

**PRELIMINARY OFFICIAL STATEMENT DATED \_\_\_\_\_, 2019**

**NEW ISSUE – BOOK-ENTRY ONLY**

**RATINGS: Moody's: \_\_\_\_\_  
S&P: \_\_\_\_\_  
Fitch: \_\_\_\_\_**

**(See "Ratings" herein)**

*In the opinion of Norton Rose Fulbright US LLP, Los Angeles, California and Amira Jackmon, Attorney at Law, Berkeley, California, Co-Bond Counsel, under existing statutes, regulations, rulings and court decisions, and subject to the matters described in "TAX MATTERS" herein, interest on the 2019C Bonds is excluded from the gross income of the owners thereof for federal income tax purposes and is not included in the federal alternative minimum taxable income of the owners thereof. It is also the opinion of Co-Bond Counsel that under existing law interest on the Bonds is exempt from personal income taxes of the State of California. See "TAX MATTERS" herein. The Bonds will not be designated as "qualified tax-exempt obligations" for financial institutions. [To be updated by Co-Bond Counsel.]*



**[\$C Par Amount]\*  
CITY AND COUNTY OF SAN FRANCISCO  
GENERAL OBLIGATION BONDS  
(CLEAN AND SAFE NEIGHBORHOOD PARKS  
BONDS, 2012)  
SERIES 2019C**

**[\$D Par Amount]\*  
CITY AND COUNTY OF SAN FRANCISCO  
TAXABLE GENERAL OBLIGATION BONDS  
(AFFORDABLE HOUSING, 2015)  
SERIES 2019D**

**Dated: Date of Delivery**

**Due: June 15, as shown in the inside cover**

**This cover page contains certain information for general reference only. It is not intended to be a summary of the security for or the terms of the Bonds. Investors are advised to read the entire Official Statement to obtain information essential to the making of an informed investment decision.**

The City and County of San Francisco (the "City") is issuing its General Obligation Bonds (Clean and Safe Neighborhood Parks Bonds, 2012), Series 2019C (the "2019C Bonds") and its Taxable General Obligation Bonds (Affordable Housing, 2015), Series 2019D (the "2019D Bonds," and together with the 2019C Bonds, the "Bonds") under the Government Code of the State of California and the Charter of the City and County of San Francisco (the "Charter"). The Bonds are being issued pursuant to certain resolutions adopted by the Board of Supervisors of the City and duly approved by the Mayor of the City. The issuance of the 2019C Bonds has been authorized at an election of the registered voters of the City on November 6, 2012, at which more than two-thirds of the persons voting on Proposition B voted to authorize the issuance and sale of the 2019C Bonds. The issuance of the 2019D Bonds has been authorized at an election of the registered voters of the City on November 3, 2015, at which more than two-thirds of the persons voting on Proposition A voted to authorize the issuance and sale of the 2019D Bonds. See "THE BONDS – Authority for Issuance; Purposes." The proceeds of the Bonds will be used to finance certain public improvements as described herein, and to pay certain costs related to the issuance of the Bonds. See "THE BONDS – Authority for Issuance; Purposes" and "SOURCES AND USES OF FUNDS."

The Bonds will be dated and bear interest from their date of delivery until paid in full at the rates shown in the maturity schedule on the inside cover hereof. Interest on the Bonds will be payable on June 15 and December 15 of each year, commencing June 15, 2020. Principal will be paid at maturity as shown on the inside cover. See "THE BONDS – Payment of Interest and Principal." The Bonds will be issued only in fully registered form without coupons, and when issued will be registered in the name of Cede & Co., as nominee of The Depository Trust Company ("DTC"). Individual purchases of the Bonds will be made in book-entry form only, in denominations of \$5,000 or any integral multiple thereof. Payments of principal of and interest on the Bonds will be made by the City Treasurer, as paying agent, to DTC, which in turn is required to remit such principal and interest to the DTC Participants for subsequent disbursement to the beneficial owners of the Bonds. See "THE BONDS – Form and Registration."

**The 2019C Bonds will not be subject to redemption prior to maturity. The 2019D Bonds will be subject to redemption prior to maturity, as described herein. See "THE BONDS – Redemption."**

**The Board of Supervisors at the time of fixing the general tax levy will fix, and in the manner provided for such general tax levy, levy and collect annually until the Bonds are paid, an *ad valorem* tax upon the taxable property of the City, without limitation as to rate or amount, sufficient to pay principal of and interest on the Bonds as they become due. See "SECURITY FOR THE BONDS."**

**BIDS FOR THE PURCHASE OF THE BONDS WILL BE RECEIVED BY THE CITY AT \_\_\_\_\_ A.M. PACIFIC TIME ON \_\_\_\_\_, 2019, AS PROVIDED IN THE OFFICIAL NOTICE OF SALE INVITING BIDS DATED \_\_\_\_\_, 2019, UNLESS POSTPONED AS SET FORTH IN SUCH OFFICIAL NOTICE OF SALE. See "SALE OF THE BONDS" herein.**

**MATURITY SCHEDULE  
(See Inside Cover)**

The Bonds are offered when, as and if issued by the City and accepted by the initial purchasers, subject to the approval of legality by Norton Rose Fulbright US LLP, Los Angeles, California and Amira Jackmon, Attorney at Law, Berkeley, California, Co-Bond Counsel, and certain other conditions. Certain legal matters will be passed upon for the City by its City Attorney and by Hawkins Delafield & Wood LLP,

\* Preliminary, subject to change.

This Preliminary Official Statement and the information contained herein are subject to completion or amendment without notice. Under no circumstances shall this Preliminary Official Statement constitute an offer to sell or the solicitation of an offer to buy, nor shall there be any sale of these securities, in any jurisdiction in which such offer, solicitation, or sale would be unlawful prior to registration or qualification under the securities laws of such jurisdiction.

**PRELIMINARY OFFICIAL STATEMENT DATED \_\_\_\_\_, 2019**

San Francisco, California, Disclosure Counsel. It is expected that the Bonds in book-entry form will be available for delivery through the facilities of DTC on or about \_\_\_\_\_, 2019.

Dated: \_\_\_\_\_, 2019.

This Preliminary Official Statement and the information contained herein are subject to completion or amendment without notice. Under no circumstances shall this Preliminary Official Statement constitute an offer to sell or the solicitation of an offer to buy, nor shall there be any sale of these securities, in any jurisdiction in which such offer, solicitation, or sale would be unlawful prior to registration or qualification under the securities laws of such jurisdiction.

**[\$C Par Amount]\***  
**CITY AND COUNTY OF SAN FRANCISCO**  
**GENERAL OBLIGATION BONDS**  
**(CLEAN & SAFE NEIGHBORHOOD PARKS BONDS, 2012)**  
**SERIES 2019C**

**MATURITY SCHEDULE**  
 (Base CUSIP<sup>†</sup> Number: \_\_\_\_\_)

\$\_\_\_\_\_ Serial Bonds

Maturity Date (June 15)	Principal Amount	Interest Rate	Yield/Price	CUSIP <sup>†</sup> Suffix
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**[\$D Par Amount]\***  
**CITY AND COUNTY OF SAN FRANCISCO**  
**TAXABLE GENERAL OBLIGATION BONDS**  
**(AFFORDABLE HOUSING, 2015)**  
**SERIES 2019D**

**MATURITY SCHEDULE**  
 (Base CUSIP<sup>†</sup> Number: \_\_\_\_\_)

\$\_\_\_\_\_ Serial Bonds

Maturity Date (June 15)	Principal Amount	Interest Rate	Yield/Price	CUSIP <sup>†</sup> Suffix
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\$\_\_\_\_\_ % 2019D Term Bonds due June 15, 20\_\_ Yield/Price \_\_\_\_\_ CUSIP<sup>†</sup> No. \_\_\_\_\_

\* Preliminary, subject to change.

† CUSIP is a registered trademark of the American Bankers Association. CUSIP data herein is provided by CUSIP Global Services, managed by Standard and Poor's Financial Services LLC on behalf of the American Bankers Association. CUSIP numbers are provided for convenience of reference only. The City does not take any responsibility for the accuracy of such numbers.

No dealer, broker, salesperson or other person has been authorized by the City to give any information or to make any representations other than those contained herein and, if given or made, such other information or representation must not be relied upon as having been authorized by the City. This Official Statement does not constitute an offer to sell or the solicitation of an offer to buy nor shall there be any sale of the Bonds by any person, in any jurisdiction in which it is unlawful for such person to make such an offer, solicitation or sale.

This Official Statement is not to be construed as a contract with the purchaser or purchasers of the Bonds. Statements contained in this Official Statement which involve estimates, forecasts or matters of opinion, whether or not expressly so described herein, are intended solely as such and are not to be construed as representations of fact.

The information set forth herein, other than that provided by the City, has been obtained from sources that are believed to be reliable, but is not guaranteed as to accuracy or completeness. The information and expressions of opinion herein are subject to change without notice and neither delivery of this Official Statement nor any sale made hereunder shall, under any circumstances, create any implication that there has been no change in the affairs of the City since the date hereof.

This Official Statement is submitted in connection with the sale of the Bonds referred to herein and may not be reproduced or used, in whole or in part, for any other purpose, unless authorized in writing by the City. All summaries of the documents and laws are made subject to the provisions thereof and do not purport to be complete statements of any or all such provisions.

In connection with the offering of the Bonds, the underwriters may over-allot or effect transactions which stabilize or maintain the market price of the Bonds at levels above that which might otherwise prevail in the open market. Such stabilizing, if commenced, may be discontinued at any time. The underwriters may offer and sell the Bonds to certain dealers and dealer banks at prices lower than the initial public offering prices stated on the inside cover hereof. Such initial public offering prices may be changed from time to time by the underwriters.

This Official Statement contains forecasts, projections, estimates and other forward-looking statements that are based on current expectations. The words “expects,” “forecasts,” “projects,” “intends,” “anticipates,” “estimates,” “assumes” and analogous expressions are intended to identify forward-looking statements. Such forecasts, projections and estimates are not intended as representations of fact or guarantees of results. Any such forward-looking statements inherently are subject to a variety of risks and uncertainties that could cause actual results or performance to differ materially from those that have been forecast, estimated or projected. Such risks and uncertainties include, among others, changes in social and economic conditions, federal, state and local statutory and regulatory initiatives, litigation, population changes, seismic events and various other events, conditions and circumstances, many of which are beyond the control of the City. These forward-looking statements speak only as of the date of this Official Statement. The City disclaims any obligation or undertaking to release publicly any updates or revisions to any forward-looking statement contained herein to reflect any changes in the expectations of the City with regard thereto or any change in events, conditions or circumstances on which any such statement is based.

The issuance and sale of the Bonds have not been registered under the Securities Act of 1933 in reliance upon the exemption provided thereunder by Section 3(a)2 for the issuance and sale of municipal securities.

The City maintains a website. The information presented on such website is *not* incorporated by reference as part of this Official Statement and should not be relied upon in making investment decisions with respect to the Bonds. Various other websites referred to in this Official Statement also are not incorporated herein by such references.



**CITY AND COUNTY OF SAN FRANCISCO**

**MAYOR**

London N. Breed

**BOARD OF SUPERVISORS**

Norman Yee, *Board President, District 7*

Sandra Lee Fewer, *District 1*  
Catherine Stefani, *District 2*  
Aaron Peskin, *District 3*  
Gordon Mar, *District 4*  
Vallie Brown, *District 5*

Matt Haney, *District 6*  
Rafael Mandelman, *District 8*  
Hillary Ronen, *District 9*  
Shamann Walton, *District 10*  
Ahsha Safai, *District 11*

**CITY ATTORNEY**

Dennis J. Herrera

**CITY TREASURER**

José Cisneros

**OTHER CITY AND COUNTY OFFICIALS**

Naomi M. Kelly, *City Administrator*  
Benjamin Rosenfield, *Controller*  
Anna Van Degna, *Director, Controller's Office of Public Finance*

**PROFESSIONAL SERVICES**

**Paying Agent and Registrar**

Treasurer of the City and County of San Francisco

**Co-Bond Counsel**

Norton Rose Fulbright US LLP  
*Los Angeles, California*

Amira Jackmon, Attorney at Law  
*Berkeley, California*

**Co-Municipal Advisors**

Public Resources Advisory Group  
*Oakland, California*

Sperry Capital Inc.  
*Sausalito, California*

**Disclosure Counsel**

Hawkins Delafield & Wood LLP  
*San Francisco, California*



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## OFFICIAL STATEMENT

**[\$[C Par Amount]\***  
**CITY AND COUNTY OF SAN FRANCISCO**  
**GENERAL OBLIGATION BONDS**  
**(CLEAN AND SAFE NEIGHBORHOOD**  
**PARKS BONDS, 2012)**  
**SERIES 2019C**

**[\$[D Par Amount]\***  
**CITY AND COUNTY OF SAN FRANCISCO**  
**TAXABLE GENERAL OBLIGATION BONDS**  
**(AFFORDABLE HOUSING, 2015)**  
**SERIES 2019D**

### INTRODUCTION

This Official Statement, including the cover page and the appendices hereto, is provided to furnish information in connection with the public offering by the City and County of San Francisco (the “City”) of its City and County of San Francisco General Obligation Bonds (Clean and Safe Neighborhood Parks Bonds, 2012), Series 2019C (the “2019C Bonds”) and the City and County of San Francisco Taxable General Obligation Bonds (Affordable Housing, 2015), Series 2019D (the “2019D Bonds,” and together with the 2019C Bonds, the “Bonds”). The Board of Supervisors at the time of fixing the general tax levy will fix, and in the manner provided for such general tax levy, levy and collect annually until the Bonds are paid, an *ad valorem* tax upon the taxable property of the City, without limitation as to rate or amount, sufficient to pay principal of and interest on the Bonds as they become due. See “SECURITY FOR THE BONDS.”

This Official Statement speaks only as of its date, and the information contained herein is subject to change. Except as required by the Continuing Disclosure Certificate to be executed by the City with respect to the Bonds, the City has no obligation to update the information in this Official Statement. See “CONTINUING DISCLOSURE” and APPENDIX D – “FORM OF CONTINUING DISCLOSURE CERTIFICATE” herein.

Quotations from and summaries and explanations of the Bonds, the resolutions providing for the issuance and payment of the Bonds, and provisions of the constitution and statutes of the State of California (the “State”), the charter of the City (the “Charter”) and City ordinances, and other documents described herein, do not purport to be complete, and reference is made to said laws and documents for the complete provisions thereof. Copies of those documents and information concerning the Bonds are available from the City through the Controller’s Office of Public Finance, 1 Dr. Carlton B. Goodlett Place, Room 336, San Francisco, California 94102-4682. Reference is made herein to various other documents, reports, websites, etc., which were either prepared by parties other than the City, or were not prepared, reviewed and approved by the City with a view towards making an offering of public securities, and such materials are therefore not incorporated herein by such references nor deemed a part of this Official Statement.

### THE CITY AND COUNTY OF SAN FRANCISCO

**General.** The City is the economic and cultural center of the San Francisco Bay Area and northern California. The limits of the City encompass over 93 square miles, of which 49 square miles are land, with the balance consisting of tidelands and a portion of the San Francisco Bay (the “Bay”). The City is located at the northern tip of the San Francisco Peninsula, bounded by the Pacific Ocean to the west, the Bay and the San Francisco-Oakland Bay Bridge to the east, the entrance to the Bay and the Golden Gate Bridge to the north, and San Mateo County to the south. Silicon Valley is about a 40-minute drive to the south, and the wine country is about an hour’s drive to the north. According to the State Department of Finance, the City’s population as of January 1, 2019 was 883,869.

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\* Preliminary, subject to change.

The San Francisco Bay Area consists of the nine counties contiguous to the Bay: Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano and Sonoma Counties (collectively, the “Bay Area”). The economy of the Bay Area includes a wide range of industries, supplying local needs as well as the needs of national and international markets. Major business sectors in the Bay Area include technology, retail, entertainment and the arts, conventions and tourism, service businesses, banking, professional and financial services, corporate headquarters, international and wholesale trade, multimedia and advertising and higher education. The California State Supreme Court is also based in San Francisco.

The City is a major convention and tourist destination. According to the San Francisco Travel Association, a nonprofit membership organization, during the calendar year 2018, approximately 25.8 million tourists visited the City, with total direct spending estimated at \$9.3 billion. Direct spending from conventions, trade shows and group meetings generated approximately \$707.6 million in 2018.

The City is also a leading center for financial activity in the State. The headquarters of the Twelfth Federal Reserve District and the Eleventh District Federal Home Loan Bank are located in the City.

The City benefits from a highly skilled, educated and professional labor force. According to the U.S. Department of Commerce Bureau of Economic Analysis, the per-capita personal income of the City for calendar year 2017 was \$119,868. According to the U.S. Department of Labor Bureau of Labor Statistics, the average unemployment rate for calendar year 2018 was 2.4%. The San Francisco Unified School District (“SFUSD”), which is a separate legal entity from the City, operates 14 transitional kindergarten schools, 64 elementary schools serving grades TK-5, 8 schools serving grades TK-8, 13 middle schools serving grades 6-8, 15 high schools serving grades 9-12, 12 early education schools, and 14 active charter schools authorized by SFUSD. Higher education institutions located in the City include the University of San Francisco, California State University – San Francisco, University of California – San Francisco (a medical school and health science campus), the University of California Hastings College of the Law, the University of the Pacific’s School of Dentistry, Golden Gate University, City College of San Francisco (a public community college), the Art Institute of California – San Francisco, the San Francisco Conservatory of Music, the California Culinary Academy, and the Academy of Art University.

San Francisco International Airport (“SFO”), located 14 miles south of downtown San Francisco in an unincorporated area of San Mateo County and owned and operated by the City, is the principal commercial service airport for the Bay Area and one of the nation’s principal gateways for Pacific Rim traffic. In fiscal year 2017-18, SFO serviced approximately 58 million passengers and handled 561,150 metric tons of cargo. The City is also served by the Bay Area Rapid Transit District (“BART,” an electric rail commuter service linking the City with the East Bay and the San Francisco Peninsula, including SFO), Caltrain (a conventional commuter rail line linking the City with the San Francisco Peninsula), and bus and ferry services between the City and residential areas to the north, east and south of the City. San Francisco Municipal Railway (“Muni”), operated by the San Francisco Municipal Transportation Agency (“SFMTA”), provides bus and streetcar service within the City. The Port of San Francisco (the “Port”), which administers 7.5 miles of Bay waterfront held in “public trust” by the Port on behalf of the people of the State, promotes a balance of maritime-related commerce, fishing, recreational, industrial and commercial activities, and natural resource protection.

**Government.** San Francisco is a city and county chartered pursuant to Article XI, Sections 3, 4, 5 and 6 of the Constitution of the State of California and is the only consolidated city and county in the State. Voters approved the City’s current Charter at the November 1995 election. The City is governed by a Board of Supervisors elected from 11 districts to serve 4-year terms, and a Mayor who serves as chief executive officer, elected citywide to a 4-year term. The City’s original budget for fiscal years 2018-19 and 2019-20 totals \$11.04 billion and \$11.10 billion, respectively. The General Fund portion of each year’s original budget is \$5.51 billion in fiscal year 2018-19 and \$5.52 billion in fiscal year 2019-20, with the balance being allocated to all other funds, including enterprise fund departments, such as SFO, SFMTA, the Port Commission and the San Francisco Public Utilities Commission (“SFPUCC”). The City employed 33,045 full-time-equivalent employees at the end of fiscal year 2017-18, of which \_\_\_\_\_ positions were funded from sources other than

the City's General Fund. According to the Controller of the City (the "Controller"), the fiscal year 2018-19 net total assessed valuation of taxable property in the City is approximately \$259.3 billion.

More detailed information about the City's governance, organization and finances may be found in APPENDIX A – "CITY AND COUNTY OF SAN FRANCISCO ORGANIZATION AND FINANCES" and in APPENDIX B – "COMPREHENSIVE ANNUAL FINANCIAL REPORT OF THE CITY AND COUNTY OF SAN FRANCISCO FOR THE FISCAL YEAR ENDED JUNE 30, 2018."

## THE BONDS

### Authority for Issuance; Purposes

The Bonds will be issued under the Government Code of the State and the Charter. The City authorized the issuance of the 2019C Bonds by (i) Resolution No. 156-13, adopted by the Board of Supervisors of the City on May 21, 2013, and duly approved by the Mayor of the City on May 28, 2013, and (ii) Resolution No. \_\_\_-19, adopted by the Board of Supervisors of the City on \_\_\_\_\_, 2019, and duly approved by the Mayor of the City on \_\_\_\_\_, 2019 (together, the "2019C Resolutions"). The City authorized the issuance of the 2019D Bonds by (i) Resolution No. 407-16, adopted by the Board of Supervisors of the City on September 20, 2016, and duly approved by the Mayor of the City on September 29, 2016, and (ii) Resolution No. \_\_\_-19, adopted by the Board of Supervisors of the City on \_\_\_\_\_, 2019, and duly approved by the Mayor of the City on \_\_\_\_\_, 2019 (together, the "2019D Resolutions," and with the 2019C Resolutions, the "Resolutions").

The 2019C Bonds will constitute the fourth and final series of bonds to be issued from an aggregate authorized amount of \$195,000,000 of City and County of San Francisco General Obligation Bonds (Clean and Safe Neighborhood Parks Bonds, 2012), duly approved by more than two-thirds of the voters voting on Proposition B at an election held on November 6, 2012 ("Proposition B (2012)"), to provide funds for the purposes authorized in Proposition B (2012), which are summarized as follows: to improve the safety and quality of neighborhood parks across the City and waterfront open spaces, enhancing water quality and cleaning up environmental contamination along the Bay, replacing unsafe playgrounds, fixing restrooms, improving access for the disabled, and ensuring the seismic safety of park and recreation facilities under the jurisdiction of, or maintained by, the Recreation and Park Commission or the jurisdiction of the Port Commission, and all other structures, improvements and related costs necessary and convenient for these purposes. The City previously issued \$71,970,000, \$43,220,000 and \$76,710,000 of the bonds authorized by Proposition B (2012) on June 20, 2013, February 2, 2016 and April 3, 2018, respectively.

The 2019D Bonds will constitute the third and final series of bonds to be issued from an aggregate authorized amount of \$310,000,000 of City and County of San Francisco Taxable and Tax-Exempt General Obligation Bonds (Affordable Housing, 2015), duly approved by more than two-thirds of the voters voting on Proposition A at an election held on November 3, 2015 ("Proposition A (2015)"), to provide funds for the purposes authorized in Proposition A (2015), which are summarized as follows: to finance the construction, development, acquisition, and preservation of housing affordable to low- and middle-income households through programs that will prioritize vulnerable populations such as San Francisco's working families, veterans, seniors, disabled persons; to assist in the acquisition, rehabilitation, and preservation of affordable rental apartment buildings to prevent the eviction of long-term residents; to repair and reconstruct dilapidated public housing; to fund a middle-income rental program; and to provide for homeownership down payment assistance opportunities for educators and middle-income households. The City previously issued \$75,130,000 and \$142,145,000 of the bonds authorized by Proposition A (2015) on November 1, 2016 and May 23, 2018, respectively.

The Administrative Code of the City (the "Administrative Code"), Proposition B (2012) and Proposition A (2015) provide that, to the extent permitted by law, 0.1% of the gross proceeds of all proposed bonds, including the Bonds, be deposited by the Controller and used to fund the costs of the City's independent

citizens' general obligation bond oversight committee. The committee was created by the adoption by the voters in 2002 of Proposition F (adopted by the voters March 5, 2002), which established the committee to review and oversee the delivery of general obligation bond-funded projects. A year later, the voters passed Proposition C, which authorized the committee to review and give input on the work of the City services auditor, including the City's whistleblower program. The committee has nine members appointed by the Mayor, Board of Supervisors, Controller and the Civil Grand Jury. The purpose of the committee is to inform the public concerning the expenditure of general obligation bond proceeds in accordance with the voter authorization.

### **Form and Registration**

The Bonds will be issued in the principal amounts set forth on the inside cover hereof, in the denomination of \$5,000 each or any integral multiple thereof, and will be dated their date of delivery. The Bonds will be issued in fully registered form, without coupons. The Bonds will be initially registered in the name of Cede & Co. as registered owner and nominee for The Depository Trust Company ("DTC"), which is required to remit payments of principal and interest to the DTC Participants for subsequent disbursement to the beneficial owners of the Bonds. See APPENDIX E – "DTC AND THE BOOK-ENTRY ONLY SYSTEM."

### **Payment of Interest and Principal**

Interest on the Bonds will be payable on each June 15 and December 15 to maturity or prior redemption, commencing June 15, 2020, at the interest rates shown on the inside cover hereof. Interest will be calculated on the basis of a 360-day year comprised of twelve 30-day months. The City Treasurer will act as paying agent and registrar with respect to the Bonds. The interest on the Bonds will be payable in lawful money of the United States to the Registered Owner whose name appears on the Bond registration books of the City Treasurer as the owner thereof as of the close of business on the last day of the month immediately preceding an interest payment date (the "Record Date"), whether or not such day is a business day. Each Bond authenticated on or before May 31, 2020 will bear interest from the date of delivery. Every other Bond will bear interest from the interest payment date next preceding its date of authentication unless it is authenticated as of a day during the period from the Record Date next preceding any interest payment date to the interest payment date, inclusive, in which event it will bear interest from such interest payment date; provided, that if, at the time of authentication of any Bond, interest is then in default on the Bonds, such Bond will bear interest from the interest payment date to which interest has previously been paid or made available for payment on the Bonds or from the date of delivery of the Bonds if the first interest payment is not made.

The Bonds will mature on the dates shown on the inside cover page hereof. The 2019C Bonds will not be subject to redemption prior to maturity. The 2019D Bonds will be subject to redemption prior to maturity, as described below. See "– Redemption" below. The principal of the Bonds will be payable in lawful money of the United States to the owner thereof upon the surrender thereof at maturity or earlier redemption at the office of the City Treasurer.

### **Redemption\***

#### ***No Redemption Prior to Maturity of the 2019C Bonds***

The 2019C Bonds will not be subject to redemption prior to their stated maturity date.

#### ***Optional Redemption of the 2019D Bonds***

The 2019D Bonds maturing on or before June 15, 2029 will not be subject to redemption prior to their respective maturity dates. The 2019D Bonds maturing on or after June 15, 2030 will be subject to redemption

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\* Preliminary, subject to change.

prior to their stated maturity dates as a whole or in part, on any date, from any moneys provided at the option of the City, in each case on and after June 15, 2029, at a redemption price equal to the principal amount of 2019D Bonds called for redemption, plus accrued interest to the date fixed for redemption, without premium.

The 2019D Bonds may also be redeemed in whole or in part at any time, from any moneys that may be provided for such purpose, at a redemption price for such 2019D Bonds to be redeemed determined by the Designated Investment Banker equal to the greater of (i) 100% of the principal amount of the 2019D Bonds to be redeemed, or (ii) an amount equal to the sum of the present values of the remaining scheduled payments of principal and interest on each of 2019D Bonds to be redeemed, not including any portion of those payments of interest accrued and unpaid as of the date on which the 2019D Bonds are to be redeemed, discounted to the date on which such 2019D Bonds are to be redeemed on a semi-annual basis, assuming a 360-day year consisting of twelve 30-day months, at the applicable Treasury Rate plus 15 basis points, plus accrued and unpaid interest on the 2019D Bonds to be redeemed on the redemption date.

“Comparable Treasury Issue” means, with respect to any redemption date for a particular 2019D Bond, the U.S. Treasury security or securities selected by the Designated Investment Banker that has or have an actual maturity closest to (one equal to or one earlier and one later than) the remaining average life of the 2019D Bonds to be redeemed, and that would be utilized in accordance with customary financial practice in pricing new issues of debt securities of comparable maturity to the remaining average life of such 2019D Bonds to be redeemed.

“Comparable Treasury Price” means, with respect to any redemption date for a particular 2019D Bond, the average of five Reference Treasury Dealer Quotations for that redemption date, after excluding the highest and lowest such Reference Treasury Dealer Quotations, or if the Designated Investment Banker obtains fewer than five Reference Treasury Dealer Quotations, the average of all such quotations.

“Designated Investment Banker” means a Reference Treasury Dealer appointed by the City.

“Reference Treasury Dealer” means each of five firms, specified by the City from time to time, that are primary U.S. Government securities dealers in the City of New York (each, a “Primary Treasury Dealer”); provided, however, that if any of them ceases to be a Primary Treasury Dealer, the City will substitute another Primary Treasury Dealer.

“Reference Treasury Dealer Quotations” means, with respect to each Reference Treasury Dealer and any redemption date for a particular 2019D Bond, the average, as determined by the Designated Investment Banker, of the bid and asked prices for the Comparable Treasury Issue or Comparable Treasury Issues, as applicable (expressed in each case as a percentage of its principal amount), quoted in writing to the City and the Fiscal Agent by such Reference Treasury Dealer at 3:30 p.m. (New York City time) on the Valuation Date.

“Treasury Rate” means, with respect to any redemption date for a particular 2019D Bonds, the rate per annum, expressed as a percentage of the principal amount, equal to the actual or interpolated rate based on (a) the most recent yield data for the applicable U.S. Treasury maturity index or indices, as applicable, from the Federal Reserve Statistical Release H.15 Daily Update (or any comparable or successor publication) reported, as of 11:00 a.m. New York City time, on the Valuation Date; or (b) if the yield described in (a) above is not reported as of such date and time or the yield reported as of such date and time is not ascertainable, the semi-annual equivalent yield to maturity of the Comparable Treasury Issue or Comparable Treasury Issues, assuming that such Comparable Treasury Issue or Comparable Treasury Issues are purchased on the redemption date for a price equal to the applicable Comparable Treasury Price, as calculated by the Designated Investment Banker.

“Valuation Date” means a date, as determined by the City, after consultation with the Designated Investment Banker, that is no earlier than 45 days prior to the redemption date.

***Mandatory Redemption of the 2019D Bonds***

The 2019D Bonds maturing on June 15, 20\_\_ will be subject to mandatory redemption prior to their stated maturity date, on a pro-rata pass-through distribution of principal basis, from mandatory sinking fund payments on each June 15 as shown in the table below, at a redemption price equal to the principal amount thereof plus accrued interest thereon to the Redemption Date, without premium.

Mandatory Sinking Fund Redemption Date (June 15)	Sinking Fund Payment Principal Amount
†	
† Maturity	

***Selection of 2019D Bonds for Redemption***

Whenever less than all the outstanding 2019D Bonds are called for redemption on any date, the Director of Public Finance will select the maturities of the 2019D Bonds to be redeemed in the sole discretion of the Director of Public Finance. Whenever less than all of the outstanding 2019D Bonds maturing on any one date are called for redemption, the particular 2019D Bonds or portions thereof to be redeemed will be selected in any manner which the Director of Public Finance deems fair. The 2019D Bonds may be redeemed in denominations of \$5,000 or any integral multiple thereof.

If the 2019D Bonds to be optionally redeemed are also subject to mandatory redemption, the Director of Public Finance will designate the mandatory sinking fund payment or payments (or portions thereof) against which the principal amount of the 2019D Bonds optionally redeemed will be credited.

***Notice of Redemption of the 2019D Bonds***

The date on which 2019D Bonds that are called for redemption are to be presented for redemption is called the “Redemption Date.” The City Treasurer will mail, or cause to be mailed, notice of any redemption of the 2019D Bonds, postage prepaid, to the respective registered owners thereof at the addresses appearing on the bond registration books not less than 20 days and not more than 60 days prior to the Redemption Date.

Notice of redemption also will be given, or caused to be given, by the City Treasurer, by (i) registered or certified mail, postage prepaid, (ii) confirmed facsimile transmission, (iii) overnight delivery service, or (iv) to the extent applicable to the intended recipient, email or similar electronic means, to (a) all organizations registered with the Securities and Exchange Commission as securities depositories and (b) such other services or organizations as may be required in accordance with the Continuing Disclosure Certificate. See “CONTINUING DISCLOSURE” and APPENDIX D – “FORM OF CONTINUING DISCLOSURE CERTIFICATE” herein.

Each notice of redemption will (a) state the Redemption Date; (b) state the redemption price; (c) state the maturity dates of the 2019D Bonds called for redemption, and, if less than all of any such maturity is called for redemption, the distinctive numbers of the 2019D Bonds of such maturity to be redeemed, and in the case of a 2019D Bond redeemed in part only, the portions of the principal amount thereof to be redeemed; (d) state the CUSIP number, if any, of each 2019D Bond to be redeemed; (e) require that such 2019D Bonds be surrendered by the owners at the office of the City Treasurer or his or her agent; and (f) give notice that interest on such 2019D Bonds or portions of such 2019D Bonds to be redeemed will cease to accrue after the designated Redemption Date. Any notice of optional redemption may be conditioned on the receipt of funds or any other event specified in the notice. See “– Conditional Notice; Right to Rescind Notice of Optional Redemption” below.

The actual receipt by the owner of any 2019D Bond of such notice of redemption will not be a condition precedent to redemption of such 2019D Bond, and failure to receive such notice, or any defect in such notice, will not affect the validity of the proceedings for the redemption of such 2019D Bond or the cessation of the accrual of interest on such 2019D Bond on the Redemption Date.

### ***Effect of Notice of Redemption***

When notice of optional redemption has been given as described above, and when the amount necessary for the redemption of the 2019D Bonds called for redemption (principal, premium, if any and accrued interest to the Redemption Date) is set aside for that purpose in the 2019D Redemption Account established under the 2019D Resolutions, the 2019D Bonds designated for redemption will become due and payable on the Redemption Date, and upon presentation and surrender of such 2019D Bonds at the place specified in the notice of redemption, such 2019D Bonds will be redeemed and paid at said redemption price out of the 2019D Redemption Account. No interest will accrue on such 2019D Bonds called for redemption after the Redemption Date and the registered owners of such 2019D Bonds will look for payment of such 2019D Bonds only to the 2019D Redemption Account. Moneys held in the 2019D Redemption Account will be invested by the City Treasurer pursuant to the City's policies and guidelines for investment of moneys in the General Fund of the City. See APPENDIX C – "CITY AND COUNTY OF SAN FRANCISCO, OFFICE OF THE TREASURER – INVESTMENT POLICY."

### ***Conditional Notice; Right to Rescind Notice of Optional Redemption***

Any notice of optional redemption may provide that such redemption is conditioned upon: (i) deposit of sufficient moneys in the 2019D Redemption Account to redeem the 2019D Bonds called for redemption on the anticipated Redemption Date, or (ii) the occurrence of any other event specified in the notice of redemption. In the event that such conditional notice of optional redemption has been given and on the scheduled Redemption Date (i) sufficient moneys to redeem the 2019D Bonds called for optional redemption on the Redemption Date have not been deposited, or (ii) any other event specified in the notice of redemption did not occur, such 2019D Bonds for which notice of conditional optional redemption was given will not be redeemed on the anticipated Redemption Date and will remain Outstanding for all purposes of the 2019D Resolutions and the redemption not occurring will not constitute a default under the 2019D Resolutions.

In addition, the City may rescind any optional redemption and notice thereof for any reason on any date prior to any Redemption Date by causing written notice of the rescission to be given to the Registered Owner of all 2019D Bonds so called for redemption. Notice of such rescission of redemption will be given in the same manner notice of redemption was originally given. The actual receipt by the Registered Owner of any 2019D Bond of notice of such rescission will not be a condition precedent to rescission, and failure to receive such notice or any defect in such notice so mailed will not affect the validity of the rescission.

### **Project Accounts**

The 2019C Resolutions establish a project account designated as the "General Obligation Bonds (Clean and Safe Neighborhood Parks Bonds, 2012) Project Account" (the "2019C Project Account"), and within the 2019C Project Account, a subaccount designated as the "General Obligation Bonds (Clean and Safe Neighborhood Parks Bonds, 2012), Series 2019C Bond Project Subaccount" (the "2019C Project Subaccount"). The 2019D Resolutions establish a project account designated as the "General Obligation Bonds (Affordable Housing, 2015) Project Account" (the "2019D Project Account," and together with the 2019C Project Account, the "Project Accounts"), and within the 2019D Project Account, a subaccount designated as the "General Obligation Bonds, Series 2019D Project Subaccount" (the "2019D Project Subaccount," and together with the 2019V Project Subaccount, the "Project Subaccounts"). Each Project Subaccount will be maintained by the City Treasurer as a separate account, segregated and distinct from all other accounts. The City Treasurer may establish such accounts and subaccounts within the Project Accounts



as may be necessary or convenient in connection with the administration of projects or the bonds issued under the Resolutions.

All of the proceeds of the sale of bonds issued under the 2019C Resolutions (excluding any premium and accrued interest received thereon, unless otherwise determined by the Director of Public Finance) and deposited by the City Treasurer to the credit of the 2019C Project Subaccount and will be applied exclusively to the objects and purposes specified in Proposition B (2012). All of the proceeds of the sale of bonds issued under the 2019D Resolutions (excluding any premium and accrued interest received thereon, unless otherwise determined by the Director of Public Finance) and deposited by the City Treasurer to the credit of the 2019D Project Subaccount and will be applied exclusively to the objects and purposes specified in Proposition A (2015).

When such objects and purposes have been accomplished, any moneys remaining in the 2019C Project Subaccount or the 2019D Project Subaccount will be transferred to the bond account established under the 2019C Resolutions (the "2019C Bond Account") or the bond account established under the 2019D Resolutions (the "2019D Bond Account," and together with the 2019C Bond Account, the "Bond Accounts"), as appropriate, and such funds will applied to the scheduled payment of the principal of and interest on the related series of Bonds. Amounts in each Project Subaccount may be applied to the payment of costs of issuance of Bonds issued under the related Resolutions, including, without limitation, bond and financial printing expenses, mailing and publication expenses, rating agency fees, and the fees and expenses of paying agents, registrars, financial consultants, bond counsel and disclosure counsel.

### **Defeasance**

Payment of all or any portion of the Bonds may be provided for prior to such Bonds' respective stated maturities by irrevocably depositing with the City Treasurer (or any commercial bank or trust company designated by the City Treasurer to act as escrow agent with respect thereto): (a) an amount of cash equal to the principal amount of all of such Bonds or a portion thereof, and all unpaid interest thereon to maturity, except that in the case of Bonds which are to be redeemed prior to such Bonds' respective stated maturities and in respect of which notice of such redemption will have been given as described above or an irrevocable election to give such notice will have been made by the City, the amount to be deposited will be the principal amount thereof, all unpaid interest thereon to the Redemption Date, and premium, if any, due on such Redemption Date; or (b) Defeasance Securities (as defined below) not subject to call, except as described in the definition below, maturing and paying interest at such times and in such amounts, together with interest earnings and cash, if required, as will, without reinvestment, as certified by an independent certified public accountant, be fully sufficient to pay the principal and all unpaid interest to maturity, or to the Redemption Date, as the case may be, and any premium due on the Bonds to be paid or redeemed, as such principal and interest come due; provided, that, in the case of the Bonds which are to be redeemed prior to maturity, notice of such redemption will be given as described above or an irrevocable election to give such notice will have been made by the City; then, all obligations of the City with respect to said outstanding Bonds will cease and terminate, except only the obligation of the City to pay or cause to be paid from the funds deposited as described in this paragraph, to the owners of said Bonds all sums due with respect thereto, and the tax covenant obligations of the City with respect to the Bonds; provided, that the City will have received an opinion of nationally recognized bond counsel that provision for the payment of said Bonds has been made as required by the Resolutions.

As used in this section, the following terms have the meanings given below:

"Defeasance Securities" means any of the following which at the time are legal investments under the laws of the State of California for the moneys proposed to be invested therein: (1) United States Obligations (as defined below); and (2) Pre-refunded fixed interest rate municipal obligations meeting the following conditions: (a) the municipal obligations are not subject to redemption prior to maturity, or the trustee or paying agent has been given irrevocable instructions concerning their calling and redemption and the issuer has

covenanted not to redeem such obligations other than as set forth in such instructions; (b) the municipal obligations are secured by cash or United States Obligations; (c) the principal of and interest on the United States Obligations (plus any cash in the escrow fund or the redemption account) are sufficient to meet the liabilities of the municipal obligations; (d) the United States Obligations serving as security for the municipal obligations are held by an escrow agent or trustee; (e) the United States Obligations are not available to satisfy any other claims, including those against the trustee or escrow agent; and (f) the municipal obligations are rated (without regard to any numerical modifier, plus or minus sign or other modifier), at the time of original deposit to the escrow fund, by any two Rating Agencies (as defined below) not lower than the rating then maintained by the respective Rating Agency on such United States Obligations.

“United States Obligations” means (i) direct and general obligations of the United States of America, or obligations that are unconditionally guaranteed as to principal and interest by the United States of America, including without limitation, the interest component of Resolution Funding Corporation (REFCORP) bonds that have been stripped by request to the Federal Reserve Bank of New York in book-entry form, or (ii) any security issued by an agency or instrumentality of the United States of America that is selected by the Director of Public Finance that results in the escrow fund being rated by any two Rating Agencies at the time of the initial deposit to the escrow fund and upon any substitution or subsequent deposit to the escrow fund, no lower than the rating then maintained by the respective Rating Agency on United States Obligations described in (i) herein.

“Rating Agencies” means Moody’s Investors Service, Fitch Ratings, and S&P Global Ratings, or any other nationally-recognized bond rating agency that is the successor to any of the foregoing rating agencies or that is otherwise recognized as a national rating agency after the date of adoption of the Resolutions.

### SOURCES AND USES OF FUNDS

The following are the estimated sources and uses of funds in connection with the Bonds:

<b>Sources</b>	<b>2019C</b>	<b>2019D</b>	<b>Total</b>
Principal Amount of Bonds			
Net Original Issue Premium			
<b>Total Sources of Funds</b>			
 <b>Uses</b>			
Deposit to Project Subaccount <sup>(1)</sup>			
Deposit to Bond Subaccount			
Oversight Committee <sup>(2)</sup>			
Underwriter’s Discount			
Costs of Issuance <sup>(3)</sup>			
<b>Total Uses of Funds</b>			

- <sup>(1)</sup> Of the total 2019C Project Subaccount deposit, \$\_\_\_\_\_ will be used to pay project costs and \$\_\_\_\_\_ (representing 0.2% of the 2019C Project Subaccount for project costs) will be used to pay the City’s Office of the Controller’s audit fee. Of the total 2019D Project Subaccount deposit, \$\_\_\_\_\_ will be used to pay project costs and \$\_\_\_\_\_ (representing 0.2% of the 2019D Project Subaccount for project costs) will be used to pay the City’s Office of the Controller’s audit fee.
- <sup>(2)</sup> See “THE BONDS – Authority for Issuance; Purposes – Bond Oversight.”
- <sup>(3)</sup> Includes fees for services of rating agencies, Co-Municipal Advisors, Co-Bond Counsel, Disclosure Counsel, costs to the City, printing costs, other miscellaneous costs associated with the issuance of the Bonds, and rounding amounts.

**DEBT SERVICE SCHEDULES**

The consolidated scheduled debt service payable with respect to the Bonds is shown in the table below (assuming no early redemptions). For debt service payable with respect to the City’s other general obligation bonds, see Table A-22 under APPENDIX A – “CITY AND COUNTY OF SAN FRANCISCO ORGANIZATION AND FINANCES – CAPITAL FINANCING AND BONDS – Tax-Supported Debt Service.”

**City and County of San Francisco  
General Obligation Bonds  
Series 2019C and Series 2019D<sup>(1)(2)</sup>**

<b>Payment Date</b>	<b>Principal</b>	<b>Interest</b>	<b>Debt Service</b>	<b>Fiscal Year Total</b>
---------------------	------------------	-----------------	---------------------	--------------------------

**Total**

<sup>(1)</sup> A portion of the debt service will be paid from original issue premium deposited in the Bond Subaccounts relating to the Bonds. See “SOURCES AND USES OF FUNDS.”  
<sup>(2)</sup> Amounts are rounded off to the nearest dollar.

Scheduled debt service payable with respect to the 2019C Bonds is as follows:

**City and County of San Francisco  
General Obligation Bonds  
Series 2019C<sup>(1)(2)</sup>**

Payment Date	Principal	Interest	Debt Service	Fiscal Year Total
<hr/>				
<b>Total</b>				

<sup>(1)</sup> A portion of the debt service will be paid from original issue premium deposited in the 2019C Bond Subaccount. See "SOURCES AND USES OF FUNDS."  
<sup>(2)</sup> Amounts are rounded off to the nearest dollar.

Scheduled debt service payable with respect to the 2019D Bonds is as follows:

**City and County of San Francisco  
General Obligation Bonds  
Series 2019D<sup>(1)(2)</sup>**

<b>Payment Date</b>	<b>Principal</b>	<b>Interest</b>	<b>Debt Service</b>	<b>Fiscal Year Total</b>
<hr/>				
<b>Total</b>				

<sup>(1)</sup> A portion of the debt service will be paid from original issue premium deposited in the 2019D Bond Subaccount. See "SOURCES AND USES OF FUNDS."

<sup>(2)</sup> Amounts are rounded off to the nearest dollar.

## SECURITY FOR THE BONDS

### General

Pursuant to the Resolutions, for the purpose of paying the principal of and interest on the Bonds, the Board of Supervisors annually will fix, levy and collect until the Bonds are paid, or until there is a sum set apart for that purpose in the Treasury of the City sufficient to meet all sums coming due for payment of principal of and interest on the Bonds, an *ad valorem* tax sufficient to pay the annual principal of and interest on the Bonds as the same become due. In fixing such tax levy for each fiscal year, the Board of Supervisors will take into account amounts then on deposit in the Tax Revenues Subaccount (as defined under “Flow of Funds Under the Resolutions”), if such amounts will be available to pay debt service on the Bonds. Said tax will be in addition to all other taxes levied for City purposes, will be collected at the time and in the same manner as other taxes of the City are collected, and will be used only for the payment of the Bonds and the interest thereon. Under the framework of the constitutional provisions and statutes applicable to California general obligation bonds, including the Bonds, taxes levied to pay debt service on the Bonds may not be used for any other purpose and are not available to support general City operations. See “Property Taxation” below.

Pursuant to Section 53515 of the California Government Code, the Bonds will be secured by a statutory lien on all revenues received pursuant to the levy and collection of the *ad valorem* taxes levied for the Bonds. See “Statutory Lien on Taxes (Senate Bill 222)” below.

Pursuant to the Resolutions, the City will pledge the Bond Accounts (as defined under “Flow of Funds Under the Resolutions”) and all subaccounts and amounts on deposit therein for the payment of the principal of and interest on bonds issued under the Resolutions (including the Bonds) when and as the same become due. See “Pledge” below.

### Flow of Funds Under the Resolutions

***Bond Accounts.*** The 2019C Resolutions provide that there will be established with the City Treasurer a special account to be designated as the “General Obligation Bonds (Clean and Safe Neighborhood Parks Bonds, 2012) Bond Account” (the “2019C Bond Account”), and within the 2019C Bond Account, a subaccount designated as the “General Obligation Bonds, Series 2019C Bond Subaccount” (the “2019C Bond Subaccount”), to be held separate and apart from all other accounts of the City. The 2019D Resolutions provide that there will be established with the City Treasurer a special account to be designated as the “General Obligation Bonds (Affordable Housing, 2015) Bond Account” (the “2019D Bond Account,” and with the 2019C Bond Account, the “Bond Accounts”), and within the 2019D Bond Account, a special subaccount in the 2019D Bond Account to be designated as the “General Obligation Bonds, Series 2019D Bond Subaccount” (the “2019D Bond Subaccount,” and together with the 2019C Bond Subaccount, the “Bond Subaccounts”), to be held separate and apart from all other accounts of the City.. The Bond Accounts and all subaccounts therein will be administered by the City Treasurer with all disbursements of funds therefrom subject to authorization of the Controller. Pursuant to the applicable sale resolution, the Controller may establish such additional accounts and subaccounts within the related Bond Account or with any agent, including but not limited to any paying agent or fiscal agent, as may be necessary or convenient in connection with the administration of any series of bonds issued under the appropriate Resolutions, to provide for the payment of principal and interest on such series of bonds.

The City Treasurer will deposit in the related Bond Account from the proceeds of sale of bonds issued pursuant to the Resolutions, any moneys received on account of original issue premium and interest accrued on bonds issued under the Resolutions to the date of payment of the purchase price thereof, and such other moneys, if any, as may be specified in the applicable sale resolution. So long as any of the bonds issued under the Resolutions are outstanding, moneys in the related Bond Account will be used and applied by the City Treasurer solely for the purpose of paying the principal of and interest on such bonds as such principal and interest become due and payable, or for purchase of such bonds if permitted by the applicable sale resolution;

provided, however, that when all of the principal of and interest on such bonds have been paid, any moneys then remaining in said Bond Account will be transferred to the City for any legally permitted purpose. The Board of Supervisors will take such actions annually as are necessary or appropriate to cause the debt service on the bonds issued under the Resolutions due in any fiscal year to be included in the budget for such fiscal year and to make the necessary appropriations therefor.

*Bond Subaccounts.* The Resolutions provide that (i) on or prior to the date on which any payment of principal of or interest on the Bonds is due, including any Bonds subject to mandatory redemption on said date, the City Treasurer will allocate to and deposit in the appropriate Bond Subaccount, from amounts held in the related Bond Account, an aggregate amount which, when added to any available moneys contained in such Bond Subaccount, is sufficient to pay principal of and interest on the related Bonds on such date, and (ii) on or prior to the date on which any 2019D Bonds are to be redeemed at the option of the City, the City Treasurer may allocate to and deposit in the Series 20192019D Bond Redemption Account, from amounts held in the 2019D Bond Account, an amount which, when added to any available moneys contained in the 2019D Redemption Account, is sufficient to pay principal, interest and premium, if any, with respect to such 2019D Bonds on such date. The City Treasurer may make such other provision for the payment of principal of and interest and any redemption premium on the 2019D Bonds as is necessary or convenient to permit the optional redemption of the 2019D Bonds.

Amounts in the Bond Subaccounts may be invested in any investment of the City in which moneys in the General Fund of the City are invested. The City Treasurer may (i) commingle any of the moneys held in the Bond Subaccounts with other City moneys or (ii) deposit amounts credited to the 2019C Bond Subaccount or the 2019D Bond Subaccount into a separate fund or funds for investment purposes only; provided, that all of the moneys held in each Bond Subaccount will be accounted for separately notwithstanding any such commingling or separate deposit by the City Treasurer. See APPENDIX C – “CITY AND COUNTY OF SAN FRANCISCO, OFFICE OF THE TREASURER – INVESTMENT POLICY.” All interest earned on amounts on deposit in each Bond Subaccount will be retained in such Bond Subaccount.

*Interest.* On or before June 15 and December 15 in each year that any of the bonds issued under the Resolutions are outstanding (or, for any series of bonds bearing interest at variable rates, on such other dates as may be provided by the applicable sale resolution), the City Treasurer will set aside in the related Bond Account and the appropriate subaccounts therein relating to each series of the bonds an amount which, when added to the amount contained in the related Bond Account and subaccounts therein on that date, if any, will be equal to the aggregate amount of the interest becoming due and payable on each series of such bonds outstanding on such interest payment date.

*Principal.* On or before June 15 in each year that any of the bonds issued under the Resolutions are outstanding, the City Treasurer will set aside in the related Bond Account and the appropriate subaccounts therein relating to each series of such bonds an amount which will be equal to the principal on each series of such bonds outstanding that will become due and payable on said June 15, including those bonds subject to mandatory redemption on such date pursuant to the provisions of the applicable sale resolution.

All moneys in the Bond Accounts will be used and withdrawn by the City Treasurer solely for the purpose of paying the principal of and interest on each series of bonds issued under the Resolutions as the same become due and payable. On June 15 and December 15 in each year that any such bond is outstanding, the City Treasurer will allocate, transfer and apply to the various subaccounts in the Bond Account created pursuant to the applicable sale resolution, on such date on which payment of principal or interest on any series of bonds is due, from moneys on deposit in the Bond Account, an amount equal to the amount of principal of, premium, if any, or interest due on said date with respect to each series of the bonds then outstanding. Unless other provision is made pursuant to the Resolutions for the payment of any bond, all amounts held in the various subaccounts of the Bond Account created pursuant to a sale resolution will be used and applied by the City Treasurer to pay principal of, premium, if any, and interest due on the series of the bonds to which such subaccount relates, as and when due.

## Property Taxation

**General.** The City levies property taxes for general operating purposes as well as for the payment of voter-approved general obligation bonds. Taxes levied to pay debt service for general obligation bonds may only be applied for that purpose. As a county under State law, the City also levies property taxes on behalf of all local agencies with overlapping jurisdiction within the boundaries of the City. Property tax revenues result from the application of the appropriate tax rate to the total assessed value of taxable property in the City. At the start of fiscal year 2019-20, the total net assessed valuation of taxable property within the City was approximately \$\_\_\_\_\_ billion. For additional information on the property taxation system, assessed values and appeals to assessed values, see APPENDIX A – “CITY AND COUNTY OF SAN FRANCISCO ORGANIZATION AND FINANCES – Property Taxation.”

Local property taxation is the responsibility of various City officers. The Assessor computes the value of locally assessed taxable property. After the assessed roll is closed on June 30<sup>th</sup>, the City Controller issues a Certificate of Assessed Valuation in August which certifies the taxable assessed value for that fiscal year. The Controller also compiles a schedule of tax rates including the 1.0% tax authorized by Article XIII A of the State Constitution (and mandated by statute), tax surcharges needed to repay voter-approved general obligation bonds, and tax surcharges imposed by overlapping jurisdictions that have been authorized to levy taxes on property located in the City. The Board of Supervisors approves the schedule of tax rates each year by ordinance adopted no later than the last working day of September. The Treasurer and Tax Collector prepare and mail tax bills to taxpayers and collect the taxes on behalf of the City and other overlapping taxing agencies that levy taxes on taxable property located in the City. The Treasurer holds and invests City tax funds, including taxes collected for payment of general obligation bonds, and is charged with payment of principal and interest on such bonds when due.

Of the \$\_\_\_\_\_ billion total net assessed valuation of taxable property within the City, \$\_\_\_\_\_ billion (\_\_\_\_%) represents secured valuations and \$\_\_\_\_\_ billion (\_\_\_\_%) represents unsecured valuations. Proposition 13 limits to 2% per year any increase in the assessed value of property, unless it is sold or the structure is improved. The total net assessed valuation of taxable property therefore does not generally reflect the current market value of taxable property within the City and is in the aggregate substantially less than current market value. For this same reason, the total net assessed valuation of taxable property lags behind changes in market value and may continue to increase even without an increase in aggregate market values of property.

Under Article XIII A of the State Constitution added by Proposition 13 in 1978, property must be reassessed to full cash value at the time of sale. Taxpayers can appeal the Assessor’s determination of their property’s assessed value, and the appeals may be retroactive and for multiple years. The State prescribes the assessment valuation methodologies and the adjudication process that counties must employ in connection with counties’ property assessments.

The City typically experiences increases in assessment appeals activity during economic downturns and decreases in assessment appeals as the economy rebounds. To mitigate the financial risk of potential assessment appeal refunds, the City funds appeal reserves for its share of estimated property tax revenues for each fiscal year.

In addition, appeals activity is reviewed each year and incorporated into the current and subsequent years’ budget projections of property tax revenues. Historical information on refunds of prior years’ property taxes from the discretionary General Fund appeals reserve fund are listed in Table A-6 of APPENDIX A attached hereto.

**Tax Levy and Collection Process.** Generally, property taxes levied by the City on real property becomes a lien on that property by operation of law. A tax levied on personal property does not automatically become a lien against real property without an affirmative act of the City taxing authority. Real property tax



liens have priority over all other liens against the same property regardless of the time of their creation by virtue of express provision of law.

Property subject to *ad valorem* taxes is entered as secured or unsecured on the assessment roll maintained by the Assessor-Recorder. The secured roll is that part of the assessment roll containing State-assessed property and property (real or personal) on which liens are sufficient, in the opinion of the Assessor-Recorder, to secure payment of the taxes owed. Other property is placed on the “unsecured roll.” The method of collecting delinquent taxes is substantially different for the two classifications of property.

The City has four ways of collecting unsecured personal property taxes: 1) pursuing civil action against the taxpayer; 2) filing a certificate in the Office of the Clerk of the Court specifying certain facts, including the date of mailing a copy thereof to the affected taxpayer, in order to obtain a judgment against the taxpayer; 3) filing a certificate of delinquency for recording in the Assessor-Recorder’s Office in order to obtain a lien on certain property of the taxpayer; and 4) seizing and selling personal property, improvements or possessory interests belonging or assessed to the taxpayer.

The exclusive means of enforcing the payment of delinquent taxes with respect to property on the secured roll is the sale of the property securing the taxes. Proceeds of the sale are used to pay the costs of sale and the amount of delinquent taxes. A 10% penalty is added to delinquent taxes that have been levied on property on the secured roll. In addition, property on the secured roll with respect to which taxes are delinquent is declared “tax defaulted” and subject to eventual sale by the Treasurer and Tax Collector of the City. Such property may thereafter be redeemed by payment of the delinquent taxes and the delinquency penalty, plus a redemption penalty of 1.5% per month, which begins to accrue on such taxes beginning July 1 following the date on which the property becomes tax-defaulted.

**Teeter Plan.** In October 1993, the Board of Supervisors of the City passed a resolution that adopted the Alternative Method of Tax Apportionment (the “Teeter Plan”). The Teeter Plan method authorizes the City Controller to allocate to the City’s taxing agencies 100% of the secured property taxes billed but not yet collected. In return, as the delinquent property taxes and associated penalties and interest are collected, the City’s General Fund retains such amounts. The City has funded payment of accrued and current delinquencies through authorized internal borrowing. The City also maintains a Tax Loss Reserve for the Teeter Plan. Information on this Reserve is as shown on Table A-7 in APPENDIX A attached hereto.

**Taxation of Utility Property.** A portion of the City’s total net assessed valuation consists of utility property subject to assessment by the State Board of Equalization. State-assessed property, or “unitary property,” is property of a utility system with components located in many taxing jurisdictions assessed as part of a “going concern” rather than as individual parcels of real or personal property. Unitary and certain other State-assessed property values are allocated to the counties by the State Board of Equalization, taxed at special county-wide rates, and the tax revenues distributed to taxing jurisdictions (including the City itself) according to statutory formulae generally based on the distribution of taxes in the prior year. [The fiscal year 2018-19 valuation of property assessed by the State Board of Equalization is \$3.7 billion.]

## **Pledge**

Pursuant to the Resolutions, the City will pledge the Bond Accounts and all subaccounts and amounts on deposit therein for the payment of the principal of and interest on bonds issued under the appropriate Resolutions (including the Bonds) when and as the same become due, including the principal of any term bonds required to be paid upon the mandatory sinking fund redemption thereof. In addition, the payment of such principal and interest will be secured by the statutory lien of California Government Code Section 53515, to the extent applicable to the amounts of *ad valorem* taxes on deposit in each Bond Account. Each and every series of bonds issued under the Resolutions will be equally and ratably secured by this pledge, the foregoing statutory lien, and the taxes collected as described above.

## **Statutory Lien on Taxes (Senate Bill 222)**

Pursuant to Section 53515 of the California Government Code, the Bonds will be secured by a statutory lien on all revenues received pursuant to the levy and collection of the *ad valorem* taxes levied for the Bonds. Section 53515 of the California Government Code provides that the lien will automatically arise, without the need for any action or authorization by the local agency or its governing board, and will be valid and binding from the time such bonds are executed and delivered. Section 53515 of the California Government Code further provides that the revenues received pursuant to the levy and collection of the tax will be immediately subject to the lien, and the lien will immediately attach to the revenues and be effective, binding and enforceable against the local agency, its successor, transferees and creditors, and all others asserting rights therein, irrespective of whether those parties have notice of the lien and without the need for physical delivery, recordation, filing or further act. See “CERTAIN RISK FACTORS – Limitation on Remedies; Bankruptcy.”

### **CERTAIN RISK FACTORS**

#### **Factors Affecting Property Tax Security for the Bonds**

The annual property tax rate for repayment of the Bonds will be based on the total assessed value of taxable property in the City and the scheduled debt service on the Bonds in each year, less any other lawfully available funds applied by the City for repayment of the Bonds. Fluctuations in the annual debt service on the Bonds, the assessed value of taxable property in the City, and the availability of such other funds in any year, may cause the annual property tax rate applicable to the Bonds to fluctuate. Issuance by the City of additional authorized bonds payable from *ad valorem* property taxes may cause the overall property tax rate to increase.

Discussed below are certain factors that may affect the City’s ability to levy and collect sufficient taxes to pay scheduled debt service on the Bonds each year. See APPENDIX A – “CITY AND COUNTY OF SAN FRANCISCO ORGANIZATION AND FINANCES” for additional information on these factors.

***Total Assessed Value of Taxable Property in the City.*** The greater the assessed value of taxable property in the City, the lower the tax rate necessary to generate taxes sufficient to pay scheduled debt service on bonds. The net total assessed valuation of taxable property in the City in fiscal year 2019-20 is approximately \$\_\_\_\_\_ billion. During economic downturns, declining market values of real estate, increased foreclosures, and increases in requests submitted to the Assessor and the Assessment Appeals Board for reductions in assessed value have generally caused a reduction in the assessed value of some properties in the City. See APPENDIX A – “CITY AND COUNTY OF SAN FRANCISCO ORGANIZATION AND FINANCES – Property Taxation – Assessed Valuations, Tax Rates and Tax Delinquencies.”

Natural and economic forces can affect the assessed value of taxable property in the City. The City is located in a seismically active region, and damage from an earthquake in or near the City could cause moderate to extensive or total damage to taxable property. See “Seismic Risks” below. Other natural or man-made disasters, such as flood and sea level rise (see “Climate Change, Risk of Sea Level Rise and Flooding Damage” below), fire, toxic dumping or acts of terrorism, could also cause a reduction in the assessed value of taxable property within the City. Economic and market forces, such as a downturn in the Bay Area’s economy generally, can also affect assessed values, particularly as these forces might reverberate in the residential housing and commercial property markets. In addition, the total assessed value can be reduced through the reclassification of taxable property to a class exempt from taxation, whether by ownership or use (such as exemptions for property owned by State and local agencies and property used for qualified educational, hospital, charitable or religious purposes).

***Concentration of Taxable Property Ownership.*** The more property (by assessed value) owned by any single assessee, the more exposure of tax collections to weakness in that taxpayer’s financial situation and ability or willingness to pay property taxes. As of \_\_\_\_\_, 2019, no single assessee owned more than

\_\_\_\_\_ % of the total taxable assessed value in the City. See APPENDIX A – “CITY AND COUNTY OF SAN FRANCISCO ORGANIZATION AND FINANCES – Property Taxation – Tax Levy and Collection.”

**Property Tax Rates.** One factor in the ability of taxpayers to pay additional taxes for general obligation bonds is the cumulative rate of tax. The total tax rate per \$100 of assessed value (including the basic countywide 1% rate required by statute) is discussed further in APPENDIX A – “CITY AND COUNTY OF SAN FRANCISCO ORGANIZATION AND FINANCES – Property Taxation – Assessed Valuations, Tax Rates and Tax Delinquencies.”

**Debt Burden on Owners of Taxable Property in the City.** Another measure of the debt burden on local taxpayers is total debt as a percentage of taxable property value. Issuance of general obligation bonds by the City is limited under Section 9.106 of the Charter to 3.00% of the assessed value of all taxable real and personal property located within the City’s boundaries. For purposes of this provision of the Charter, the City calculates its debt limit on the basis of total assessed valuation net of non-reimbursable and homeowner exemptions. On this basis, the City’s gross general obligation debt limit for fiscal year 2019-20 is approximately \$\_\_\_\_\_ billion, based on a net total assessed valuation of approximately \$\_\_\_\_\_ billion. As of \_\_\_\_\_, 2019, the City had outstanding approximately \$\_\_\_\_\_ billion in aggregate principal amount of general obligation bonds, which equals approximately \_\_\_\_\_% of the net assessed valuation for fiscal year 2019-20. See APPENDIX A – “CITY AND COUNTY OF SAN FRANCISCO ORGANIZATION AND FINANCES – Capital Financing and Bonds.”

**Additional Debt; Authorized but Unissued Bonds.** Issuance of additional authorized bonds can cause the overall property tax rate to increase. As of \_\_\_\_\_, 2019, the City had voter approval to issue up to \$\_\_\_\_\_ billion in additional aggregate principal amount of new bonds payable from *ad valorem* property taxes. See APPENDIX A – “CITY AND COUNTY OF SAN FRANCISCO ORGANIZATION AND FINANCES – Capital Financing and Bonds – General Obligation Bonds.” In addition, the City expects that it will propose further bond measures to the voters from time to time to help meet its capital needs. The City’s most recent adopted 10-year capital plan identifies \$[35.2] billion of capital needs for all City departments. See APPENDIX A – “CITY AND COUNTY OF SAN FRANCISCO ORGANIZATION AND FINANCES – Capital Financing and Bonds – Capital Plan.”

**Limitations on Development.** Construction and development in the City could be limited by governmental or legal limits on growth and/or challenges in the approval of certain residential and commercial projects. For example, San Francisco voters passed Proposition M in November 1986 which created an annual limit on the construction of new office space throughout the City (i.e., 950,000 square feet per year). Proposition M amended the Office Development Annual Limit Program (the “Annual Limit Program”) under the City’s Planning Code, which Annual Limit Program governs the approval of all development projects that contain more than 25,000 gross square feet of office space. The central provision of the Annual Limit Program is a “metering limit” designed to restrict the amount of office space authorized in a given year. No office project subject to the metering limit can be entitled without receiving an allocation under the Annual Limit Program. In doing so, the Annual Limit Program aims to ensure a manageable rate of new development and to guard against typical “boom and bust” cycles, among other goals.

### **City Long-Term Financial Challenges**

The following discussion highlights certain long-term challenges facing the City and is not meant to be an exhaustive discussion of challenges facing the City (see, for example, “Seismic Risks” and “Climate Change, Risk of Sea Level Rise and Flooding Damage” below). Notwithstanding the City’s strong economic and financial performance during the recent recovery and despite significant City initiatives to improve public transportation systems, expand access to healthcare and modernize parks and libraries, the City faces several long-term financial challenges and risks described below.

Significant capital investments are proposed in the City's adopted 10-year capital plan. The City's most recent adopted 10-year capital plan sets forth \$39.1 billion of capital needs for all City departments. However, identified funding resources are below those necessary to maintain and enhance the City's physical infrastructure. As a result, over \$\_\_\_\_\_ billion in capital needs are deferred from the capital plan's 10-year horizon. Over half of these unfunded needs relate to the City's transportation and waterfront infrastructure, where capital investment has lagged for decades.

In addition, the City faces long-term challenges with respect to the management of pension and post-employment retirement obligations. The City has taken major steps to address long-term unfunded liabilities for employee pension and other post-employment benefits, including retiree health obligations, yet significant liabilities remain. In recent years, the City and voters have adopted changes that should mitigate these unfunded liabilities over time, including adoption of lower-cost benefit tiers, increases to employee and employer contribution requirements, and establishment of a trust fund to set-aside funding for future retiree health costs. The financial benefit from these changes will phase in over time, however, leaving ongoing financial challenges for the City in the shorter term. Further, the size of these liabilities is based on a number of assumptions, including but not limited to assumed investment returns and actuarial assumptions. It is possible that actual results will differ materially from current assumptions, and such changes in investment returns or other actuarial assumptions could increase budgetary pressures on the City.

Lastly, while the City has adopted a number of measures to better position its operating budget for future economic downturns, these measures may not be sufficient. Economic stabilization reserves have grown significantly during the last seven fiscal years. As of June 30, 2018, the balance for such rainy day and budget stabilization reserves was approximately \$514 million, which is over 9.0% of discretionary General Fund revenues, and is below adopted target levels of 10% of discretionary General Fund revenues. However, the City expects that meeting the 10% adopted target level of reserves will not eliminate the need to cut expenditures in a recession to balance the City's budget.

There is no assurance that other challenges not discussed in this Official Statement may become material to investors in the future. For more information, see APPENDIX A – "CITY AND COUNTY OF SAN FRANCISCO ORGANIZATION AND FINANCES" and in APPENDIX B – "COMPREHENSIVE ANNUAL FINANCIAL REPORT OF THE CITY AND COUNTY OF SAN FRANCISCO FOR THE FISCAL YEAR ENDED JUNE 30, 2018."

## **Seismic Risks**

**General.** The City is located in a seismically active region. Active earthquake faults underlie both the City and the surrounding Bay Area, including the San Andreas Fault, which passes within about three miles of the City's border, and the Hayward Fault, which runs under Oakland, Berkeley and other cities on the east side of San Francisco Bay, about 10 miles away. Significant seismic events include the 1989 Loma Prieta earthquake, centered about 60 miles south of the City, which registered 6.9 on the Richter scale of earthquake intensity. That earthquake caused fires, building collapses, and structural damage to buildings and highways in the City and surrounding areas. The San Francisco-Oakland Bay Bridge, the only east-west vehicle access into the City, was closed for a month for repairs, and several highways in the City were permanently closed and eventually removed. On August 24, 2014, the San Francisco Bay Area experienced a 6.0 earthquake centered near Napa along the West Napa Fault. The City did not suffer any material damage as a result of this earthquake.

**California Earthquake Probabilities Study.** In March 2015, the Working Group on California Earthquake Probabilities (a collaborative effort of the U.S. Geological Survey (U.S.G.S.), the California Geological Survey, and the Southern California Earthquake Center) reported that there is a 72% chance that one or more quakes of about magnitude 6.7 (the magnitude of the 1994 Northridge earthquake) or larger will occur in the San Francisco Bay Area before the year 2045. In addition, the U.S.G.S. released a report in April 2017 entitled The HayWired Earthquake Scenario, which estimates that property damage and direct business

disruption losses from a magnitude 7.0 earthquake on the Hayward Fault would be more than \$82 billion (in 2016 dollars). Most of the losses are expected to be attributable to shaking damage, liquefaction, and landslides (in that order). Eighty percent of shaking damage is expected to be caused by the magnitude 7.0 mainshock, with the rest of the damage resulting from aftershocks occurring over a 2-year period thereafter. Such earthquakes could be very destructive. In addition to the potential damage to City-owned buildings and facilities (on which the City does not generally carry earthquake insurance), due to the importance of San Francisco as a tourist destination and regional hub of commercial, retail and entertainment activity, a major earthquake anywhere in the Bay Area may cause significant temporary and possibly long-term harm to the City's economy, tax receipts, and residential and business real property values.

***Vulnerability Study of the Northern Waterfront Seawall.*** In early 2016, the Port Commission of the City commissioned an earthquake vulnerability study of the Northern Waterfront Seawall. The three-mile Seawall was constructed over 100 years ago and sits on reclaimed land, rendering it vulnerable to seismic risk. The Seawall provides flood and wave protection to downtown San Francisco, and stabilizes hundreds of acres of filled land. Preliminary findings of the study indicate that a strong earthquake may cause most of the Seawall to settle and move outward toward the Bay, which would significantly increase earthquake damage and disruption along the waterfront. The Port Commission estimates that seismic retrofitting of the Seawall could cost as much as \$3 billion, with another \$2 billion or more needed to prepare the Seawall for rising sea levels. The study estimates that approximately \$1.6 billion in Port assets and \$2.1 billion of rents, business income, and wages are at risk from major damage to the Seawall. See "Climate Change, Risk of Sea Level Rise and Flooding Damage" below.

***Tall Buildings Safety Strategy Report and Executive Directive.*** The City commissioned a first in the nation "Tall Buildings Study" by the Applied Technology Council to consider the impact of earthquakes on buildings higher than 240 feet. The final report following the study, released in January 2019, evaluates best practices for geotechnical engineering, seismic risks, standards for post-earthquake structural evaluations, barriers to re-occupancy, and costs and benefits of higher performance goals for new construction. The study estimates that for a tall building designed to current seismic standards, it might take two to six months to mobilize for and repair damage from a major earthquake, depending on the building location, geologic conditions, and the structural and foundation systems. The report identifies and summarizes sixteen recommendations for reducing seismic risk prior to earthquakes for new and existing buildings, reducing seismic risk following earthquakes, and improving the City's understanding of its tall building seismic risk.

On January 24, 2019, Mayor London N. Breed issued an executive directive instructing City departments to work with community stakeholders, develop regulations to address geotechnical and engineering issues, clarify emergency response and safety inspection roles, and establish a Disaster Recovery Task Force for citywide recovery planning, including a comprehensive recovery plan for the financial district and surrounding neighborhoods by the end of the year.

The City obtains commercial insurance only in certain limited circumstances, including when required by bond or lease financing transactions and for other limited purposes. The City does not maintain commercial earthquake coverage, with certain minor exceptions. See APPENDIX A – "CITY AND COUNTY OF SAN FRANCISCO ORGANIZATION AND FINANCES – Litigation and Risk Management."

### **Climate Change, Risk of Sea Level Rise and Flooding Damage**

Numerous scientific studies on global climate change show that, among other effects on the global ecosystem, sea levels will rise, extreme temperatures, and extreme weather events will become more frequent as a result of increasing global temperatures attributable to atmospheric pollution.

The *Fourth National Climate Assessment*, published by the U.S. Global Change Research Program in November 2018 (NCA4), finds that more frequent and intense extreme weather and climate-related events, as well as changes in average climate conditions, are expected to continue to damage infrastructure, ecosystems

and social systems over the next 25 to 100 years. NCA4 states that rising temperatures, sea level rise, and changes in extreme events are expected to increasingly disrupt and damage critical infrastructure and property and regional economies and industries that depend on natural resources and favorable climate conditions. Disruptions could include more frequent and longer-lasting power outages, fuel shortages and service disruptions. NCA4 states that the continued increase in the frequency and extent of high-tide flooding due to sea level rise threatens coastal public infrastructure. NCA4 also states that expected increases in the severity and frequency of heavy precipitation events will affect inland infrastructure, including access to roads, the viability of bridges and the safety of pipelines.

Sea levels will continue to rise in the future due to the increasing temperature of the oceans causing thermal expansion and growing ocean volume from glaciers and ice caps melting into the ocean. Between 1854 and 2016, sea level rose about nine inches according to the tidal gauge at Fort Point, a location underneath the Golden Gate Bridge. Weather and tidal patterns, including 100-year or more storms and king tides, may exacerbate the effects of climate related sea level rise. Coastal areas like the City are at risk of substantial flood damage over time, affecting private development and public infrastructure, including roads, utilities, emergency services, schools, and parks. As a result, the City could lose considerable tax revenues and many residents, businesses, and governmental operations along the waterfront could be displaced, and the City could be required to mitigate these effects at a potentially material cost.

Adapting to sea level rise is a key component of the City's policies. The City and its enterprise departments have been preparing for future sea level rise for many years and have issued a number of public reports. For example, in March 2016, the City released a report entitled "Sea Level Rise Action Plan," identifying geographic zones at risk of sea level rise and providing a framework for adaptation strategies to confront these risks. That study shows an upper range of end-of-century projections for permanent sea level rise, including the effects of temporary flooding due to a 100-year storm, of up to 108 inches above the 2015 average high tide. To implement this Plan, the Mayor's Sea Level Rise Coordinating Committee, co-chaired by the Planning Department and the Port of San Francisco, joined a number of other public agencies to create "Adapt SF," which is now drafting a Citywide Sea Level Rise Vulnerability Assessment, a Citywide Sea Level Rise Risk Assessment, a Sea Level Rise Adaptation Plan, public maps and tools to communicate sea level rise impacts and implementation of near-term adaptation projects. The City's Sea Level Rise Action Plan states that one key missing piece of information is an understanding of the effects of climate change on precipitation. Certain City departments are engaging a consultant team to model future storm events, quantify how climate change impacts extreme storms, and prepare an action plan for addressing climate change for use by the City departments. The consultants' study is expected to be completed in 2019.

In April 2017, the Working Group of the California Ocean Protection Council Science Advisory Team (in collaboration with several state agencies, including the California Natural Resource Agency, the Governor's Office of Planning and Research, and the California Energy Commission) published a report, that was formally adopted in March 2018, entitled "Rising Seas in California: An Update on Sea Level Rise Science" (the "Sea Level Rise Report") to provide a new synthesis of the state of science regarding sea level rise. The Sea Level Rise Report provides the basis for State guidance to state and local agencies for incorporating sea level rise into design, planning, permitting, construction, investment and other decisions. Among many findings, the Sea Level Rise Report indicates that the effects of sea level rise are already being felt in coastal California with more extensive coastal flooding during storms, exacerbated tidal flooding, and increased coastal erosion. In addition, the report notes that the rate of ice sheet loss from Greenland and Antarctic ice sheets poses a particular risk of sea level rise for the California coastline.

The City has already incorporated site specific adaption plans in the conditions of approval for certain large waterfront development projects, such as the Candlestick/Hunters Point Shipyard, Treasure Island, Pier 70 and Mission Rock projects. Also, the City has started the process of planning to fortify the Port's seawall from sea level rise, including an initial investment of about \$8 million during fiscal year 2017-18 and consideration of financing options. The City expects short term upgrades to cost over \$500 million and long term upgrades to cost more than \$5 billion.

Portions of the San Francisco Bay Area, including the City, are built on fill that was placed over saturated silty clay known as “Bay Mud.” This Bay Mud is soft and compressible, and the consolidation of the Bay Mud under the weight of the existing fill is ongoing. A report issued in March 2018 by researchers at UC Berkeley and the University of Arizona suggests that flooding risk from climate change could be exacerbated in the San Francisco Bay Area due to the sinking or settling of the ground surface, known as subsidence. The study claims that the risk of subsidence is more significant for certain parts of the City built on fill.

Projections of the effects of global climate change on the City are complex and depend on many factors that are outside the City’s control. The various scientific studies that forecast climate change and its adverse effects, including sea level rise and flooding risk, are based on assumptions contained in such studies, but actual events may vary materially. Also, the scientific understanding of climate change and its effects continues to evolve. Accordingly, the City is unable to forecast when sea level rise or other adverse effects of climate change (e.g., the occurrence and frequency of 100-year storm events and king tides) will occur. In particular, the City cannot predict the timing or precise magnitude of adverse economic effects, including, without limitation, material adverse effects on the business operations or financial condition of the City and the local economy during the term of the Bonds. While the effects of climate change may be mitigated by the City’s past and future investment in adaptation strategies, the City can give no assurance about the net effects of those strategies and whether the City will be required to take additional adaptive mitigation measures. If necessary, such additional measures could require significant capital resources.

In September 2017, the City filed a lawsuit against the five largest investor-owned oil companies seeking to have the companies pay into an equitable abatement fund to help fund investment in sea level rise adaptation infrastructure. In July 2018, the United States District Court, Northern District of California denied the plaintiffs’ motion for remand to state court, and then dismissed the lawsuit. The City appealed these decisions to the United States Court of Appeals for the Ninth Circuit, which is pending. While the City believes that its claims are meritorious, the City can give no assurance regarding whether it will be successful and obtain the requested relief from the courts, or contributions to the abatement fund from the defendant oil companies.

## **Cybersecurity**

The City, like many other large public and private entities, relies on a large and complex technology environment to conduct its operations, and faces multiple cybersecurity threats including, but not limited to, hacking, viruses, malware and other attacks on its computing and other digital networks and systems (collectively, “Systems Technology”). As a recipient and provider of personal, private, or sensitive information, the City has been the subject of cybersecurity incidents that have resulted in or could have resulted in adverse consequences to the City’s Systems Technology and that required a response action to mitigate the consequences. For example, in November 2016, the San Francisco Metropolitan Transportation Agency (the “SFMTA”) was subject to a ransomware attack which disrupted some of the SFMTA’s internal computer systems. Although the attack neither interrupted Muni train services nor compromised customer privacy or transaction information, SFMTA took the precaution of turning off the ticket machines and fare gates in the Muni Metro subway stations from Friday, November 25 until the morning of Sunday, November 27.

Cybersecurity incidents could result from unintentional events, or from deliberate attacks by unauthorized entities or individuals attempting to gain access to the City’s Systems Technology for the purposes of misappropriating assets or information or causing operational disruption and damage. To mitigate the risk of business operations impact and/or damage from cybersecurity incidents or cyber-attacks, the City invests in multiple forms of cybersecurity and operational safeguards. In November 2016, the City adopted a City-wide Cyber Security Policy (“Cyber Policy”) to support, maintain, and secure critical infrastructure and data systems. The objectives of the Cyber Policy include the protection of critical infrastructure and information, manage risk, improve cyber security event detection and remediation, and facilitate cyber awareness across all City departments. The City’s Department of Technology has established a cybersecurity

team to work across all City departments to implement the Cyber Policy. The City's Cyber Policy is reviewed periodically.

The City has also appointed a City Chief Information Security Officer ("CCISO"), who is directly responsible for understanding the business and related cybersecurity needs of the City's 54 departments. The CCISO is responsible for identifying, evaluating, responding, and reporting on information security risks in a manner that meets compliance and regulatory requirements, and aligns with and supports the risk posture of the City.

While City cybersecurity and operational safeguards are periodically tested, no assurances can be given by the City that such measures will ensure against other cybersecurity threats and attacks. Cybersecurity breaches could damage the City's Systems Technology and cause material disruption to the City's operations and the provision of City services. The costs of remedying any such damage or protecting against future attacks could be substantial. Further, cybersecurity breaches could expose the City to material litigation and other legal risks, which could cause the City to incur material costs related to such legal claims or proceedings.

### **Limitation on Remedies; Bankruptcy**

*General.* The rights of the owners of the Bonds are subject to limitations on legal remedies against the City, including applicable bankruptcy or similar laws affecting the enforcement of creditors' rights generally, now or hereafter in effect. Bankruptcy proceedings, if initiated, could subject the owners of the Bonds to judicial discretion and interpretation of their rights in bankruptcy proceedings or otherwise, and consequently may entail risks of delay, limitation or modification of the rights of the owners of the Bonds.

Bankruptcy courts are courts of equity and as such have broad discretionary powers. If the City were to become the debtor in a proceeding under Chapter 9 of the Bankruptcy Code, the parties to the proceedings may be prohibited from taking any action to collect any amount from the City (including *ad valorem* tax revenues) or to enforce any obligation of the City, without the bankruptcy court's permission. In such a proceeding, as part of its plan of adjustment in bankruptcy, the City may be able to alter the priority, interest rate, principal amount, payment terms, collateral, maturity dates, payment sources, covenants (including tax-related covenants), and other terms or provisions of the Bonds and other transaction documents related to the Bonds, as long as the bankruptcy court determines that the alterations are fair and equitable. In addition, in such a proceeding, as part of such a plan, the City may be able to eliminate the obligation of the City to raise taxes if necessary to pay the Bonds. There also may be other possible effects of a bankruptcy of the City that could result in delays or reductions in payments on the Bonds. Moreover, regardless of any specific adverse determinations in any City bankruptcy proceeding, the fact of a City bankruptcy proceeding, could have an adverse effect on the liquidity and market price of the Bonds.

As stated above, if the City were to go into bankruptcy, the bankruptcy petition would be filed under Chapter 9 of the Bankruptcy Code. Chapter 9 provides that it does not limit or impair the power of a state to control, by legislation or otherwise, a municipality of or in such state in the exercise of the political or governmental powers of such municipality, including expenditures for such exercise. For purposes of the language of Chapter 9, the City is a municipality. State law provides that the *ad valorem* taxes levied to pay the principal and interest on the Bonds shall be used for the payment of principal and interest of the City's general obligation bonds and for no other purpose. If this restriction on the expenditure of such *ad valorem* taxes is respected in a bankruptcy case, then the *ad valorem* tax revenue could not be used by the City for any purpose other than to make payments on the Bonds. It is possible, however, that a bankruptcy court could conclude that the restriction should not be respected.

*Statutory Lien.* Pursuant to Section 53515 of the California Government Code (which became effective on January 1, 2016, as part of Senate Bill 222), the Bonds will be secured by a statutory lien on all revenues received pursuant to the levy and collection of the *ad valorem* taxes levied for the Bonds. Section 53515 provides that the lien will automatically arise, without the need for any action or authorization by the



local agency or its governing board, and will be valid and binding from the time the bonds are executed and delivered. See “SECURITY FOR THE BONDS.” Although a statutory lien would not be automatically terminated by the filing of a Chapter 9 bankruptcy petition by the City, the automatic stay provisions of the Bankruptcy Code would apply and payments that become due and owing on the Bonds during the pendency of the Chapter 9 proceeding could be delayed (unless the Bonds are determined to be secured by a pledge of “special revenues” within the meaning of the Bankruptcy Code and the pledged taxes are applied to pay the Bonds in a manner consistent with the Bankruptcy Code).

**Special Revenues.** If the tax revenues that are pledged to the payment of the Bonds are determined to be “special revenues” within the meaning of the Bankruptcy Code, then the application in a manner consistent with the Bankruptcy Code of the pledged *ad valorem* revenues that are collected after the date of the bankruptcy filing should not be subject to the automatic stay. “Special revenues” are defined to include, among others, taxes specifically levied to finance one or more projects or systems of the debtor, but excluding receipts from general property, sales, or income taxes levied to finance the general purposes of the debtor. The City has specifically pledged the taxes for payment of the Bonds. Additionally, the *ad valorem* taxes levied for payment of the Bonds are permitted under the State Constitution only where the applicable bond proposition is approved by at least two-thirds of the votes cast. State law prohibits the use of the tax proceeds for any purpose other than payment of the bonds and the bond proceeds can only be used to fund the acquisition or improvement of real property and other capital expenditures included in the proposition so such tax revenues appear to fit the definition of special revenues. However, there is no binding judicial precedent dealing with the treatment in bankruptcy proceedings of *ad valorem* tax revenues collected for the payments of bonds in California, so no assurance can be given that a bankruptcy court would not hold otherwise.

In addition, even if the *ad valorem* tax revenues are determined to be “special revenues,” the Bankruptcy Code provides that special revenues can be applied to necessary operating expenses of the project or system, before they are applied to other obligations. This rule applies regardless of the provisions of the transaction documents. Thus, a bankruptcy court could determine that the City is entitled to use the *ad valorem* tax revenues to pay necessary operating expenses of the City before the remaining revenues are paid to the owners of the Bonds.

**Possession of Revenues; Remedies.** If the City goes into bankruptcy and has possession of tax revenues (whether collected before or after commencement of the bankruptcy), and if the City does not voluntarily pay such tax revenues to the owners of the Bonds, it is not entirely clear what procedures the owners of the Bonds would have to follow to attempt to obtain possession of such tax revenues, how much time it would take for such procedures to be completed, or whether such procedures would ultimately be successful.

## **Other Events**

Seismic events, wildfires, tsunamis, and other natural or man-made events may adversely impact persons and property within San Francisco, and damage City infrastructure and adversely impact the City’s ability to provide municipal services. For example, in August 2013, a massive wildfire in Tuolumne County and the Stanislaus National Forest burned over 257,135 acres (the “Rim Fire”), which area included portions of the City’s Hetch Hetchy Project. The Hetch Hetchy Project is comprised of dams (including O’Shaughnessy Dam), reservoirs (including Hetch Hetchy Reservoir which supplies 85% of San Francisco’s drinking water), hydroelectric generation and transmission facilities and water transmission facilities. SFPUC is currently conducting an overall conditions assessment of all dams in its system. Hetch Hetchy facilities affected by the Rim Fire included two power generating stations and the southern edge of the Hetch Hetchy Reservoir. There was no impact to drinking water quality. The City’s hydroelectric power generation system was interrupted by the fire, forcing the San Francisco Public Utilities Commission to spend approximately \$1.6 million buying power on the open market and using existing banked energy with PG&E. The Rim Fire inflicted approximately \$40 million in damage to parts of the City’s water and power infrastructure located in the region. Certain portions of the Hetch Hetchy Project such as Mountain Tunnel, an 18.9-mile water conveyance facility, are old

and deteriorating, and outages at critical points of the project could disrupt water delivery to significant portions of the region and/or cause significant costs and liabilities to the City. [SFPUC's adopted fiscal year 2019-28 capital plan includes approximately \$211 million for improvements to Mountain Tunnel to mitigate these vulnerabilities.]

In September 2010, a PG&E high pressure natural gas transmission pipeline exploded in San Bruno, California, with catastrophic results. PG&E owns, operates and maintains numerous gas transmission and distribution pipelines throughout the City.

With certain exceptions, the City believes that it is more economical to manage its risks internally and administer, adjust, settle, defend, and pay claims from budgeted resources (i.e., "self-insurance"). The City obtains commercial insurance in certain circumstances, including when required by bond or lease financing transactions and for other limited purposes. The City does not maintain commercial earthquake coverage, with certain minor exceptions. See APPENDIX A – "CITY AND COUNTY OF SAN FRANCISCO ORGANIZATION AND FINANCES – Litigation and Risk Management."

## **TAX MATTERS**

### **Tax Exemption**

*[To be reviewed/updated by Co-Bond Counsel.]* The delivery of the Bonds is subject to the opinion of Co-Bond Counsel to the effect that interest on the Bonds for federal income tax purposes (1) will be excludable from gross income, as defined in section 61 of the Internal Revenue Code of 1986, as amended to the date of such opinion (the "Code"), pursuant to section 103 of the Code and existing regulations, published rulings, and court decisions, and (2) will not be included in computing the alternative minimum taxable income of the owners thereof. The delivery of the Bonds is also subject to the delivery of the opinion of Co-Bond Counsel, based upon existing provisions of the laws of the State of California, that interest on the Bonds is exempt from personal income taxes of the State of California. The form of Co-Bond Counsel's opinion is set forth in APPENDIX F. The statutes, regulations, rulings, and court decisions on which such opinion is based are subject to change.

In rendering the foregoing opinions, Co-Bond Counsel will rely upon representations and certifications of the City made in a certificate dated the date of delivery of the Bonds pertaining to the use, expenditure, and investment of the proceeds of the Bonds and will assume continuing compliance by the City with the provisions of the Resolutions subsequent to the issuance of the Bonds. The Resolutions contain covenants by the City with respect to, among other matters, the use of the proceeds of the Bonds and the facilities financed therewith by persons other than state or local governmental units, the manner in which the proceeds of the Bonds are to be invested, the periodic calculation and payment to the United States Treasury of arbitrage "profits" from the investment of proceeds, and the reporting of certain information to the United States Treasury. Failure to comply with any of these covenants may cause interest on the Bonds to be includable in the gross income of the owners thereof from the date of the issuance of the Bonds.

Co-Bond Counsel's opinion is not a guarantee of a result, but represents their legal judgment based upon their review of existing statutes, regulations, published rulings and court decisions and the representations and covenants of the City described above. No ruling has been sought from the Internal Revenue Service (the "IRS") with respect to the matters addressed in the opinion of Co-Bond Counsel, and Co-Bond Counsel's opinion is not binding on the IRS. The IRS has an ongoing program of auditing the tax-exempt status of the interest on tax-exempt obligations. If an audit of the Bonds is commenced, under current procedures the IRS is likely to treat the City as the "taxpayer," and the owners of the Bonds would have no right to participate in the audit process. In responding to or defending an audit of the tax-exempt status of the interest on the Bonds, the City may have different or conflicting interests from the owners of the Bonds. Public awareness of any future audit of the Bonds could adversely affect the value and liquidity of the Bonds during the pendency of the audit, regardless of its ultimate outcome.

Except as described above, Co-Bond Counsel expresses no other opinion with respect to any other federal, state or local tax consequences under present law, or proposed legislation, resulting from the receipt or accrual of interest on, or the acquisition or disposition of, the Bonds. Prospective purchasers of the Bonds should be aware that the ownership of tax-exempt obligations such as the Bonds may result in collateral federal tax consequences to, among others, financial institutions, life insurance companies, property and casualty insurance companies, certain foreign corporations doing business in the United States, S corporations with subchapter C earnings and profits, individual recipients of Social Security or Railroad Retirement benefits, individuals otherwise qualifying for the earned income tax credit, owners of an interest in a financial asset securitization investment trust (“FASIT”), and taxpayers who may be deemed to have incurred or continued indebtedness to purchase or carry, or who have paid or incurred certain expenses allocable to, tax-exempt obligations. Prospective purchasers should consult their own tax advisors as to the applicability of these consequences to their particular circumstances.

Existing law may change to reduce or eliminate the benefit to bondholders of the exclusion of interest on the Bonds from gross income for federal income tax purposes. Any proposed legislation or administrative action, whether or not taken, could also affect the value and marketability of the Bonds. Prospective purchasers of the Bonds should consult with their own tax advisors with respect to any proposed or future changes in tax law.

### **Tax Accounting Treatment of Discount and Premium on Certain Bonds**

The initial public offering price of certain Bonds (the “Discount Bonds”) may be less than the amount payable on such Bonds at maturity. An amount equal to the difference between the initial public offering price of a Discount Bond (assuming that a substantial amount of the Discount Bonds of that maturity are sold to the public at such price) and the amount payable at maturity constitutes original issue discount to the initial purchaser of such Discount Bond. A portion of such original issue discount allocable to the holding period of such Discount Bond by the initial purchaser will, upon the disposition of such Discount Bond (including by reason of its payment at maturity), be treated as interest excludable from gross income, rather than as taxable gain, for federal income tax purposes, on the same terms and conditions as those for other interest on the Bonds described above under “Tax Exemption.” Such interest is considered to be accrued actuarially in accordance with the constant interest method over the life of a Discount Bond, taking into account the semiannual compounding of accrued interest, at the yield to maturity on such Discount Bond and generally will be allocated to an initial purchaser in a different amount from the amount of the payment denominated as interest actually received by the initial purchaser during the tax year.

However, such interest may be required to be taken into account in determining the amount of the branch profits tax applicable to certain foreign corporations doing business in the United States, even though there will not be a corresponding cash payment. In addition, the accrual of such interest may result in certain other collateral federal income tax consequences to, among others, financial institutions, life insurance companies, property and casualty insurance companies, S corporations with subchapter C earnings and profits, individual recipients of Social Security or Railroad Retirement benefits, individuals otherwise qualifying for the earned income tax credit, owners of an interest in a FASIT, and taxpayers who may be deemed to have incurred or continued indebtedness to purchase or carry, or who have paid or incurred certain expenses allocable to, tax-exempt obligations. Moreover, in the event of the redemption, sale or other taxable disposition of a Discount Bond by the initial owner prior to maturity, the amount realized by such owner in excess of the basis of such Discount Bond in the hands of such owner (adjusted upward by the portion of the original issue discount allocable to the period for which such Discount Bond was held) is includable in gross income.

Owners of Discount Bonds should consult with their own tax advisors with respect to the determination of accrued original issue discount on Discount Bonds for federal income tax purposes and with respect to the state and local tax consequences of owning and disposing of Discount Bonds. It is possible that, under applicable provisions governing determination of state and local income taxes, accrued interest on

Discount Bonds may be deemed to be received in the year of accrual even though there will not be a corresponding cash payment.

The initial public offering price of certain Bonds (the “Premium Bonds”) may be greater than the amount payable on such Bonds at maturity. An amount equal to the difference between the initial public offering price of a Premium Bond (assuming that a substantial amount of the Premium Bonds of that maturity are sold to the public at such price) and the amount payable at maturity constitutes premium to the initial purchaser of such Premium Bonds. The basis for federal income tax purposes of a Premium Bond in the hands of such initial purchaser must be reduced each year by the amortizable bond premium, although no federal income tax deduction is allowed as a result of such reduction in basis for amortizable bond premium. Such reduction in basis will increase the amount of any gain (or decrease the amount of any loss) to be recognized for federal income tax purposes upon a sale or other taxable disposition of a Premium Bond. The amount of premium which is amortizable each year by an initial purchaser is determined by using such purchaser’s yield to maturity.

Purchasers of the Premium Bonds should consult with their own tax advisors with respect to the determination of amortizable bond premium on Premium Bonds for federal income tax purposes and with respect to the state and local tax consequences of owning and disposing of Premium Bonds.

### **OTHER LEGAL MATTERS**

Certain legal matters incident to the authorization, issuance and sale of the Bonds and with regard to the tax status of the interest on the Bonds (see “TAX MATTERS” herein) are subject to the legal opinions of Norton Rose Fulbright US LLP, Los Angeles, California, and Amira Jackmon, Attorney at Law, Berkeley, California, Co-Bond Counsel to the City. The signed legal opinions of Co-Bond Counsel, dated and premised on facts existing and law in effect as of the date of original delivery of the Bonds, will be delivered to the initial purchaser of the Bonds at the time of original delivery of the Bonds.

The proposed form of the legal opinions of Co-Bond Counsel is set forth in APPENDIX F hereto. The opinions will speak only as of their date, and subsequent distributions of them by recirculation of this Official Statement or otherwise will create no implication that Co-Bond Counsel have reviewed or express any opinion concerning any of the matters referred to in the respective opinions subsequent to their date. In rendering their opinions, Co-Bond Counsel will rely upon certificates and representations of facts to be contained in the transcript of proceedings for the Bonds, which Co-Bond Counsel will not have independently verified.

Co-Bond Counsel undertake no responsibility for the accuracy, completeness or fairness of this Official Statement.

Certain legal matters will be passed upon for the City by the City Attorney and by Hawkins Delafield & Wood LLP, San Francisco, California, Disclosure Counsel.

Hawkins Delafield & Wood LLP has served as disclosure counsel to the City and in such capacity has advised the City with respect to applicable securities laws and participated with responsible City officials and staff in conferences and meetings where information contained in this Official Statement was reviewed for accuracy and completeness. Disclosure Counsel is not responsible for the accuracy or completeness of the statements or information presented in this Official Statement and has not undertaken to independently verify any of such statements or information. Rather, the City is solely responsible for the accuracy and completeness of the statements and information contained in this Official Statement. Upon the delivery of the Bonds, Disclosure Counsel will deliver a letter to the City which advises the City, subject to the assumptions, exclusions, qualifications and limitations set forth therein, that no facts came to attention of such firm which caused them to believe that the Official Statement as of its date and as of the date of delivery of the Bonds contained or contains any untrue statement of a material fact or omitted or omits to state any material fact

necessary to make the statements therein, in light of the circumstances under which they were made, not misleading. No purchaser or holder of the Bonds, or other person or party other than the City, will be entitled to or may rely on such letter or Hawkins Delafield & Wood LLP's having acted in the role of disclosure counsel to the City.

### **PROFESSIONALS INVOLVED IN THE OFFERING**

Public Resources Advisory Group, Oakland, California and Sperry Capital Inc., Sausalito, California, served as Co-Municipal Advisors to the City with respect to the sale of the Bonds. The Co-Municipal Advisors have participated with responsible City officials and staff in conferences and meetings where information contained in this Official Statement was reviewed and assisted the City in other matters relating to the planning, structuring, and sale of the Bonds. The Co-Municipal Advisors have not independently verified any of the data contained herein and have not conducted an independent investigation of the affairs of the City to determine the accuracy or completeness of this Official Statement and assume no responsibility for the accuracy or completeness of any of the information contained herein. The Co-Municipal Advisors, Co-Bond Counsel and Disclosure Counsel will all receive compensation for services rendered in connection with the Bonds contingent upon the sale and delivery of the Bonds. The City Treasurer is acting as paying agent and registrar with respect to the Bonds.

### **ABSENCE OF LITIGATION**

No litigation is pending or threatened concerning the validity of the Bonds, the ability of the City to levy the *ad valorem* tax required to pay debt service on the Bonds, the corporate existence of the City, or the entitlement to their respective offices of the officers of the City who will execute and deliver the Bonds and other documents and certificates in connection therewith. The City will furnish to the initial purchaser of the Bonds a certificate of the City as to the foregoing as of the time of the original delivery of the Bonds.

### **CONTINUING DISCLOSURE**

The City has covenanted for the benefit of the holders and beneficial owners of the Bonds to provide certain financial information and operating data relating to the City (the "Annual Report") not later than 270 days after the end of the City's fiscal year (which currently ends on June 30), commencing with the report for fiscal year 2018-19, which is due not later than March 26, 2020, and to provide notices of the occurrence of certain enumerated events. The Annual Report will be filed by the City with the Electronic Municipal Market Access System ("EMMA") of the Municipal Securities Rulemaking Board. The notices of enumerated events will be filed by the City with EMMA. The specific nature of the information to be contained in the Annual Report or the notices of enumerated events is summarized in APPENDIX D – "FORM OF CONTINUING DISCLOSURE CERTIFICATE." These covenants have been made in order to assist the purchaser of the Bonds in complying with Securities and Exchange Commission Rule 15c2-12(b)(5) (the "Rule"). In the last five years, the City has not failed to comply in all material respects with any previous undertakings with regard to the Rule to provide annual reports or notices of enumerated events

The City may, from time to time, but is not obligated to, post its Comprehensive Annual Financial Report and other financial information on the City Controller's web site at [www.sfgov.org/controller](http://www.sfgov.org/controller).

### **RATINGS**

Moody's Investors Service, Inc. ("Moody's"), S&P Global Ratings ("S&P"), and Fitch Ratings ("Fitch"), have assigned municipal bond ratings of "\_\_\_," "\_\_\_," and "\_\_\_," respectively, to the Bonds. Certain information not included in this Official Statement was supplied by the City to the rating agencies to be considered in evaluating the Bonds. The ratings reflect only the views of each rating agency, and any

explanation of the significance of any rating may be obtained only from the respective credit rating agencies: Moody's, at www.moodys.com; S&P, at www.spratings.com; and Fitch, at www.fitchratings.com. The information presented on the website of each rating agency is not incorporated by reference as part of this Official Statement. Investors are advised to read the entire Official Statement to obtain information essential to the making of an informed investment decision. No assurance can be given that any rating issued by a rating agency will be retained for any given period of time or that the same will not be revised or withdrawn entirely by such rating agency, if in its judgment circumstances so warrant. Any such revision or withdrawal of the ratings obtained may have an adverse effect on the market price or marketability of the Bonds. The City undertakes no responsibility to oppose any such downward revision, suspension or withdrawal.

### **SALE OF THE BONDS**

The Bonds are scheduled to be sold at competitive bid on \_\_\_\_\_, 2019, as provided in the Official Notice of Sale, dated \_\_\_\_\_, 2019 (the "Official Notice of Sale"). The Official Notice of Sale provides that all Bonds would be purchased if any were purchased, the obligation to make such purchase being subject to certain terms and conditions set forth in the Official Notice of Sale, the approval of certain legal matters by Co-Bond Counsel and certain other conditions. The Purchaser will represent to the City that the Bonds have been reoffered to the public at the price or yield to be stated on the inside cover page hereof.

### **MISCELLANEOUS**

Any statements in this Official Statement involving matters of opinion, whether or not expressly so stated, are intended as such and not as representations of fact. This Official Statement contains forecasts, projections, estimates and other forward-looking statements that are based on current expectations. The words "expects," "forecasts," "projects," "intends," "anticipates," "estimates," "assumes" and analogous expressions are intended to identify forward-looking statements. Such forecasts, projections and estimates are not intended as representations of fact or guarantees of results. Any such forward-looking statements inherently are subject to a variety of risks and uncertainties that could cause actual results or performance to differ materially from those that have been forecast, estimated or projected. This Official Statement is not to be construed as a contract or agreement between the City and the initial purchaser or owners and beneficial owners of any of the Bonds.

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The preparation and distribution of this Official Statement have been duly authorized by the Board of Supervisors of the City.

### **CITY AND COUNTY OF SAN FRANCISCO**

By: \_\_\_\_\_  
Benjamin Rosenfield  
Controller

**APPENDIX A**

**CITY AND COUNTY OF SAN FRANCISCO  
ORGANIZATION AND FINANCES**

**APPENDIX B**

**COMPREHENSIVE ANNUAL FINANCIAL REPORT  
OF THE CITY AND COUNTY OF SAN FRANCISCO  
FOR THE FISCAL YEAR ENDED JUNE 30, 2018**



**APPENDIX C**

**CITY AND COUNTY OF SAN FRANCISCO  
OFFICE OF THE TREASURER  
INVESTMENT POLICY**

APPENDIX D

FORM OF CONTINUING DISCLOSURE CERTIFICATE

\$ \_\_\_\_\_  
CITY AND COUNTY OF SAN FRANCISCO  
GENERAL OBLIGATION BONDS  
(CLEAN AND SAFE NEIGHBORHOOD  
PARKS BONDS, 2012)  
SERIES 2019C

\$ \_\_\_\_\_  
CITY AND COUNTY OF SAN FRANCISCO  
TAXABLE GENERAL OBLIGATION BONDS  
(AFFORDABLE HOUSING, 2015)  
SERIES 2019D

This Continuing Disclosure Certificate (the “Disclosure Certificate”) is executed and delivered by the City and County of San Francisco (the “City”) in connection with the issuance of the bonds captioned above (the “Bonds”). The City authorized the issuance of the 2019C Bonds by (i) Resolution No. 156-13, adopted by the Board of Supervisors of the City on May 21, 2013, and duly approved by the Mayor of the City on May 28, 2013, and (ii) Resolution No. \_\_\_\_-19, adopted by the Board of Supervisors of the City on \_\_\_\_\_, 2019, and duly approved by the Mayor of the City on \_\_\_\_\_, 2019 (together, the “2019C Resolutions”). The City authorized the issuance of the 2019D Bonds by (i) Resolution No. 407-16, adopted by the Board of Supervisors of the City on September 20, 2016, and duly approved by the Mayor of the City on September 29, 2016, and (ii) Resolution No. \_\_\_\_-19, adopted by the Board of Supervisors of the City on \_\_\_\_\_, 2019, and duly approved by the Mayor of the City on \_\_\_\_\_, 2019 (together, the “2019D Resolutions,” and with the 2019C Resolutions, the “Resolutions”). The City covenants and agrees as follows:

**SECTION 1. Purpose of the Disclosure Certificate.** This Disclosure Certificate is being executed and delivered by the City for the benefit of the Holders and Beneficial Owners of the Bonds and in order to assist the Participating Underwriters in complying with Securities and Exchange Commission Rule 15c2-12(b)(5).

**SECTION 2. Definitions.** The following capitalized terms shall have the following meanings:

“Annual Report” shall mean any Annual Report provided by the City pursuant to, and as described in, Sections 3 and 4 of this Disclosure Certificate.

“Beneficial Owner” shall mean any person which: (a) has or shares the power, directly or indirectly, to make investment decisions concerning ownership of any Bonds (including persons holding Bonds through nominees, depositories or other intermediaries) including, but not limited to, the power to vote or consent with respect to any Bonds or to dispose of ownership of any Bonds; or (b) is treated as the owner of any Bonds for federal income tax purposes.

“Dissemination Agent” shall mean the City, acting in its capacity as Dissemination Agent under this Disclosure Certificate, or any successor Dissemination Agent designated in writing by the City and which has filed with the City a written acceptance of such designation.

“Financial Obligation” means “financial obligation” as such term is defined in the Rule.

“Holder” shall mean either the registered owners of the Bonds, or, if the Bonds are registered in the name of The Depository Trust Company or another recognized depository, any applicable participant in such depository system.

“Listed Events” shall mean any of the events listed in Section 5(a) and 5(b) of this Disclosure Certificate.

“MSRB” shall mean the Municipal Securities Rulemaking Board or any other entity designated or authorized by the Securities and Exchange Commission to receive reports pursuant to the Rule. Until otherwise designated by the MSRB or the Securities and Exchange Commission, filings with the MSRB are to be made through the Electronic Municipal Market Access (EMMA) website of the MSRB currently located at <http://emma.msrb.org>.

“Participating Underwriter” shall mean any of the original underwriters or purchasers of the Bonds required to comply with the Rule in connection with offering of the Bonds.

“Rule” shall mean Rule 15c2-12(b)(5) adopted by the Securities and Exchange Commission under the Securities Exchange Act of 1934.

### **SECTION 3. Provision of Annual Reports.**

(a) The City shall, or shall cause the Dissemination Agent to, not later than 270 days after the end of the City’s fiscal year (which is June 30), commencing with the report for the 2018-19 Fiscal Year (which is due not later than March 26, 2020), provide to the MSRB an Annual Report which is consistent with the requirements of Section 4 of this Disclosure Certificate. If the Dissemination Agent is not the City, the City shall provide the Annual Report to the Dissemination Agent not later than 15 days prior to said date. The Annual Report must be submitted in electronic format and accompanied by such identifying information as is prescribed by the MSRB, and may cross-reference other information as provided in Section 4 of this Disclosure Certificate; *provided*, that if the audited financial statements of the City are not available by the date required above for the filing of the Annual Report, the City shall submit unaudited financial statements and submit the audited financial statements as soon as they are available. If the City’s Fiscal Year changes, it shall give notice of such change in the same manner as for a Listed Event under Section 5(e).

(b) If the City is unable to provide to the MSRB an Annual Report by the date required in subsection (a), the City shall send a notice to the MSRB in substantially the form attached as Exhibit A.

(c) The Dissemination Agent shall (if the Dissemination Agent is other than the City), file a report with the City certifying the date that the Annual Report was provided to the MSRB pursuant to this Disclosure Certificate.

**SECTION 4. Content of Annual Reports.** The City’s Annual Report shall contain or incorporate by reference the following information, as required by the Rule:

- (a) the audited general purpose financial statements of the City prepared in accordance with generally accepted accounting principles applicable to governmental entities;
- (b) a summary of budgeted general fund revenues and appropriations;
- (c) a summary of the assessed valuation of taxable property in the City;
- (d) a summary of the *ad valorem* property tax levy and delinquency rate;
- (e) a schedule of aggregate annual debt service on tax-supported indebtedness of the City; and
- (f) summary of outstanding and authorized but unissued tax-supported indebtedness of the City.

Any or all of the items listed above may be set forth in a document or set of documents, or may be included by specific reference to other documents, including official statements of debt issues of the City or related public entities, which are available to the public on the MSRB website. If the document included by reference is a final official statement, it must be available from the MSRB. The City shall clearly identify each such other document so included by reference.

#### **SECTION 5. Reporting of Significant Events.**

(a) The City shall give, or cause to be given, notice of the occurrence of any of the following events numbered 1-9 with respect to the Bonds not later than ten business days after the occurrence of the event:

1. Principal and interest payment delinquencies;
2. Unscheduled draws on debt service reserves reflecting financial difficulties;
3. Unscheduled draws on credit enhancements reflecting financial difficulties;
4. Substitution of credit or liquidity providers, or their failure to perform;
5. Issuance by the Internal Revenue Service of proposed or final determination of taxability or of a Notice of Proposed Issue (IRS Form 5701 TEB) or adverse tax opinions;
6. Tender offers;
7. Defeasances;
8. Rating changes;
9. Bankruptcy, insolvency, receivership or similar event of the obligated person; or
10. Default, event of acceleration, termination event, modification of terms, or other similar events under the terms of a Financial Obligation of the City, any of which reflect financial difficulties.

Note: for the purposes of the event identified in subparagraph (9), the event is considered to occur when any of the following occur: the appointment of a receiver, fiscal agent or similar officer for an obligated person in a proceeding under the U.S. Bankruptcy Code or in any other proceeding under State or federal law in which a court or governmental authority has assumed jurisdiction over substantially all of the assets or business of the obligated person, or if such jurisdiction has been assumed by leaving the existing governmental body and officials or officers in possession but subject to the supervision and orders of a court or governmental authority, or the entry of an order confirming a plan of reorganization, arrangement or liquidation by a court or governmental authority having supervision or jurisdiction over substantially all of the assets or business of the obligated person.

(b) The City shall give, or cause to be given, notice of the occurrence of any of the following events numbered 10-16 with respect to the Bonds not later than ten business days after the occurrence of the event, if material:

11. Unless described in paragraph 5(a)(5), other material notices or determinations by the Internal Revenue Service with respect to the tax status of the Bonds or other material events affecting the tax status of the Bonds;
12. Modifications to rights of Bondholders;
13. Unscheduled or contingent Bond calls;
14. Release, substitution, or sale of property securing repayment of the Bonds;
15. Non-payment related defaults;
16. The consummation of a merger, consolidation, or acquisition involving an obligated person or the sale of all or substantially all of the assets of the obligated person, other

than in the ordinary course of business, the entry into a definitive agreement to undertake such an action or the termination of a definitive agreement relating to any such actions, other than pursuant to its terms;

17. Appointment of a successor or additional trustee or the change of name of a trustee;

18. Incurrence of a Financial Obligation of the City, or agreement to covenants, events of default, remedies, priority rights, or other similar terms of a Financial Obligation of the City, any of which affect security holders.

(c) The City shall give, or cause to be given, in a timely manner, notice of a failure to provide the annual financial information on or before the date specified in Section 3, as provided in Section 3(b).

(d) Whenever the City obtains knowledge of the occurrence of a Listed Event described in Section 5(b), the City shall determine if such event would be material under applicable federal securities laws.

(e) If the City learns of the occurrence of a Listed Event described in Section 5(a), or determines that knowledge of a Listed Event described in Section 5(b) would be material under applicable federal securities laws, the City shall within ten business days of occurrence file a notice of such occurrence with the MSRB in electronic format, accompanied by such identifying information as is prescribed by the MSRB. Notwithstanding the foregoing, notice of the Listed Event described in subsection 5(b)(12) need not be given under this subsection any earlier than the notice (if any) of the underlying event is given to Holders of affected Bonds pursuant to the Resolutions.

**SECTION 6. Termination of Reporting Obligation.** The City's obligations under this Disclosure Certificate shall terminate upon the legal defeasance, prior redemption or payment in full of all of the Bonds. If such termination occurs prior to the final maturity of the Bonds, the City shall give notice of such termination in the same manner as for a Listed Event under Section 5(e).

**SECTION 7. Dissemination Agent.** The City may, from time to time, appoint or engage a Dissemination Agent to assist it in carrying out its obligations under this Disclosure Certificate, and may discharge any such Agent, with or without appointing a successor Dissemination Agent. The Dissemination Agent shall have only such duties as are specifically set forth in this Disclosure Certificate.

**SECTION 8. Amendment; Waiver.** Notwithstanding any other provision of this Disclosure Certificate, the City may amend or waive this Disclosure Certificate or any provision of this Disclosure Certificate, provided that the following conditions are satisfied:

(a) If the amendment or waiver relates to the provisions of Sections 3(a), 3(b), 4, 5(a) or 5(b), it may only be made in connection with a change in circumstances that arises from a change in legal requirements, change in law, or change in the identity, nature or status of an obligated person with respect to the Bonds or the type of business conducted;

(b) The undertaking, as amended or taking into account such waiver, would, in the opinion of the City Attorney or nationally recognized bond counsel, have complied with the requirements of the Rule at the time of the original issuance of the Bonds, after taking into account any amendments or interpretations of the Rule, as well as any change in circumstances; and

(c) The amendment or waiver either (i) is approved by the owners of a majority in aggregate principal amount of the Bonds or (ii) does not, in the opinion of the City Attorney or nationally recognized bond counsel, materially impair the interests of the Holders.

In the event of any amendment or waiver of a provision of this Disclosure Certificate, the City shall describe such amendment in the next Annual Report, and shall include, as applicable, a narrative explanation of the reason for the amendment or waiver and its impact on the type (or in the case of a change of accounting principles, on the presentation) of financial information or operating data being presented by the City. In addition, if the amendment relates to the accounting principles to be followed in preparing financial statements: (i) notice of such change shall be given in the same manner as for a Listed Event under Section 5; and (ii) the Annual Report for the year in which the change is made should present a comparison (in narrative form and also, if feasible, in quantitative form) between the financial statements as prepared on the basis of the new accounting principles and those prepared on the basis of the former accounting principles.

**SECTION 9. Additional Information.** Nothing in this Disclosure Certificate shall be deemed to prevent the City from disseminating any other information, using the means of dissemination set forth in this Disclosure Certificate or any other means of communication, or including any other information in any Annual Report or notice of occurrence of a Listed Event, in addition to that which is required by this Disclosure Certificate. If the City chooses to include any information in any Annual Report or notice of occurrence of a Listed Event in addition to that which is specifically required by this Disclosure Certificate, the City shall have no obligation under this Disclosure Certificate to update such information or include it in any future Annual Report or notice of occurrence of a Listed Event.

**SECTION 10. Remedies.** In the event of a failure of the City to comply with any provision of this Disclosure Certificate, any Participating Underwriter, Holder or Beneficial Owner of the Bonds may take such actions as may be necessary and appropriate to cause the City to comply with its obligations under this Disclosure Certificate; provided that any such action may be instituted only in a federal or state court located in the City and County of San Francisco, State of California, and that the sole remedy under this Disclosure Certificate in the event of any failure of the City to comply with this Disclosure Certificate shall be an action to compel performance.

**SECTION 11. Beneficiaries.** This Disclosure Certificate shall inure solely to the benefit of the City, the Dissemination Agent, the Participating Underwriters and Holders and Beneficial Owners from time to time of the Bonds, and shall create no rights in any other person or entity.

Date: \_\_\_\_\_, 2019.

CITY AND COUNTY OF SAN FRANCISCO

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Benjamin Rosenfield  
Controller

Approved as to form:

DENNIS J. HERRERA  
CITY ATTORNEY

By: \_\_\_\_\_  
Deputy City Attorney

**CONTINUING DISCLOSURE CERTIFICATE**

**EXHIBIT A**

**FORM OF NOTICE TO THE  
MUNICIPAL SECURITIES RULEMAKING BOARD  
OF FAILURE TO FILE ANNUAL REPORT**

Name of City: CITY AND COUNTY OF SAN FRANCISCO

Name of Bond Issue: CITY AND COUNTY OF SAN FRANCISCO GENERAL OBLIGATION BONDS  
(EMBARCADERO SEAWALL EARTHQUAKE SAFETY, 2018) SERIES 2019C

Date of Issuance: \_\_\_\_\_, 2019

NOTICE IS HEREBY GIVEN to the Municipal Securities Rulemaking Board that the City has not provided an Annual Report with respect to the above-named Bonds as required by Section 3 of the Continuing Disclosure Certificate of the City and County of San Francisco, dated \_\_\_\_\_, 2019. The City anticipates that the Annual Report will be filed by \_\_\_\_\_.

Dated: \_\_\_\_\_

CITY AND COUNTY OF SAN FRANCISCO

By: \_\_\_\_\_ [to be signed only if filed]  
Title: \_\_\_\_\_

## APPENDIX E

### DTC AND THE BOOK ENTRY ONLY SYSTEM

*The information in numbered paragraphs 1-10 of this Appendix E, concerning The Depository Trust Company (“DTC”) and DTC’s book-entry system, has been furnished by DTC for use in official statements and the City takes no responsibility for the completeness or accuracy thereof. The City cannot and does not give any assurances that DTC, DTC Participants or Indirect Participants will distribute to the Beneficial Owners (a) payments of interest or principal with respect to the Bonds, (b) certificates representing ownership interest in or other confirmation or ownership interest in the Bonds, or (c) redemption or other notices sent to DTC or Cede & Co., its nominee, as the registered owner of the Bonds, or that they will so do on a timely basis, or that DTC, DTC Participants or DTC Indirect Participants will act in the manner described in this Appendix. The current “Rules” applicable to DTC are on file with the Securities and Exchange Commission and the current “Procedures” of DTC to be followed in dealing with DTC Participants are on file with DTC. As used in this appendix, “Securities” means the Bonds, “Issuer” means the City, and “Agent” means the Paying Agent.*

1. The Depository Trust Company (“DTC”) will act as securities depository for the securities (the “Securities”). The Securities will be issued as fully-registered securities registered in the name of Cede & Co. (DTC’s partnership nominee) or such other name as may be requested by an authorized representative of DTC. One fully-registered Security certificate will be issued for the Securities, in the aggregate principal amount of such issue, and will be deposited with DTC.

2. DTC, the world’s largest securities depository, is a limited-purpose trust company organized under the New York Banking Law, a “banking organization” within the meaning of the New York Banking Law, a member of the Federal Reserve System, a “clearing corporation” within the meaning of the New York Uniform Commercial Code, and a “clearing agency” registered pursuant to the provisions of Section 17A of the Securities Exchange Act of 1934. DTC holds and provides asset servicing for over 3.5 million issues of U.S. and non-U.S. equity issues, corporate and municipal debt issues, and money market instruments (from over 100 countries) that DTC’s participants (“Direct Participants”) deposit with DTC. DTC also facilitates the post-trade settlement among Direct Participants of sales and other securities transactions in deposited securities, through electronic computerized book-entry transfers and pledges between Direct Participants’ accounts. This eliminates the need for physical movement of securities certificates. Direct Participants include both U.S. and non-U.S. securities brokers and dealers, banks, trust companies, clearing corporations, and certain other organizations. DTC is a wholly-owned subsidiary of The Depository Trust & Clearing Corporation (“DTCC”). DTCC is the holding company for DTC, National Securities Clearing Corporation and Fixed Income Clearing Corporation, all of which are registered clearing agencies. DTCC is owned by the users of its regulated subsidiaries. Access to the DTC system is also available to others such as both U.S. and non-U.S. securities brokers and dealers, banks, trust companies, and clearing corporations that clear through or maintain a custodial relationship with a Direct Participant, either directly or indirectly (“Indirect Participants”). DTC has a Standard & Poor’s rating of AA+. The DTC Rules applicable to its Participants are on file with the Securities and Exchange Commission. More information about DTC can be found at [www.dtcc.com](http://www.dtcc.com).

3. Purchases of Securities under the DTC system must be made by or through Direct Participants, which will receive a credit for the Securities on DTC’s records. The ownership interest of each actual purchaser of each Security (“Beneficial Owner”) is in turn to be recorded on the Direct and Indirect Participants’ records. Beneficial Owners will not receive written confirmation from DTC of their purchase. Beneficial Owners are, however, expected to receive written confirmations providing details of the transaction, as well as periodic statements of their holdings, from the Direct or Indirect Participant through which the Beneficial Owner entered into the transaction. Transfers of ownership interests in the Securities are to be accomplished by entries made on the books of Direct and Indirect Participants acting on behalf of Beneficial Owners. Beneficial Owners will not receive certificates representing their ownership interests in Securities, except in the event that use of the book-entry system for the Securities is discontinued.



4. To facilitate subsequent transfers, all Securities deposited by Direct Participants with DTC are registered in the name of DTC's partnership nominee, Cede & Co., or such other name as may be requested by an authorized representative of DTC. The deposit of Securities with DTC and their registration in the name of Cede & Co. or such other DTC nominee do not effect any change in beneficial ownership. DTC has no knowledge of the actual Beneficial Owners of the Securities; DTC's records reflect only the identity of the Direct Participants to whose accounts such Securities are credited, which may or may not be the Beneficial Owners. The Direct and Indirect Participants will remain responsible for keeping account of their holdings on behalf of their customers.

5. Conveyance of notices and other communications by DTC to Direct Participants, by Direct Participants to Indirect Participants, and by Direct Participants and Indirect Participants to Beneficial Owners will be governed by arrangements among them, subject to any statutory or regulatory requirements as may be in effect from time to time.

6. Redemption notices shall be sent to DTC. If less than all of the Securities within an issue are being redeemed, DTC's practice is to determine by lot the amount of the interest of each Direct Participant in such issue to be redeemed.

7. Neither DTC nor Cede & Co. (nor any other DTC nominee) will consent or vote with respect to Securities unless authorized by a Direct Participant in accordance with DTC's MMI Procedures. Under its usual procedures, DTC mails an Omnibus Proxy to Issuer as soon as possible after the record date. The Omnibus Proxy assigns Cede & Co.'s consenting or voting rights to those Direct Participants to whose accounts Securities are credited on the record date (identified in a listing attached to the Omnibus Proxy).

8. Redemption proceeds, distributions, and dividend payments on the Securities will be made to Cede & Co., or such other nominee as may be requested by an authorized representative of DTC. DTC's practice is to credit Direct Participants' accounts upon DTC's receipt of funds and corresponding detail information from Issuer or Agent, on payable date in accordance with their respective holdings shown on DTC's records. Payments by Participants to Beneficial Owners will be governed by standing instructions and customary practices, as is the case with securities held for the accounts of customers in bearer form or registered in "street name," and will be the responsibility of such Participant and not of DTC, Agent, or Issuer, subject to any statutory or regulatory requirements as may be in effect from time to time. Payment of redemption proceeds, distributions, and dividend payments to Cede & Co. (or such other nominee as may be requested by an authorized representative of DTC) is the responsibility of Issuer or Agent, disbursement of such payments to Direct Participants will be the responsibility of DTC, and disbursement of such payments to the Beneficial Owners will be the responsibility of Direct and Indirect Participants.

9. DTC may discontinue providing its services as depository with respect to the Securities at any time by giving reasonable notice to Issuer or Agent. Under such circumstances, in the event that a successor depository is not obtained, Security certificates are required to be printed and delivered.

10. Issuer may decide to discontinue use of the system of book-entry-only transfers through DTC (or a successor securities depository). In that event, Security certificates will be printed and delivered to DTC.

**APPENDIX F**

**PROPOSED FORM OF OPINION OF CO-BOND COUNSEL**

[Closing Date]