

LA-RICS
Cash Flow Estimates
March 2014

Annual Costs - Scenario 8, Excluding In-Kind Match and
Adding HSS Additive Alt Maintenance

	FY 2024/25	FY 2025/26	FY 2026/27	FY 2027/28	FY 2028/29	FY 2029/30	FY 2030/31	FY 2031/32	Total
LMR									
Operations and Maintenance (from Phase 5 LMR Contract)	\$3,691,003	\$3,637,655	\$3,637,655	\$3,637,655	\$3,584,307	\$3,584,307	\$3,584,307	\$3,584,307	\$55,898,520
Capital Replacement	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$72,102,617
Administration	\$1,543,291	\$1,574,157	\$1,605,640	\$1,637,753	\$1,670,508	\$1,703,918	\$1,737,996	\$1,772,756	\$23,234,187
LMR Total	\$10,041,135	\$10,018,653	\$10,050,136	\$10,082,249	\$10,061,656	\$10,095,066	\$10,129,145	\$10,163,905	
LTE									
Hard Match (from BTOP grant budget narrative)	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$0	\$0	\$28,125,185
In-Kind	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Operations and Maintenance (includes Maintenance of HSS)	\$7,606,815	\$7,758,951	\$7,914,130	\$8,072,413	\$8,233,861	\$8,398,538	\$8,566,509	\$8,737,839	\$119,676,415
Capital Replacement	\$3,452,733	\$3,452,733	\$3,452,733	\$3,452,733	\$3,452,733	\$3,452,733	\$3,452,733	\$3,452,733	\$55,243,728
Administration	\$1,543,291	\$1,574,157	\$1,605,640	\$1,637,753	\$1,670,508	\$1,703,918	\$1,737,996	\$1,772,756	\$25,842,728
LTE Total	\$14,477,851	\$14,660,853	\$14,847,516	\$15,037,911	\$15,232,114	\$15,430,202	\$13,757,238	\$13,963,328	
Total LMR+LTE	\$24,518,987	\$24,679,506	\$24,897,652	\$25,120,160	\$25,293,770	\$25,525,268	\$23,886,383	\$24,127,233	

Interest Rates	
Loan rate for hard match	5.00%
Investment rate for capital replacement sinking fund	0.625%
LTE O&M inflation (after 5th year)	2%
Administration	2%

Note: LMR and LTE O&M based on
respective contracts. In funding model,
annual O&M is averaged using straight line
method.

LA-RICS

Cash Flow Estimates

March 2014

Annual Member Fees - Scenario B, Excluding In-Kind Match and Adding HSS Additive Alt Maintenance

	FY 2015/16	FY 2016/17	FY 2017/18	FY 2018/19	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23
City of Agoura Hills	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Alhambra	\$21,706	\$86,490	\$156,472	\$158,081	\$161,473	\$161,957	\$163,307	\$164,326
City of Arcadia	\$17,034	\$67,874	\$124,910	\$126,179	\$128,824	\$129,187	\$130,253	\$131,048
City of Artesia	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Avalon	\$507	\$2,021	\$3,879	\$3,917	\$3,995	\$4,004	\$4,036	\$4,060
City of Azusa	\$8,391	\$33,435	\$57,444	\$58,058	\$59,393	\$59,604	\$60,117	\$60,518
City of Baldwin Park	\$13,649	\$54,386	\$93,440	\$94,433	\$96,610	\$96,953	\$97,788	\$98,441
City of Bell	\$6,386	\$25,445	\$43,716	\$44,183	\$45,199	\$45,359	\$45,750	\$46,055
City of Bell Gardens	\$5,272	\$21,008	\$36,279	\$36,665	\$37,503	\$37,633	\$37,957	\$38,208
City of Bellflower	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Beverly Hills	\$53,173	\$211,874	\$293,518	\$297,223	\$306,233	\$308,114	\$311,171	\$313,882
City of Bradbury	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Burbank	\$46,764	\$186,334	\$365,007	\$368,548	\$375,638	\$376,464	\$379,453	\$381,581
City of Calabasas	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Carson	\$1,166	\$4,647	\$8,439	\$8,526	\$8,708	\$8,733	\$8,806	\$8,861
City of Cerritos	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Claremont	\$12,751	\$50,809	\$78,955	\$79,866	\$81,960	\$82,344	\$83,102	\$83,731
City of Commerce	\$10,143	\$40,416	\$56,062	\$56,769	\$58,487	\$58,845	\$59,429	\$59,946
City of Compton	\$6,511	\$25,945	\$50,078	\$50,569	\$51,562	\$51,683	\$52,097	\$52,395
City of Covina	\$3,460	\$13,788	\$54,516	\$54,851	\$55,161	\$55,009	\$55,307	\$55,399
City of Culver City	\$14,172	\$56,468	\$156,322	\$157,516	\$159,308	\$159,204	\$160,238	\$160,774
City of Downey	\$32,979	\$131,408	\$213,241	\$215,621	\$220,966	\$221,891	\$223,874	\$225,481
City of Duarte	\$3,803	\$15,152	\$20,726	\$20,990	\$21,637	\$21,773	\$21,991	\$22,186
City of El Monte	\$8,739	\$34,823	\$84,009	\$84,713	\$85,915	\$85,947	\$86,549	\$86,910
City of El Segundo	\$5,037	\$20,069	\$36,934	\$37,310	\$38,092	\$38,199	\$38,514	\$38,749
City of Gardena	\$23,363	\$93,092	\$169,149	\$170,883	\$174,529	\$175,044	\$176,500	\$177,595
City of Glendale	\$109,177	\$435,027	\$681,640	\$689,455	\$707,338	\$710,589	\$717,087	\$722,464
City of Glendora	\$9,065	\$36,120	\$62,056	\$62,720	\$64,162	\$64,389	\$64,944	\$65,378
City of Hawaiian Gardens	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Hawthorne	\$15,308	\$60,997	\$104,797	\$105,917	\$108,353	\$108,737	\$109,674	\$110,406
City of Hermosa Beach	\$5,518	\$21,989	\$46,251	\$46,677	\$47,489	\$47,562	\$47,924	\$48,167
City of Hidden Hills	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Huntington Park	\$12,018	\$47,886	\$83,206	\$84,088	\$85,993	\$86,287	\$87,025	\$87,598
City of Industry	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Inglewood	\$3,415	\$13,608	\$79,213	\$79,610	\$79,718	\$79,371	\$79,737	\$79,767
City of Irwindale	\$255	\$1,016	\$1,745	\$1,763	\$1,804	\$1,810	\$1,826	\$1,838
City of La Canada Flintridge	\$207	\$824	\$956	\$970	\$1,006	\$1,015	\$1,026	\$1,037
City of La Habra Heights	\$359	\$1,431	\$2,520	\$2,547	\$2,603	\$2,612	\$2,634	\$2,651
City of La Mirada	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of La Puente	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of La Verne	\$1,943	\$7,740	\$32,029	\$32,220	\$32,383	\$32,287	\$32,458	\$32,506
City of Lakewood	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Lancaster	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Lawndale	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Long Beach	\$120,795	\$481,319	\$1,161,424	\$1,171,149	\$1,187,757	\$1,188,198	\$1,196,531	\$1,201,507
City of Los Angeles	\$1,453,788	\$5,792,759	\$9,025,832	\$9,129,770	\$9,368,293	\$9,411,970	\$9,498,364	\$9,570,079

LA-RICS

Cash Flow Estimates

March 2014

Annual Member Fees - Scenario 8, Excluding In-Kind Match and Adding HSS Additive Alt Maintenance

	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27	FY 2027/28	FY 2028/29	FY 2029/30	FY 2030/31	FY 2031/32
City of Agoura Hills	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Alhambra	\$165,373	\$166,806	\$167,910	\$169,401	\$170,922	\$172,115	\$173,698	\$162,459	\$164,105
City of Arcadia	\$131,864	\$132,995	\$133,856	\$135,033	\$136,234	\$137,166	\$138,415	\$129,602	\$130,901
City of Artesia	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Avalon	\$4,084	\$4,118	\$4,143	\$4,179	\$4,215	\$4,242	\$4,280	\$4,018	\$4,057
City of Azusa	\$60,930	\$61,475	\$61,908	\$62,476	\$63,054	\$63,521	\$64,123	\$59,768	\$60,394
City of Baldwin Park	\$99,110	\$99,997	\$100,702	\$101,624	\$102,565	\$103,325	\$104,304	\$97,220	\$98,239
City of Bell	\$46,369	\$46,784	\$47,113	\$47,545	\$47,985	\$48,341	\$48,799	\$45,484	\$45,961
City of Bell Gardens	\$38,466	\$38,810	\$39,081	\$39,438	\$39,802	\$40,095	\$40,474	\$37,739	\$38,133
City of Bellflower	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Beverly Hills	\$316,654	\$319,899	\$322,800	\$326,175	\$329,618	\$332,722	\$336,304	\$308,470	\$312,197
City of Bradbury	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Burbank	\$383,771	\$386,942	\$389,257	\$392,557	\$395,923	\$398,436	\$401,937	\$377,817	\$381,460
City of Calabasas	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Carson	\$8,917	\$8,994	\$9,053	\$9,134	\$9,215	\$9,279	\$9,365	\$8,761	\$8,849
City of Cerritos	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Claremont	\$84,376	\$85,180	\$85,857	\$86,692	\$87,545	\$88,272	\$89,159	\$82,513	\$83,436
City of Commerce	\$60,474	\$61,094	\$61,647	\$62,291	\$62,948	\$63,540	\$64,223	\$58,914	\$59,625
City of Compton	\$52,702	\$53,141	\$53,465	\$53,922	\$54,388	\$54,740	\$55,225	\$51,864	\$52,369
City of Covina	\$55,497	\$55,814	\$55,924	\$56,253	\$56,589	\$56,720	\$57,069	\$55,376	\$55,740
City of Culver City	\$161,331	\$162,428	\$163,029	\$164,170	\$165,335	\$166,004	\$167,215	\$160,059	\$161,319
City of Downey	\$227,128	\$229,233	\$230,963	\$233,153	\$235,387	\$237,249	\$239,573	\$222,415	\$224,833
City of Duarte	\$22,385	\$22,616	\$22,824	\$23,064	\$23,310	\$23,532	\$23,788	\$21,796	\$22,062
City of El Monte	\$87,282	\$87,922	\$88,319	\$88,985	\$89,664	\$90,102	\$90,808	\$86,353	\$87,088
City of El Segundo	\$38,991	\$39,325	\$39,580	\$39,928	\$40,283	\$40,558	\$40,928	\$38,322	\$38,706
City of Gardena	\$178,719	\$180,265	\$181,450	\$183,058	\$184,698	\$185,980	\$187,686	\$175,591	\$177,366
City of Glendale	\$727,973	\$734,870	\$740,652	\$747,827	\$755,146	\$761,358	\$768,973	\$712,088	\$720,010
City of Glendora	\$65,822	\$66,411	\$66,879	\$67,492	\$68,117	\$68,621	\$69,272	\$64,567	\$65,243
City of Hawaiian Gardens	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Hawthorne	\$111,157	\$112,152	\$112,942	\$113,977	\$115,032	\$115,884	\$116,982	\$109,037	\$110,179
City of Hermosa Beach	\$48,418	\$48,802	\$49,068	\$49,467	\$49,875	\$50,165	\$50,588	\$47,753	\$48,193
City of Hidden Hills	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Huntington Park	\$88,185	\$88,969	\$89,587	\$90,402	\$91,233	\$91,901	\$92,766	\$86,532	\$87,432
City of Industry	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Inglewood	\$79,804	\$80,192	\$80,245	\$80,649	\$81,061	\$81,138	\$81,566	\$79,981	\$80,427
City of Irwindale	\$1,851	\$1,867	\$1,880	\$1,898	\$1,915	\$1,929	\$1,948	\$1,815	\$1,834
City of La Canada Flintridge	\$1,049	\$1,061	\$1,072	\$1,085	\$1,098	\$1,110	\$1,123	\$1,015	\$1,028
City of La Habra Heights	\$2,668	\$2,692	\$2,710	\$2,735	\$2,760	\$2,780	\$2,806	\$2,619	\$2,646
City of La Mirada	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of La Puente	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of La Verne	\$32,558	\$32,740	\$32,799	\$32,988	\$33,181	\$33,252	\$33,452	\$32,507	\$32,716
City of Lakewood	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Lancaster	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Lawndale	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Long Beach	\$1,206,653	\$1,215,496	\$1,220,993	\$1,230,193	\$1,239,578	\$1,245,626	\$1,255,390	\$1,193,818	\$1,203,976
City of Los Angeles	\$9,643,556	\$9,735,237	\$9,812,346	\$9,907,731	\$10,005,023	\$10,087,856	\$10,189,079	\$9,431,445	\$9,536,758

LA-RICS

Cash Flow Estimates

March 2014

Annual Member Fees - Scenario 8, Excluding In-Kind Match and Adding HSS Additive Alt Maintenance

	FY 2015/16	FY 2016/17	FY 2017/18	FY 2018/19	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23
City of Lynwood	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Manhattan Beach	\$51,001	\$203,219	\$245,410	\$248,868	\$257,791	\$259,876	\$262,707	\$265,393
City of Maywood	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Monrovia	\$20,219	\$80,564	\$130,491	\$131,949	\$135,228	\$135,797	\$137,012	\$137,998
City of Montebello	\$18,935	\$75,449	\$138,851	\$140,261	\$143,202	\$143,606	\$144,791	\$145,674
City of Monterey Park	\$9,734	\$38,784	\$62,478	\$63,180	\$64,761	\$65,037	\$65,621	\$66,097
City of Norwalk	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Palmdale	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Palos Verdes Estates	\$2,433	\$9,694	\$16,655	\$16,833	\$17,220	\$17,281	\$17,430	\$17,546
City of Paramount	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Pasadena	\$18,446	\$73,501	\$233,385	\$235,018	\$237,117	\$236,751	\$238,180	\$238,806
City of Pico Rivera	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Pomona	\$98,680	\$393,201	\$478,901	\$485,603	\$502,837	\$506,838	\$512,327	\$517,514
City of Ranchos Palos Verdes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Redondo Beach	\$12,859	\$51,236	\$130,779	\$131,833	\$133,545	\$133,537	\$134,444	\$134,956
City of Rolling Hills Estates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Rosemead	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of San Dimas	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of San Fernando	\$4,275	\$17,035	\$29,268	\$29,581	\$30,261	\$30,368	\$30,630	\$30,834
City of San Gabriel	\$24,903	\$99,230	\$167,248	\$169,062	\$173,049	\$173,699	\$175,215	\$176,413
City of San Marino	\$7,521	\$29,969	\$46,896	\$47,434	\$48,667	\$48,891	\$49,338	\$49,709
City of Santa Clarita	\$26,848	\$106,978	\$124,551	\$126,359	\$131,093	\$132,226	\$133,703	\$135,128
City of Santa Fe Springs	\$4,110	\$16,378	\$41,348	\$41,684	\$42,235	\$42,236	\$42,524	\$42,689
City of Santa Monica	\$17,233	\$68,668	\$285,919	\$287,624	\$289,055	\$288,187	\$289,713	\$290,136
City of Sierra Madre	\$3,303	\$13,159	\$24,217	\$24,463	\$24,976	\$25,047	\$25,253	\$25,407
City of Signal Hill	\$2,755	\$10,977	\$21,651	\$21,860	\$22,277	\$22,324	\$22,501	\$22,626
City of South El Monte	\$0	\$0	\$1,069	\$1,072	\$1,064	\$1,055	\$1,058	\$1,056
City of South Gate	\$19,453	\$77,511	\$123,022	\$124,418	\$127,593	\$128,159	\$129,322	\$130,276
City of South Pasadena	\$7,749	\$30,878	\$56,827	\$57,404	\$58,607	\$58,772	\$59,257	\$59,619
City of Temple City	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Torrance	\$17,845	\$71,107	\$275,828	\$277,540	\$279,180	\$278,438	\$279,961	\$280,448
City of Vernon	\$7,244	\$28,864	\$54,587	\$55,131	\$56,244	\$56,387	\$56,845	\$57,179
City of Walnut	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of West Covina	\$32,146	\$128,091	\$235,729	\$238,123	\$243,115	\$243,801	\$245,813	\$247,312
City of Westlake Village	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Whittier	\$10,084	\$40,179	\$83,113	\$83,888	\$85,382	\$85,526	\$86,183	\$86,632
County of Los Angeles	\$673,636	\$2,684,169	\$6,133,123	\$6,186,443	\$6,281,744	\$6,286,866	\$6,332,372	\$6,360,945
Inglewood Unified School District	\$1,687	\$6,724	\$11,552	\$11,676	\$11,944	\$11,986	\$12,090	\$12,170
Los Angeles Unified School District	\$42,598	\$169,734	\$368,709	\$372,030	\$378,206	\$378,678	\$381,502	\$383,354
UCLA	\$3,816	\$15,204	\$107,251	\$107,744	\$107,718	\$107,186	\$107,647	\$107,636
Total	\$3,166,369	\$12,616,702	\$23,013,624	\$23,248,874	\$23,742,200	\$23,811,330	\$24,008,911	\$24,157,097

LA-RICS
Cash Flow Estimates
March 2014

Annual Member Fees - Scenario 8, Excluding In-Kind Match and Adding HSS Additive Alt Maintenance

	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27	FY 2027/28	FY 2028/29	FY 2029/30	FY 2030/31	FY 2031/32
City of Lynwood	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Manhattan Beach	\$268,136	\$271,140	\$274,003	\$277,129	\$280,317	\$283,367	\$286,684	\$259,866	\$263,317
City of Maywood	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Monrovia	\$139,008	\$140,298	\$141,360	\$142,702	\$144,070	\$145,212	\$146,636	\$136,116	\$137,598
City of Montebello	\$146,581	\$147,839	\$148,796	\$150,104	\$151,439	\$152,474	\$153,863	\$144,066	\$145,511
City of Monterey Park	\$66,584	\$67,204	\$67,715	\$68,360	\$69,018	\$69,569	\$70,253	\$65,187	\$65,900
City of Norwalk	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Palmdale	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Palos Verdes Estates	\$17,666	\$17,824	\$17,949	\$18,114	\$18,281	\$18,417	\$18,591	\$17,329	\$17,510
City of Paramount	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Pasadena	\$239,462	\$240,979	\$241,694	\$243,273	\$244,883	\$245,693	\$247,368	\$238,154	\$239,897
City of Pico Rivera	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Pomona	\$522,813	\$528,638	\$534,168	\$540,228	\$546,410	\$552,303	\$558,734	\$506,859	\$513,550
City of Ranchos Palos Verdes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Redondo Beach	\$135,488	\$136,450	\$137,019	\$138,021	\$139,043	\$139,672	\$140,735	\$134,204	\$135,310
City of Rolling Hills Estates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Rosemead	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of San Dimas	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of San Fernando	\$31,044	\$31,322	\$31,543	\$31,831	\$32,126	\$32,364	\$32,671	\$30,452	\$30,771
City of San Gabriel	\$177,642	\$179,250	\$180,543	\$182,216	\$183,923	\$185,316	\$187,092	\$174,156	\$176,003
City of San Marino	\$50,089	\$50,564	\$50,962	\$51,456	\$51,960	\$52,388	\$52,913	\$48,994	\$49,539
City of Santa Clarita	\$136,583	\$138,151	\$139,668	\$141,299	\$142,963	\$144,578	\$146,309	\$132,176	\$133,977
City of Santa Fe Springs	\$42,860	\$43,167	\$43,350	\$43,668	\$43,993	\$44,195	\$44,534	\$42,445	\$42,797
City of Santa Monica	\$290,590	\$292,209	\$292,728	\$294,413	\$296,131	\$296,751	\$298,539	\$290,158	\$292,018
City of Sierra Madre	\$25,565	\$25,785	\$25,952	\$26,180	\$26,413	\$26,593	\$26,836	\$25,127	\$25,379
City of Signal Hill	\$22,755	\$22,942	\$23,078	\$23,273	\$23,472	\$23,619	\$23,826	\$22,406	\$22,621
City of South El Monte	\$1,053	\$1,056	\$1,054	\$1,057	\$1,061	\$1,059	\$1,062	\$1,066	\$1,069
City of South Gate	\$131,254	\$132,487	\$133,514	\$134,797	\$136,106	\$137,210	\$138,572	\$128,442	\$129,859
City of South Pasadena	\$59,990	\$60,505	\$60,897	\$61,432	\$61,978	\$62,402	\$62,970	\$58,961	\$59,552
City of Temple City	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Torrance	\$280,965	\$282,582	\$283,163	\$284,845	\$286,561	\$287,244	\$289,029	\$280,282	\$282,139
City of Vernon	\$57,523	\$58,008	\$58,371	\$58,876	\$59,392	\$59,785	\$60,321	\$56,578	\$57,136
City of Walnut	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of West Covina	\$248,852	\$250,987	\$252,612	\$254,834	\$257,099	\$258,858	\$261,215	\$244,583	\$247,035
City of Westlake Village	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Whittier	\$87,093	\$87,790	\$88,280	\$89,005	\$89,745	\$90,278	\$91,047	\$85,861	\$86,662
County of Los Angeles	\$6,390,445	\$6,438,737	\$6,470,150	\$6,520,393	\$6,571,640	\$6,606,068	\$6,659,386	\$6,314,866	\$6,370,338
Inglewood Unified School District	\$12,253	\$12,363	\$12,450	\$12,564	\$12,680	\$12,774	\$12,895	\$12,020	\$12,145
Los Angeles Unified School District	\$385,264	\$388,261	\$390,290	\$393,407	\$396,588	\$398,803	\$402,112	\$380,262	\$383,705
UCLA	\$107,634	\$108,123	\$108,141	\$108,650	\$109,169	\$109,217	\$109,758	\$108,050	\$108,612
Total	\$24,309,312	\$24,518,987	\$24,679,506	\$24,897,652	\$25,120,160	\$25,293,770	\$25,525,268	\$23,886,383	\$24,127,233

LA-RICS
Cash Flow Estimates
March 2014

Annual Costs - Scenario 12, Excluding In-Kind
Match and Capital Replacement, Adding HHS and
Redundant Evolved Packet Core Maintenance

	FY 2015/16	FY 2016/17	FY 2017/18	FY 2018/19	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24
LMR									
Operations and Maintenance (from Phase 5 LMR Contract)			\$4,011,090	\$4,011,090	\$3,904,394	\$3,797,698	\$3,797,698	\$3,744,351	\$3,691,003
Capital Replacement			\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841
Administration			\$1,343,528	\$1,370,398	\$1,397,806	\$1,425,762	\$1,454,278	\$1,483,363	\$1,513,031
LMR Total			\$10,161,459	\$10,188,329	\$10,109,041	\$10,030,302	\$10,058,817	\$10,034,555	\$10,010,875
LTE									
Hard Match (from BTOP grant budget narrative)	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012
In-Kind	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Operations and Maintenance (first 5 years from Phase 5 PSBN contract)		\$6,674,867	\$6,883,986	\$7,065,495	\$7,610,701	\$7,730,615	\$7,885,227	\$8,042,932	\$8,203,790
Capital Replacement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Administration	\$1,291,357	\$1,317,184	\$1,343,528	\$1,370,398	\$1,397,806	\$1,425,762	\$1,454,278	\$1,483,363	\$1,513,031
LTE Total	\$3,166,369	\$9,867,063	\$10,102,526	\$10,310,906	\$10,883,520	\$11,031,390	\$11,214,517	\$11,401,307	\$11,591,833
Total LMR+LTE	\$3,166,369	\$9,867,063	\$20,263,985	\$20,499,235	\$20,992,561	\$21,061,691	\$21,273,334	\$21,435,863	\$21,602,708

Interest Rates	
Loan rate for hard match	5.00%
Investment rate for capital replacement sinking fund	0.625%
LTE O&M inflation (after 5th year)	2%
Administration	2%

Note: LMR and LTE O&M based on respective contracts. In funding model, annual O&M is averaged using straight line method.

LA-RICS
Cash Flow Estimates
March 2014

Annual Costs - Scenario 12, Excluding In-Kind
Match and Capital Replacement, Adding HHS and
Redundant Evolved Packet Core Maintenance

	FY 2024/25	FY 2025/26	FY 2026/27	FY 2027/28	FY 2028/29	FY 2029/30	FY 2030/31	FY 2031/32	Total
LMR									
Operations and Maintenance (from Phase 5 LMR Contract)	\$3,691,003	\$3,637,655	\$3,637,655	\$3,637,655	\$3,584,307	\$3,584,307	\$3,584,307	\$3,584,307	\$55,898,520
Capital Replacement	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$4,806,841	\$72,102,617
Administration	\$1,543,291	\$1,574,157	\$1,605,640	\$1,637,753	\$1,670,508	\$1,703,918	\$1,737,996	\$1,772,756	\$23,234,187
LMR Total	\$10,041,135	\$10,018,653	\$10,050,136	\$10,082,249	\$10,061,656	\$10,095,066	\$10,129,145	\$10,163,905	
LTE									
Hard Match (from BTOP grant budget narrative)	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$1,875,012	\$0	\$0	\$28,125,185
In-Kind	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Operations and Maintenance (first 5 years from Phase 5 PSBN contract)	\$8,367,866	\$8,535,224	\$8,705,928	\$8,880,047	\$9,057,648	\$9,238,801	\$9,423,577	\$9,612,048	\$131,918,751
Capital Replacement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Administration	\$1,543,291	\$1,574,157	\$1,605,640	\$1,637,753	\$1,670,508	\$1,703,918	\$1,737,996	\$1,772,756	\$25,842,728
LTE Total	\$11,786,170	\$11,984,393	\$12,186,581	\$12,392,812	\$12,603,168	\$12,817,731	\$11,161,573	\$11,384,805	
Total LMR+LTE	\$21,827,305	\$22,003,046	\$22,236,717	\$22,475,061	\$22,664,824	\$22,912,797	\$21,290,718	\$21,548,709	

Interest Rates	
Loan rate for hard match	5.00%
Investment rate for capital replacement sinking fund	0.625%
LTE O&M inflation (after 5th year)	2%
Administration	2%

Note: LMR and LTE O&M based on respective contracts. In funding model, annual O&M is averaged using straight line method.

LA-RICS
Cash Flow Estimates
March 2014

Annual Costs - Scenario 12, Excluding In-Kind
Match and Capital Replacement, Adding HHS
and Redundant Evolved Packet Core

Maintenance	FY 2015/16	FY 2016/17	FY 2017/18	FY 2018/19	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23
City of Agoura Hills	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Alhambra	\$21,706	\$67,641	\$137,622	\$139,231	\$142,623	\$143,107	\$144,555	\$145,672
City of Arcadia	\$17,034	\$53,082	\$110,118	\$111,386	\$114,032	\$114,395	\$115,537	\$116,408
City of Artesia	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Avalon	\$507	\$1,580	\$3,439	\$3,477	\$3,554	\$3,564	\$3,598	\$3,624
City of Azusa	\$8,391	\$26,148	\$50,157	\$50,771	\$52,106	\$52,317	\$52,868	\$53,307
City of Baldwin Park	\$13,649	\$42,533	\$81,587	\$82,586	\$84,757	\$85,100	\$85,996	\$86,711
City of Bell	\$6,386	\$19,899	\$38,170	\$38,638	\$39,654	\$39,814	\$40,233	\$40,567
City of Bell Gardens	\$5,272	\$16,429	\$31,701	\$32,087	\$32,924	\$33,055	\$33,402	\$33,677
City of Bellflower	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Beverly Hills	\$53,173	\$165,699	\$247,343	\$251,048	\$260,058	\$261,939	\$265,232	\$268,183
City of Bradbury	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Burbank	\$46,764	\$145,725	\$324,398	\$327,939	\$335,029	\$335,855	\$339,052	\$341,392
City of Calabasas	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Carson	\$1,166	\$3,634	\$7,426	\$7,513	\$7,695	\$7,721	\$7,799	\$7,859
City of Cerritos	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Claremont	\$12,751	\$39,736	\$67,882	\$68,793	\$70,887	\$71,271	\$72,085	\$72,772
City of Commerce	\$10,143	\$31,608	\$47,254	\$47,961	\$49,679	\$50,037	\$50,666	\$51,229
City of Compton	\$6,511	\$20,291	\$44,424	\$44,915	\$45,908	\$46,029	\$46,472	\$46,799
City of Covina	\$3,460	\$10,783	\$51,511	\$51,846	\$52,156	\$52,004	\$52,318	\$52,425
City of Culver City	\$14,172	\$44,162	\$144,016	\$145,210	\$147,002	\$146,898	\$147,995	\$148,595
City of Downey	\$32,979	\$102,769	\$184,602	\$186,982	\$192,327	\$193,252	\$195,382	\$197,138
City of Duarte	\$3,803	\$11,850	\$17,424	\$17,688	\$18,335	\$18,471	\$18,706	\$18,918
City of El Monte	\$8,739	\$27,234	\$76,420	\$77,124	\$78,325	\$78,357	\$78,999	\$79,399
City of El Segundo	\$5,037	\$15,696	\$32,561	\$32,936	\$33,718	\$33,825	\$34,163	\$34,421
City of Gardena	\$23,363	\$72,804	\$148,861	\$150,595	\$154,240	\$154,756	\$156,315	\$157,516
City of Glendale	\$109,177	\$340,219	\$586,831	\$594,647	\$612,530	\$615,781	\$622,764	\$628,635
City of Glendora	\$9,065	\$28,248	\$54,184	\$54,848	\$56,290	\$56,518	\$57,113	\$57,587
City of Hawaiian Gardens	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Hawthorne	\$15,308	\$47,703	\$91,504	\$92,624	\$95,059	\$95,444	\$96,449	\$97,250
City of Hermosa Beach	\$5,518	\$17,197	\$41,459	\$41,885	\$42,697	\$42,770	\$43,156	\$43,425
City of Hidden Hills	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Huntington Park	\$12,018	\$37,450	\$72,770	\$73,652	\$75,557	\$75,851	\$76,643	\$77,269
City of Industry	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Inglewood	\$3,415	\$10,643	\$76,247	\$76,644	\$76,752	\$76,405	\$76,786	\$76,832
City of Irwindale	\$255	\$794	\$1,524	\$1,542	\$1,583	\$1,589	\$1,606	\$1,619
City of La Canada Flintridge	\$207	\$644	\$776	\$790	\$827	\$836	\$848	\$860
City of La Habra Heights	\$359	\$1,119	\$2,208	\$2,235	\$2,291	\$2,300	\$2,324	\$2,342
City of La Mirada	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of La Puente	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of La Verne	\$1,943	\$6,053	\$30,342	\$30,533	\$30,696	\$30,600	\$30,780	\$30,837
City of Lakewood	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Lancaster	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Lawndale	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Long Beach	\$120,795	\$376,422	\$1,056,527	\$1,066,252	\$1,082,860	\$1,083,301	\$1,092,170	\$1,097,694
City of Los Angeles	\$1,453,788	\$4,530,306	\$7,763,379	\$7,867,317	\$8,105,840	\$8,149,517	\$8,242,367	\$8,320,667
City of Lynwood	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

LA-RICS
Cash Flow Estimates
March 2014

Annual Costs - Scenario 12, Excluding In-Kind Match and Capital Replacement, Adding HHS and Redundant Evolved Packet Core

Maintenance	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27	FY 2027/28	FY 2028/29	FY 2029/30	FY 2030/31	FY 2031/32
City of Agoura Hills	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Alhambra	\$146,819	\$148,354	\$149,562	\$151,160	\$152,790	\$154,093	\$155,789	\$144,665	\$146,429
City of Arcadia	\$117,303	\$118,515	\$119,458	\$120,718	\$122,004	\$123,023	\$124,360	\$115,638	\$117,030
City of Artesia	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Avalon	\$3,650	\$3,687	\$3,714	\$3,752	\$3,791	\$3,821	\$3,862	\$3,602	\$3,644
City of Azusa	\$53,757	\$54,342	\$54,816	\$55,424	\$56,044	\$56,554	\$57,200	\$52,889	\$53,561
City of Baldwin Park	\$87,443	\$88,394	\$89,164	\$90,154	\$91,163	\$91,993	\$93,043	\$86,031	\$87,124
City of Bell	\$40,910	\$41,355	\$41,716	\$42,178	\$42,651	\$43,039	\$43,530	\$40,250	\$40,761
City of Bell Gardens	\$33,960	\$34,328	\$34,625	\$35,008	\$35,398	\$35,718	\$36,124	\$33,417	\$33,839
City of Bellflower	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Beverly Hills	\$271,202	\$274,697	\$277,854	\$281,490	\$285,199	\$288,574	\$292,432	\$264,881	\$268,895
City of Bradbury	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Burbank	\$343,798	\$347,189	\$349,729	\$353,258	\$356,858	\$359,609	\$363,354	\$339,482	\$343,378
City of Calabasas	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Carson	\$7,920	\$8,003	\$8,067	\$8,153	\$8,241	\$8,311	\$8,402	\$7,805	\$7,900
City of Cerritos	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Claremont	\$73,476	\$74,340	\$75,078	\$75,977	\$76,893	\$77,685	\$78,638	\$72,060	\$73,052
City of Commerce	\$51,804	\$52,471	\$53,073	\$53,767	\$54,475	\$55,118	\$55,855	\$50,599	\$51,365
City of Compton	\$47,136	\$47,606	\$47,961	\$48,450	\$48,949	\$49,334	\$49,853	\$46,526	\$47,066
City of Covina	\$52,539	\$52,872	\$52,999	\$53,345	\$53,699	\$53,846	\$54,214	\$52,540	\$52,922
City of Culver City	\$149,217	\$150,381	\$151,050	\$152,261	\$153,496	\$154,238	\$155,523	\$148,442	\$149,779
City of Downey	\$198,937	\$201,198	\$203,087	\$205,439	\$207,838	\$209,868	\$212,363	\$195,380	\$197,977
City of Duarte	\$19,134	\$19,383	\$19,610	\$19,869	\$20,133	\$20,375	\$20,650	\$18,679	\$18,965
City of El Monte	\$79,811	\$80,492	\$80,932	\$81,641	\$82,363	\$82,845	\$83,597	\$79,189	\$79,971
City of El Segundo	\$34,685	\$35,044	\$35,322	\$35,695	\$36,075	\$36,376	\$36,772	\$34,193	\$34,604
City of Gardena	\$158,749	\$160,404	\$161,702	\$163,424	\$165,181	\$166,582	\$168,410	\$156,439	\$158,340
City of Glendale	\$634,649	\$642,060	\$648,367	\$656,077	\$663,942	\$670,712	\$678,894	\$622,589	\$631,102
City of Glendora	\$58,074	\$58,705	\$59,217	\$59,874	\$60,544	\$61,095	\$61,793	\$57,136	\$57,861
City of Hawaiian Gardens	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Hawthorne	\$98,072	\$99,138	\$100,002	\$101,112	\$102,244	\$103,174	\$104,352	\$96,488	\$97,713
City of Hermosa Beach	\$43,701	\$44,111	\$44,404	\$44,830	\$45,265	\$45,583	\$46,035	\$43,229	\$43,700
City of Hidden Hills	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Huntington Park	\$77,912	\$78,752	\$79,429	\$80,303	\$81,194	\$81,923	\$82,850	\$76,680	\$77,645
City of Industry	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Inglewood	\$76,885	\$77,289	\$77,358	\$77,779	\$78,208	\$78,302	\$78,749	\$77,181	\$77,646
City of Irwindale	\$1,633	\$1,651	\$1,665	\$1,683	\$1,702	\$1,718	\$1,737	\$1,606	\$1,627
City of La Canada Flintridge	\$872	\$885	\$898	\$911	\$925	\$939	\$953	\$845	\$860
City of La Habra Heights	\$2,362	\$2,387	\$2,407	\$2,433	\$2,460	\$2,481	\$2,509	\$2,325	\$2,354
City of La Mirada	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of La Puente	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of La Verne	\$30,898	\$31,089	\$31,157	\$31,356	\$31,559	\$31,639	\$31,850	\$30,915	\$31,134
City of Lakewood	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Lancaster	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Lawndale	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Long Beach	\$1,103,398	\$1,112,810	\$1,118,888	\$1,128,680	\$1,138,669	\$1,145,334	\$1,155,726	\$1,094,795	\$1,105,607
City of Los Angeles	\$8,400,862	\$8,499,394	\$8,583,491	\$8,686,005	\$8,790,568	\$8,880,817	\$8,989,605	\$8,239,686	\$8,352,869
City of Lynwood	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

LA-RICS
Cash Flow Estimates
March 2014

Annual Costs - Scenario 12, Excluding In-Kind
Match and Capital Replacement, Adding HHS
and Redundant Evolved Packet Core

Maintenance	FY 2015/16	FY 2016/17	FY 2017/18	FY 2018/19	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23
City of Manhattan Beach	\$51,001	\$158,930	\$201,121	\$204,579	\$213,503	\$215,587	\$218,644	\$221,561
City of Maywood	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Monrovia	\$20,219	\$63,007	\$112,933	\$114,391	\$117,670	\$118,239	\$119,544	\$120,621
City of Montebello	\$18,935	\$59,006	\$122,408	\$123,818	\$126,759	\$127,162	\$128,432	\$129,401
City of Monterey Park	\$9,734	\$30,332	\$54,026	\$54,727	\$56,308	\$56,585	\$57,212	\$57,731
City of Norwalk	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Palmdale	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Palos Verdes Estates	\$2,433	\$7,581	\$14,542	\$14,720	\$15,107	\$15,168	\$15,328	\$15,455
City of Paramount	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Pasadena	\$18,446	\$57,482	\$217,367	\$219,000	\$221,099	\$220,732	\$222,244	\$222,953
City of Pico Rivera	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Pomona	\$98,680	\$307,508	\$393,209	\$399,910	\$417,144	\$421,145	\$427,072	\$432,707
City of Rancho Palos Verdes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Redondo Beach	\$12,859	\$40,070	\$119,613	\$120,667	\$122,379	\$122,370	\$123,335	\$123,906
City of Rolling Hills Estates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Rosemead	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of San Dimas	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of San Fernando	\$4,275	\$13,323	\$25,555	\$25,868	\$26,548	\$26,656	\$26,936	\$27,160
City of San Gabriel	\$24,903	\$77,604	\$145,622	\$147,436	\$151,423	\$152,074	\$153,699	\$155,011
City of San Marino	\$7,521	\$23,438	\$40,365	\$40,903	\$42,135	\$42,360	\$42,841	\$43,245
City of Santa Clarita	\$26,848	\$83,663	\$101,237	\$103,045	\$107,779	\$108,912	\$110,508	\$112,055
City of Santa Fe Springs	\$4,110	\$12,809	\$37,779	\$38,115	\$38,666	\$38,666	\$38,973	\$39,157
City of Santa Monica	\$17,233	\$53,703	\$270,953	\$272,659	\$274,090	\$273,221	\$274,824	\$275,325
City of Sierra Madre	\$3,303	\$10,291	\$21,349	\$21,595	\$22,108	\$22,179	\$22,400	\$22,569
City of Signal Hill	\$2,755	\$8,585	\$19,259	\$19,468	\$19,885	\$19,932	\$20,121	\$20,258
City of South El Monte	\$0	\$0	\$1,069	\$1,072	\$1,064	\$1,055	\$1,058	\$1,056
City of South Gate	\$19,453	\$60,618	\$106,129	\$107,526	\$110,700	\$111,267	\$112,516	\$113,558
City of South Pasadena	\$7,749	\$24,149	\$50,097	\$50,674	\$51,878	\$52,043	\$52,562	\$52,959
City of Temple City	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Torrance	\$17,845	\$55,610	\$260,331	\$262,044	\$263,684	\$262,941	\$264,544	\$265,111
City of Vernon	\$7,244	\$22,573	\$48,297	\$48,840	\$49,954	\$50,097	\$50,587	\$50,954
City of Walnut	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of West Covina	\$32,146	\$100,175	\$207,813	\$210,207	\$215,199	\$215,885	\$218,040	\$219,685
City of Westlake Village	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Whittier	\$10,084	\$31,423	\$74,356	\$75,131	\$76,626	\$76,770	\$77,471	\$77,966
County of Los Angeles	\$673,636	\$2,099,191	\$5,548,145	\$5,601,465	\$5,696,766	\$5,701,888	\$5,750,386	\$5,782,010
Inglewood Unified School District	\$1,687	\$5,258	\$10,087	\$10,210	\$10,479	\$10,521	\$10,632	\$10,720
Los Angeles Unified School District	\$42,598	\$132,743	\$331,717	\$335,039	\$341,214	\$341,686	\$344,699	\$346,745
UCLA	\$3,816	\$11,891	\$103,937	\$104,431	\$104,405	\$103,872	\$104,350	\$104,356
Total	\$3,166,369	\$9,867,063	\$20,263,985	\$20,499,235	\$20,992,561	\$21,061,691	\$21,273,334	\$21,435,863

LA-RICS
Cash Flow Estimates
March 2014

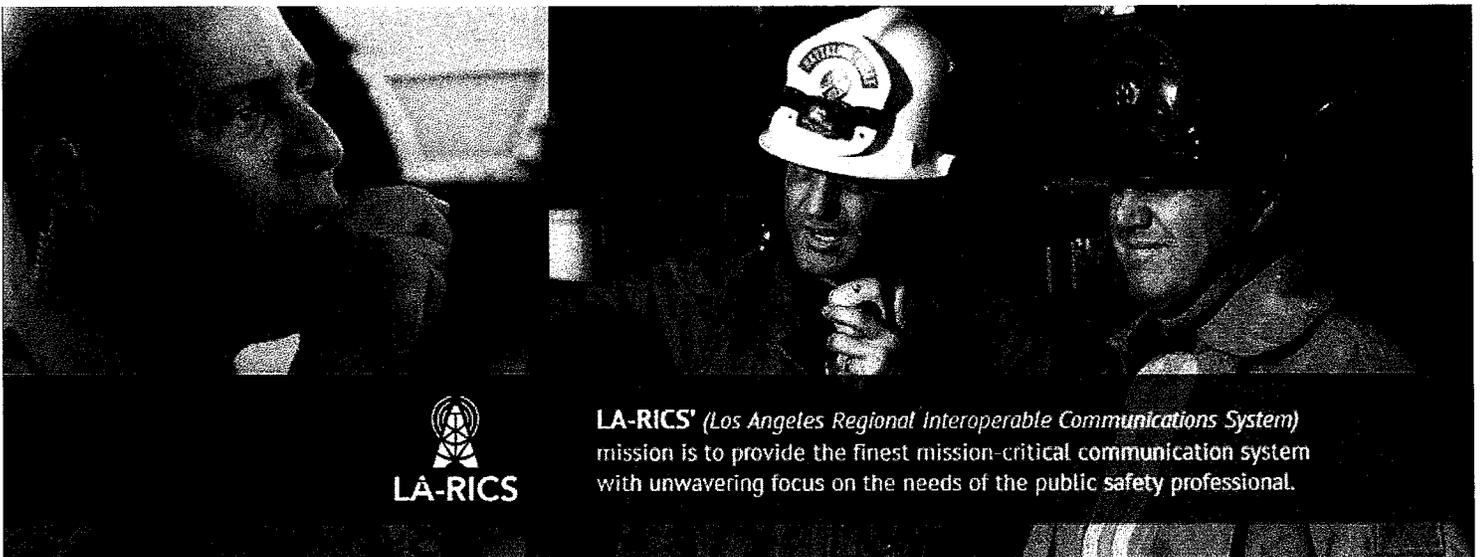
Annual Costs - Scenario 12, Excluding In-Kind
Match and Capital Replacement, Adding HHS
and Redundant Evolved Packet Core

Maintenance	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27	FY 2027/28	FY 2028/29	FY 2029/30	FY 2030/31	FY 2031/32
City of Manhattan Beach	\$224,540	\$227,785	\$230,893	\$234,269	\$237,712	\$241,022	\$244,604	\$218,057	\$221,784
City of Maywood	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Monrovia	\$121,725	\$123,110	\$124,269	\$125,710	\$127,180	\$128,425	\$129,954	\$119,541	\$121,132
City of Montebello	\$130,395	\$131,742	\$132,790	\$134,192	\$135,621	\$136,753	\$138,240	\$128,544	\$130,091
City of Monterey Park	\$58,264	\$58,929	\$59,488	\$60,181	\$60,887	\$61,487	\$62,222	\$57,208	\$57,973
City of Norwalk	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Palmdale	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Palos Verdes Estates	\$15,586	\$15,755	\$15,893	\$16,069	\$16,249	\$16,397	\$16,584	\$15,334	\$15,529
City of Paramount	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Pasadena	\$223,694	\$225,298	\$226,102	\$227,771	\$229,474	\$230,378	\$232,149	\$223,032	\$224,875
City of Pico Rivera	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Pomona	\$438,462	\$444,752	\$450,756	\$457,300	\$463,975	\$470,372	\$477,316	\$425,965	\$433,190
City of Ranchos Palos Verdes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Redondo Beach	\$124,496	\$125,519	\$126,150	\$127,215	\$128,301	\$128,996	\$130,126	\$123,664	\$124,839
City of Rolling Hills Estates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Rosemead	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of San Dimas	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of San Fernando	\$27,390	\$27,687	\$27,929	\$28,239	\$28,555	\$28,815	\$29,144	\$26,947	\$27,289
City of San Gabriel	\$156,355	\$158,080	\$159,493	\$161,288	\$163,119	\$164,640	\$166,545	\$153,741	\$155,723
City of San Marino	\$43,660	\$44,170	\$44,605	\$45,136	\$45,677	\$46,144	\$46,707	\$42,828	\$43,414
City of Santa Clarita	\$113,634	\$115,328	\$116,974	\$118,737	\$120,535	\$122,287	\$124,157	\$110,167	\$112,113
City of Santa Fe Springs	\$39,347	\$39,672	\$39,875	\$40,214	\$40,560	\$40,783	\$41,142	\$39,075	\$39,449
City of Santa Monica	\$275,859	\$277,559	\$278,160	\$279,930	\$281,735	\$282,442	\$284,320	\$276,031	\$277,984
City of Sierra Madre	\$22,743	\$22,977	\$23,160	\$23,405	\$23,654	\$23,851	\$24,111	\$22,420	\$22,689
City of Signal Hill	\$20,400	\$20,600	\$20,749	\$20,958	\$21,170	\$21,332	\$21,553	\$20,147	\$20,377
City of South El Monte	\$1,053	\$1,056	\$1,054	\$1,057	\$1,061	\$1,059	\$1,062	\$1,066	\$1,069
City of South Gate	\$114,626	\$115,951	\$117,071	\$118,450	\$119,856	\$121,059	\$122,522	\$112,496	\$114,018
City of South Pasadena	\$53,366	\$53,917	\$54,346	\$54,920	\$55,504	\$55,968	\$56,576	\$52,608	\$53,241
City of Temple City	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Torrance	\$265,711	\$267,412	\$268,079	\$269,849	\$271,654	\$272,427	\$274,305	\$265,653	\$267,607
City of Vernon	\$51,331	\$51,851	\$52,248	\$52,789	\$53,340	\$53,770	\$54,344	\$50,640	\$51,237
City of Walnut	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of West Covina	\$221,374	\$223,660	\$225,440	\$227,819	\$230,245	\$232,167	\$234,692	\$218,231	\$220,857
City of Westlake Village	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
City of Whittier	\$78,474	\$79,218	\$79,756	\$80,531	\$81,321	\$81,905	\$82,727	\$77,595	\$78,450
County of Los Angeles	\$5,814,623	\$5,866,089	\$5,900,741	\$5,954,286	\$6,008,902	\$6,046,767	\$6,103,590	\$5,762,646	\$5,821,764
Inglewood Unified School District	\$10,811	\$10,928	\$11,024	\$11,146	\$11,271	\$11,373	\$11,503	\$10,636	\$10,771
Los Angeles Unified School District	\$348,852	\$352,049	\$354,283	\$357,609	\$361,003	\$363,436	\$366,966	\$345,342	\$349,015
UCLA	\$104,372	\$104,879	\$104,915	\$105,443	\$105,982	\$106,049	\$106,610	\$104,922	\$105,504
Total	\$21,602,708	\$21,827,305	\$22,003,046	\$22,236,717	\$22,475,061	\$22,664,824	\$22,912,797	\$21,290,718	\$21,548,709



LA-RICS

BUY IN COST FOR LATE ADOPTERS – DESCRIPTION, FORMULA, AND EXAMPLES



LA-RICS' (*Los Angeles Regional Interoperable Communications System*) mission is to provide the finest mission-critical communication system with unwavering focus on the needs of the public safety professional.

LMR and LTE Buy-In Assumptions for Late Adopters, and Calculation Examples:

LMR

A capacity, or standby, charge is a one-time charge and the amount is based on the year the member joins and their O&M cost share. A member pays that year's charge based on a progressive rate structure, and is not cumulative from prior years. The charge progressively increases each year and is above a member's annual costs.

Rationale: LMR has capacity for all members from the time of implementation and each member receives capacity in the system whether used or not by the member. When not used, early adopters are paying for it. A progressive charge recoups a portion of the amount paid by early adopters and provides an urgency measure to join.

LTE

Upon joining, the member pays their cumulative hard match to catch up, plus one time buy-in comprised of a hard match fee and a separate capacity charge. The cumulative hard match is the amount starting from year 1 of LTE implementation. For example, if a member joins in year 5, it must pay its hard match share from years 1 - 5 ($\$27,700 \times 5$). Also, the one time buy-in fee for the hard match is based on the year joined and the member's hard match annual share. In addition, similar to the LMR, a one time capacity, or standby, charge is applied based on the member's annual O&M cost share. The member pays that year's charge based on a progressive rate structure, and is not cumulative from prior years. Both the hard match fee and capacity charge progressively increase each year and are above a member's annual costs.

Rationale: If all members do not join LA-RICS, there will be a funding gap in the hard match requirement. Late adopters pay the buy-in hard match fee to help offset this cost of those who do not join. LTE has capacity for all members from the time of implementation and each member receives capacity in the system whether used or not by the member. When not used, early adopters are paying for it. The capacity fee is a progressive fee that recoups a portion of the amount paid by early adopters and provides an urgency measure to join.

Formula for LMR Capacity Charge (One Time Buy-In)

$$\text{Member Agency's Annual LMR O\&M Cost} + \left(\frac{\text{Number of fiscal years preceding first year of LMR implementation that member joins LA-RICS}}{15 \text{ (years, lifespan of LMR backbone system)}} \right) = \text{Member's LMR Capacity Charge}$$

Formula for LTE Hard Match One Time Buy-In

$$\text{Member Agency's Annualized Hard Match} + \left(\frac{\text{Number of fiscal years preceding first year of LTE implementation that member joins LA-RICS}}{15 \text{ (years, lifespan of LTE backbone system)}} \right) = \text{Member's LTE Hard Match Buy In}$$

Formula for LTE Capacity Charge (One Time Buy-In)

$$\text{Member Agency's Annual LTE O\&M Cost} + \left(\frac{\text{Number of fiscal years preceding first year of LTE implementation that member joins LA-RICS}}{15 \text{ (years, lifespan of LTE backbone system)}} \right) = \text{Member's LTE Capacity Charge}$$

Example: City of Burbank
 LMR Buy In (Scenario 12)

Example: City of Burbank
 LTE Buy In (Scenario 12)

LMR Capacity Charge - One time buy in

Year	O&M Cost Share	Charge: 1/15th of O&M cost per year that increases by 1/15 annually		
		Rate Schedule		Charge
1	\$64,200	1/15	7%	\$4,280
2	\$63,900	2/15	13%	\$8,520
3	\$63,600	3/15	20%	\$12,720
4	\$63,300	4/15	27%	\$16,880
5	\$63,000	5/15	33%	\$21,000
6	\$62,700	6/15	40%	\$25,080
7	\$62,400	7/15	47%	\$29,120
8	\$62,100	8/15	53%	\$33,120
9	\$61,800	9/15	60%	\$37,080
10	\$61,500	10/15	67%	\$41,000
11	\$61,200	11/15	73%	\$44,880
12	\$60,900	12/15	80%	\$48,720
13	\$60,600	13/15	87%	\$52,520
14	\$60,300	14/15	93%	\$56,280
15	\$60,000	15/15	100%	\$60,000

LTE Buy in Fee and Capacity Charge- One time buy in

Year	Annualized Hard Match Share, includes 5% interest	Fee: 1/15th of hard match per year that increases by 1/15 annually	O&M Cost Share	Charge: 1/15th of O&M cost per year that increases by 1/15 annually	
		Rate Schedule	Fee	Rate Schedule	Charge
1	\$27,700	1/15	7%	\$1,847	\$98,500
2	\$27,700	2/15	13%	\$3,693	\$100,500
3	\$27,700	3/15	20%	\$5,540	\$102,500
4	\$27,700	4/15	27%	\$7,387	\$104,600
5	\$27,700	5/15	33%	\$9,233	\$106,700
6	\$27,700	6/15	40%	\$11,080	\$108,800
7	\$27,700	7/15	47%	\$12,927	\$111,000
8	\$27,700	8/15	53%	\$14,773	\$113,200
9	\$27,700	9/15	60%	\$16,620	\$115,500
10	\$27,700	10/15	67%	\$18,467	\$117,800
11	\$27,700	11/15	73%	\$20,313	\$120,200
12	\$27,700	12/15	80%	\$22,160	\$122,600
13	\$27,700	13/15	87%	\$24,007	\$125,100
14	\$27,700	14/15	93%	\$25,853	\$127,600
15	\$27,700	15/15	100%	\$27,700	\$130,200

Example: City of Long Beach
 LMR Buy In (Scenario 12)

Example: City of Long Beach
 LTE Buy In (Scenario 12)

LMR Capacity Charge - One time buy in

LTE Buy in Fee and Capacity Charge- One time buy in

Year	O&M Cost Share	Charge: 1/15th of O&M cost per year that increases by 1/15 annually		
		Rate Schedule		Charge
1	\$209,100	1/15 7%		\$13,940
2	\$208,100	2/15 13%		\$27,747
3	\$207,100	3/15 20%		\$41,420
4	\$206,100	4/15 27%		\$54,960
5	\$205,100	5/15 33%		\$68,367
6	\$204,100	6/15 40%		\$81,640
7	\$203,100	7/15 47%		\$94,780
8	\$202,100	8/15 53%		\$107,787
9	\$201,100	9/15 60%		\$120,660
10	\$200,100	10/15 67%		\$133,400
11	\$199,100	11/15 73%		\$146,007
12	\$198,100	12/15 80%		\$158,480
13	\$197,100	13/15 87%		\$170,820
14	\$196,100	14/15 93%		\$183,027
15	\$195,100	15/15 100%		\$195,100

Year	Annualized Hard Match Share, includes 5% interest	Fee: 1/15th of hard match per year that increases by 1/15 annually		O&M Cost Share	Charge: 1/15th of O&M cost per year that increases by 1/15 annually	
		Rate Schedule	Fee		Rate Schedule	Charge
1	\$71,500	1/15 7%	\$4,767	\$254,600	1/15 7%	\$16,973
2	\$71,500	2/15 13%	\$9,533	\$259,700	2/15 13%	\$34,627
3	\$71,500	3/15 20%	\$14,300	\$264,900	3/15 20%	\$52,980
4	\$71,500	4/15 27%	\$19,067	\$270,200	4/15 27%	\$72,053
5	\$71,500	5/15 33%	\$23,833	\$275,600	5/15 33%	\$91,867
6	\$71,500	6/15 40%	\$28,600	\$281,100	6/15 40%	\$112,440
7	\$71,500	7/15 47%	\$33,367	\$286,700	7/15 47%	\$133,793
8	\$71,500	8/15 53%	\$38,133	\$292,400	8/15 53%	\$155,947
9	\$71,500	9/15 60%	\$42,900	\$298,200	9/15 60%	\$178,920
10	\$71,500	10/15 67%	\$47,667	\$304,200	10/15 67%	\$202,800
11	\$71,500	11/15 73%	\$52,433	\$310,300	11/15 73%	\$227,553
12	\$71,500	12/15 80%	\$57,200	\$316,500	12/15 80%	\$253,200
13	\$71,500	13/15 87%	\$61,967	\$322,800	13/15 87%	\$279,760
14	\$71,500	14/15 93%	\$66,733	\$329,300	14/15 93%	\$307,347
15	\$71,500	15/15 100%	\$71,500	\$335,900	15/15 100%	\$335,900

Example: City of Redondo Beach
 LMR Buy In (Scenario 12)

Example: City of Redondo Beach
 LTE Buy In (Scenario 12)

LMR Capacity Charge - One time buy in

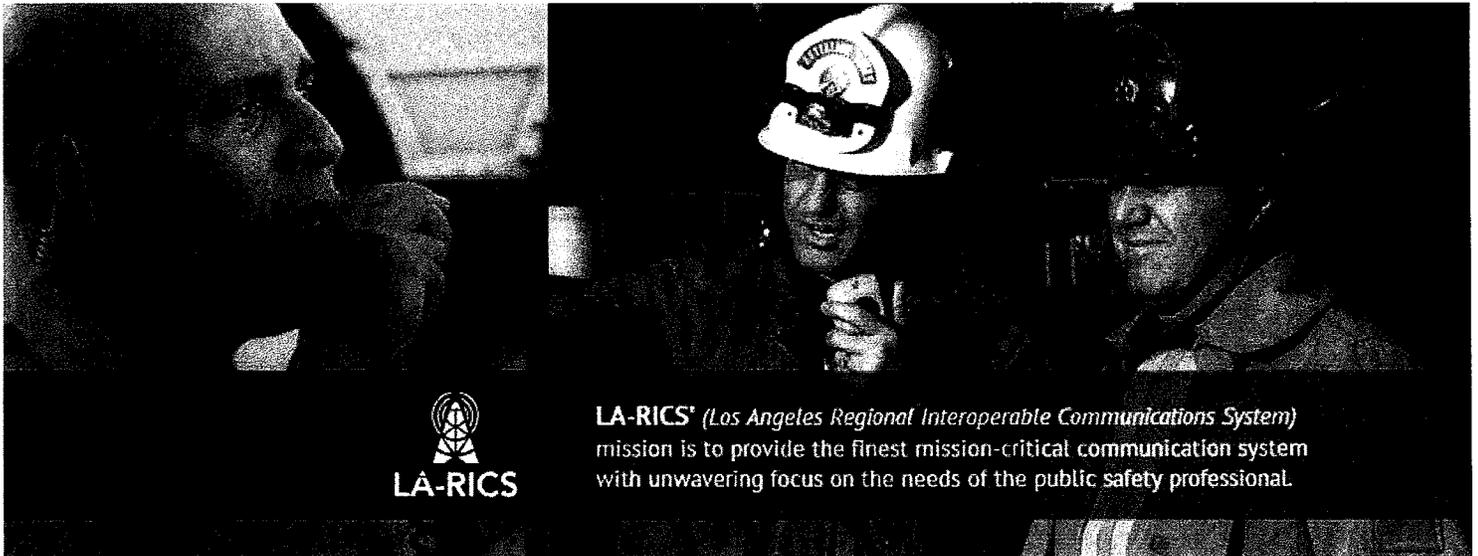
LTE Buy In Fee and Capacity Charge- One time buy in

Year	O&M Cost Share	Charge: 1/15th of O&M cost per year that increases by 1/15 annually		Year	Annualized Hard Match Share, includes 5% interest	Fee: 1/15th of hard match per year that increases by 1/15 annually		O&M Cost Share	Charge: 1/15th of O&M cost per year that increases by 1/15 annually				
		Rate Schedule	Charge			Rate Schedule	Fee		Rate Schedule	Fee			
1	\$23,700	1/15	7%	\$1,580	1	\$7,600	1/15	7%	\$507	\$27,100	1/15	7%	\$1,807
2	\$23,600	2/15	13%	\$3,147	2	\$7,600	2/15	13%	\$1,013	\$27,600	2/15	13%	\$3,680
3	\$23,500	3/15	20%	\$4,700	3	\$7,600	3/15	20%	\$1,520	\$28,200	3/15	20%	\$5,640
4	\$23,400	4/15	27%	\$6,240	4	\$7,600	4/15	27%	\$2,027	\$28,800	4/15	27%	\$7,680
5	\$23,300	5/15	33%	\$7,767	5	\$7,600	5/15	33%	\$2,533	\$29,400	5/15	33%	\$9,800
6	\$23,200	6/15	40%	\$9,280	6	\$7,600	6/15	40%	\$3,040	\$30,000	6/15	40%	\$12,000
7	\$23,100	7/15	47%	\$10,780	7	\$7,600	7/15	47%	\$3,547	\$30,600	7/15	47%	\$14,280
8	\$23,000	8/15	53%	\$12,267	8	\$7,600	8/15	53%	\$4,053	\$31,200	8/15	53%	\$16,640
9	\$22,900	9/15	60%	\$13,740	9	\$7,600	9/15	60%	\$4,560	\$31,800	9/15	60%	\$19,080
10	\$22,800	10/15	67%	\$15,200	10	\$7,600	10/15	67%	\$5,067	\$32,400	10/15	67%	\$21,600
11	\$22,700	11/15	73%	\$16,647	11	\$7,600	11/15	73%	\$5,573	\$33,000	11/15	73%	\$24,200
12	\$22,600	12/15	80%	\$18,080	12	\$7,600	12/15	80%	\$6,080	\$33,700	12/15	80%	\$26,960
13	\$22,500	13/15	87%	\$19,500	13	\$7,600	13/15	87%	\$6,587	\$34,400	13/15	87%	\$29,813
14	\$22,400	14/15	93%	\$20,907	14	\$7,600	14/15	93%	\$7,093	\$35,100	14/15	93%	\$32,760
15	\$22,300	15/15	100%	\$22,300	15	\$7,600	15/15	100%	\$7,600	\$35,800	15/15	100%	\$35,800



LA-RICS

DRAFT FEE ESTIMATES



LA-RICS' (*Los Angeles Regional Interoperable Communications System*) mission is to provide the finest mission-critical communication system with unwavering focus on the needs of the public safety professional.

LA-RICS Draft Proposed Funding Plan

Draft Fee Estimates

March 2014

This document contains draft annual fee estimates by member agency for the LA-RICS Land Mobile Radio (LMR) and Long Term Evolution (LTE) systems. The fee estimates are calculated using the cost model described in the Cost Allocation Working Paper. Fee estimates are shown for LA-RICS members with their own independent police and/or fire services. Estimated fees for full contract cities are not calculated, as fees for full contract cities will be determined by each member’s contract terms with Los Angeles County. However, where full contract members report secondary responder information, fee estimates are provided for that portion. Also, if a full contract member did not submit a survey for secondary responder information, a fee was not calculated. Full contract cities are as follows:

- City of Agoura Hills
- City of Artesia
- City of Bellflower
- City of Bradbury
- City of Calabasas
- City of Carson
- City of Cerritos
- City of Commerce
- City of Duarte
- City of Hawaiian Gardens
- City of Hidden Hills
- City of Industry
- City of La Cañada Flintridge
- City of La Mirada
- City of La Puente
- City of Lakewood
- City of Lancaster
- City of Lawndale
- City of Lynwood
- City of Maywood
- City of Norwalk
- City of Palmdale
- City of Paramount
- City of Pico Rivera
- City of Rancho Palos Verdes
- City of Rolling Hills Estates
- City of Rosemead
- City of San Dimas
- City of Santa Clarita
- City of South El Monte
- City of Temple City
- City of Walnut
- City of Westlake Village

A survey was distributed to the member agencies in early February 2014 to collect updated data for the cost model. The need for updated data was in response to suggestions by member agencies attending recent funding plan workshops. Forty-eight (48) member agencies responded to the survey. Of the thirty-eight (38) member agencies that did not provide a response, twenty-one (21) members contract with the County for police, fire, and EMS. The remaining members who did not complete surveys include:

Member	Does the member contract with the County for services?	Member	Does the member contract with the County for services?
City of Azusa	Yes, for fire services	City of Avalon	Yes, for police services
City of Baldwin Park	Yes, for fire services	City of La Habra Heights	Yes, for police services
City of Bell	Yes, for fire services	City of Arcadia	No
City of Glendora	Yes, for fire services	City of El Segundo	No
City of Hawthorne	Yes, for fire services	City of Montebello	No
City of Irwindale	Yes, for fire services	City of Sierra Madre	No
City of Palos Verdes Estates	Yes, for fire services	City of South Pasadena	No
City of San Fernando	Yes, for fire services	City of West Covina	No
Inglewood Unified School District	Yes, via City of Inglewood for fire services		

LA-RICS Draft Proposed Funding Plan

Draft Fee Estimates

March 2014

In order to provide fee estimates for all members that either do not contract services with the County, or contract for only one service with the county, data for non-responders to the survey under this group was extrapolated using actual data from the submitted surveys. The extrapolation consisted of deriving a multiplier coefficient for each of the data variables. The coefficient is the ratio of the total sum of the data variable (radios, for example) divided by the total population of all survey respondents. This coefficient is then multiplied by the population of each survey non-responder to estimate its respective data variable.

Those members with extrapolated estimates who did not submit a survey are identified in the funding plan with outlined boxes for all input data. Some members that submitted a survey did not include all requested data. For example, a member reported one piece of data (e.g., average radios), but did not report another requested piece (e.g., total radios). Similarly, a member reported the number of high speed data units, but did not report the average daily data usage. To bridge these data gaps, the coefficient method described above is used to complete the data input. For these instances, members are identified in the funding plan with outlined boxes for only those input data not received.

The funding plan comprises fees that are calculated by LA-RICS member for both the LMR and LTE systems. Within each system, the various costs making up the total fee estimate are provided. Within LMR, the fee estimate reflects three costs (operation and maintenance (O&M), capital replacement, and administrative). Within LTE, the fee estimate reflects five costs (annualized grant hard match, annualized grant in-kind match, O&M, capital replacement, and administrative). The following annual cost estimates for LMR and LTE are assumed for calculating annual member fees:

System	Cost Component	Annual Cost	Total
LMR	O&M	\$3,726,600	\$9,824,800
	Capital Replacement	\$4,806,800	
	Administrative	\$1,291,400	
LTE	Hard Match	\$1,875,000	\$14,964,900
	In-Kind Match	\$1,871,900	
	O&M	\$6,473,900	
	Capital Replacement	\$3,452,700	
	Administrative	\$1,291,400	

These costs represent the baseline scenario for the LA-RICS system. Upon request of the Authority, additional scenarios for LTE were generated to provide cost options. A total of 12 LTE scenarios were developed inclusive of the baseline: