

# PUBLIC UTILITIES REVENUE BOND OVERSIGHT COMMITTEE CITY AND COUNTY OF SAN FRANCISCO AGENDA

Public Utilities Commission Building 525 Golden Gate Ave., 2<sup>nd</sup> Floor Yosemite Conference Room San Francisco, CA 94102

April 10, 2017 - 9:00 AM

# **Regular Meeting**

**Mission:** The purpose of the Revenue Bond Oversight Committee (RBOC) is to monitor the expenditure of revenue bond proceeds related to the repair, replacement, upgrade and expansion of the SFPUC's water, power and sewer infrastructure. The RBOC's goal is to ensure that specific SFPUC revenue bond proceeds are spent appropriately and according to authorization and applicable laws. The RBOC provides oversight to ensure transparency and accountability in connection with expenditure of the proceeds. The public is welcome to attend RBOC meetings and provide input.

# 1. Call to Order and Roll Call

- Seat 1 Holly Kaufman (Holdover status)
- Seat 2 Kevin Cheng, Chair (Holdover status)
- Seat 3 Robert Leshner
- Seat 4 Tim Cronin
- Seat 5 Travis George
- Seat 6 Christina Tang, Vice Chair
- Seat 7 Jennifer Millman

# 2. Agenda Changes

- 3. **Public Comment:** Members of the public may address the Revenue Bond Oversight Committee (RBOC) on matters that are within the RBOC's jurisdiction but are not on today's agenda.
- 4. San Francisco Public Utilities Commission (SFPUC) Staff Report: Assurance of Bond Compliance and First Quarter Financial Reports (*Discussion*)
- 5. **Committee Discussion:** Generic Rating Process Overview (*Discussion*) (*Attachment*)
- 6. **Approval of Minutes:** February 13, 2017, and March 6, 2017, Meeting Minutes (*Discussion and Action*) (*Attachment*)

# 7. Election of Officers (Discussion and Action) (Attachment)

# 8. Announcements, Comments, Questions, and Future Agenda Items

## <u>May 8, 2017</u>

- 1. WSIP update
- 2. Ratemaking 101
- 3. Avoiding major cost overruns options for consulting assistance in "deep dives"
- 4. Presentation on consultants' pool City Services Auditor
- 5. Debt Management Policies and Procedures including Green bonds
- 6. Review RBOC account/budget

## <u>June 12, 2017</u>

- 1. SSIP update Collection System Plan
- 2. Depth/breadth of RBOC oversight activities
- 3. Environmental Justice Update

## July 17, 2017

- 1. WSIP update staff report
- 2. Green infrastructure

## <u>August 7, 2017</u>

1. Half day field trip/site visit – location TBD, possible locations: Mountain Tunnel, Calaveras Dam, Southeast Plant

## September 18, 2017

- 1. Follow up to May discussion on avoiding major costs overruns and consultant pool info
- 2. Review RBOC account/budget

## October 16, 2017

- 1. WSIP update
- 2. Seminar on capital planning

## November 6, 2017

1. SSIP update

## December 11, 2017

1. Clean Power/Power Enterprise presentation

# 9. Adjournment

## **Agenda Item Information**

Each item on the agenda may include: 1) Department or Agency cover letter and/or report; 2) Public correspondence; 3) Other explanatory documents. For more information concerning agendas, minutes, and meeting information, such as these documents, please contact RBOC Clerk, City Hall, 1 Dr. Carlton B. Goodlett Place, Room 244, San Francisco, CA 94102 – (415) 554-5184.

Audio recordings of the meeting of the Revenue Bond Oversight Committee are available at: <u>http://sanfrancisco.granicus.com/ViewPublisher.php?view\_id=97</u>

For information concerning San Francisco Public Utilities Commission please contact by e-mail <u>RBOC@sfgov.org</u> or by calling (415) 554-5184.

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Public Comment will be taken before or during the Committee's consideration of each agenda item. Speakers may address the Committee for up to three minutes on that item. During General Public Comment, members of the public may address the Committee on matters that are within the Committee's jurisdiction and are not on the agenda.

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# **PACKET MATERIALS**

DATE <u>April 10, 2017</u> Item No. <u>5</u>

# REVENUE BOND OVERSIGHT COMMITTEE

AGENDA PACKET CONTENTS LIST

x	Credit Rating Overview
Ă	Moody's Rating Methodology

Completed by: <u>Derek Evans</u> Date: <u>April 4, 2017</u>

(This list reflects the explanatory documents provided.)

# **Credit Rating Overview**

# **Scoring Process:**

- Rating agencies have relatively clear quantitative criteria they evaluate in order to assign ratings
- Each criteria has a weight and receives a number score along a spectrum of potential scores
- Once the weighted scores are combined, a total score is generated which is a weighted average
- The total score fits somewhere along the rating scale which has more granular rating categories
- Once this score is calculated, qualitative factors can be taken into account



# **Rating Scales:**

- Moody's: Aaa | Aa1 | Aa2 | Aa3 | A1 | A2 | A3
- S&P and Fitch: AAA AA+ AA AA- A+ A A-

# Moody's Rating Criteria:

# Characteristics of the Utility System (30%)

- Asset Condition (net fixed assets divided by annual depreciation) (10%)
- System Size (measured by O&M size) (7.5%)
- Service Area Wealth (median family income)(12.5%)

# Financial Strength (40%)

- Annual Debt Service Coverage (revenues less expenses over debt service)(15%)
- Liquidity (days cash on hand) (15%)
- Debt (debt over operating revenues) (15%)

# Management (20%)

- Rate Management (willingness and ability) (10%)
- Regulatory Compliance and Capital Planning (10%)

## Legal Provisions (10%)

- Rate Covenant (debt service coverage minimum) (5%)
- Debt Service Reserve (required or not) (5%)

# Moody's INVESTORS SERVICE

# **RATING METHODOLOGY US Municipal Utility Revenue Debt**

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This methodology explains how Moody's evaluates the credit quality of essential service US municipal utility revenue bonds. The approach described in the methodology applies to six basic categories of municipal utilities<sup>1</sup>: water distribution, gas distribution, electric distribution, sanitary sewerage, stormwater disposal, and solid waste disposal.

The primary factors that drive our credit analysis for these types of utilities are the size and health of the system and its service area, the financial strength of its operations, the legal provisions governing its management, and the strength of its rate management and regulatory compliance.

We intend for this methodology to help investors, municipalities, utilities, and other interested market participants understand how key quantitative and qualitative risk factors are likely to affect ratings in the municipal utility sector. This document does not offer an exhaustive treatment of all factors that are reflected in our ratings, but should enable the reader to understand the considerations that are usually most important for ratings in this sector.

This methodology updates and replaces two methodologies governing our municipal utility revenue ratings: the Analytical Framework for Water and Sewer System Ratings, August 1999, and <u>US Public Power Electric Utilities</u>, April 2008. While reflecting many of the same core principles that we have used in assigning ratings to this sector for years, this updated methodology introduces a scorecard that quantifies several factors that we previously evaluated in qualitative ways. A modest number of ratings are expected to change as a result of the implementation of this methodology.

The purpose of the scorecard is to provide a reference tool that market participants can use to approximate most credit profiles within the US municipal utility sector. The scorecard provides summarized guidance for the factors that we generally consider most important in assigning ratings to these issuers. However, the scorecard is a summary that does not include every rating consideration. The weights the scorecard shows for each factor represent an approximation of their importance for rating decisions. In addition, the scorecard was built based on historical results, while our ratings are based on forward-looking expectations. As a result, we would not expect the scorecard-indicated rating to match the actual rating in every case.

» contacts continued on the last page

The methodologies used to assign ratings to municipal utility districts, global regulated water utilities, regulated electric and gas utilities, electric generation and transmission cooperatives, and waste-to-energy projects can be found in the methodology index on moodys.com.

## Introduction

This methodology covers debt secured by the revenues generated by US municipal utilities providing monopolistic services essential to public health and functional economies.

The security for a municipal utility revenue bond is typically defined in a bond resolution or a trust indenture, which acts as a contract between the utility and its bondholders. The resolution or indenture most often identifies the bond's security as a lien on the net revenues of the system after the payment of regular operating and maintenance expenses.

The sector is varied and fragmented. US municipal utilities provide many different services whose rates or fees can secure debt. The utilities rated under this methodology mostly fall into one or more of six basic categories:

- 1) **Water utilities** take water from the ground, a river, a lake, or in special cases the ocean, treat it to a potable standard, and distribute it to customers for drinking, cleaning, and commercial, industrial, or agricultural uses. These utilities can be involved in any or all of the functions of water supply: water treatment, long-distance transmission, and retail water distribution. Some water utilities have no treatment capacity and purchase potable water wholesale.
- 2) **Gas utilities** take natural gas from a wholesale<sup>2</sup> pipeline, odorize it for safety detection, and pressurize it and deliver it to customers through a pipe network for uses such as heating, cooking, or commercial and industrial applications. Some municipal gas systems may encompass their own natural gas supplies.
- 3) **Electric utilities** purchase electricity<sup>3</sup> from wholesale suppliers and deliver it to residential, commercial, and industrial customers for a wide range of power uses.
- 4) **Sanitary sewer** utilities collect and treat wastewater, discharging it into a waterway or injecting it underground, and landfilling or incinerating the residual sludge. Some sewer utilities with no treatment capacity gather wastewater and transmit it to another utility that treats it.
- 5) **Stormwater** utilities collect and treat rainwater before discharging it into a body of water such as an ocean or a river. While every city or county addresses stormwater drainage as an integral element of its streets and highways, the stormwater systems that require capital markets financing are typically large in scale and are necessary to avert flooding from heavy seasonal rainfall in hilly areas.
- 6) Solid waste utilities collect residential or commercial refuse and dispose of it through landfills, waste-to-energy plants, or other waste-disposal processes. A solid waste system can be complete or collection-only, relying on another municipal or private entity for long-haul removal and disposal through landfill or incineration.

This publication does not announce a credit rating action. For any credit ratings referenced in this publication, please see the ratings tab on the issuer/entity page on www.moodys.com for the most updated credit rating action information and rating history.

<sup>3</sup> Only those municipal electric utilities that generate less than 20% of their own power are covered by this methodology. For more information on how we rate electric generation utilities, see <u>US Public Power Electric Utilities with Generation Ownership Exposure</u> and <u>US Municipal Joint Action Agencies</u>.

<sup>&</sup>lt;sup>2</sup> This methodology covers gas distribution utilities. These utilities purchase their supply from providers covered under the <u>Regulated Electric and Gas Utilities</u> methodology, or other providers.

#### Defining the municipal utility universe

This methodology covers essential-service utilities that operate as departments, boards, or independent authorities of US states or local governments. We rate approximately 1,100 utilities in this category (see Exhibit 1). More than 80% of these utilities are water and/or sewer systems. Many of these are distribution or collection systems with no treatment capacity of their own.



States and subdivisions of states, such as counties and cities, often issue bonds secured by the net revenues generated by a system operated directly under their auspices, such as a city water department. Other times, states or state subdivisions create an independent authority or special purpose district that operates the system and issues the bonds. This distinction is usually unimportant for rating purposes, although in some cases a separate authority has beneficial management expertise.

This methodology focuses on revenue bonds for essential-service functions. Other types of public utilities issue bonds backed by revenues charged for services such as telephone, cable television, or parking. These services are typically competitive and subject to greater elasticity in pricing and utilization. Bonds secured by revenues generated by these services are not rated under this methodology. Also not rated under this methodology are utility revenue bonds whose rating is ultimately <u>based on a General Obligation guaranty</u>. Lastly, the electric utilities covered under this methodology are retail distributors of electricity mostly generated elsewhere. Electric generation utilities, municipal waste-to-energy facilities, and US municipal joint action agencies are rated under separate methodologies.

The credit quality of essential-service utility revenue bonds is generally quite strong. The median rating for this sector is Aa3 (see Exhibit 2), and with very few exceptions these bonds have strong investment grade ratings. More than 85% of essential-service revenue bonds are rated A1 or higher. Four of the eight municipal utilities with speculative-grade ratings as of publication are affiliated with a local government in Chapter 9 bankruptcy<sup>4</sup> (see "The Relationship Between General Obligation and Revenue Bond Ratings" below).

These are: the Detroit Water Enterprise, the Stockton Water Enterprise, the Detroit Sewer Enterprise, and the Stockton Sewer Enterprise

EXHIBIT 2

Municipal Utility Rating Distribution



The generally high ratings of the sector are a testament to numerous fundamental strengths, including:

- 1) The provision of essential services, usually in a government-protected monopoly
- 2) Typically unregulated and independent rate-setting authority
- 3) The ability to discontinue service to delinquent accounts and in many cases to put a lien on the property for nonpayment
- 4) Utility cost burdens that are typically low relative to household income and to tax burdens
- 5) A generally strong federal and state regulatory framework that is designed to keep utilities functioning in order to protect public health and achieve environmental goals
- 6) A "special revenue" designation that may insulate a utility from a parent's bankruptcy

A sparse history of default, bankruptcy, and serious financial distress helps to underpin the high ratings in this sector. Since 1970, only four Moody's-rated essential-service utility systems have <u>defaulted</u><sup>5</sup>.

EXHIBIT 3			
Rated Municipal Utility Defaults Since	1970 <sup>6</sup>		
Default	Type of System	Year of default	Recovery
Washington Public Power Supply System	Electric Generation	1983	40%
Vanceburg, KY	Electric Generation	1987	100%
Jefferson County, AL	Sewer	2008	54%
Oakdale, CA	Water and sewer	2012	94%

Source: Moody's Investors Service

<sup>&</sup>lt;sup>5</sup> The Harrisburg Authority, PA's Resource Recovery Facility bonds <u>defaulted</u> in 2009. We did not rate these as revenue bonds, but as General Obligation (GO) bonds backed by the City of Harrisburg's GO pledge. Similarly, a <u>City of Menasha</u>, WI default on a steam plant project was rated as a GO credit and not as a municipal utility. Detroit's water and sewer bonds have not defaulted, though as of this writing the city's Chapter 9 bankruptcy exit is still pending.

<sup>&</sup>lt;sup>6</sup> As electric generation utilities, the Washington Public Power Supply System and Vanceburg electric revenue bonds would not have been rated under the current methodology.

We see each of these default situations as unusual and idiosyncratic, with limited relevance to the sector as a whole. We expect the very low rate of default in the sector to continue. For more information, see <u>US Municipal Bond Defaults and Recoveries</u>, <u>1970-2013</u>.

## The Relationship Between General Obligation (GO) and Utility Revenue Bond Ratings

A municipality's GO credit quality may directly affect the strength of its associated utility systems. This section outlines the broad principles that apply when assessing the credit linkages between a municipality's GO and utility debt. These broad principles are meant to enhance transparency around our view of the relationship between related ratings and explain why, in most cases, the ratings of GO and associated utility revenue debt are and will remain relatively close.

Municipal utility debt is generally exposed to similar credit strengths and pressures as the GO and can thus expect to experience simultaneous credit improvement or deterioration. Examples of credit linkages between the GO and utility debt include:

- » Economy: Utility systems usually rely on a coterminous or overlapping economic base and service area.
- » Legal structure: Utility bond indentures sometimes contain events of default tied to the bankruptcy or insolvency of the general government.
- » Finances and Debt: Cash can often flow between the two entities, sometimes with a formal funding mechanism. Debt and other long-term liabilities are often paid by the same group of constituents. GO and utility issuers may also be exposed to the same pension plan.
- » Management and Governance: Management of the city and the utility may be the same or have close ties. For instance, city management may appoint the board of the utility or have the power to affect enterprise rates.
- » Capital Markets: The GO and the utility issuer may need to access the same capital markets for funding.

Because of these linkages, in most cases, ratings of a municipality's utility debt will be within two notches of its GO rating. Our current rating distribution highlights this relationship, with few utility ratings departing from their respective GO ratings by more than two notches (see Exhibit 4).

#### EXHIBIT 4



**Relationship Between Municipal Utility and General Government GO Ratings** (Negative means utility rating is lower than the GO, positive means it is higher; not all rated utilities are associated with rated general governments)

There are, however, cases where a utility's credit strength may be sufficiently independent from its associated GO rating to justify a larger notching difference. We expect these cases to be rare, and they would likely include several of the following characteristics:

- » An unusually weak GO rating which is driven by idiosyncratic factors less relevant to the utility's credit strength.
- » A non-coterminous service area, so that utility revenues are derived from a larger and more diversified base.
- » A closed loop flow of funds, wherein the GO issuer is unable to access utility revenues.
- » A strict separation of accounts and assets.
- » The absence of rating triggers tied to the GO credit quality in utility financings.
- » Separation of management and governance.

An example of a utility rated more than two notches above its parent government is the Detroit Water and Sewer Department, which benefits from a much larger and more diverse service area than the city of Detroit, has separate accounts, and has a bond indenture that precludes distributions of excess cash flow to the city's general fund.

Conversely, a utility rating more than two notches below its associated GO generally has one or more of the following characteristics:

- » An unusually weak utility rating which is driven by factors less relevant to the general government's credit strength.
- » A utility service are that is narrower and less diverse than the municipality as a whole
- » A lack of expectation that the general government would transfer funds to assist a utility experiencing financial distress.
- » A strict separation of accounts and assets.
- » The absence of rating triggers tied to the utility credit quality in GO financings.

» Separation of management and governance.

An example of a utility revenue bond rated more than two notches below the parent's GO is the <u>St. George Electric Enterprise</u>, UT (Baa1 negative). While the <u>City of St. George</u> (Aa3) holds healthy reserves and has demonstrated steady operating performance, the electric distribution system has exhibited an unwillingness to raise electric rates fast enough to keep up with rising power supply costs. The electric system maintains narrow liquidity and has failed to generate enough net revenues to cover debt service in multiple years, justifying a significantly lower revenue rating than the related GO. We did, however, <u>downgrade the city</u> from Aa2 in 2013 partially because of the relationship to the utility funds, illustrating that these relationships are important even in cases when a wider disparity between GO and utility ratings is warranted.

## Essential service revenue bonds in bankruptcy

An important property of public utility revenue bonds is that they enjoy a potential moat from a general government's bankruptcy. Under Chapter 9 of the US bankruptcy code, a lien on "special revenue" bonds remains valid and enforceable even if the issuer is granted bankruptcy protection.

The potential survival through bankruptcy of a lien on the net revenues of a utility system is a key strength. When a debtor is granted bankruptcy protection, its unsecured assets are subject to an automatic stay, which freezes outflows unless approved by the bankruptcy judge. An asset secured by a lien that is not subject to the automatic stay enjoys a credit advantage over a related General Obligation credit that is subject to the stay.

Further, a special revenue bond is less susceptible to adjustment in bankruptcy if its lien leads to an interpretation of the bonds as enjoying secured status.

Although the bankruptcy code establishes these strengths of a special revenue bond, Chapter 9 remains largely untested. Case law offers few precedents, and only a handful of examples to support the assertion that a special revenue designation protects revenue bonds in bankruptcy.

The political reality is that utility systems are often major cash-generating assets that other stakeholders frequently would like to bring into bankruptcy negotiations. Moreover, bankruptcy judges in some cases have allowed the cash flows generated by special revenue systems to pay the legal costs of related parents in bankruptcy.

It is premature to conclude that utility revenue bonds are completely insulated from Chapter 9 bankruptcies, and the risks and costs of a general government bankruptcy remain considerable.

For more information, please refer to our Special Comment, <u>Key Credit Considerations for</u> <u>Municipal Governments in Bankruptcy</u>.

## **The Scorecard**

The municipal utility scorecard (see Exhibit 5) is a tool providing a composite score of a utility's credit profile based on the weighted factors we consider most important, universal and measurable, as well as possible notching factors dependent on individual credit strengths and weaknesses. The scorecard is designed to enhance the transparency of our approach by identifying critical factors as a starting point for analysis, along with additional considerations that may affect the final rating assignment.

The scorecard is not a calculator. Its purpose is not to determine the final rating, but rather to provide a standard platform from which to begin viewing and comparing municipal utility credits. It therefore acts as a starting point for a more thorough and detailed analysis.

The scorecard-indicated rating will not match the actual rating in every case, for a number of reasons including the following:

- » Our methodology considers forward-looking expectations that may not be captured in historical data.
- » The scorecard is a summary that does not include every rating consideration.
- » In some circumstances, the importance of one factor may escalate and transcend its prescribed weight in this methodology.

## EXHIBIT 5 Municipal Utility Scorecard Factors

Broad Scorecard Factors	Factor Weighting	Scorecard Subfactor	Subfactor Weighting
System Characteristics	30%	Asset Condition (Remaining Useful Life)	10%
		Service Area Wealth (Median Family Income)	12.5%
		System Size (O&M)	7.5%
Financial Strength	40%	Annual Debt Service Coverage	15%
		Days Cash on Hand	15%
		Debt to Operating Revenues	10%
Management	20%	Rate Management	10%
		Regulatory Compliance and Capital Planning	10%
Legal Provisions	10%	Rate Covenant	5%
		Debt Service Reserve Requirement	5%
Total	100%	Total	100%

We intentionally limited our scorecard metrics to major rating drivers that are common to most issuers. Outside of these drivers, we may adjust the grid score for a variety of "below-the-line" adjustments, which are more idiosyncratic factors that are likely not to apply to all issuers, but that can impact credit strength. The scorecard score is the result of the "above-the-line" score based quantitatively on the above-the-line factors, combined with any "below-the-line" notching adjustments. The scorecard score is a guideline for discussion, but does not determine the final rating. The rating is determined by a committee, which considers, but is not bound by, the scorecard score.

## **Discussion of Key Scorecard Factors**

To arrive at a scorecard-indicated rating, we begin by assigning a score for each subfactor. We've chosen measures that act as proxies for a variety of different service area characteristics, financial conditions, and governance behaviors that can otherwise be difficult to measure objectively and consistently. Based on the scores and weights for each subfactor, a preliminary score is produced that translates to a given rating level.

We may then move the score up or down a certain number of rating notches based on additional "below-the-line" factors that we believe impact a particular utility's credit quality in ways not captured by the statistical portion of the scorecard. This is where analytical judgment comes into play. We may also choose to make adjustments to the historical inputs to reflect our forward-looking views of how these statistics may change.

The scorecard score, combined with below-the-line notching, then provides an adjusted score. This adjusted score is not necessarily the final rating. Because some utilities' credit profiles are idiosyncratic, one factor, regardless of its scorecard weight, can overwhelm other factors, and other considerations may prompt us to consider final ratings that differ from the scorecard-indicated rating.

Below, we discuss each factor and subfactor, as well as the below-the-line adjustments and other considerations we analyze within each category of the methodology.

EXHIBIT 6							
System Characteristics (30%)		Aaa	Aa	A	Baa	Ва	B and Below
Asset Condition (10%)	Net Fixed Assets/Annual Depreciation :	> 75 years	75 years ≥ n > 25 years	25 years ≥ n > 12 years	12 years ≥ n > 9 years	9 Years ≥ n > 6 Years	≤ 6 Years
System Size (7.5%)	Water and/or sewer / Solid Waste:	O&M > \$65M	\$65M ≥ O&M > \$30M	\$30M ≥ O&M > \$10M	\$10M ≥ O&M > \$3M	\$3M ≥ O&M > \$1M	O&M ≤ \$1M
	Stormwater:	O&M > \$30M	\$30M ≥ O&M > \$15M	\$15M ≥ O&M > \$8M	\$8M ≥ O&M > \$2M	\$2M ≥ O&M > \$750K	O&M≤ \$750K
	Gas or Electric:	O&M > \$100M	\$100M ≥ O&M > \$50M	\$50M ≥ O&M > \$20M	\$20M ≥ O&M > \$8M	\$8M ≥ O&M > \$3M	O&M≤ \$3M
Service Area Wealth (12.5%)		> 150% of US median	150% ≥ US median > 90%	90% ≥ US median > 75%	75% ≥ US median > 50%	50% ≥ US median > 40%	≤ 40% of US median

## Factor 1: System Characteristics (30%)

### Why it matters

This factor on the scorecard measures a utility's capacity to fund its operations and capital needs based on the health of its capital assets, the size and diversity of its operations, and the strength and resources of its service base. The scope of this factor is broad. Each of the subfactors contributes to an analysis of what magnitude of expenditures is necessary to keep the system functioning, and how large, diverse, and flexible are the resources available to meet those expenditures.

## Subfactor 1a: Asset condition (10%)

Input: Net fixed assets divided by most recent year's depreciation, expressed in years

The condition of a utility's capital assets determines its ability to comply with environmental regulations and continue delivering adequate service with existing resources.

Depreciation is an accounting concept that acts as a proxy for the rate at which a utility's plant and equipment are aging. Central to our analysis of capital adequacy is an assessment of how utilities "fund depreciation," meaning make capital replacements and repairs to address aging plant and equipment.

The consequences of failing to fund depreciation can be costly. Implicit in this measure is the concept of deferred capital investment. Utilities that delay investing in their systems, replacing aging plant and equipment, and modernizing their facilities often find it more expensive to do so later. Capital investments are ordinarily more expensive when deferred.

Further, systems whose facilities deteriorate often run afoul of environmental regulations. The failure to fund depreciation, which will manifest as a declining useful remaining life, can lead to sewage overflows, inflow and infiltration problems, or non-compliant wastewater discharges, resulting in civil fines, litigation, or regulatory consent decrees. These are usually more expensive than funding depreciation through a prudent multi-year capital plan that replaces assets as they deteriorate or break down.

The inherent differences between types of utilities are manifested in their component parts, which can have very different useful lives. Because a solid waste utility is largely automotive-based, with collection vehicles and earthmoving equipment at the landfill, the useful life of its assets will be well under 20 years, compared to a water utility whose distribution mains and reservoir have useful lives of 40 to 100 years. We generally acknowledge and address these differences below the line.

For utilities whose asset condition ratios are not determinable, such as utilities that utilize cash accounting and do not report net fixed assets or depreciation, we are likely to assess the sufficiency of capital assets based on other available information.

#### Subfactor 1b: Service area wealth (12.5%)

### Input: Median family income of the service area, expressed as a percentage of the US median

Most of the costs of operating a utility and maintaining its capital assets are borne by ratepayers. The income of the residents of the service base conveys the capacity of its ratepayers to bear higher rates to fund operations and capital upgrades. The median family income breakpoints in this scorecard are aligned with the ones in our <u>US Local Government General Obligation Debt</u> methodology.

Utilities that serve lower-income ratepayers may have more difficulty implementing higher rates, if utility costs consume a considerable share of residents' budgets. The US Environmental Protection Agency (EPA) considers wastewater costs exceeding 2% of median household income to be a heavy burden, for example, a threshold that would be reached more quickly for a utility serving lower-income ratepayers.

We believe MFI is the best proxy for the wealth of a service base, but other indicators such as the poverty rate, unemployment, home foreclosures, per capita income, and median home value supplement our analysis of ratepayer capacity.

## Subfactor 1c: System size (7.5%)

Input: Most recent year operations and maintenance expenditures, expressed in dollars

Larger systems tend to be more diverse and enjoy economies of scale. The size of a system implies the flexibility and resilience not only of its operations, but of its service base.

Small systems present a number of risks. They are less likely to have redundancies, which allow a system to shut down some of its operations in an emergency or to make repairs without interrupting service. Small standalone water or sewer systems will typically depend upon a single supply of water or a single sewage treatment plant. They are more likely to be exposed to a concentrated customer base. They are more susceptible to the departure of a single large customer. An unexpected capital need is likely to be more costly relative to its annual budget. The collective engineering and scientific expertise is likely to be less robust than a larger system's.

We use different breakpoints for different types of systems in this subfactor, recognizing that not all types of utilities have the same cost structure. For instance, an electric distribution system is more expensive to run than a stormwater system. A distribution-only water system is likely to have a lower, more predictable cost base, but also depend on an external system for water supply and pay prices largely out of its control.

Utilities that are wholesalers to municipal government customers may exhibit operating stability not captured by size or service area wealth. Many of a utility's risks may be shifted to its municipal customers if their service contracts prevent these customers from switching providers or decreasing payments. If service contracts are so strongly worded and unconditional that municipal customers would have to pay the utility's debt service under any circumstances, then the utility's bonds may effectively represent a claim on the combined credit quality of the municipal governments.

For utilities that are exclusively wholesalers to municipal customers, we assess the customers' ("participants") credit quality, using our methodologies for general obligation bonds, lease revenue bonds, or other appropriate methodology determined by the nature of the participants' pledge to the utility. For bonds secured by a utility's net revenue pledge, we incorporate the strength of the municipal customers' credit quality as an important factor in the utility's revenue base. For utilities whose pledges are essentially a pass-through of the municipal customers' underlying pledges, we may rate their bonds using the <u>Public Sector Pool Financings</u> methodology, recognizing that bondholders enjoy a direct claim on the underlying municipalities' ability and willingness to pay.

#### Below-the-line adjustments

*Additional service area economic strength or diversity*: We would use this adjustment, up or down, if the MFI statistic incompletely or inaccurately depicts that capacity of the service base to bear higher rates.

*Significant customer concentration*: A large exposure to a single user or industry, or a small number of users, poses substantial risks that might not be captured in MFI. We may adjust the scorecard rating down if a large share of a utility's revenues comes from one or a small number of customers, or from a single industry. We would be more likely to use this adjustment for volatile, unpredictable, and mobile industries than for longer-standing, more stable ones. We are less likely to consider a wholesale customer as a factor contributing to concentration, as it is purchasing on behalf of end-users.

*Revenue per customer greatly over/under regional average*: Revenue per customer conveys additional information about users' capacity for higher rates that might not be captured in MFI. We might adjust the above-the-line rating, up or down, if revenue per customer implies higher or lower ability to increase rates than MFI suggests.

*Exposure to weather volatility, extreme conditions or market fluctuations*: Large amounts of rain that infiltrate pipes or storms that destroy equipment are examples of credit risks that could result in below-the-line adjustments. Weather can also affect the prices that distribution systems pay third-party providers for electricity or natural gas.

*Resource vulnerability*: Water, gas, and electric distribution utilities sell a product whose availability can be limited or expensive in some cases. For instance, a water provider in a <u>drought-stricken region</u> may have to purchase expensive third-party water, and see declines in billable flow due to conservation efforts. We may adjust the scorecard rating down if the availability of water, an adequate gas supply, or a dependable source of electricity is vulnerable or in doubt.

*Sizeable or insufficient capacity margin*: Our useful remaining life calculation is designed to assess the quality of existing capital assets, but it does not measure the adequacy of a system's capacity relative to demand. Areas that are growing need more water, gas, and electricity, and place greater demands on wastewater and trash disposal utilities. Systems that are close to capacity may face greater capital costs to expand in the future, suggesting larger debt burdens and posing additional risks that we may adjust the scorecard downward for. Alternately, systems with ample capacity may be notched up, given the lack of capital spending requirements implied by the excess capacity. Further, excess capacity can sometimes imply a revenue-generating opportunity, since utilities can often sell their product or service to other parties. We are less likely to view excess capacity as a positive if it is caused by a declining user base.

*Unusual depreciation practices relative to industry norms*: Utilities typically have some flexibility to determine the depreciation schedules of their assets. Utilizing unreasonably long useful lives or employing other practices that distort depreciation schedules would also distort our remaining useful life calculation. We may notch a score down if an unreasonable depreciation schedule is inflating a utility's remaining useful life. Likewise, we may notch a score up if an unusually rapid depreciation schedule understates remaining useful life.

EXHIBIT 7						
Financial Strength (40%)	Aaa	Aa	Α	Baa	Ва	B and Below
Annual Debt Service Coverage (15%)	> 2.00x	2.00x ≥ n > 1.70x	1.70x ≥ n > 1.25x	1.25x ≥ n > 1.00x	1.00x ≥ n > 0.70x	≤ 0.70x
Days Cash on Hand (15%)	> 250 Days	250 Days ≥ n > 150 Days	150 Days ≥ n > 35 Days	35 Days ≥ n > 15 Days	15 Days ≥ n > 7 Days	≤ 7 Days
Debt to Operating Revenues (10%)	< 2.00x	2.00x < n ≤ 4.00x	4.00x < n ≤ 7.00x	7.00x < n ≤ 8.00x	8.00x < n ≤ 9.00x	≥ 9.00x

## Factor 2: Financial Strength (40%)

## Why it matters

The financial health of a utility determines its flexibility to respond to contingencies, its resilience against potential short-term shocks, and its cushion against a long-term unfavorable trend.

We measure utilities' financial health by looking at cash and other liquid reserves, the burden that debt places on operations, and the magnitude by which revenues are sufficient to meet expenditures.

## Subfactor 2a: Annual debt service coverage (15%)

## Input: Most recent year's net revenues divided by most recent year's debt service, expressed as a multiple

Debt service coverage is a core statistic assessing the financial health of a utility revenue system. The magnitude by which net revenues are sufficient to cover debt service shows a utility's margin to tolerate business risks or declines in demand while still assuring repayment of debt. Higher coverage levels indicate greater flexibility to withstand volatile revenues, unexpected outflows, or customer resistance to higher rates.

Utilities usually enter into a rate covenant under which they pledge to achieve a given level of debt service coverage each year. The covenant ensures that the utility utilizes its assets to generate sufficient income to pay bondholders.

The analysis of a utility system's debt service coverage demands ample context. If debt service escalates in future years, then the utility's current net revenues may be sufficient to cover debt service this year, but not in the future. Systems with greater revenue stability can operate comfortably at lower coverage levels. Systems with greater capital needs are likely to incur more debt, which will lead to increased debt service and decreased coverage. The debt service coverage calculation is the basis for a comprehensive analysis of a utility's financial flexibility and trend over the long term.

Rate covenants define a calculation method. These calculation methods vary, for example in the inclusion or exclusion of connection fees. Our coverage calculation will frequently differ from the coverage utilities report for purposes of complying with their rate covenants. Frequently, our analysis will consider several types of coverage, including maximum annual debt service (MADS) coverage, annual debt service coverage, coverage with and without connection fees, and coverage as calculated for the rate covenant. For entry on the scorecard, we include connection fees (when pledged) in revenues, recognizing that these are pledged revenues that are usually generated annually and are an important source of funding for expansion. If connection fees are particularly volatile, or if they represent an inordinate share of revenues, we may adjust below the line.

## Subfactor 2b: Days cash on hand (15%)

# Input: Unrestricted cash and liquid investments times 365 divided by operating and maintenance expenses, expressed in days

Cash is the paramount resource utilities have to meet expenses, cope with emergencies, and navigate business interruptions. Utilities with a lot of cash and cash equivalents are able to survive temporary disruptions and cash flow shortfalls without missing important payments. A large cash balance can also partially compensate for the lack of a debt service reserve fund. A low cash balance indicates poor flexibility to manage contingencies.

We include in this measure any cash or cash-equivalent that is both unrestricted and liquid. The measure does not include cash held in a debt service reserve fund, unspent bond proceeds, or cash that is restricted for capital.

### Subfactor 2c: Debt to operating revenues (10%)

## Input: Net debt divided by most recent year's operating revenues, expressed as a multiple

A utility's debt profile determines its leverage and fixed costs. Systems that carry a lot of debt have less ability to reduce costs if demand shrinks, and are generally more challenged to achieve higher debt service coverage.

A greater debt burden may also prohibit a utility from funding necessary capital upgrades, if a covenant prevents the issuer from incurring the debt necessary to fund those upgrades.

"Net debt" is a utility's long-term debt subtracted by debt service reserve funds.

#### Below-the-line adjustments

Debt service coverage (annual or MADS) below key thresholds: A debt service coverage ratio below 1 times is an important threshold, because coverage below 1 times indicates the utility is not fully covering debt service with income generated from operations. If a utility fails to achieve 1 times coverage, we may adjust the score down to reflect the financial imbalance of the utility's operations. Another key threshold that would likely prompt us to adjust the score down is if coverage were to fall below the utility's coverage covenant, even if that covenant is higher than 1 times. Management's willingness and ability to operate the system for bondholders' benefit is a crucial credit consideration, and a breach of covenant calls that willingness and ability into question. A coverage level that impedes the issuance of additional bonds under the utility's additional bonds covenant could also prompt us to adjust the score down, if we think it would prevent the utility from funding necessary capital upgrades.

*Constrained liquidity position due to oversized transfers*: It is <u>common for utilities to transfer cash</u> to their general governments regularly, either to share overhead costs, make payments in lieu of taxes for occupied property, or to help fund shared infrastructure. It is also common for parent governments to tap utilities' cash to fund General Fund operations. We may notch a utility's score down if these types of transfers are large and begin to strain its own liquidity. We are more likely to make this adjustment if the general government is operationally reliant on utility transfers and has the authority to increase them, particularly if the general government is struggling financially. Even if a utility has never transferred cash to its parent, such transfers remain a possibility<sup>7</sup>, one of the reasons for the relationship between a revenue rating and the GO rating of its general government.

*Outsized capital needs*: A utility with significant capital needs will likely need to incur additional debt not communicated in the existing debt metric. We may adjust the score downward for utilities under regulatory consent decree, or otherwise with great capital needs, that are likely to increase their debt levels.

Oversized adjusted net pension liability relative to debt, or significant actuarial required contribution underpayment: Employees of public utilities are usually members of a municipal pension plan. Most utilities either sponsor their own plan or participate in another entity's plan, and are responsible for funding their share of the plan's pension liabilities. We may adjust the score down if this liability is especially large, or if the utility has underfunded its contributions.

*Significant exposure to puttable debt and/or swaps, or other unusual debt structure*: The risks of a debt portfolio can be magnified if it is significantly composed of puttable debt. Utilities generally set rates with the intention of covering operating expenses and debt service in the current year. A debt put, accelerated amortization under a term-out, or other unexpected calls on a utility's resources can impose

Unless the utility's flow of funds is closed-loop. A closed-loop flow of funds is stronger than an open one for this reason.

immediate and substantial, unbudgeted cash outflows and upend that intention. We may notch a score down, potentially by several notches, if the composition of a debt portfolio, or cash-flow demands or unfavorable valuation of a swap, communicates a greater degree of risk than the existing debt metric. The lesson of Jefferson County, Alabama, which <u>defaulted</u> on puttable sewer warrants in 2008 when they were tendered to their liquidity banks, applies here.

## Factor 3: Management (20%)

EXHIBIT 8						
Management (20%)	Aaa	Aa	Α	Baa	Ва	B and Below
Rate Management (10%)	Excellent rate- setting record; no material political, practical, or regulatory limits on rate increases	Strong rate- setting record; little political, practical, or regulatory limits on rate increases	Average rate- setting record; some political, practical, or regulatory limits on rate increases	Adequate rate- setting record; political, practical, or regulatory impediments place material limits on rate increases	Below average rate-setting record; political, practical, or regulatory impediments place substantial limits on rate increases	Record of insufficiently adjusting rates; political, practical, or regulatory obstacles prevent implementation of necessary rate increases
Regulatory compliance and capital planning (10%)	Fully compliant OR proactively addressing compliance issues; Maintains sophisticated and manageable Capital Improvement Plan that addresses more than a 10-year period	Actively addressing minor compliance issues; Maintains comprehensive and manageable 10-year Capital Improvement Plan	Moderate violations with adopted plan to address issues; Maintains manageable 5- year Capital Improvement Plan	Significant compliance violations with limited solutions adopted; Maintains single year Capital Improvement Plan	Not fully addressing compliance issues; Limited or weak capital planning	Not addressing compliance issues; No capital planning

## Why it matters

If the legal provisions establish the minimum level of financial margin at which a utility must be run, the utility's management determines the actual level at which it is run.

Utility management refers to the dynamics of setting rates, planning for capital spending, budgeting for annual expenditures, and complying with environmental regulations. All of these factors interplay with one another to determine the credit strength of a utility system.

The scorecard captures two crucial aspects of management: rate-setting and capital planning. These two aspects encompass most of what is important in running a utility: keeping the system in good working order, and paying for it.

#### Subfactor 3a: Rate management (10%)

User rates are the primary, and sometimes only, mechanism utilities employ to pay for their operations.

Ideally, rates increase marginally and steadily, rather than choppily. It is common for utilities to split their rates into a "base" charge (flat rate charged to all users) plus a "volumetric" charge (per unit costs based on flow/usage). Utilities funded to a greater extent by the volumetric charge face greater risks, since volume can be economically sensitive or decline because of a shift in consumption patterns.

Management's track record at setting rates appropriately and increasing them when necessary drives this score. We tend to give higher scores to utilities that set rate structures under which increases are automatic, and do not require annual approval for implementation.

Embedded into this factor is the length of time required to implement a rate increase. Many public utilities enjoy the <u>authority to set their own rates</u>, and can enact a rate increase in short order by majority vote of the governing board. Some utilities must give the public a few weeks or months notice before increasing rates, or choose to do so by policy or practice. Some utilities require state approval to increase rates. Utilities that need state approval often have to file a rate case subject to public objection, and in some cases the state takes a long time to approve them or <u>denies the full rate increase</u>.

The longer it takes a utility to implement a rate increase, the less flexibility it has to quickly generate new revenues when faced with cash flow shortfalls.

## Subfactor 3b: Regulatory compliance and capital planning (10%)

The public utility sector is heavily regulated. Most public utilities are regulated by federal as well as state agencies.

The EPA enforces the Safe Drinking Water Act for water distribution utilities, the Clean Water Act for sanitary sewer and stormwater utilities, the Resource Conservation and Recovery Act for solid waste disposal systems, and the Clean Air Act for electric utilities. These statutes, and the methods employed to enforce them, are continually evolving, often intensifying over time. Additionally, many states have passed their own environmental regulations and are active enforcers.

This scorecard factor assesses utilities' compliance with relevant regulations and their plans for the capital expenditures required to comply in the future.

In addition to achieving environmental compliance, proper capital planning ensures the continued delivery of the product or service and the ongoing generation of revenues.

During our reviews, we look for indications of potential compliance gaps, such as environmental litigation, a delay in renewing a permit, or a <u>consent decree</u> with a state or federal enforcement body.

#### Below-the-line adjustments

*Unusually strong or weak capital planning*: Continued violations of environmental laws and the associated litigation can impose extraordinary costs on utilities. We may notch the score down if these costs threaten to overwhelm a system's resources, in the form of a large consent decree, lawsuit, or other costs. Alternately, we may notch the score up if a utility's capital planning is particularly sophisticated or forward-looking. More sophisticated and forward-looking capital management is more important for systems facing resource vulnerability or extreme weather volatility.

## Factor 4: Legal provisions (10%)

Legal Provisions (10%)	Aaa	Aa	Α	Baa	Ba	B and Below
Rate Covenant	> 1.30x	≥ n 1.30x > 1.20x	≥ n 1.20x > 1.10x	≥ n 1.10x > 1.00x	≤	1.00x
(5%)						
Debt Service Reserve Requirement	DSRF funded at MADS	DSRF funded at lesser of standard 3- prong test	DSRF funded at less than 3-prong test OR springing DSRF	NO explicit D speculat	SRF; OR ive grade	funded with surety
(5%)						

#### Why it matters

The legal provisions of a public utility revenue bond form the backbone of its security.

When a municipality assigns its General Obligation pledge to a bond, it has promised to do whatever it has to do to cover debt service, in most cases from any revenues or resources at its disposal.

A utility revenue bond enjoys no such open-ended pledge, making the legal edifice of the bond critical to bondholder security. Most commonly, the legal security for municipal utility revenue bonds is a lien on the net revenues of the system. Occasionally, bondholders enjoy a lien on the gross revenues of a system. We ordinarily do not consider a gross revenue pledge as materially stronger than a net revenue pledge, because systems need to pay operating and maintenance costs in order to remain functional.

The linchpin of a bond's legal structure is its covenants: the legal compulsions the municipal utility agrees to when issuing the bonds.

Utilities abide by many different types of covenants. We consider three to be the most important: the rate covenant, the additional bonds test, and the debt service reserve fund. Also crucial in the analysis of a revenue bond's legal structure is whether the flow of funds is open-loop (accessible by another government entity) or closed.

Strong covenants bind the utility to utilize its assets to benefit bondholders by operating with a comfortable financial margin, not taking on too much debt, and maintaining adequate cash available to pay debt service. Weak or nonexistent covenants allow the utility to operate on a thin margin or even at a net loss, incur a lot of leverage, transfer its money to other government entities, or maintain inadequate cash, in ways that are detrimental to bondholders.

Covenants specify the minimum factors management must legally abide by. Utilities frequently exceed the minimum. Many of our ratings represent the expectation of performance at levels that exceed the covenants.

#### Subfactor 4a: Rate covenant (5%)

Input: Covenant governing net revenues (operating revenues minus operating expenditures net of depreciation) divided by annual debt service, expressed as a multiple

The rate covenant is a legal pledge to set rates such that net revenues will be sufficient to cover debt service at a prescribed level. For example, a covenant may bind a utility to ensure that net revenues

cover debt service by 1.2 times. If net revenues fall short of this covenant in one year, the utility must raise rates to achieve a compliant coverage level the following year.

The rate covenant takes many forms. Some utilities pledge for net revenues to cover current year annual debt service by a given level, others pledge to cover average annual debt service throughout the life of the bonds at that level. A strong coverage requirement would be for net revenues to cover maximum annual debt service (MADS) by a certain level.

Some rate covenant formats are materially weaker than this. Some utilities allow a "rolling" calculation, which includes outstanding cash from prior years' surpluses as part of the resources available to cover debt service. Many rate covenants allow connection fees to be included in available operating revenues.

The above-the-line coverage factor assumes the covenant is an annual debt service coverage calculation. We can adjust for any departures from this format below the line, up or down.

#### Subfactor 4b: Debt service reserve requirement (5%)

#### Input: Debt service reserve requirement

Many issuers agree to hold a specified amount of cash or other resources in a debt service reserve fund (DSRF), which the trustee can tap to pay debt service in the event that net revenues are inadequate. The DSRF covenant ordinarily requires the utility to replenish any draws from the DSRF.

The DSRF protects bondholders by assuring the payment of debt service even if net revenues fall short in one year.

DSRF funds can be funded with cash, or with surety policies from an insurer. We generally consider cash to be superior to a surety, although this is unlikely to materially affect the rating as long as the surety provider is rated investment grade.

One commonly used DSRF requirement is known as the "three-pronged test." Under tax law, the Internal Revenue Service limits the earning of interest on proceeds of a tax-exempt bond unless the invested proceeds comply with the three-pronged test. Under that test, the DSRF must be the lesser of 10% of principal, MADS, or 1.25 times average annual debt service. A DSRF set at the three-pronged test is usually weaker than one funded at MADS.

Recent years have seen a trend of revenue bonds issued without a DSRF. This has resulted in a number of utilities with some bonds secured by a DSRF and other parity bonds secured by the same lien but no DSRF. We have rarely distinguished ratings between these parity bonds. The DSRF is a last-resort security measure, and most utilities comply with their coverage covenants and never have to tap their DSRF. We are most likely to distinguish between DSRF-secured bonds and bonds with no DSRF if the system holds narrow liquidity. A system operating with abundant liquidity can use its operating cash to meet debt service shortfalls, effectively executing a similar function to the DSRF. The combination of narrow liquidity and no DSRF exposes bondholders to greater risks of interrupted debt service payments, and is therefore more likely to be reflected in ratings.

For a utility whose debt is mostly, but not all, secured by a DSRF, we will still enter the DSRF requirement into the scorecard. For a utility whose debt is mostly not secured by a DSRF, we will adjust the DSRF entry downward<sup>8</sup>.

#### Below-the-line adjustments

*Coverage covenant other than annual debt service:* Our input for the coverage covenant assumes the coverage refers to net revenue coverage of annual debt service. A "rolling" coverage covenant that includes outstanding cash, or some other modification that weakens the meaning of the covenant, may prompt us to notch the score down. Conversely, a MADS coverage covenant may prompt us to notch the score up.

*Structural enhancements/complexities*: The scorecard is designed to capture covenants as they are most commonly constituted, but cannot account for the myriad structures and complexities that arise in bond transactions throughout the sector. Enhancements such as a lock-box structure for debt service may lead us to notch the score up. Other shortcomings, such as a weak additional bonds test or the inclusion of cash in a coverage covenant, may lead us to notch the score down. Any characteristic of the legal provisions of a bond transaction may lead us to conclude that the scorecard does not adequately capture its risk profile.

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For example, if 1/3 of a utility's debt is secured by a DSRF funded at MADs and 2/3 is not secured by a DSRF at all, we may enter the DSRF requirement as a Baa.

## Moody's Treatment of Different Liens on a US Municipal Utility's Net Revenues

It is common for utilities to issue debt secured by different liens on their net revenues. Senior bonds are secured by a first lien on net revenues, and subordinate bonds or loans secured by a subordinate, or junior, lien. Sometimes, utilities will issue debt secured by a third lien or lower.

Our practice is to evaluate the likelihood of default and the expected recovery in the event of default for each lien independently.

This will most commonly result in a rating distinction of one notch for each lien of subordination. In other words, if a municipal utility's senior lien is rated Aa3, its subordinate lien will most likely be rated A1 and the third lien will most likely be rated A2.

The reason for the typical one-notch-per-lien distinction is that subordinate liens are marginally more likely to default than senior liens, and subordinate liens' expected recovery in the event of default would be lower. Senior liens are typically afforded stronger legal protections under utilities' indentures, senior-lien debt service is usually paid earlier in the flow of funds, and the first lien would likely enjoy a better claim in bankruptcy.

For most investment grade municipal utilities, the probability of default for any lien is small, and so the notching distinction is driven primarily by a greater expected loss severity in the unlikely event of a default. This is comparable to our approach for <u>ratings distinctions for different debt classes of investment grade</u> <u>corporations</u>, where ratings distinctions are driven by differences in expected loss severities. In contrast to corporates, however, there often is not an explicit cross-default of senior municipal debt in the event of a subordinate payment default.

In some instances, we may conclude that an investment grade municipal utility's subordinate lien has a default probability and expected loss severity that is nearly as low or just as low as the senior lien (in which case we may not make a ratings distinction), or a default probability and expected loss severity that is materially higher than the senior lien (in which case we may make a ratings distinction of more than one notch).

Such a conclusion would be based on the municipal utility's management of its system with respect to its liens, and the characteristics of the legal framework governing the liens: rate covenants, additional debt provisions, and cross-default and acceleration provisions in a senior lien's variable rate debt resulting from a default on the subordinate lien, for example. If a utility has only a very small amount of senior lien debt, we may choose not to distinguish between liens.

The distinctions among a municipal utility's liens become more stark when it faces a material likelihood of default or bankruptcy. For these situations, the different characteristics of the liens are likely to drive greater disparities in default probabilities and expected recoveries for disparate liens. Thus, we are more likely to employ ratings distinctions other than one notch for speculative grade municipal utilities' different liens as the Loss Given Default approach drives more of the analysis.

In nearly all instances, the ratings on the different liens of the same utility will remain closely related. The reason for this is that municipal utilities are actively managed enterprises that continually need to generate net revenues sufficient not only to cover debt service but to fund capital needs. Even if senior lien coverage is strong, a utility that is unable to pay its junior lien debt service is not generating excess funds for capital investment and does not have capacity for capital borrowing. Thus, while subordinate liens face greater default probability and higher loss expectations based on their first-loss positions, an increased likelihood of default on a subordinate lien implies an increased likelihood of insolvency for the utility as a whole.

For this reason, we enter the debt-oriented inputs into the scorecard on a consolidated basis. For the debt to revenues factor, we enter total debt (senior and junior). For the debt service coverage factor, we enter total debt service coverage. It's the municipal utility's ability to cover all of its debt service with net revenues that determines its viability as a going concern. Even for a senior lien with a large coverage factor by net revenues, a narrow coverage of all debt service implies pressure to maintain healthy operations and generate funds sufficient for capital reinvestment.

# Appendix A: Municipal Utility Revenue Bond Scorecard

EXHIBIT 10							
		Aaa	Aa	Α	Baa	Ba	B and Below
Numerical score		0.5 to 1.5	1.5 to 2.5	2.5 to 3.5	3.5 to 4.5	4.5 to 5.5	5.5 to 6.5
System Charae	cteristics (30%)	1					
Asset Condition (10%)	Net Fixed Assets/Annual Depreciation :	> 75 years	75 years ≥ n > 25 years	25 years ≥ n > 12 years	12 years ≥ n > 9 years	9 Years ≥ n > 6 Years	≤ 6 Years
Service Area Wealth (12.5%)	)	> 150% of US median	150% ≥ US median > 90%	90% ≥ US median > 75%	75% ≥ US median > 50%	50% ≥ US median > 40%	$\leq$ 40% of US median
System Size (7.5%)	Water and/or Sewer/ Solid Waste:	O&M > \$65M	\$65M ≥ O&M > \$30M	\$30M ≥ O&M > \$10M	\$10M ≥ O&M > \$3M	\$3M≥O&M>\$1M	O&M ≤ \$1M
	Stormwater:	O&M > \$30M	\$30M ≥ O&M > \$15M	\$15M ≥ O&M > \$8M	\$8M≥O&M>\$2M	\$2M ≥ O&M > \$750K	O&M ≤ \$750K
	Gas or Electric:	O&M > \$100M	\$100M ≥ O&M > \$50M	\$50M ≥ O&M > \$20M	\$20M ≥ O&M > \$8M	\$8M≥O&M>\$3M	O&M ≤ \$3M
Financial Strer	ngth (40%)						
Annual Debt Se (15%)	ervice Coverage	> 2.00x	2.00x ≥ n > 1.70x	1.70x ≥ n > 1.25x	1.25x ≥ n > 1.00x	1.00x ≥ n > 0.70x	≤ 0.70x
Days Cash on Hand (15%)		> 250 Days	250 Days ≥ n > 150 Days	150 Days ≥ n > 35 Days	35 Days ≥ n > 15 Days	15 Days ≥ n > 7 Days	≤ 7 Days
Debt to Operating Revenues (10%)		< 2.00x	2.00x < n ≤ 4.00x	4.00x < n ≤ 7.00x	7.00x < n ≤ 8.00x	8.00x < n ≤ 9.00x	≥ 9.00x
Management (	(20%)						
Rate Management (10%)		Excellent rate-setting record; no material political, practical, or regulatory limits on rate increases	Strong rate-setting record; little political, practical, or regulatory limits on rate increases	Average rate- setting record; some political, practical, or regulatory limits on rate increases	Adequate rate- setting record; political, practical, or regulatory impediments place material limits on rate increases	Below average rate- setting record; political, practical, or regulatory impediments place substantial limits on rate increases	Record of insufficiently adjusting rates; political, practical, or regulatory obstacles prevent implementation of necessary rate increases
Regulatory Compliance and Capital Planning (10%)		Fully compliant OR proactively addressing compliance issues; Maintains sophisticated and manageable Capital Improvement Plan that addresses more than a 10-year period	Actively addressing minor compliance issues; Maintains comprehensive and manageable 10-year Capital Improvement Plan	Moderate violations with adopted plan to address issues; Maintains manageable 5-year Capital Improvement Plan	Significant compliance violations with limited solutions adopted; Maintains single year Capital Improvement Plan	Not fully addressing compliance issues; Limited or weak capital planning	Not addressing compliance issues; No capital planning
Legal Provision	ns (10%)						
Rate Covenant (5%)		> 1.30x	1.30x ≥ n > 1.20x	1.20x ≥ n > 1.10x	1.10x ≥ n > 1.00x	≤ <sup>2</sup>	1.00x <sup>9</sup>
Debt Service Reserve Requirement (5%)		DSRF funded at MADS	DSRF funded at lesser of standard 3-prong test	DSRF funded at less than 3-prong test OR springing DSRF	NO explicit DSRF;	OR funded with spec	culative grade surety <sup>10</sup>

<sup>9</sup> Scores as a Ba.

<sup>10</sup> Scores as a Baa.

## Adjustments/Notching Factors

#### Factor 1: System Characteristics

Additional service area economic strength or diversity

Significant customer concentration

Revenue-per-Customer greatly over/under regional average

Exposure to weather volatility or extreme conditions

Resource vulnerability (1/3 or greater)

Sizable or insufficient capacity margin

Weak depreciation/reinvestment practices relative to industry norms

Other analyst adjustment to System Characteristics (Specify)

#### Factor 2: Financial Strength

Debt Service Coverage (Annual or MADS) below key thresholds: Additional Bonds Test and 1.00x coverage

Constrained liquidity position due to oversized transfers

Outsized capital needs

Oversized ANPL relative to debt or significant ARC under-payment

Significant exposure to puttable debt and/or swaps or other unusual debt structure

Other analyst adjustment to Financial Strength factor (Specify)

Factor 3: Legal Provisions

Structural Enhancements/Complexities

Other analyst adjustment to Legal Provisions factor (Specify)

Factor 4: Management

Unusually strong or weak operational or capital planning

Other analyst adjustment to Management factor (Specify)

#### Other

Credit Event/Trend not yet reflected in existing data set

Indicated Rating	Overall Weighted Score
Aaa	0.5 to 1.5
Aa1	1.5 to 1.83
Aa2	1.83 to 2.17
Aa3	2.17 to 2.5
A1	2.5 to 2.83
A2	2.83 to 3.17
A3	3.17 to 3.5
Baa1	3.5 to 3.83
Baa2	3.83 to 4.17
Baa3	4.17 to 4.5
Ba1	4.5 to 4.83
Ba2	4.83 to 5.17
Ba3	5.17 to 5.5
B1	5.5 to 5.83
B2	5.83 to 6.17
B3	6.17 to 6.5

## **Outlier Discussion**

Out of approximately 1,080 municipal utilities rated under this methodology, there are eight significant outliers (defined as two broad rating categories, or six notches) when comparing the grid-indicated rating to the actual rating. Of these, seven are rated two broad categories higher than the grid-indicated rating and one is rated two broad categories lower. Most of these ratings have been placed under review at this time.

We expect outliers on single subfactors in our grid to appear frequently, as the grid is meant to capture a large and fragmented universe with many sectors and issuers with idiosyncratic properties. For most subfactors, we would not expect a single outlier score to play an outsize role in determining the rating. For certain subfactors (e.g., debt service coverage, cash on hand, and debt to revenues), single-factor outliers may represent significant credit pressure that could play a substantial role in determining the final rating. Indeed, 49 ratings have been placed under review at this time due to outlier scores on one or more of these factors.

The following are some comments on the frequency and effect of outliers in our subfactor scores:

### Asset condition ratio

Approximately 2% of our rated municipal utilities score as outliers on this subfactor, with the majority of those scoring significantly lower than their actual rating. One factor that may skew this score is the use of disparate depreciation schedules, a practice we will address below the line. We would not expect single-factor outliers for this subfactor by itself to significantly drive ratings.

### Size

Approximately 28% of our rated municipal utilities score as outliers on this subfactor, with nearly all of those scoring significantly lower than their actual rating. Although many utilities score as outliers on this subfactor, the subfactor scores lead to a generally close fit for grid-indicated ratings overall. We would not expect single-factor outliers for this subfactor by itself to significantly drive ratings.

#### Median family income

Approximately 2% of our rated municipal utilities score as outliers on this subfactor, with the majority of those scoring significantly lower than their actual rating. We would not expect single-factor outliers for this subfactor by itself to significantly drive ratings.

#### Coverage

Approximately 7% of our rated municipal utilities score as outliers on this subfactor, with the majority of those scoring significantly lower than their actual rating. This is one subfactor that we would expect to significantly drive ratings for single-factor outliers, to the downside. Consistently narrow debt service coverage represents a credit pressure that is unlikely to be fully offset by other positive factors.

### Cash on hand

Approximately 5% of our rated municipal utilities score as outliers on this subfactor, with those roughly split between positive and negative outliers. This is another subfactor that we would expect to significantly drive ratings for single-factor outliers, to the downside. A narrow cash position represents credit pressure that may not be fully offset by other positive factors.

## Debt to operating revenues

Approximately 6% of our rated municipal utilities score as outliers on this subfactor, with those roughly split between positive and negative outliers. This is the third subfactor that we would expect to significantly drive ratings for single-factor outliers, to the downside. An inordinately heavy debt burden may represent credit pressure that may not be fully offset by other positive factors.

#### **Rate covenant**

Approximately 7% of our rated municipal utilities score as outliers on this subfactor. Nearly all of these are utilities with either sum sufficient rate covenants or without rate covenants requiring sum sufficient coverage. In some cases, such as utilities with sum sufficient coverage covenants or weaker, this factor may significantly drive ratings.

## Debt service reserve requirement

Approximately 9% of our rated municipal utilities score as outliers on this subfactor. Most of these are utilities without a debt service reserve requirement, or with a debt service reserve fund funded by a speculative grade surety. We would not expect single-factor outliers for this subfactor by itself to significantly drive ratings.

» contacts continued from page 1

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# MOODY'S INVESTORS SERVICE

# **PACKET MATERIALS**

DATE <u>April 10, 2017</u> Item No. <u>6</u>

# REVENUE BOND OVERSIGHT COMMITTEE AGENDA PACKET CONTENTS LIST

February 13, 2017, Meeting Minutes x March 6, 2017, Meeting Minutes Ă 

Completed by: <u>Derek Evans</u> Date: <u>April 4, 2017</u>

(This list reflects the explanatory documents provided.)



# PUBLIC UTILITIES REVENUE BOND OVERSIGHT COMMITTEE CITY AND COUNTY OF SAN FRANCISCO MINUTES - DRAFT

Public Utilities Commission Building 525 Golden Gate Ave., 2<sup>nd</sup> Floor Yosemite Conference Room San Francisco, CA 94102

February 13, 2017 - 9:00 AM

# **Regular Meeting**

**Mission:** The purpose of the Revenue Bond Oversight Committee (RBOC) is to monitor the expenditure of revenue bond proceeds related to the repair, replacement, upgrade and expansion of the SFPUC's water, power and sewer infrastructure. The RBOC's goal is to ensure that specific SFPUC revenue bond proceeds are spent appropriately and according to authorization and applicable laws. The RBOC provides oversight to ensure transparency and accountability in connection with expenditure of the proceeds. The public is welcome to attend RBOC meetings and provide input.

# 1. Call to Order and Roll Call

- Seat 1 Holly Kaufman (Holdover status)
- Seat 2 Kevin Cheng, Chair (Holdover status)
- Seat 3 Robert Leshner
- Seat 4 Tim Cronin
- Seat 5 Travis George
- Seat 6 Christina Tang, Vice Chair
- Seat 7 Jadie Wasilco

Chair Cheng called the meeting to order at 9:07 a.m. On the call of the roll, Chair Cheng, Vice Chair Tang, Members Cronin, George and Kaufman were noted present. Members Leshner and Wasilco were noted not present. There was a quorum.

Member Leshner was noted present at 9:32 a.m.

# 2. Agenda Changes

There were no agenda changes.

3. **Public Comment:** Members of the public may address the Revenue Bond Oversight Committee (RBOC) on matters that are within the RBOC's jurisdiction but are not on today's agenda.

Public Comment. Speakers: There were none.

4. **Strategic Planning Follow Up:** 2017 Strategic Issues, 2017 Work Plan and Schedule, Strategic Planning Summary and Next Steps

Chair Cheng introduced strategic planning facilitator Carmen Clark, who provided a review of the strategic planning meeting and discussing strategic issues/directions for the committee, the schedule for 2017, and upcoming meeting discussions, including the following: (1) succession planning; (2) staff report on assurance of project expenditure compliance with bond requirements; (3) staying informed of Mountain Tunnel project development and costs; (4) monitoring Calaveras Dam progress; (5) scope and budget for Wastewater issues (e.g., protection of flood prone areas and Bayside tunnel capacity); (6) alternative project delivery methods including design/build; (7) green infrastructure implementation and status; (8) ensuring appropriate project eligibility and how the project supports the agency's mission; (9) depth and breadth of oversight needed by RBOC; (10) capital planning and managing credit rating/debt costs, ratio of cash/debt funding; and (11) rate design presentation.

Public Comment. Speakers: None.

5. San Francisco Public Utilities Commission (SFPUC) Staff Report: Mountain Tunnel 101 Presentation, including overview of the issue, how it is being addressed, project update, project scope and budget, why Mountain Tunnel was not included as part of WSIP, possibility of inclusion in WSIP, project going forward

Steven Ritchie, Assistant General Manager of Water Enterprise (SFPUC); provided an update of the Mountain Tunnel project, including the following: overview of regional water system; wholesale customers; Mountain Tunnel background; Mountain Tunnel update summary and overview; Priest Portal opening; tunnel inspection work completed; tunnel adits and access improvements; interim repairs; January/February calendar for improvements, inspection support and interim repairs; and decision on long-term improvements. Dan Wade, WSIP Director; and Richard Morales, Debt Manager (SFPUC); provided information and responded to questions raised throughout the discussion.

Public Comment. Speakers: None.

# 6. San Francisco Public Utilities Commission (SFPUC) Staff Report: Environmental Justice Update

*Mike Brown (SFPUC); responded to questions raised throughout the discussion and further requested additional instruction from the Committee for presentation.* 

Public Comment. Speakers: None.

# 7. San Francisco Public Utilities Commission (SFPUC) Staff Report: Recent Water Bond Sales Results

Richard Morales, Debt Manager; and Mike Brown (SFPUC); discussed the results of recent water bond sales, including the following: two water bond sales in 2016; AB

water revenue bond refunding; marketing the AB bonds; historically low rates; challenging market conditions; refunding debt service savings; series 2016C water revenue bonds (green bonds); and water credit ratings. Charles Perl, Deputy Chief Financial Officer (SFPUC); and Mark Blake, Deputy City Attorney; provided information and responded to questions raised throughout the discussion.

Public Comment. Speakers: None.

# 8. San Francisco Public Utilities Commission (SFPUC) Staff Report: Fund Balance Reserves Policy

Charles Perl, Deputy Chief Financial Officer (SFPUC); provided a presentation on proposed changes to the fund balance reserves policy, including the following: a background and review of the financial policy; financial policy review timeline; reserve policy objectives; existing fund balance reserve policy; peer group study findings; peer survey for operating reserve targets; proposed changes to fund balance reserve policy; and reserves in current 10-year plan. Richard Morales, Debt Manager, and Mike Brown (SFPUC); Mark Blake, Deputy City Attorney; provided information and responded to questions raised throughout the discussion.

Public Comment. Speakers: None.

Member Cronin was noted absent at 11:25 a.m. Member Kaufman was noted absent at 11:32 a.m.

# 9. **Approval of Minutes:** January 23, 2017, Meeting Minutes

Public Comment. Speakers: None.

By unanimous consent the Committee moved that the January 23, 2017, Meeting Minutes be APPROVED. The motion passed by the following vote: Ayes: 4 - Cheng, George, Leshner and Tang Absent: 3 - Cronin, Kaufman, and Wasilco

# 10. **2016 Annual Report Finalization and Approval**

Public Comment. Speakers: None.

By unanimous consent the Committee moved that the 2016 Annual Repot be APPROVED. The motion passed by the following vote: Ayes: 4 - Cheng, George, Leshner and Tang Absent: 3 - Cronin, Kaufman, and Wasilco

# 11. Election of Officers

Public Comment. Speakers: None.

By unanimous consent the Committee moved that the Election of Officer be CONTINUED to the March 6, 2017, RBOC meeting. The motion passed by the following vote:

Ayes: 4 - Cheng, George, Leshner and Tang Absent: 3 - Cronin, Kaufman, and Wasilco

# 12. Announcements, Comments, Questions, and Future Agenda Items

The Committee approved by finalization of the annual report the following regular meeting schedule for calendar year 2017:

- 1. Monday, January 23, 2017
- 2. Monday, February 13, 2017
- 3. Monday, March 6, 2017
- 4. Monday, April 10, 2017
- 5. Monday, May 8, 2017
- 6. Monday, June 12, 2017
- 7. Monday, July 17, 2017
- 8. Monday, August 7, 2017
- 9. Monday, September 18, 2017
- 10. Monday, October 16, 2017
- 11. Monday, November 6, 2017
- 12. Monday, December 11, 2017

Results are included in these minutes of the poll conducted by Derek Evans, Assistant Clerk of the Board of Supervisors, with RBOC Members to determine member leads on 2017 issues of interest to the Committee

Public Comment. Speakers: None.

# 13. Adjournment

There being no further business, the meeting adjourned at 11:45 a.m.

N.B. The Minutes of this meeting set forth all actions taken by the Revenue Bond Oversight Committee on the matters stated but not necessarily in the chronological sequence in which the matters were taken up.

# 2017 STRATEGIC PLANNING ISSUES – Member Leads

Member leads volunteered at the strategic planning session to spearhead these issues by (1) providing how it is addressed, and (2) providing next steps.

- Succession planning for RBOC need for continuity and predictable turnover; maintain short list of candidates, encourage early notice of resignation, possible commitment to two terms (CHENG)
- 2. Report to RBOC from staff to show assurance of project expenditure compliance with bond requirements (GEORGE) (LESHNER)
- Mountain Tunnel project how to keep informed on project development and costs (CHENG) (TANG)
- 4. Calaveras Dam monitoring progress (CHENG) (TANG)
- 5. Wastewater Issues need scope and budget for protection of flood prone areas in the city, Bayside tunnel capacity (LESHNER) (WASILCO)
- 6. Alternative project delivery methods including design/build (CRONIN) (WASILCO)
- 7. Green infrastructure implementation status (KAUFMAN) (CRONIN)
- 8. How to insure appropriate project eligibility and how the project supports the agency's mission (GEORGE) (LESHNER)
- Depth and breadth of oversight needed by RBOC purpose is to avoid significant nonperformance or cost overruns, including expected performance of completed projects (TANG) (CRONIN)
- 10. Seminar on capital planning managing credit rating/debt costs, ratio of cash/debt funding, possible changes to financial strategy in fixed rate/variable rate mix (GEORGE)
- 11. Rate design presentation needed from staff (GEORGE) (Mike Brown to present on this)
- 12. Environmental Justice (KAUFMAN) (CRONIN)



# PUBLIC UTILITIES REVENUE BOND OVERSIGHT COMMITTEE CITY AND COUNTY OF SAN FRANCISCO MINUTES - DRAFT

Public Utilities Commission Building 525 Golden Gate Ave., 2<sup>nd</sup> Floor Yosemite Conference Room San Francisco, CA 94102

March 6, 2017 - 9:00 AM

# **Regular Meeting**

**Mission:** The purpose of the Revenue Bond Oversight Committee (RBOC) is to monitor the expenditure of revenue bond proceeds related to the repair, replacement, upgrade and expansion of the SFPUC's water, power and sewer infrastructure. The RBOC's goal is to ensure that specific SFPUC revenue bond proceeds are spent appropriately and according to authorization and applicable laws. The RBOC provides oversight to ensure transparency and accountability in connection with expenditure of the proceeds. The public is welcome to attend RBOC meetings and provide input.

# 1. Call to Order and Roll Call

- Seat 1 Holly Kaufman (Holdover status)
- Seat 2 Kevin Cheng, Chair (Holdover status)
- Seat 3 Robert Leshner
- Seat 4 Tim Cronin
- Seat 5 Travis George
- Seat 6 Christina Tang, Vice Chair
- Seat 7 Jadie Wasilco

Chair Cheng called the meeting to order at 9:06 a.m. On the call of the roll, Chair Cheng and Members Cronin, George, Leshner and Wasilco were noted present. Vice Chair Tang and Member Kaufman were noted not present. There was a quorum.

Vice Chair Tang was noted present at 9:35 a.m.

# 2. Agenda Changes

There were no agenda changes.

3. **Public Comment:** Members of the public may address the Revenue Bond Oversight Committee (RBOC) on matters that are within the RBOC's jurisdiction but are not on today's agenda.

Public Comment. Speakers: There were none.

4. **San Francisco Public Utilities Commission (SFPUC) Staff Report:** Sewer System Improvement Program (SSIP) - Alternative Project Delivery on SSIP Projects

Karen Kubick, SSIP Director, and Martin Dorward (SFPUC); provided an overview of the Alternative Project Delivery Selection for the Sewer System Improvement Program, including the following: Alternative Project Delivery (APD) Methods Overview and Analysis, design-build advantages, San Francisco Administrative Code requirements, APD on Previous SFPUC Projects, Lessons Learned in Southeast Program Cogeneration and Tesla Water Treatment Plant, SFPUC Headquarters Lessons Learned, project development and review, identifying APD candidate projects, APD selection criteria, APD Decisions for Sewer System Improvement Program SSIP Projects, Southeast project digester roof repairs, Southeast project new headworks (grit) replacement, distributed control system upgrades, biosolids digester facilities project, Bay Corridor transmission and distribution, and Treasure Island wastewater facilities. Mark Blake, Deputy City Attorney; provided information and responded to questions and answers throughout the discussion.

Public Comment. Speakers: There were none.

5. San Francisco Public Utilities Commission (SFPUC) Staff Report: Generic Rating Process (*Discussion*)

Public Comment. Speakers: There were none.

By unanimous consent, the Committee CONTINUED this item to the April 10, 2017, Revenue Bond Oversight Committee meeting.

Chair Cheng requested Items 6 and 7 be called together.

6. **San Francisco Public Utilities Commission (SFPUC) Staff Report:** Capital Financing Policy (*Discussion*)

Richard Morales, Debt Manager (SFPUC); responded to questions raised throughout the discussion and provided an overview of SFPUC Capital Financing Policy and Debt Service Coverage Policy, including the following: financial policy review and timeline, debt service coverage and capital financing policy objectives, explanation of debt service coverage (DSC) and requirements, weaknesses of the SFPUC DSC requirements, water enterprise DSC, pros and cons of revenue versus debt, peer group study findings, DSC rations in current draft 10-year plans, and current revenue-funded share.

Public Comment. Speakers: There were none.

7. San Francisco Public Utilities Commission (SFPUC) Staff Report: Debt Service Coverage Policy (*Discussion*)

Richard Morales, Debt Manager (SFPUC); responded to questions raised throughout the discussion and provided an overview of SFPUC Capital Financing Policy and Debt Service Coverage Policy, including the following: financial policy review and timeline, debt service coverage and capital financing policy objectives, explanation of debt service coverage (DSC) and requirements, weaknesses of the SFPUC DSC requirements, water enterprise DSC, pros and cons of revenue versus debt, peer group study findings, DSC rations in current draft 10-year plans, and current revenue-funded share.

Public Comment. Speakers: There were none.

8. **San Francisco Public Utilities Commission (SFPUC) Staff Report:** Environmental Justice Update – Next Steps *(Discussion)* 

Richard Morales, Debt Manager (SFPUC); responded to questions raised throughout the discussion and introduced External Affairs Bureau staff. Yolandra Manzone, Environmental Justice and Land Use Analyst, Community Benefits Program (SFPUC); provided an overview of the SFPUC environmental justice (EJ) policy, including a history of environmental justice, goals for the EJ policy implementation, EJ guiding principles, EJ implementation framework, and the implementation of pilots.

Public Comment. Speakers: There were none.

9. **Approval of Minutes:** February 13, 2017, Meeting Minutes (*Discussion and Action*) (*Attachment*)

Chair Cheng requested that the Minutes include the results of the results of a poll conducted by Derek Evans, Assistant Clerk of the Board of Supervisors, with RBOC Members for member leads on 2017 issues of interest to the Committee. The results have been included in the February 13, 2017, meeting minutes.

Public Comment. Speakers: There were none.

By unanimous consent, the Committee CONTINUED this item to the April 10, 2017, Revenue Bond Oversight Committee meeting.

# 10. **Election of Officers** (*Discussion and Action*)

Chair Cheng proposed two co-chairs and one vice-chair be considered at the Election of Officers and further requested the item be continued to the next meeting.

Public Comment. Speakers: There were none.

By unanimous consent, the Committee CONTINUED this item to the April 10, 2017, Revenue Bond Oversight Committee meeting.

## 11. Announcements, Comments, Questions, and Future Agenda Items

The tentative schedule for upcoming regular meetings is included below.

Public Comment. Speakers: There were none.

<u>April 10, 2017</u>

- 1. Assurance of bond compliance and first quarter financial reports
- 2. Discussion on generic rating process
- 3. Approval of Minutes: February 13, 2017, and March 6, 2017
- 4. Election of Officers

## <u>May 8, 2017</u>

- 1. WSIP update
- 2. Ratemaking 101
- 3. Avoiding major cost overruns options for consulting assistance in "deep dives"
- 4. Presentation on consultants' pool City Services Auditor
- 5. Debt Management Policies and Procedures including Green bonds
- 6. Review RBOC account/budget

## <u>June 12, 2017</u>

- 1. SSIP update Collection System Plan
- 2. Depth/breadth of RBOC oversight activities
- 3. Environmental Justice Update

## <u>July 17, 2017</u>

- 1. WSIP update staff report
- 2. Green infrastructure

## <u>August 7, 2017</u>

1. Half day field trip/site visit – location TBD, possible locations: Mountain Tunnel, Calaveras Dam, Southeast Plant

## September 18, 2017

- 1. Follow up to May discussion on avoiding major costs overruns and consultant pool info
- 2. Review RBOC account/budget

## October 16, 2017

- 1. WSIP update
- 2. Seminar on capital planning

## November 6, 2017

1. SSIP update

December 11, 2017

1. Clean Power/Power Enterprise presentation

## 12. Adjournment

There being no further business, the meeting adjourned at 11:20 a.m.

N.B. The Minutes of this meeting set forth all actions taken by the Revenue Bond Oversight Committee on the matters stated but not necessarily in the chronological sequence in which the matters were taken up.

# **PACKET MATERIALS**

DATE <u>April 10, 2017</u> Item No. <u>7</u>

# REVENUE BOND OVERSIGHT COMMITTEE AGENDA PACKET CONTENTS LIST

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Completed by: <u>Derek Evans</u> Date: <u>April 4, 2017</u>

(This list reflects the explanatory documents provided.)

## Section 6. Committee Office

For purposes of contacting the Committee, the Committee office will be physically located at 525 Golden Gate Avenue, 4<sup>th</sup> Floor. The Committee's mailing address is 525 Golden Gate Avenue, 4<sup>th</sup> Floor, San Francisco, California 94102. The Committee's e-mail address is bondoversight@sfwater.org. The Committee's phone number is: (415) 487-5245.

## ARTICLE II Officers

## Section 1. Officers

There shall be a Chair and a Vice Chair of the Committee.

## Section 2. Term of Office

The term of each office shall be one year. Officers serve at the pleasure of the Committee and may be removed from office before expiration of their one-year term by a vote of four members of the Committee.

## **Section 3. Election of Officers**

Elections for officers shall be conducted at the first regular meeting of the Committee in each calendar year, or as soon thereafter as practicable as determined by the Committee. The Chair and Vice Chair shall continue in their respective offices until a new election is conducted.

In the event the Chair is unable to complete his or her term of office, the Vice Chair shall serve as Chair until the next regular meeting. At the next regular meeting, the Committee shall elect a new Chair to fill the vacancy for the balance of the unexpired term. In the event the Vice Chair is elected as Chair, there shall be an election for a new Vice Chair at that meeting. If the office of Vice Chair is vacated before the expiration of a term, it shall remain vacant until the next regular meeting, at which time the Committee shall elect a new Vice Chair.

## Section 4. Duties of the Chair

The Chair shall preside at all meetings of the Committee, shall preserve order and decorum, and shall decide all questions of order subject to appeal to the Committee by any member. In addition, the Chair, working with the Committee members and staff, shall oversee the preparation of the agenda for all Committee meetings.

Unless the Committee specifies otherwise, the Chair is empowered to appoint members to standing or special subcommittees formed by the Committee. In addition, as stated in Article III, Section 2, the Chair is empowered to call special meetings.

## Section 5. Duties of the Vice Chair

In the absence of the Chair, the Vice Chair shall preside at meetings of the Committee. In addition, as stated in Article II, Section 3, if the Chair is unable to complete his or her term of office, the Vice Chair shall serve as Chair until the next regular meeting.

In the absence of both the Chair and Vice Chair, the members shall select by motion a member to preside over the meeting.