## MEMORANDUM

DATE<br>September 14, 2017<br>то Measure A Steering Committee<br>from Los Angeles County Regional Park and Open Space District (RPOSD)<br>SUBJECT Use of Measure A Funds - Bonding

Measure A will potentially generate $\$ 96$ million per year to fund parks, open space, beaches, rivers protection, and water conservation projects throughout Los Angeles County. This memorandum explores how bonding and other financing mechanisms could be employed to bring forward annual revenue flows to pay for capital improvements up front.

Because bonding is the most commonly used and least costly means to bring funding forward, the majority of this memo covers the bonding process. Table 1 at the end of this memo provides examples illustrating the amount of annual debt service and the proceeds from bond issuance for each study area.

The memo describes relevant provisions of Measure A and how it allocates funding based in part on information from the 2016 Los Angeles Countywide Comprehensive Parks and Recreation Needs Assessment Final Report (PNA). This memo assumes the reader's familiarity with the PNA.

## 1. Measure A Background

### 1.1 Special Tax Revenue

Approved by Los Angeles County voters on November 8, 2016, Measure A established a special tax on improved parcels at a rate of $\$ 0.015$ per square foot of structural improvements, excluding improvements for parking. As of the 2016 Assessor Tax Roll, there were $6,453,696,929$ square feet of improvements subject to the special tax. Thus, the Measure A special tax would generate $\$ 96,805,453$.

The funds generated by the tax will first become available for expenditures beginning with the fiscal year starting July 1, 2018. The first collection of the tax will be based on the 2017 Assessor Tax Roll, so the actual amount collected may be higher than $\$ 96.8$ million estimated for this memo.

The measure allows, but does not require, the Board of Supervisors to adjust the rate of the tax by an amount up to the cumulative increases in the consumer price index from July 1, 2017 onward. Thus, in future years, the tax revenue generated by Measure A can be expected to increase from increases in improvement square footage and potential increases in the tax rate.

### 1.2 Annual Expenditures

### 1.2.1 Major Functional Groups

The funds generated by the special tax will be administered by the Regional Parks and Open Space District (RPOSD) to fund eligible project types described in the measure. The measure divides annual revenue into three major functional groups with specific percentage allocations: ${ }^{1}$

+ Projects and Programs [divided into five categories, see Section1.2.2], 77.8 percent
+ Maintenance and Service, 15 percent
+ Administration and Planning, 7.2 percent
The measure does not identify debt service as an eligible use of funds for the second and third functional groups. Therefore, this memorandum restricts its review and analysis to the first functional group, projects and programs.


### 1.2.2 Expenditure Schedule for Projects and Programs

For the functional group Projects and Programs, the measure establishes five allocation categories. The data in parentheses indicate the percentage of total special tax revenue allocated to each category ${ }^{2}$ :

+ Category 1: Community Based Park Investment Program (35 percent)
+ Category 2: Safe Parks, Healthy Communities, Urban Greening Program (13 percent)
+ Category 3: Protecting Open Spaces, Beaches, Watershed Program (13 percent)
+ Category 4: Regional Recreational Facilities, Trail and Accessibility Program (13 percent)
+ Category 5: Youth and Veteran Job Training Placement Opportunities (3.8 percent)
For Categories 1 and 2, the revenues are intended to be distributed to each study area based on the per capita and structural improvement formula. Category 1 includes all study areas; Category 2 includes only those study areas identified as high need and very high need in the 2016 Countywide Parks Needs Assessment.

For Category 3, Measure A requires RPOSD to prioritize the funding allocation to projects with the greatest regional benefit and projects addressing the greatest regional need. For Category 4, Measure A requires RPOSD to prioritize projects that provide linkages among various regional recreational assets. For Category 5, RPOSD will allocate funding to organizations, with a priority on areas of high need and very high need.

The measure ensures an annual allocation of revenue to each study area for Categories 1 and 2, and this annual allocation could be used to secure bond financing. RPOSD expects funding in the remaining categories to be allocated through an annual competitive grant process. Nevertheless, Measure A clearly allows RPOSD to use funding from all five categories for debt service ${ }^{3}$. This memorandum focuses on the use of bonding for Categories 1 and 2 , but the issues discussed herein would be applicable if RPOSD were to issue debt for projects in Categories 3, 4, or 5 .

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### 1.2.3 Per Capita and Structural Improvement Formula

Measure A establishes a per capita and structural improvement formula to determine the percentage of revenues allocated to each study area. Each study area's share of revenue is based on the study area's percentage share of the total population among study areas and its percentage share of total square footage of improvements (excluding parking) among study areas. The formula is weighted such that the allocation percentage equals two thirds the percentage share of population plus one third the percentage share of square footage of improvements ([Per Capita + Per Capita + Structural Improvements]/3).

Table 1 provides preliminary estimates of the ratios derived from the per capita and structural improvement formula. These estimates are intended only for the purpose of illustrating how bonding could be applied to Measure A funds. The actual ratios that RPOSD will use to allocate Measure A funds will be determined by RPOSD at a later a date.

For allocation Category 1, all study areas are included, so the total population is the total countywide population and the total structural improvements is the total countywide square footage of improvements. For allocation Category 2, only high and very high need study areas are included, so the total population is the total population across the high and very high need study areas and the total improvements is the total square footage of improvements across the high and very high need study areas.

Study Area 82, which consists of the area within the City of Alhambra provides an example. The study area's population, 84,903 , is 0.84 percent of the countywide population, $10,069,287$. The total non-parking improvements in the study area, $45,795,666$ square feet, is 0.73 percent of the total countywide non-parking improvements, $6,305,293,386$ square feet. Thus, study area 82 would receive $(0.84+0.84+0.73) \div 3$, or 0.80 percent, of the Category 1 allocation.

For Category 2 , the study area's population is 1.60 percent of the total population across highneed and very high-need study areas, $5,294,919$. The total non-parking improvements in the study area is 1.69 percent of the total non-parking improvements across the high-need and very high-need study areas, $2,713,174,198$ square feet. Thus, study area 82 would receive ( 1.60 + $1.60+1.69$ ) / 3 , or 1.63 percent, of the Category 2 allocation.

## 2. Financing Mechanisms Generally

There are two ways that local governments can pay for projects and programs: pay-as-you-go funding and borrowing. An example of each is provided below.

A local government whose highest parks and recreation priority is repairing and upgrading existing facilities could use its annual Measure A Category 1 allocation to fund the repairs and upgrades. Depending on the extent of improvements, pay-as-you-go funding could take several years. However, all the revenue would go toward improvements, and none would go to interest payments. The local government also could supplement the Measure A revenue allocation with its general fund and with grants from other governmental agencies and nongovernmental organizations.

A local government whose highest parks and recreation priority is the construction of a new community center and public swimming pool would likely find that it is not practical to spread the construction out of the many years it would take to pay the cost with the annual Measure A allocation alone. The local government would most likely need to rely on borrowed money to pay for the improvement. The community would benefit early on from the new facility, but most, if not all, of the study area's Measure

A special tax allocation would be used for debt service. In addition, a third of the Measure A revenue would be used for interest payments and other financing costs.

### 2.1 Bonding

Issuing bonds is the most common way governmental agencies borrow money to finance expensive projects.

Borrowing, or debt financing, is accomplished by issuing bonds to pay for specific projects or services. A bond is a debt instrument bearing a stated rate of interest that matures on a certain date, at which time a fixed sum of money plus interest is payable to the bondholder. Bond issuance is often structured with a series of bonds, in which case a different bond matures in each year over 20- to 30-year period.

Municipal bonds are very attractive to certain investors because they carry a lower risk of default than similar investment-grade corporate bonds and because the interest earned by the investor is exempt from federal and state taxes. Consequently, investors will accept a lower interest rate on tax-exempt issues, which reflects their reduced tax burden. This lower rate reduces borrowing costs for state and local governments by approximately 25 percent.

Municipal securities consist of both short-term issues (often called notes, which typically mature in one year or less) and long-term issues (commonly known as bonds, which mature in more than one year). Short-term notes are used by an issuer to raise money for a variety of reasons, but are not applicable to the present discussion of forwarding Measure A special tax revenues.

In the case of Measure A, Los Angeles County would most likely issues on behalf of RPOSD, as with previous RPOSD bonds. The office of the Los Angeles County Treasure and Tax Collector (TTC) oversees bond sales for the County, and was consulted in the preparation of this memo.

### 2.1.1 Key Terms

## Principal

The amount that the municipality is borrowing up front, also called the "par".

## Maturity

Maturity is the date when the principal will be paid back. There are two kinds of bond maturities - term bonds mature on a single date, while serial bonds have maturities that are staggered over single years. Serial bonds are less risky for investors because they quickly begin getting principal back, and it's cheaper for issuers because they only pay interest on the principal they have left. Usually, the final maturity is between 21 and 26 years after the bond issue.

## Coupon

The coupon is the amount of interest paid to bondholders on an annual or semiannual basis. The coupon can be fixed or variable.

## Callability

If a bond has a call provision, it may be "called" or paid off earlier than the maturity date, at a slight premium to par.

## Revenue Bond

Revenue bonds are paid back using revenue made from the project. For example, UC school bonds are paid back using tuition, multi-family housing bonds can be paid back using rent, and toll roads can be paid back using tolls. Bonding under Measure A would be revenue bonds because revenue from the special tax would be pledged for bond repayment.

## Serial Bond

A series of bonds which mature in consecutive years or other intervals and are not subject to sinking fund provisions.

## Term Bond

Bonds that come due in a single maturity. The issuer usually must make payments into a sinking fund to provide for redemption of the bonds before maturity or for payment at maturity.

### 2.1.2 Key People

There are several important roles and responsibilities in municipal bonding. For present purposes, it is likely that County staff would fill these roles, as indicated below.

## Municipal Issuer

The agency raising money through bonds. For Measure A, the County of Los Angeles would be the municipal issuer. Measure A authorizes the RPOSD to issue bonds. It may appear to be a matter of semantics, the RPOSD would be a distinct and separate entity when issuing bonds, although the same Measure A special tax would be used to secure repayment of bonds whether issued by the County or by the RPOSD. Because it would take time for the RPOSD to establish a credit rating and be certified, it is likely that at least the initial bond issuance will be through the County of Los Angeles.

## Municipal Advisor

Acts in the interest of and advises the municipal issuer, and serves as the liaison between the municipality, underwriters, and credit rating agency. Utilization of a municipal advisor became more common following the Dodd-Frank Wall Street Reform and Consumer Protection Act which requires issuers to appoint a municipal advisor or file to opt out.

## Bond Counsel

Legal professionals who verify the legal details and ensure the issuance complies with all applicable laws and regulations. They also draft the core documentation. The County Counsel of Los Angeles County may provide some early assistance in the bonding process, the County would retain outside counsel to serve as the official bond counsel for bond issuance.

## Underwriter

Publicly administers the issuance and distributes the bonds, and serve as the bridge between the buy and sell side of the bonds. The underwriter will decide the price, return, and time span of the bonds.

## Brokers

Brokers are the step between the underwriter and the bond holders. The distribution and sale of bonds relies on a legacy system that requires tremendous overhead, and so most sales are made only to high net worth individuals and organizations that will buy large quantities of bonds.

## Bond Holder

Can purchase bonds at time of issuance or from other bond holders at some time after issuance. The bond holder receives payments over time, composed of interest on the invested principal (or loan) and a return of the principal itself.

### 2.2 Certificates of Participation

Certificates of participation (COPs) can be used to finance capital projects. COPs are sold to investors in much the same was as tax-exempt municipal bonds, and the interest earned by investors is generally exempt from taxation. COPs are typically used when local governments want to avoid a public vote, as is required for the issuance of general obligation bonds.

Because Measure A authorizes RPOSD to issue bonds and to use the special tax revenue to repay the bonds, no further public vote is necessary. Thus, COPs would have no benefit over straight-forward municipal bonding for Measure A projects.

### 2.3 Short-Term Notes and Loans

Short-term notes, commercial paper, and loans are financing mechanisms that local governments use to bridge the gap between the immediate opportunity for a desired project and the length of time needed to secure long-term bond financing. Short-term financing is more expensive, i.e., a larger percentage of the special tax revenue will be spent on interest and financing costs, than bonding. It seems unlikely that RPOSD will need to use short-term financing for projects funded under Measure A.

One exception may be for land acquisition for new park development. Oftentimes, opportunities to purchase land at affordable prices are time-constrained decisions. This is especially true in many Los Angeles County communities that are mostly built out. RPOSD may want to explore opportunities for short-term financing as part of a strategy to facilitate land acquisition for new parks.

## 3. Measure A Bonding - Key Issues

### 3.1 Identification of Projects

Projects to be funded with bonds will need to be specified prior to the issuance of bonds. Not every municipally-issued bond is exempt from taxes. As part of the issuance process, the bond counsel will certify that the projects being funded qualify the interest paid on the bonds to be exempt from taxes.

This does not mean that projects cannot change. However, RPOSD will need to have a policy on the level of project description necessary for proposed projects to be included in a bond issuance.

### 3.2 Timely Completion of Projects

RPOSD will need to establish a policy on the readiness of proposed projects to proceed to construction as a prerequisite for inclusion in a bond issuance because projects will need to be completed within three years to comply with requirements.

A key advantage for investors in municipal bonds is that the interest payments they receive are exempt from taxes. The interest rate paid on these bonds will be lower than the interest that the County may earn when it invests the bond proceeds until they are actually spent. The difference between the interests the County earns on the short-term investment of the bond proceeds and the interests the County pays on the bonds is known as arbitrage. For the interests paid on bonds to be exempt from taxes, federal regulations limit arbitrage. While the Los Angeles County Treasurer and Tax Collector (TTC) will bear some responsibility for complying with arbitrage requirements for invested bond proceeds, a key factor in compliance will be completing projects within three years.

### 3.3 Changing Allocation Ratios

Study areas that experience a decline in their percentage share of population and/or their percentage share of total non-parking improvement square footage could see a reduction in their percentage share of Category 1 and 2 funds. Hopefully, the annual increase in countywide improvement square footage will outpace the possible declines in study area percentages so that no study area will experience an absolute decrease in the annual dollar amount of allocations. However, it is theoretically possible that actual dollar allocations could decrease from year to year in some study areas, affecting their individual ability to pay their share of the debt service.

The overall Measure A special tax revenue will be available for RPOSD to make debt service payments, so this should not be an issue with bond issuance. The overall special tax revenue would only decline if there were a decrease in the total improved square footage across Los Angeles County.

However, it is possible that the allocation to a study area could decline below the level of debt service attributable to that study area. RPOSD may want to consider a policy that limits the percentage of an individual study area's allocation that can be used for debt service in order to avoid problems should that allocation decline.

## 4. Examples of Potential Bonding Proceeds

Table 1 provides two examples to illustrate the amount of funding that could be brought forward through bonding against Measure A special tax revenue for allocation Categories 1 and 2. The first example generates the minimum bond issuance recommended by the TTC, $\$ 100$ million. The second illustrates the bonding proceeds if the total anticipated Category 1 and 2 revenues were used for debt service.

The data in Table 1 assume that every study area participates in the bond issuance. In practice, not every study area will participate, and some study areas may only use a portion of their Category 1 and 2 allocation for debt service, reserving the remainder for pay-as-you-go projects. In order to issue the minimum $\$ 100$ million in bonds, RPOSD will need a sufficient number of study areas with more than the minimum amount shown in Table 1 or a combination of such study areas and projects under Categories 3,4 , and 5 .

Agencies wishing to participate in the bond issuance can expect to receive between 14.2 and 15.9 times their annual allocation, depending on the specifics of the bonding amount and maturity date (refer to Sections 4.1 and 4.2 for additional information). For example, a city with an annual allocation of $\$ 100,000$ could expect to receive between $\$ 1.42$ million and $\$ 1.59$ million if they participated in the bond issuance. RPOSD would then be responsible for making annual payments on these funds until the bond reaches maturity ( 20 to 25 years, depending on the specifics of the bond).

Finally, it is important to note that even for study areas that use their entire Category 1 and 2 revenue stream for bonding, additional revenue may be available for pay-as-you-go projects in subsequent years if the countywide total improvement square footage increases and, hence, the Measure A special tax revenue increases.

Table 2 provides bonding samples provided by the TTC. The data in Table 1 are based on the data in Table 2. The maturity for the bonds will be based on the actual projects that are proposed and may be as long as 30 years. The data provided by TTC and the two examples use 20 - and 25 -year maturities. The data provided by TTC use a base case reflecting current interest rates and cases with interest rates increased by 100 basis points to reflect what market conditions might be when bonds are issued in the future. The two examples are based on the current interest rates plus 100 basis points.

### 4.1 Minimum Bonding Amount

The TTC has indicated that the most efficient use of bonding is a minimum of $\$ 100$ million in proceeds. A $\$ 100,761,002.85$ serial bond issuance with maturity over 20 years would generate $\$ 100$ million in proceeds. The largest annual debt service payment would be $\$ 7,040,625.00$, out of the total Category 1 and 2 allocation of $\$ 45,537,286$. The proceeds equal 14.2 times the maximum annual debt service, and the debt service represents 15.5 percent of the annual Category 1 and 2 allocation.

Table 1 provides the estimated largest annual debt service and the estimated bond proceeds for each study area, based on $\$ 100$ million bond proceeds, a 20 -year maturity, and true interest cost of 3.65 percent.

### 4.2 Maximum Bonding Amount

The Category 1 and 2 allocation preliminarily estimated for the first year of collection of the Measure A special tax is $\$ 45,537,286$. The second example in Table 2 estimates the bond proceeds if the entire Category 1 and 2 allocation were pledged to repay the debt.

A $\$ 729,781,236.17$ serial bond issuance with maturity over 25 years would generate $\$ 726,180,000.00$ in bond proceeds. The largest annual debt service would be $\$ 45,537,286.00$. The proceeds equal 15.9 times the maximum annual debt service, and the debt service equals 100 percent of the annual Category 1 and 2 allocation. For future planning, RPOSD may use a multiplier lower than 15.9 to limit the maximum amount of Category 1 and 2 revenue that can be used for debt services, as discussed in Section 3.3.

Table 1 provides the estimated largest annual debt service and the estimated bond proceeds for each study areas based on $\$ 726$ million bond proceeds, 25 -year maturity, and true interest cost of 3.93 percent.

Table 1: Category 1 and 2 Allocation Ratios and Example Bond Proceeds and Debt Service, By Study Area

| Study Area Name | Need Category | Category 1 Allocation Ratio (Estimate) | Category 2 Allocation Ratio (Estimate) | Categories $1 \& 2$ <br> Allocation (Estimate) | \$100M \| 20 y <br> Maximum <br> Annual Debt <br> Service | \| 3.65\% <br> Bond Proceeds | \$726 M \| 25 y <br> Maximum <br> Annual Debt <br> Service | $\text { \| } 3.93 \%$ <br> Bond Proceeds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Agoura Hills | Very Low | 0.2\% | 0.0\% | 81,293 | 12,569 | 178,519 | 81,293 | 1,296,371 |
| Alhambra | High | 0.8\% | 1.6\% | 468,266 | 72,400 | 1,028,313 | 468,266 | 7,467,401 |
| Arcadia | Low | 0.6\% | 0.0\% | 214,229 | 33,122 | 470,447 | 214,229 | 3,416,295 |
| Artesia | High | 0.2\% | 0.3\% | 91,126 | 14,089 | 200,113 | 91,126 | 1,453,184 |
| Avalon / UI Channel Islands North | Very Low | 0.0\% | 0.0\% | 14,549 | 2,249 | 31,950 | 14,549 | 232,016 |
| Azusa | Moderate | 0.4\% | 0.0\% | 148,172 | 22,909 | 325,386 | 148,172 | 2,362,890 |
| Baldwin Park | Very High | 0.7\% | 1.3\% | 382,706 | 59,171 | 840,423 | 382,706 | 6,102,982 |
| Bell | Very High | 0.3\% | 0.6\% | 181,022 | 27,988 | 397,524 | 181,022 | 2,886,741 |
| Bell Gardens | Very High | 0.3\% | 0.7\% | 200,165 | 30,948 | 439,562 | 200,165 | 3,192,010 |
| Bellflower | Very High | 0.7\% | 1.4\% | 392,675 | 60,712 | 862,314 | 392,675 | 6,261,955 |
| Beverly Hills | Moderate | 0.5\% | 0.0\% | 170,411 | 26,348 | 374,222 | 170,411 | 2,717,527 |
| Bradbury / Ul Bradbury | Very Low | 0.0\% | 0.0\% | 5,756 | 890 | 12,640 | 5,756 | 91,791 |
| Burbank | Low | 1.2\% | 0.0\% | 388,437 | 60,057 | 853,009 | 388,437 | 6,194,379 |
| Calabasas | Very Low | 0.3\% | 0.0\% | 96,403 | 14,905 | 211,702 | 96,403 | 1,537,335 |
| Carson | High | 1.1\% | 2.2\% | 627,689 | 97,048 | 1,378,407 | 627,689 | 10,009,713 |
| Cerritos / UI Cerritos | Low | 0.6\% | 0.0\% | 195,664 | 30,252 | 429,679 | 195,664 | 3,120,246 |
| Claremont / UI Claremont | Low | 0.4\% | 0.0\% | 135,090 | 20,887 | 296,657 | 135,090 | 2,154,265 |
| Commerce | Moderate | 0.4\% | 0.0\% | 117,263 | 18,130 | 257,510 | 117,263 | 1,869,986 |
| Compton | High | 0.9\% | 1.8\% | 526,882 | 81,463 | 1,157,035 | 526,882 | 8,402,158 |
| Covina | Moderate | 0.5\% | 0.0\% | 162,057 | 25,056 | 355,879 | 162,057 | 2,584,320 |
| Cudahy | Very High | 0.2\% | 0.4\% | 112,336 | 17,369 | 246,690 | 112,336 | 1,791,412 |
| Culver City | Moderate | 0.5\% | 0.0\% | 154,370 | 23,868 | 338,998 | 154,370 | 2,461,733 |
| Diamond Bar | Low | 0.6\% | 0.0\% | 193,763 | 29,958 | 425,504 | 193,763 | 3,089,925 |
| Downey | High | 1.1\% | 2.2\% | 625,862 | 96,766 | 1,374,395 | 625,862 | 9,980,580 |
| Duarte | Low | 0.2\% | 0.0\% | 70,073 | 10,834 | 153,880 | 70,073 | 1,117,446 |
| El Monte | Very High | 1.0\% | 2.0\% | 582,303 | 90,031 | 1,278,739 | 582,303 | 9,285,947 |

Table 1 continued

| Study Area Name | Need Category | Category 1 Allocation Ratio (Estimate) | Category 2 Allocation Ratio (Estimate) | Categories $1 \& 2$ <br> Allocation (Estimate) | \$100M \| 20 years | 3.65\% |  | \$ $726 \mathrm{M} \mid 25$ years \| $3.93 \%$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Maximum Annual Debt Service | Bond Proceeds | Maximum Annual Debt Service | Bond Proceeds |
| El Segundo | Low | 0.3\% | 0.0\% | 101,779 | 15,736 | 223,506 | 101,779 | 1,623,057 |
| Gardena | High | 0.6\% | 1.2\% | 354,993 | 54,886 | 779,566 | 354,993 | 5,661,054 |
| Glendale - Northside | Low | 1.1\% | 0.0\% | 375,954 | 58,127 | 825,595 | 375,954 | 5,995,306 |
| Glendale - Southside | Very High | 0.8\% | 1.7\% | 486,200 | 75,173 | 1,067,697 | 486,200 | 7,753,402 |
| Glendora / UI Glendora | Low | 0.5\% | 0.0\% | 175,926 | 27,200 | 386,335 | 175,926 | 2,805,484 |
| Hawaiian Gardens | Moderate | 0.1\% | 0.0\% | 39,960 | 6,178 | 87,752 | 39,960 | 637,237 |
| Hawthorne | Very High | 0.8\% | 1.6\% | 471,857 | 72,955 | 1,036,198 | 471,857 | 7,524,666 |
| Hermosa Beach | Moderate | 0.2\% | 0.0\% | 70,271 | 10,865 | 154,316 | 70,271 | 1,120,612 |
| Hidden Hills | Not Participating | 0.0\% | 0.0\% | 9,976 | 1,542 | 21,907 | 9,976 | 159,087 |
| Huntington Park | Very High | 0.5\% | 1.0\% | 294,474 | 45,529 | 646,666 | 294,474 | 4,695,962 |
| Industry | Very Low | 0.4\% | 0.0\% | 127,836 | 19,765 | 280,727 | 127,836 | 2,038,586 |
| Inglewood | Very High | 1.0\% | 2.1\% | 599,346 | 92,666 | 1,316,166 | 599,346 | 9,557,736 |
| Irwindale | Very Low | 0.1\% | 0.0\% | 27,752 | 4,291 | 60,943 | 27,752 | 442,560 |
| LA Arleta - Pacoima | High | 0.9\% | 1.8\% | 510,950 | 78,999 | 1,122,048 | 510,950 | 8,148,086 |
| LA Baldwin Hills - Leimert - Hyde Park | High | 0.8\% | 1.6\% | 454,494 | 70,270 | 998,070 | 454,494 | 7,247,788 |
| LA Bel Air - Beverly Crest/ UN Hollywood Hills | Very Low | 0.3\% | 0.0\% | 102,404 | 15,833 | 224,880 | 102,404 | 1,633,036 |
| LA Boyle Heights | Very High | 0.8\% | 1.6\% | 451,021 | 69,733 | 990,444 | 451,021 | 7,192,408 |
| LA Brentwood - Paciific Palisades | Moderate | 0.7\% | 0.0\% | 248,374 | 38,402 | 545,430 | 248,374 | 3,960,806 |
| LA Canada Flintridge | Very Low | 0.2\% | 0.0\% | 81,304 | 12,571 | 178,543 | 81,304 | 1,296,543 |
| LA Canoga Park - Winnetka | Very High | 0.9\% | 1.7\% | 494,977 | 76,529 | 1,086,970 | 494,977 | 7,893,360 |
| LA Central City | Very High | 0.8\% | 1.8\% | 498,927 | 77,140 | 1,095,644 | 498,927 | 7,956,351 |
| LA Central City North | High | 0.3\% | 0.6\% | 171,080 | 26,451 | 375,691 | 171,080 | 2,728,194 |
| LA Chatsworth - Porter Ranch / Ul Chatsworth | Low | 1.2\% | 0.0\% | 389,340 | 60,197 | 854,992 | 389,340 | 6,208,781 |
| LA Encino - Tarzana | Moderate | 0.9\% | 0.0\% | 287,551 | 44,459 | 631,463 | 287,551 | 4,585,557 |
| LA Exposition Park - University Park - Vermont Sq | Very High | 1.5\% | 3.0\% | 858,224 | 132,692 | 1,884,662 | 858,224 | 13,686,036 |
| LA Granada Hills - Knollwood | Moderate | 0.6\% | 0.0\% | 203,993 | 31,540 | 447,970 | 203,993 | 3,253,070 |
| LA Harbor Gateway | High | 0.4\% | 0.9\% | 261,654 | 40,455 | 574,593 | 261,654 | 4,172,578 |


| Study Area Name | Need Category | Category 1 Allocation Ratio (Estimate) | $\begin{aligned} & \text { Category } 2 \\ & \text { Allocation Ratio } \\ & \text { (Estimate) } \end{aligned}$ | Categories 1 \& 2 Allocation (Estimate) | \$100M \| 20 ye <br> Maximum <br> Annual Debt Service | $\text { \| } 3.65 \%$ <br> Bond Proceeds | \$726 M \| 25 y <br> Maximum <br> Annual Debt <br> Service | $\text { \| } 3.93 \%$ <br> Bond Proceeds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LA Hollywood - North | Moderate | 1.1\% | 0.0\% | 361,479 | 55,889 | 793,808 | 361,479 | 5,764,478 |
| LA Hollywood - South | Very High | 1.0\% | 2.1\% | 596,885 | 92,286 | 1,310,760 | 596,885 | 9,518,479 |
| LA Mission Hills - Panorama City - North Hills | Very High | 1.3\% | 2.6\% | 755,630 | 116,830 | 1,659,366 | 755,630 | 12,049,981 |
| LA North Hollywood - Valley Village | Very High | 1.3\% | 2.7\% | 781,118 | 120,770 | 1,715,336 | 781,118 | 12,456,430 |
| LA Northeast Los Angeles - North | Moderate | 1.3\% | 0.0\% | 447,806 | 69,236 | 983,384 | 447,806 | 7,141,138 |
| LA Northeast Los Angeles - South | Moderate | 0.8\% | 0.0\% | 279,030 | 43,141 | 612,750 | 279,030 | 4,449,670 |
| LA Northridge | High | 0.7\% | 1.4\% | 401,770 | 62,119 | 882,289 | 401,770 | 6,407,003 |
| LA Palms - Mar Vista - Del Rey | Very High | 1.1\% | 2.2\% | 637,179 | 98,516 | 1,399,247 | 637,179 | 10,161,051 |
| LA Reseda - West Van Nuys | High | 1.0\% | 2.1\% | 610,699 | 94,422 | 1,341,096 | 610,699 | 9,738,768 |
| LA San Pedro / Port of Los Angeles / UI La Rambla | Moderate | 0.8\% | 0.0\% | 259,770 | 40,164 | 570,455 | 259,770 | 4,142,531 |
| LA Sherman Oaks - Studio City / UI Universal City | Low | 1.0\% | 0.0\% | 318,468 | 49,239 | 699,357 | 318,468 | 5,078,588 |
| LA Silver Lake - Echo Park - Elysian Valley | Moderate | 0.7\% | 0.0\% | 220,766 | 34,133 | 484,803 | 220,766 | 3,520,543 |
| LA South Los Angeles | Very High | 0.9\% | 1.9\% | 540,135 | 83,512 | 1,186,138 | 540,135 | 8,613,500 |
| LA Southeast Los Angeles | Very High | 1.3\% | 2.5\% | 721,137 | 111,497 | 1,583,620 | 721,137 | 11,499,930 |
| LA Southeast Los Angeles - North | Very High | 1.2\% | 2.4\% | 692,453 | 107,062 | 1,520,629 | 692,453 | 11,042,506 |
| LA Sun Valley - La Tuna Canyon | High | 0.9\% | 1.8\% | 514,252 | 79,510 | 1,129,298 | 514,252 | 8,200,740 |
| LA Sunland-Tujunga-Lake View Terr-Shadow Hills | Low | 0.6\% | 0.0\% | 198,859 | 30,746 | 436,695 | 198,859 | 3,171,195 |
| LA Sylmar | Moderate | 0.7\% | 0.0\% | 244,260 | 37,766 | 536,396 | 244,260 | 3,895,201 |
| LA Valley Glen - North Sherman Oaks | High | 0.8\% | 1.6\% | 456,091 | 70,517 | 1,001,577 | 456,091 | 7,273,249 |
| LA Van Nuys - North Sherman Oaks | Very High | 0.8\% | 1.6\% | 463,426 | 71,651 | 1,017,684 | 463,426 | 7,390,220 |
| LA Venice | Very High | 0.4\% | 0.8\% | 230,271 | 35,603 | 505,677 | 230,271 | 3,672,122 |
| LA West Adams | Very High | 0.9\% | 1.7\% | 504,018 | 77,927 | 1,106,825 | 504,018 | 8,037,541 |
| LA West Hills - Woodland Hills / UI Canoga Park | Moderate | 1.1\% | 0.0\% | 355,340 | 54,940 | 780,329 | 355,340 | 5,666,590 |
| LA West Los Angeles | High | 1.0\% | 2.0\% | 572,906 | 88,578 | 1,258,103 | 572,906 | 9,136,095 |
| LA Westchester - Playa del Rey / LAX | High | 0.7\% | 1.4\% | 408,550 | 63,167 | 897,177 | 408,550 | 6,515,119 |
| LA Westlake | Very High | 1.0\% | 2.0\% | 585,058 | 90,457 | 1,284,788 | 585,058 | 9,329,876 |
| LA Westwood / UI Sawtelle VA Center | Very High | 0.6\% | 1.1\% | 327,194 | 50,588 | 718,519 | 327,194 | 5,217,739 |


| Study Area Name | Need Category | $\begin{aligned} & \text { Category } 1 \\ & \text { Allocation Ratio } \\ & \text { (Estimate) } \end{aligned}$ | $\begin{aligned} & \text { Category } 2 \\ & \text { Allocation Ratio } \\ & \text { (Estimate) } \end{aligned}$ | Categories 1 \& 2 Allocation (Estimate) | \$100M \| 20 ye <br> Maximum <br> Annual Debt <br> Service | $\begin{aligned} & \mid 3.65 \% \\ & \text { Bond } \\ & \text { Proceeds } \end{aligned}$ | $\$ 726 \mathrm{M} \mid 25$ years $\mid 3.93 \%$  <br> Maximum Bond <br> Annual Debt Proceeds <br> Service |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LA Wilmington - Harbor City / LA Port of LA | Moderate | 0.7\% | 0.0\% | 234,339 | 36,232 | 514,609 | 234,339 | 3,736,989 |
| LA Wilshire - Koreatown | Very High | 1.5\% | 3.1\% | 889,752 | 137,567 | 1,953,898 | 889,752 | 14,188,817 |
| LA Wilshire - West | High | 1.4\% | 2.9\% | 812,826 | 125,673 | 1,784,967 | 812,826 | 12,962,075 |
| La Habra Heights | Very Low | 0.1\% | 0.0\% | 21,799 | 3,370 | 47,872 | 21,799 | 347,635 |
| La Mirada | Moderate | 0.5\% | 0.0\% | 175,867 | 27,191 | 386,205 | 175,867 | 2,804,545 |
| La Puente | High | 0.3\% | 0.7\% | 196,298 | 30,350 | 431,070 | 196,298 | 3,130,345 |
| La Verne / UI La Verne/ Ul Claremont | Very Low | 0.4\% | 0.0\% | 118,117 | 18,262 | 259,385 | 118,117 | 1,883,598 |
| Lakewood / UI Lakewood | Low | 0.8\% | 0.0\% | 252,697 | 39,070 | 554,922 | 252,697 | 4,029,736 |
| Lancaster - Eastside | Moderate | 0.6\% | 0.0\% | 206,468 | 31,923 | 453,405 | 206,468 | 3,292,534 |
| Lancaster - Westside | Moderate | 1.0\% | 0.0\% | 320,581 | 49,566 | 703,997 | 320,581 | 5,112,289 |
| Lawndale | Very High | 0.3\% | 0.6\% | 164,810 | 25,482 | 361,923 | 164,810 | 2,628,214 |
| Lomita | Moderate | 0.2\% | 0.0\% | 64,521 | 9,976 | 141,688 | 64,521 | 1,028,911 |
| Long Beach Central | Low | 0.4\% | 0.0\% | 118,075 | 18,256 | 259,294 | 118,075 | 1,882,940 |
| Long Beach East / UI Long Beach | Low | 0.8\% | 0.0\% | 262,941 | 40,654 | 577,420 | 262,941 | 4,193,106 |
| Long Beach North | High | 0.8\% | 1.6\% | 456,476 | 70,577 | 1,002,422 | 456,476 | 7,279,389 |
| Long Beach South | High | 1.8\% | 3.6\% | 1,025,154 | 158,501 | 2,251,240 | 1,025,154 | 16,348,055 |
| Long Beach West | Very High | 0.7\% | 1.4\% | 401,297 | 62,045 | 881,249 | 401,297 | 6,399,452 |
| Lynwood/ Ul Lynwood | High | 0.6\% | 1.2\% | 342,470 | 52,950 | 752,064 | 342,470 | 5,461,339 |
| Malibu | Very Low | 0.2\% | 0.0\% | 57,909 | 8,954 | 127,169 | 57,909 | 923,477 |
| Manhattan Beach | Low | 0.4\% | 0.0\% | 140,005 | 21,647 | 307,452 | 140,005 | 2,232,653 |
| Maywood | Very High | 0.2\% | 0.4\% | 126,652 | 19,582 | 278,129 | 126,652 | 2,019,718 |
| Monrovia | Low | 0.4\% | 0.0\% | 126,866 | 19,615 | 278,599 | 126,866 | 2,023,129 |
| Montebello | Moderate | 0.6\% | 0.0\% | 207,141 | 32,027 | 454,882 | 207,141 | 3,303,264 |
| Monterey Park | Moderate | 0.6\% | 0.0\% | 199,616 | 30,863 | 438,357 | 199,616 | 3,183,261 |
| Norwalk | High | 0.9\% | 1.9\% | 535,264 | 82,758 | 1,175,441 | 535,264 | 8,535,818 |
| Palmdale - Eastside / UI South Antelope Valley | Low | 0.9\% | 0.0\% | 300,766 | 46,502 | 660,484 | 300,766 | 4,796,302 |
| Palmdale - Westside | Low | 0.6\% | 0.0\% | 210,061 | 32,478 | 461,294 | 210,061 | 3,349,822 |


| Study Area Name | Need Category | Category 1 Allocation Ratio (Estimate) | Category 2 Allocation Ratio (Estimate) | Categories 1 \& 2 Allocation (Estimate) | \$100M \| 20 y <br> Maximum <br> Annual Debt Service | $\begin{aligned} & \mid 3.65 \% \\ & \text { Bond } \\ & \text { Proceeds } \end{aligned}$ | $\$ 726 \mathrm{M} \mid 25$ years $\mid 3.93 \%$  <br> Maximum Bond <br> Annual Debt Proceeds <br> Service  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Palos Verdes Estates | Very Low | 0.2\% | 0.0\% | 57,936 | 8,958 | 127,228 | 57,936 | 923,906 |
| Paramount | Very High | 0.5\% | 1.0\% | 290,336 | 44,890 | 637,579 | 290,336 | 4,629,968 |
| Pasadena - Eastside / Ul Kinneloa Mesa | Moderate | 0.6\% | 0.0\% | 207,092 | 32,019 | 454,774 | 207,092 | 3,302,477 |
| Pasadena - Westside | Moderate | 0.9\% | 0.0\% | 311,173 | 48,111 | 683,336 | 311,173 | 4,962,250 |
| Pico Rivera | Low | 0.6\% | 0.0\% | 197,192 | 30,488 | 433,035 | 197,192 | 3,144,613 |
| Pomona - Northside | Moderate | 0.8\% | 0.0\% | 263,595 | 40,755 | 578,856 | 263,595 | 4,203,533 |
| Pomona - Southside | Moderate | 0.6\% | 0.0\% | 209,468 | 32,386 | 459,993 | 209,468 | 3,340,374 |
| Rancho Palos Verdes | Very Low | 0.5\% | 0.0\% | 160,444 | 24,807 | 352,336 | 160,444 | 2,558,593 |
| Redondo Beach | Moderate | 0.7\% | 0.0\% | 241,571 | 37,350 | 530,490 | 241,571 | 3,852,313 |
| Rolling Hills | Not Participating | 0.0\% | 0.0\% | 9,148 | 1,414 | 20,089 | 9,148 | 145,886 |
| Rolling Hills Estates / UI Westfield | Very Low | 0.1\% | 0.0\% | 42,148 | 6,517 | 92,557 | 42,148 | 672,128 |
| Rosemead | Moderate | 0.5\% | 0.0\% | 161,428 | 24,959 | 354,496 | 161,428 | 2,574,276 |
| San Dimas / UI San Dimas | Very Low | 0.4\% | 0.0\% | 124,012 | 19,174 | 272,330 | 124,012 | 1,977,606 |
| San Fernando | High | 0.2\% | 0.5\% | 129,535 | 20,028 | 284,460 | 129,535 | 2,065,690 |
| San Gabriel | Moderate | 0.4\% | 0.0\% | 126,789 | 19,603 | 278,428 | 126,789 | 2,021,890 |
| San Marino | Very Low | 0.2\% | 0.0\% | 54,263 | 8,390 | 119,163 | 54,263 | 865,336 |
| Santa Clarita - North | Moderate | 1.3\% | 0.0\% | 424,878 | 65,691 | 933,034 | 424,878 | 6,775,505 |
| Santa Clarita - South | Moderate | 1.0\% | 0.0\% | 324,638 | 50,193 | 712,907 | 324,638 | 5,176,987 |
| Santa Fe Springs | Low | 0.4\% | 0.0\% | 144,969 | 22,414 | 318,352 | 144,969 | 2,311,812 |
| Santa Monica | Moderate | 1.1\% | 0.0\% | 352,177 | 54,451 | 773,381 | 352,177 | 5,616,139 |
| Sierra Madre | Very Low | 0.1\% | 0.0\% | 39,551 | 6,115 | 86,854 | 39,551 | 630,719 |
| Signal Hill | Very Low | 0.1\% | 0.0\% | 45,670 | 7,061 | 100,290 | 45,670 | 728,289 |
| South El Monte/ UI El Monte/ Ul Whittier Narrows | Low | 0.2\% | 0.0\% | 81,852 | 12,655 | 179,747 | 81,852 | 1,305,288 |
| South Gate | Very High | 0.8\% | 1.7\% | 481,402 | 74,431 | 1,057,161 | 481,402 | 7,676,889 |
| South Pasadena | Low | 0.3\% | 0.0\% | 87,950 | 13,598 | 193,139 | 87,950 | 1,402,533 |
| Temple City | High | 0.3\% | 0.7\% | 200,770 | 31,042 | 440,892 | 200,770 | 3,201,671 |
| Torrance - North | High | 0.7\% | 1.5\% | 422,858 | 65,379 | 928,597 | 422,858 | 6,743,289 |


|  |  |  |  |
| :--- | :--- | :--- | :--- | ---: | ---: | ---: | ---: |
| Study Area Name |  |  |  |


| Study Area Name | Need Category | Category 1 Allocation Ratio (Estimate) | Category 2 <br> Allocation Ratio <br> (Estimate) | Categories 1 \& 2 Allocation (Estimate) | \$100M \| 20 ye <br> Maximum <br> Annual Debt <br> Service | \| 3.65\% <br> Bond Proceeds | $\$ 726$ M \| 25 y <br> Maximum <br> Annual Debt Service | $\text { \| } 3.93 \%$ <br> Bond Proceeds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ul Marina del Rey | Moderate | 0.1\% | 0.0\% | 17,235 | 2,665 | 37,847 | 17,235 | 274,840 |
| UI Monrovia | Low | 0.1\% | 0.0\% | 47,213 | 7,300 | 103,679 | 47,213 | 752,898 |
| UI Northeast Antelope Valley | Very Low | 0.1\% | 0.0\% | 27,244 | 4,212 | 59,828 | 27,244 | 434,461 |
| Ul Northwest Antelope Valley | Low | 0.1\% | 0.0\% | 17,616 | 2,724 | 38,684 | 17,616 | 280,915 |
| UI Pellissier Village-Avocado Heights | Very Low | 0.1\% | 0.0\% | 49,032 | 7,581 | 107,675 | 49,032 | 781,912 |
| UI Quartz Hill-Lancaster | Moderate | 0.2\% | 0.0\% | 60,514 | 9,356 | 132,890 | 60,514 | 965,019 |
| UI Rowland Heights | Moderate | 0.5\% | 0.0\% | 171,043 | 26,445 | 375,612 | 171,043 | 2,727,617 |
| UI San Jose Hills | Moderate | 0.2\% | 0.0\% | 54,801 | 8,473 | 120,343 | 54,801 | 873,907 |
| UI San Pasqual/ UI East Pasadena | Very Low | 0.1\% | 0.0\% | 29,748 | 4,599 | 65,326 | 29,748 | 474,386 |
| UI Santa Monica Mountains/ Ul Triunfo Canyon | Very Low | 0.1\% | 0.0\% | 27,082 | 4,187 | 59,472 | 27,082 | 431,874 |
| UI South Whittier/ UI East La Mirada | Moderate | 0.6\% | 0.0\% | 193,305 | 29,887 | 424,499 | 193,305 | 3,082,624 |
| Ul Stevenson/Newhall Ranch | Very Low | 0.2\% | 0.0\% | 74,681 | 11,547 | 163,999 | 74,681 | 1,190,928 |
| Ul Sunrise Village-S. San Gabriel-Whittier Narrows | Low | 0.1\% | 0.0\% | 27,129 | 4,195 | 59,576 | 27,129 | 432,627 |
| UI Topanga Canyon / Topanga | Very Low | 0.1\% | 0.0\% | 26,722 | 4,132 | 58,682 | 26,722 | 426,135 |
| UIV Valinda | Moderate | 0.2\% | 0.0\% | 64,178 | 9,923 | 140,934 | 64,178 | 1,023,437 |
| UI Walnut Park | Very High | 0.1\% | 0.3\% | 74,060 | 11,451 | 162,636 | 74,060 | 1,181,027 |
| UI West Athens-Westmont | Very High | 0.3\% | 0.7\% | 200,916 | 31,064 | 441,212 | 200,916 | 3,203,996 |
| UI West Carson | High | 0.2\% | 0.4\% | 125,788 | 19,448 | 276,231 | 125,788 | 2,005,936 |
| UI West Rancho Dominguez | Very Low | 0.1\% | 0.0\% | 32,773 | 5,067 | 71,969 | 32,773 | 522,622 |
| Ul West Whittier - Los Nietos | Low | 0.2\% | 0.0\% | 74,652 | 11,542 | 163,935 | 74,652 | 1,190,466 |
| UI Willowbrook | High | 0.4\% | 0.7\% | 206,093 | 31,865 | 452,581 | 206,093 | 3,286,553 |
| Vernon / UIV Vernon | Very Low | 0.3\% | 0.0\% | 85,100 | 13,158 | 186,881 | 85,100 | 1,357,092 |
| Walnut | Very Low | 0.3\% | 0.0\% | 105,252 | 16,273 | 231,134 | 105,252 | 1,678,452 |
| West Covina | Moderate | 1.0\% | 0.0\% | 340,068 | 52,579 | 746,790 | 340,068 | 5,423,037 |
| West Hollywood | Very High | 0.4\% | 0.9\% | 241,692 | 37,368 | 530,755 | 241,692 | 3,854,239 |
| Westlake Village | Very Low | 0.1\% | 0.0\% | 42,464 | 6,565 | 93,252 | 42,464 | 677,174 |
| Whittier | Low | 0.8\% | 0.0\% | 282,131 | 43,621 | 619,560 | 282,131 | 4,499,119 |

Table 1 continued

| Study Area Name | Need Category | Category 1 Allocation Ratio (Estimate) | Category 2 Allocation Ratio (Estimate) | Categories 1 \& 2 Allocation (Estimate) | $\text { \$100M \\| } 20 \text { years \\| 3.65\% }$ |  | \$726 M \| 25 years | $3.93 \%$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Maximum <br> Annual Debt Service | Bond Proceeds | Maximum <br> Annual Debt Service | Bond Proceeds |
| TOTAL |  | 100.0\% | 100.0\% | 45,537,286 | 7,040,625 | 100,000,000 | 45,537,286 | 726,180,000 |

Table 2: Bonding Scenarios Analysis

General Assumptions:

+     + Issue Date: 7/3/2017
+ Credit Rating: AAA
+ Reserve Fund: None
+ UW Discount: \$4/bond
+ Rates as of: 6/28/2017

| Group 1: \$100 million deposit |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { A. } 20 \text { years, Base } \\ & \text { Case } \end{aligned}$ | $\begin{aligned} & \text { B. } 25 \text { years, Base } \\ & \text { Case } \end{aligned}$ | $\begin{gathered} \text { C. } 20 \text { years, }+ \\ 100 \mathrm{bps} \end{gathered}$ | $\begin{gathered} \text { D. } 25 \text { years, }+ \\ 100 \mathrm{bps} \end{gathered}$ |
| Sources |  |  |  |  |
| Par | \$ 82,830,000.00 | \$83,245,000.00 | \$88,995,000.00 | \$89,720,000.00 |
| Premium | 17,901,358.15 | 17,489,193.70 | 11,766,002.85 | 11,042,009.85 |
| Total | \$ 100,731,358.15 | \$ 100,734,193.70 | \$ 100,761,002.85 | \$ 100,762,009.85 |
| Uses |  |  |  |  |
| Project Fund | \$ 100,000,000.00 | \$ 100,000,000.00 | \$ 100,000,000.00 | \$ 100,000,000.00 |
| COI + Addll Proceeds | 400,038.15 | 401,213.70 | 405,022.85 | 403,129.85 |
| UW Discount | 331,320.00 | 332,980.00 | 355,980.00 | 358,880.00 |
| Total | \$ 100,731,358.15 | \$ 100,734,193.70 | \$ 100,761,002.85 | \$ 100,762,009.85 |
| True Interest Cost | 2.884750\% | 3.251610\% | 3.652970\% | 3.932230\% |
| Total D/S | \$ 134,103,616.67 | \$148,922,188.89 | \$144,080,966.67 | \$160,506,327.78 |
| Maximum Annual D/S | \$6,553,625.00 | \$ 5,835,250.00 | \$7,040,625.00 | \$6,289,875.00 |
| Other Assumptions: | \$400,000 COI |  |  |  |

Table 2 continued

| Group 2: \$200 million deposit |  |  |  |  |
| ---: | ---: | ---: | ---: | ---: |
|  | A. 20 years, Base <br> Case | B. 25 years, Base <br> Case | C. 20 years, + <br> 100 bps | D. 25 years, + <br> 100 bps |
| Sources |  |  |  |  |
| Par | $\$ 165,415,000.00$ | $\$ 166,240,000.00$ | $\$ 177,720,000.00$ | $\$ 179,165,000.00$ |
| Premium | $35,749,293.05$ | $34,926,398.60$ | $23,495,868.70$ | $22,051,820.35$ |
| Total | $\$ 201,164,293.05$ | $\$ 201,166,398.60$ | $\$ 201,215,868.70$ | $\$ 201,216,820.35$ |
|  |  |  |  |  |
| Uses |  |  |  |  |
| Project Fund | $\$ 200,000,000.00$ | $\$ 200,000,000.00$ | $\$ 200,000,000.00$ | $\$ 200,000,000.00$ |
| COI + Add'I Proceeds | $502,633.05$ | $501,438.60$ | $504,988.70$ | $500,160.35$ |
| UW Discount | $661,660.00$ | $664,960.00$ | $710,880.00$ | $716,660.00$ |
| Total | $\$ 201,164,293.05$ | $\$ 201,166,398.60$ | $\$ 201,215,868.70$ | $\$ 201,216,820.35$ |
|  |  |  |  |  |
| True Interest Cost | $2.884730 \%$ | $3.251630 \%$ | $3.653050 \%$ | $3.932210 \%$ |
| Total D/S | $\$ 267,808,488.89$ | $\$ 297,402,072.22$ | $\$ 287,730,633.33$ | $\$ 320,527,794.44$ |
| Maximum Annual D/S | $\$ 13,084,250.00$ | $\$ 11,651,250.00$ | $\$ 14,058,125.00$ | $\$ 12,556,750.00$ |
|  |  |  |  |  |
| Other Assumptions: |  |  | $\$ 500,000$ | C01 |

Table 2 continued

| Group 2: \$300 million deposit |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | A. 20 years, Base Case | B. 25 years, Base Case | C. 20 years, + 100bps | $\begin{gathered} \text { D. } 25 \text { years, }+ \\ 100 \mathrm{bps} \end{gathered}$ |
| Sources |  |  |  |  |
| Par | \$247,995,000.00 | \$249,235,000.00 | \$266,445,000.00 | \$268,615,000.00 |
| Premium | 53,597,029.95 | 52,363,041.45 | 35,225,450.65 | 33,060,715.90 |
| Total | \$ 301,592,029.95 | \$ 301,598,041.45 | \$ 301,670,450.65 | \$ 301,675,715.90 |
| Uses |  |  |  |  |
| Project Fund | \$300,000,000.00 | \$300,000,000.00 | \$300,000,000.00 | \$300,000,000.00 |
| COI + Add'I Proceeds | 600,049.95 | 601,101.45 | 604,670.65 | 601,255.90 |
| UW Discount | 991,980.00 | 996,940.00 | 1,065,780.00 | 1,074,460.00 |
| Total | \$ 301,592,029.95 | \$ 301,598,041.45 | \$ 301,670,450.65 | \$ 301,675,715.90 |
| True Interest Cost | 2.884680\% | 3.251610\% | 3.653040\% | 3.932190\% |
| Total D/S | \$401,503,550.00 | \$445,874,205.56 | \$431,374,050.00 | \$480,545,072.22 |
| Maximum Annual D/S | \$ 19,616,250.00 | \$ 17,466,000.00 | \$ 21,075,750.00 | \$ 18,824,125.00 |
| Other Assumptions: | \$600,000 COI |  |  |  |


[^0]:    ${ }^{1}$ Measure A, Sections 6(e)(1)-(3)
    ${ }^{2}$ Measure A, Sections 5(b)(1)-(5)
    ${ }^{3}$ Measure A, Section 6(e)(1)

