

Barclays Bank US

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Item #	Line Item	Notes	Unit Price	Qty/Unit	Attch.	Docs
GEN2126726Q1--01-01	Library of Bond Underwriters	Supplier Product Code:	First Offer -	1 / contract	Y	Y

Supplier Total **\$0.00**

Barclays Bank US

Item: **Library of Bond Underwriters**

Attachments

Barclays Broward County RFP Response.pdf

*Response to Request for Qualifications:
Library of Bond Underwriters
(Solicitation GEN2126726Q1)*

Broward County, Florida

Broward County Board of County Commissioners



August 15, 2023



August 15, 2023

Dazarene Lescott and Latoya Clark-Forbes
Purchasing Agent
Broward County Board of County Commissioners
115 S Andrews Avenue RM 513
Fort Lauderdale, FL 33301

Dear Dazarene and Latoya,

On behalf of Barclays Capital Inc. ("Barclays"), the investment banking division of Barclays Bank PLC ("Barclays Bank"), we are pleased to provide our response to Broward County, Florida's (the "County") Request for Qualifications: Library of Bond Underwriters. We believe that our firm is well-qualified to serve the County given our extensive municipal bond structuring and underwriting experience, including in airport bond financings, exceptionally strong capital base and our commitment to Florida issuers, as summarized below.

National Leader in Municipal Bond Underwriting. Barclays is a leading municipal bond underwriter. Since June of 2020, our firm has completed over 400 senior managed, long-term negotiated financings with a par value of greater than \$66 billion. Recent major primary market tax-exempt financings of note for which Barclays served as senior manager include the \$1.7 billion Puerto Rico Aqueduct & Sewer Authority Revenue Refunding Bonds, Series 2022A-C; the \$2.3 billion State of California Various Purpose General Obligation Refunding Bonds, Series 2022; the \$3.0 billion Regents of the University of California Medical Center Pooled Revenue Bonds, 2022 Series Q; and the \$1.1 billion New Jersey Economic Development Authority, School Facilities Construction Refunding Bonds, Series RRR/SSS.

Financial Strength and Commitment to Municipal Finance. As one of the world's largest banks with a \$1.5 trillion balance sheet, Barclays Bank is one of the best-capitalized firms in the industry. Our financial strength enables us to deliver top-notch capital markets execution to the County through our willingness and ability to support its financings under any market conditions. Since 2010, Barclays has committed nearly \$3.5 billion to support unsold balances for long-term negotiated municipal issues. Barclays does not have a policy which formally limits the allocation of capital to any specific business, enabling the firm to underwrite a financing for the County of any size that it could reasonably contemplate.

Commitment to Florida. Barclays also upholds a strong Florida presence and is dedicated to serving the needs of the County and other Florida issuers. Since 2010, the Barclays team has senior managed approximately \$6.7 billion in financings for Florida borrowers including Miami-Dade County Public Schools, St. Johns District Industrial Development Authority, the City of St. Petersburg, Martin Memorial Medical Center, Brevard District Health Facilities, Miami Airport, Miami-Dade Seaport Department, the City of Palm Coast, the University of Miami, the Orlando Utilities Commission and City of Gainesville, Florida, among others. ***During that time, we have also served as co-senior or co-manager on nearly \$24 billion of Florida issues. Additionally, Barclays currently has over \$200 million in credit facilities outstanding to issuers in Florida.***

We look forward to the opportunity to provide the County with creative financing ideas, resource support, and superior market execution. Barclays would be honored to have the opportunity to serve the County. Thank you for your consideration.

Sincerely,



James Henn, Managing Director
james.henn@barclays.com
(212) 526-2134



Luis Alfaro, Managing Director
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(305) 789-5674 / (787) 296-6831

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Firm's History

1. Give a brief history of your firm (maximum of one page).

While Barclays Bank PLC ("Barclays Bank") has been working to help its clients achieve their goals for over 330 years, the development of the bank's global business began in 1925, with the merger of three banks – the Colonial Bank, the Anglo-Egyptian Bank and the National Bank of South Africa. Currently, Barclays Bank has over 120,000 employees. In 1981, Barclays Bank became the first foreign bank to file with the U.S. Securities and Exchange Commission and raise long-term capital in the New York market. In 1986, it became the first British bank to have its shares listed on the Tokyo and New York stock exchanges. Barclays Bank's global expansion was given added impetus in 1986 with the creation of its investment banking operation in the form of Barclays Capital Inc. ("Barclays").

Barclays' acquisition of select assets from Lehman Brothers Holdings Inc. continues the heritage that is rooted in the fixed income markets. Lehman Brothers underwrote its first municipal bond for the State of Alabama in 1867 and our team continues its proud tradition and commitment to the public finance arena under Barclays. Given the financial diversification of the Barclays brand, strong credit ratings, and the strength of a \$1.5 trillion balance sheet, we have an enhanced ability to provide highly experienced underwriting services in the municipal industry.

Headquartered in New York City, Barclays employs over 18,000 people worldwide in 46 offices, including 13 registered branch offices in 13 cities in the U.S. – including in Miami, Florida. Barclays maintains leadership positions in public finance and investment banking; fixed income and equity sales, trading and research; private equity; and investment management. With nearly 2,000 fixed income sales, trading and research professionals worldwide, we serve every investor segment and place securities across the entire credit curve in multiple currencies.

To effectively serve our municipal issuer clients, our Municipal Product Division combines 1) Public Finance; 2) Underwriting, Sales, Trading and Research; 3) Structured and Investment Products; and 4) Credit Products into one seamless business unit. Our **Public Finance Department** consists of approximately 80 public finance banking professionals organized into six regional groups and five industry specialty groups (Transportation/P3, Education, Healthcare, Housing and Utilities). Of relevance to the County, our Transportation Finance/P3 Group consists of 12 banking professionals. Our Transportation Finance/P3 Group covers the full range of airport, port, highway, toll road and transit issuers. Our P3 specialists, while sector-agnostic, most frequently focus on transportation-related projects.

Barclays' **Municipal Underwriting, Sales, Trading and Research Department** is responsible for the underwriting, sales and trading of municipal long-term, short-term, tax-exempt and taxable securities. Our **Structured and Investment Products Group** works with issuers to structure direct purchase, swap-based and investment products. Through our **Municipal Credit Products Group**, Barclays Bank offers a full range of traditional commercial bank credit and lending products.

Our Municipal Product Division has been led by **Robert Taylor**, *Managing Director*, since February 2010. Mr. Taylor has over 30 years of experience in the municipal business, including managing our Municipal Swaps and Investment Products Group for 10 years prior to his current role.

Firm's Key Personnel

2. Identify the key staff to be assigned to this engagement, including their roles and specific credit experience. Provide a brief resume for each including length of tenure with your firm.

Team Members. Barclays serves Broward County with one of the industry's most experienced and stable teams of municipal finance professionals. Our two senior bankers to the County have worked together at Barclays for 10 years. Additionally, our two lead airport/port bankers have dedicated a combined 57 years, working together at Lehman/Barclays for over 25 years, to serve airports like Fort Lauderdale International Airport (FLL), Miami International Airport, Tampa International Airport, Orlando



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International, among dozens of others. Our lead underwriter has priced innumerable financings during his over 35-year career at Lehman/Barclays. With the many recent changes in airport and other municipal finance personnel at other firms, our team's long-term dedication to municipal finance and stability are unparalleled among investment banks.

Our core team members' roles, office locations, tenures and experience are summarized in **Figure 1**.

Figure 1: Barclays Team				
Team Member	Role	Location	Experience Firm/Industry	Experience
Luis Alfaro	Senior Oversight; Co-Lead Banker	FL	10/22 yrs.	<ul style="list-style-type: none"> • 22 years in municipal finance • >\$40 billion of refinancing and new money transactions
James Henn	Senior Oversight; Co-Lead Airport/ Port Banker	NY	32/32 yrs.	<ul style="list-style-type: none"> • Head of Transportation Finance Group • 32 years focused on airport finance • >\$100 billion of airport transactions
Katherine Lee	Co-Lead Airport/ Port Banker	NY	25/27 yrs.	<ul style="list-style-type: none"> • 25 years dedicated to airport finance • >\$80 billion of airport transactions
Danish Shaik	Banking Support	NY	<2/2 yrs.	<ul style="list-style-type: none"> • Banking support for Phoenix Airport
Riley Benz	Banking Support	NY	<1/1 yr.	<ul style="list-style-type: none"> • Banking support for MWAA and Phoenix Airport
Hiran Cantu	Credit & Investor Analytics	NY	13/30 yrs.	<ul style="list-style-type: none"> • 11 airport issues totaling \$6.3 billion (since 2019) • 8 years' experience as credit analyst
Frank Vitiello	Lead Underwriter	NY	37/37 yrs.	<ul style="list-style-type: none"> • 37 years of municipal underwriting experience • 70+ airport issues totaling \$60b+ par
Greg Williams	Credit Products	NY	10/18 yrs.	<ul style="list-style-type: none"> • >\$70 billion of debt, equity, M&A & other financial product transactions
Jonathan Debrich	Structured Products	NY	17/17 yrs.	<ul style="list-style-type: none"> • >\$50 billion of direct purchase, swap and other structured products

Luis Alfaro, *Managing Director and Manager of Florida Coverage*, oversees our firm's municipal finance efforts in the State of Florida and will have primary responsibility for any engagement with the County. Luis joined Barclays in 2013 and covers Florida issuers such as Hillsborough County, Miami-Dade County, the City of Orlando, Duval County Public Schools, Central Florida Expressway Authority, Miami-Dade County School District, Osceola County School District, City of Jacksonville and Palm Beach, among others. He is also lead banker for the U.S. Virgin Islands and for the Commonwealth of Puerto Rico and its various issuers. His experience includes structuring debt transactions (loans and lines of credit), bond issues, purchases and sales of securities, structuring of other financial products, and notably leading the successful sale of \$1.7 billion of refunding bonds across four series for the Puerto Rico Aqueduct & Sewer Authority. Luis has formulated strategies and financial and organizational development plans for a series of major public institutions and has handled more than \$40 billion in refinancing and new money transactions. Among other achievements, Luis has been a part of the following: creation of the Puerto Rico Sales Tax Financing Corporation ("COFINA") for the issuance of Sales Tax Revenue Bonds, restructuring of auction rate and variable rate debt portfolios and a Bond Buyer Deal of the Year Award for the Puerto Rico Housing & Finance City \$385 million modernization program transaction.

James Henn, *Managing Director and Manager of Transportation Finance Group*, provides joint lead responsibility for our coverage of the County. He has dedicated the preponderance of his 32-year career at Lehman/Barclays to airport and infrastructure finance. During this time, he has led or been involved in over \$100 billion of airport-related transactions, including over \$50 billion as senior manager. James also served as lead banker and dealer manager in 2021 for the Puerto Rico Aqueduct and Sewer Authority's \$1.0 billion tender and exchange, and has served as co-tender agent on more than \$25 billion of tenders and exchanges for Puerto Rico issuers in recent years. James first introduced the idea for a securitization of Puerto Rico's then-proposed income tax in 2004. After being named senior manager on COFINA's inaugural issuance in 2006, Mr. Henn worked extensively with GDB and senior government

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officials to develop the legislation and legal framework upon which COFINA is built.

Katherine Lee, *Director*, is a senior member of our Transportation Finance Group and spearheads Barclays' coverage of airports. Having focused almost exclusively on airport finance during her 25-year career, she has led or been involved in over \$80 billion of airport transactions. Within the past 10 years, she has led senior managed financings for large airports such as Chicago-O'Hare, Dallas/Ft. Worth, Denver, Los Angeles, Miami, Minneapolis-St. Paul and Phoenix Airports; the Metropolitan Washington Airports Authority (Reagan National and Dulles Airports, "MWAA"); and the Port of Seattle (Seattle-Tacoma Airport, "SEA"), among many others.

Danish Shaik, *Analyst*, would provide quantitative and transaction support. Danish recently provided execution support for Barclays' senior managed transaction for Phoenix Airport.

Riley Benz, *Analyst*, would also provide quantitative and transaction support. Riley recently provided execution support for Barclays' senior managed transactions for Phoenix Airport and MWAA.

Hiran Cantu, *Director and Manager of Credit & Investor Analytics Group*, Hiran has been involved in municipal finance for 25 years. Hiran's finance experience encompasses assignments as a credit rating analyst, surveillance analyst, a municipal financial advisor and an investment banker. Hiran previously worked at Fitch Ratings, where he was lead credit analyst for several high profile clients and authored several criteria and special reports. He has also worked at a financial bond insurer where he managed the credit surveillance of over 1,500 credits. In his investment banking capacity, he has served as senior banker on several senior managed financings for issuers around the country and has created tailored credit rating frameworks and assisted clients with their rating agency and investor presentations.

Greg Williams, *Managing Director and Manager of Municipal Credit Group*, is responsible for structuring, implementing, and managing financial solutions for organizations, issuers, and institutional clients. Prior to rejoining Barclays in 2019, Greg spent four years as the Chief Financial Officer of PIH Health, an integrated healthcare delivery system with over \$1 billion in revenue headquartered in Los Angeles County. Before PIH Health, Greg spent six years at Barclays as an investment banker and co-led a derivatives and financial structuring group, where he served a variety of organizations and issuers in capital raising, advisory, and implementation of financial solutions. During his career Greg has structured over \$70 billion in debt, equity, M&A, and other financial products.

Jonathan Debrich, *Managing Director and Manager of Municipal Structured and Investment Products Group*, began his career in 2005 as a member of our municipal strategy and research group. He is responsible for developing tailored financing strategies to address clients' needs and reduce risk, and previously worked with the municipal syndicate group as a negotiated underwriter. Jonathan has extensive experience working with Florida Issuers and presenting opportunities for the use of derivatives and investment products, including forward purchase agreements, bond options and swaps, among other products.

Frank Vitiello, *Director and Senior Member of Municipal Syndicate Desk*, serves as our lead underwriter for the County. Frank is a 37-year veteran of municipal underwriting and has led the pricing of hundreds of billions of municipal bonds. Frank is also Barclays' lead underwriter for airport issuances; few – if any – other underwriter has priced more airport bonds than Frank. Over the course of his career, Mr. Vitiello has directed the pricing of over \$60 billion of financings by large airports, including most recently for Boston-Logan, Chicago-O'Hare, Dallas/Ft. Worth, Denver, Los Angeles, Miami, Minneapolis, Philadelphia and Phoenix Airports, MWAA and SEA, among many others.

Should the County pursue a tender program, our team would also include Michael Britchkow, *Director*, from our Municipal Finance Department and members of Barclays' **Liability Management Group**.

Airport and Port Expertise. *With Barclays' dedicated Transportation Finance Group, we believe that our team is especially well-positioned to assist the County with financing needs relating to its airport and port credits. As previously noted, our two lead airport/port bankers have dedicated a combined 57 years, working together at Lehman/Barclays for over 25 years, to serve airports*



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like Fort Lauderdale Airport (FLL). Our team consistently ranks among the top underwriters of airport bonds and maintains a particular focus on serving the needs of large airports. Within the State, Barclays is currently a member of bond underwriting teams for both Orlando and Tampa Airports. We have also served as senior managing underwriter for the Port of Seattle, the Port of Tacoma, Port Authority of New York and New Jersey and the Massachusetts Port Authority.

For 2023YTD, Barclays has an ~16% market share among senior managers of airport revenue bonds. As summarized in **Figure 2**, Barclays has to date served as underwriter for 5 issues this year, including 3 as book-runner or co-senior manager. Barclays will serve as book-runner for Chicago-O'Hare Airport's ~\$180 million bond issuance set to price in the third week of August, and was recently engaged by San Francisco Airport to serve as book-running senior manager for an ~\$800+ million financing this fall.

Barclays has also led the largest single issuance of airport revenue bonds since 3Q/2022, having senior managed Denver Airport's \$1.2 billion issue in November 2022. This financing remains one of only three airport transactions in excess of \$1 billion to be executed within the past 12 months.

Figure 2: Barclays' 2023 Airport Experience			
Date	Issuer	Par	Role
Feb-23	San Francisco Airport	\$242m	Co-Mgr.
May-23	Phoenix Airport	\$97m	Book-runner
May-23	MWAA	\$436m	Book-runner
Jun-23	Houston Airports	\$756m	Co-Senior Mgr.
Jul-23	Salt Lake City Airport	\$600m	Co-Mgr.
Aug-23*	Chicago-O'Hare Airport	\$180m*	Book-runner
Oct-23*	San Francisco Airport	\$800m*	Book-runner
Total		\$3,111m*	

2023 Year-to-Date Highlights

- ✓ Underwriter for 5 airport issuances
- ✓ Book-runner for two large hub airport issues totaling \$533 million over the past two months, with 18% market share
- ✓ One of only 2 firms to have brought at least 2 large hub airport issuers to market this year
- ✓ Underwrote \$84 million of unsold balances as book-runner for MWAA

*Preliminary, subject to change

3. Does your firm maintain any full-time public finance offices in Florida? If so, provide location, staffing, and contact information and identify which, if any, of these offices that will be involved in providing Underwriter Services.

Barclays maintains an office in Miami, Florida that employs 9 professionals. The office is located at 1111 Brickell Avenue, 12th Floor, Miami, FL 33131. Luis Alfaro, Managing Director and lead day-to-day banker to the County, is based out of Barclays' Miami office and can be contacted at (320) 432-4631. Luis provides our clients with in-depth analysis of the Florida market, regional coverage and commitment and the highest level of service. Florida clients, and specifically those in South and Central Florida, are a key focus for the firm, and we will continue to commit additional resources to the County, the State and its agencies. Our team has a longstanding history with Florida issuers and is familiar with a variety of Florida credits, including the County's. Several members of the County's assigned banking team have served high-profile Florida issuers, including: Miami-Dade and Hillsborough County, the Orlando Utilities Commission, Central Florida Expressway, Miami-Dade Expressway, Miami Airport, Florida Hurricane Catastrophe Fund, Sunshine State Government Finance Commission, the City of Jacksonville, Duval County Public Schools and Miami-Dade County School Board, among others.

Barclays is committed to its coverage in Florida, committing four experienced senior officers to work with the largest issuers in the region. Our team is proud of its recent efforts and commitment to the Florida region, and as a result of these efforts, **Barclays has been able to expand its client base and has been included in several underwriting pools, such as Duval County Public Schools, City of Jacksonville, Central Florida Expressway (CFX), Broward County Schools, Greater Orlando Aviation Authority and Hillsborough County Aviation Authority, among others.** Since 2010, we have been involved on over \$30 billion of Florida transactions.

Firm's Institutional Sales Experience

4. List retail and institutional sales experience for Airport, Port, Water and Sewer, Convention Center/Convention Center Hotel, General Obligation, Certificate of Participation, Special Obligation, Sports Facilities, and all other debt for which your firm served as Senior or Co-Manager in the past 5 years. Separate and subtotal by the type of debt listed above and include role, method of sale, date of issue, issue name, issue size, Rating, TIC, and gross spread.

Barclays is a leader in municipal finance, ranking 8th nationwide in long-term, negotiated transactions over \$100 million since 2013. More importantly, we are a leader in structuring, marketing and pricing complicated and challenging transactions that require in-depth quantitative analysis and nuanced marketing. This focus on serving the largest and most complex issuers like the County translates into our 6th place national ranking in terms of average deal size. As one of the world's largest banks, Barclays is able to underwrite a municipal transaction of up to \$85 billion, enough to support multiple times the amount of the County's debt outstanding.

Please see **Appendix B** for a list of Barclays' senior and co-managed transactions over the past 5 years in the requested categories.

Barclays' capabilities have earned accolades industry-wide, including 2017 DCM (Debt Capital Markets) House of the Year, multiple Bond Buyer deal of the year awards, designations as "Bond House of the Year" and "North America Structured Finance House" by International Financing Review, "Best Global Debt House" and "World's Best Bank for Public Sector Clients" by Euromoney and #1 rankings in fixed income for 10 consecutive years by Greenwich Associates. Barclays' sales capabilities and balanced distribution network will ensure the successful placement of the County's bonds both in Florida as well as nationally. Barclays' sales capabilities and distribution structure are designed to provide the County with access to the complete range of national, regional and local investors that are most likely to participate in its bond issues, regardless of structure or product type.

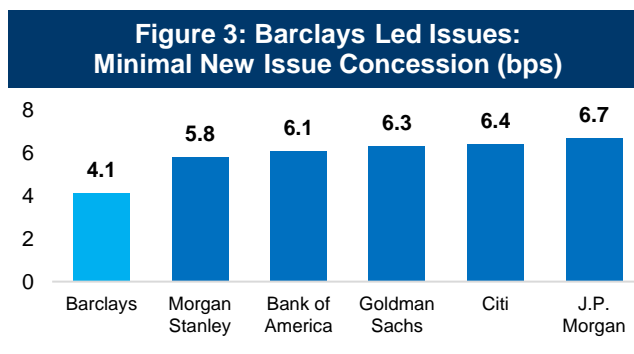
5. Over the term of this Underwriter Library, Broward County anticipates potential bond issuances across the County's various credits. Given the diversity of County credits, and your understanding of the County's ratings and finances, identify which transactions could be done competitively in normal market conditions and present your marketing strategies for those credits you recommend to be sold via negotiated sale.

Competitive vs. Negotiated Issuances. We believe that with the County's current credit rating strength, strong financial position and relative scarcity of the County's bonds, that it could issue debt on a negotiated or competitive basis for certain of its credits, e.g., General Obligation, Half Cent Sales Tax or Water & Sewer credit. We strongly recommend issuing debt for more complex enterprise credits on a negotiated basis, especially for credits like the Airport and Port which will also likely require a significant portion of their debt to be subject to the AMT.

While a competitive issuance may be appealing in certain markets, we believe that the County would forego several potential benefits associated with a negotiated issuance process. Specifically, if the County were to utilize a negotiated issuance process, it would: (i) maintain control over takedown, as opposed to the banks controlling the takedown; (ii) gain transparency of investor demand for each maturity providing the County valuable feedback; (iii) benefit from investment banking services and better implement an investor outreach/pre-marketing program, which could include investor luncheons and one-on-one calls; (iv) reach a larger investor base through the use of a syndicate and a retail order period, unlocking access to individual retail investors not reached in a competitive issuance; and (v) enable the generation of "reverse inquiries" from investors, enabling the County to better match its issuance structure to meet investor demand. Consequently, we would recommend a negotiated sale for each of the County's credits, which would be consistent with the County's previous sale practice.

Marketing Plan for Negotiated Issuances. As senior manager, Barclays will develop and implement a comprehensive marketing effort to best position the County's credit to investors. As we discuss below, our marketing approach would incorporate a full range of activities designed to maximize investor awareness and understanding of its credit profile. To successfully develop a compelling credit narrative and encourage strong investor participation, Barclays' proven marketing approach is centered on the following four principal components, which would ultimately expand the County's investor base and reduce its borrowing cost as a result:

1. **“Launching” and Posting the Preliminary Official Statement (“POS”).** The POS remains a central element of the marketing process. We would work with the County and its financing team to prepare the POS and to evaluate the optimal timing for its distribution. On a preliminary basis, we suggest posting the POS one to two weeks prior to pricing, which would allow sufficient time to implement a full range of activities to reach and educate investors. We would anticipate disseminating the POS to the nearly 300 investors covered by our municipal salesforce.
2. **Develop and offer an investor presentation highlighting credit strengths and important security features.** We will work with the County to prepare an electronic road show which will be released to a broad investor base at the same time as the distribution of the POS. The electronic road show will provide an overview of the financing and address the credit features of the transaction. Depending on the credit, we would likely suggest offering investors the opportunity for one-on-one conference calls with County officials. Our investor clients have repeatedly emphasized the value they place on these interactions as they can ask questions openly. More often than not, one-on-one interactions that we have arranged resulted in large anchor orders that provide positive momentum during the pricing of a transaction.
3. **Identify a target list of high-probability investors including both current holders and potential new investors.** Barclays leverages the significant capabilities of our Credit & Investor Analytics Group to enhance our marketing process and pricing results. With extensive analysis of public and proprietary data based on our active participation in the secondary market, this team develops substantial insight in investor activity and preferences. As result, we are able to successfully identify investor targets who publicly report their holdings, as well as many who do not. This team further supports our sales force with a Notable Investor List that highlights investors well-positioned to participate in the transaction, rationale for their participation, along with summary data for 150+ targeted investors.
4. **Manage a tailored set of marketing activities towards targeted investors in order to generate maximum demand for the bonds.** Barclays will create and distribute an internal Sales Point Memo that provides key information to our sales force and traders. Together with the POS, investor conference calls and electronic road show, this memo serves as the basis for our sales efforts and includes transaction information, security features and an analysis of key credit characteristics.



MSRB Data: 1/1/2018–4/30/2022; tax-exempt, 5% coupon, >10 yr. maturities, trade size>\$1mm. Excludes March 2020 due to market volatility.

Highlighting the success of our approach, Barclays' investor targeting program typically identifies, prior to posting the POS, investors who eventually account for over 85-90% of orders for a given transaction. Our effectiveness is additionally highlighted by **Figure 3**, which shows that bonds priced by Barclays trade with the smallest new-issue concession compared to other firms. Newly-issued bonds typically trade at a concession, i.e., at a higher price (or lower yield), after they become “free to trade” when the



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BPA has been executed. **Figure 3** highlights Barclays' success pricing bonds with the smallest new issue concession, translating into the lowest borrowing costs for our clients.

6. Describe your marketing plan to achieve the highest local and retail participation. List all retail sales offices located in Broward County.

As senior manager, Barclays will leverage one of the top fixed income distribution franchises in the industry with a reach that extends to key professional retail aggregators and individual Florida and national retail investors.

In addition to the strategies discussed above to help maximize institutional demand, below we discuss several steps that the County can take in order to maximize individual demand. This would include early and active involvement in the transaction of the co-managers and the selling group, if any, in order to maximize participation of individual retail buyers, providing the internet roadshow early in the marketing process, maximizing communication with an early syndicate call in advance of and during the retail order period and early release of a pre-marketing scale to provide individual retail investors with price guidance so that brokers can more effectively market to retail accounts. In addition to good communication within the syndicate and ample time to market to retail investors, we describe in detail below strategies the County should consider utilizing to ensure maximum outreach to retail investors.

- 1. Timing.** Individual retail investors often need more time than institutional investors to make investment decisions. We thus recommend releasing a premarketing scale at least one day prior to pricing to allow the sales force to focus retail investors on the specific structure of the transaction. This provides the additional benefit of allowing institutional investors the opportunity to evaluate the structure and provide input to our underwriters.
- 2. Retail Priority.** To maximize retail participation, we recommend giving traditional retail investors priority, with the top priority to Florida-domiciled individual investors, followed by national individual retail and then institutional orders. This ensures that retail investors and syndicate members will be confident that their orders will be filled.
- 3. Couponing, Term and Call Structure.** Barclays recommends a structure that includes both premium couponed bonds, which are preferred by institutional investors and retail aggregators seeking to maximize tax-exempt cash flows, as well as bonds priced at or near par to target traditional individual retail investors. Based upon market conditions, we could create retail coupons in specific parts of the yield curve where we anticipate the most market demand. It is important that this structuring approach is agreed upon in the marketing period so that the syndicate can mobilize their brokers and increase traditional retail demand.
- 4. Retail-Only Order Period.** A retail order period can be an effective tool to maximize retail distribution and provides incentives for retail brokers to market an issue. For non-interest rate sensitive issues, we would recommend a one-day retail order period, followed by institutional pricing the following day. We may recommend restricting the maturities offered during the retail order period to concentrate interest in those parts of the curve that appeal most strongly to retail buyers.
- 5. Inclusion of a Selling Group.** Utilizing a selling group can enhance retail distribution of the Authority's issuance. To the extent that a selling group is used, we recommend the County select a selling group with a significant private client presence in Florida to supplement the underwriting team.

We are mindful of the County's local retail participation goals and our team will employ the above initiatives to work with each syndicate member to maximize retail distribution. Barclays does not maintain a retail sales office in Broward County.

Firm's Past Performance

7. Provide three case studies for financings completed by your firm within the past 3 years. Describe unique challenges encountered and results and how they could apply to the County.



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\$426,225,000 Metropolitan Washington Airports Authority (“MWAA”) Airport System Revenue and Refunding Bonds, Series 2023A (AMT). Barclays led the pricing of this successful transaction on May 24, 2023.

Key Financing Objectives and Structure. The Series 2023A Bonds (“Bonds”) were issued to i) fund costs of certain capital projects at Reagan National and Dulles International Airports, ii) refund MWAA’s outstanding Series 2013A, and iii) repay a revolving loan note. The Bonds’ ratings of ‘Aa3/AA-/AA-’ were affirmed by Moody’s, S&P and Fitch, respectively.

Barclays worked with MWAA and its financial advisor to optimize the overall debt structure, including front-loading debt service savings to reduce near-term cost per enplanement at Dulles Airport. Additionally, Barclays worked with MWAA to offer the entire issue with a par call in 9 years – rather than the traditional 10 years – to enhance MWAA’s future refunding optionality and flexibility. To meet investor preferences and maximize demand, Barclays also worked with MWAA to offer bonds with 5.25%, 5% and 4.50% coupons.

Marketing and Investor Distribution. The week leading up to pricing saw a high degree of volatility in the financial markets, highlighted by growing concerns about the lack of progress on debt-ceiling negotiations and FOMC members’ public statements warning of potential future additional rate hikes. In the week leading up to pricing, MMD had increased by 25-50 bps across the curve, including by 10 bps across the curve (except for the 2024 maturity) on the day before pricing. Additionally, late in the afternoon before pricing, \$8 million of MWAA bonds maturing in 2025 traded at 16 basis points higher than our pre-marketing scale, adding significant pressure to increase MWAA’s yields before opening the order period the next morning.

Despite challenging market conditions, Barclays’ investor outreach efforts produced a robust order book, totaling \$2.2 billion of orders (5.1x subscription) placed by 63 unique investors. Barclays’ investor targeting efforts identified – prior to the posting of the POS – 17 of the 26 investors who do not publicly report holdings but placed orders for the Bonds. Among these, we secured orders from 9 new investors, i.e., investors who were not reported holders of MWAA bonds and had not traded MWAA bonds recently with Barclays or in the bids-wanted exchanges. Ultimately, with some maturities receiving no investor orders due to the inversion of the yield curve, Barclays offered to take \$84 million of unsold balances into inventory at verbal award.



\$1.2 Billion City & County of Denver, Colorado Airport System Revenue Bonds, Series 2022C and Series 2022D. On November 3, 2022 Barclays led the successful sale of \$1.2 billion Airport System Revenue Bonds, Series 2022C-D, by the City and County of Denver, Colorado (“City”), for and on behalf of Denver International Airport (“DEN”). The Series 2022C-D Bonds, rated “Aa3/AA-/AA-” by Moody’s, S&P and Fitch, respectively, were issued to fund new money needs, refund certain outstanding bonds for debt service savings and pay the costs of terminating certain swaps.

This transaction highlights Barclays’ ability to execute a large and complex financing under challenging market conditions. The municipal market remained under significant pressure the week prior to pricing, with tax-exempt yields unchanged even as Treasuries improved, and with secondary market selling (“bids wanted”) reaching peak levels. On the day before pricing, the Fed raised its benchmark rate by 75 bps as expected; based on certain dovish language in its statement, both Treasury and municipal markets reacted favorably with yields falling. By the morning of pricing, however, both markets began to trade with higher yields as investors digested Chairman Powell’s remarks from the day prior, which indicated that interest rates would likely remain higher for longer. Barclays ultimately decided to delay launching the order period as we continued to work with investors to develop their indications while monitoring the Treasury market and early MMD reads. Barclays ultimately generated orders from 110 unique investors despite substantial market volatility and, with \$7.9 billion of orders, tightened yields by 2-14 bps at repricing.



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\$1.7 Billion Puerto Rico Aqueduct and Sewer Authority Revenue Refunding Bonds, Series 2021ABC and Series 2022A.

In August 2021, Barclays: (i) led the successful sale of \$1.7 billion of refunding bonds across four series for PRASA; and (ii) acted as dealer manager for PRASA's simultaneous tender/exchange. The Series 2021ABC current delivery bonds refunded the Series 2012AB bonds for significant savings, and the Series 2022A forward delivery bonds refunded the remaining Series 2012A bonds that were not tendered or exchanged for. Barclays analyzed PRASA's then-current holders and, in coordination with our investor marketing team and sales desk, used the information gained including investor concentration and feedback, to propose and successfully execute a dual cash and exchange tender transaction for the Series 2012A bonds. Prior to marketing, Barclays worked closely with PRASA's financial advisor to develop a targeted strategy that maximized the deal's success, including maximizing the number of investors reached at the lowest cost to PRASA, while also reducing the amount of work for the issuer and preserving PRASA's traditional investor base. A dedicated information, tender, and exchange agent was used and the tender period was open for three weeks to ensure sufficient investor access and communication – most of which was handled by Barclays.

The deal saw robust demand, with \$3.9 billion in total orders and the Series 2022A forward bonds pricing only 18-25 basis points wider than the rest of the transaction, even with a 10-month forward delivery. Barclays facilitated one-on-one calls with investors who ultimately tendered or exchanged a total of \$446.5 million of bonds. In aggregate, Barclays generated \$1.0 billion in tender and exchange orders from investors across 35 different funds. The transaction generated: (i) \$570 million of gross debt service savings, including more than \$21 million of annual savings in each of FY 2022-47; (ii) \$362 million of PV savings, or 20% of refunded par; (iii) an all-in TIC of 3.21%; and (iv) all investors consented to modify the priority of payments under PRASA's Master Agreement of Trust back to a "net pledge."

8. Provide references of three local or statewide issuers for which your firm served as Senior or Co-Manager. Refer to **Vendor Reference Verification Form and submit as instructed.**

Please refer to the Vendor Reference Verification Forms.

Firm's Approach

9. What strategies would your firm recommend to incorporate into bond issuances in light of the repeal of the advance refunding authority. Describe the potential costs and benefits of each strategy from both the County and the investor's perspective.

The County can consider several strategies to realize savings on bonds with future call dates. As the County is aware, tax-exempt forward delivery and taxable advance refunding strategies have been successfully executed by municipal issuers for many years. Under current market conditions, we note the following:

1. Taxable advance refundings of the County's Series 2015A/B Airport System Revenue Bonds and Series 2015A/B Water & Sewer Utility Revenue Bonds do not provide present value debt service savings.
2. Current refunding of the County's Series 2012 Q-1 Airport System Revenue Bonds have a refundable par of \$108.6mm, and produce present value debt service savings of \$6.2mm (5.7%).
3. Recognizing that July 3, 2025 is the earliest date on which tax-exempt refunding bonds can be issued under tax law, investor demand for forward delivery bonds that are delivered more than 15 months after pricing is extremely limited – making a forward delivery refunding approach viable beginning 2nd quarter of 2024.
4. Additionally, Barclays is able to work with the County to enter into a forward direct purchase of its refunding bonds. This strategy would allow the County to set rates for its refunding bonds and lock in savings quickly and expeditiously since we would not require the preparation of a POS and full marketing program. We are able to purchase bonds with a longer forward delivery period than the ~15-month forward period accepted by the public market. And, depending on the length

of the forward period, Barclays may be able to purchase the County's bonds at rates that are lower than in the public market.

5. A tender offer to holders of the County's Airport System Revenue Bonds Series 2019C can produce \$12.9 million of present value savings (6.0%).
6. Finally, a cash optimization refunding of the County's Airport System Revenue Bonds Series 2015A produces \$9.0 million in present value savings (2.4%).

As member of the County's underwriting team, Barclays would continuously monitor all of these opportunities and strategies, as they are likely to become more attractive over time.

Tender Program. A significant number of municipal issuers have undertaken and executed successful tender programs in recent months to realize substantial debt service savings, and in some cases, recapture optional redemption flexibility. Regarding potential costs and benefits, the County should be aware that unlike traditional refundings, the economic benefits associated with tenders depend directly on investor willingness to tender their bonds back to the County, which in turn depends on their investment objectives, market conditions and outlook, among other potential considerations.

Given this uncertainty, a significant but manageable tender process, along with the customary legal documentation and marketing process for a new issuance, we strongly recommend executing a tender process in conjunction with a new money (or refunding) issuance, rather than as a stand-alone endeavor.

We note that the results presented below reflect all estimated expenses associated with executing a tender program, and importantly, an estimation of likely investor participation rates. Lastly, we note that due to certain SEC guidelines and DTC policies, our sample financing schedule includes at least 10 days to conduct the tender offer period. While manageable, a tender process could limit the County's flexibility to adjust the timing of the pricing in response to changing market conditions.

Taxable to Tax-Exempt Tender Opportunity. Subject to review by tax counsel, it is our belief that all \$694.7 million of the County's outstanding taxable Airport System Revenue Bonds Series 2019C Bonds are likely eligible to be refinanced on a tax-exempt basis (at any time) given their underlying escrows will fully expire on October 1, 2023. Per its Debt Financing Policy Guidelines, we expect the County to adhere to a 3% NPV savings target. The combination of favorable ratios between the MMD Index and U.S. Treasury yields (which have led to a historically wide spread between tax-exempt and taxable yields), coupled with a higher interest rate environment (that has generally caused taxable municipal bonds to trade at a discount to par) creates a unique opportunity for the County to generate meaningful savings by (i) soliciting a tender offer for the 2019C Bonds ("Target Bonds") to purchase them below par and (ii) simultaneously issuing tax-exempt bonds on a current delivery basis. That said, given market volatility, the assumption-driven nature of tender analyses, and the ability to reject bonds offered for tender if they do not meet the County's savings criteria at the time of pricing, we also considered a universe of candidates that provide at least positive NPV savings as bonds slightly below the savings threshold may become viable targets with changing volatility and assumptions.

Preliminary Financing Results. Barclays is pleased to update our analysis of this tender opportunity that we first shared with the County and its financial advisors in November 2022. It should be noted that we have made certain assumptions regarding the use of AMT and Non-AMT refunding bonds that would be subject to review by legal counsel. Using the indicative scales provided in **Appendix A** and as summarized in **Figure 4**, and assuming a \$3.00 per bond tender premium (in line with the market average), a tender of the Target Bonds, assuming 100% participation generates \$36.9 million of total PV savings, or 6.0% of refunded par. Assuming 35% participation, which is in line with the average participation for tenders of outstanding municipal taxable bonds since 2017, the proposed tender generates \$12.9 million of total PV savings (6.0%). We have additionally included **Figure 5** that shows individual savings by maturity for the Series 2019C Bonds assuming 100% participation. The items



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shaded in blue denote those bonds that pass the County's Debt Financing Policy Guidelines of 3% per maturity.

Figure 4: Key Refinancing Statistics for Taxable to Tax Exempt Tender of 2019C Bonds (\$MM)¹

			AMT (36.5%)			Non-AMT (63.5%)			Total		
Series	Outstanding Principal Amount	Participation	Par Amount Tendered	PV Savings (\$)	PV Savings (%)	Par Amount Tendered	PV Savings (\$)	PV Savings (%)	Par Amount Tendered	PV Savings (\$)	PV Savings (%)
2019C	\$694.7	100%	184.1	8.0	4.3%	432.0	28.9	6.7%	616.1	36.9	6.0%
		35%	64.4	2.8	4.3%	151.2	10.1	6.7%	215.6	12.9	6.0%

Figure 5: Monitor Results for Taxable to Tax Exempt Tender of 2019C Bonds (\$MM)^{1,2}

				AMT (36.5%)			Non-AMT (63.5%)			Total		
Maturity	T/E Eligible Par ²	Coupon (%)	Tender Price (%) ³	Refunded Par	Net PV Savings (\$)	Net PV Savings (%)	Refunded Par	Net PV Savings (\$)	Net PV Savings (%)	Refunded Par	Net PV Savings (\$)	Net PV Savings (%)
2024	7.1	2.07	100.3	2.6	-0.1	-2.24%	4.5	-0.1	-1.96%	7.1	-0.1	-2.06%
2025	7.2	2.25	97.93	2.6	0.0	-1.04%	4.6	0.0	-0.33%	7.2	0.0	-0.59%
2026	63.1	2.38	96.16	23.0	0.0	-0.01%	40.1	0.5	1.16%	63.1	0.5	0.73%
2027	35.6	2.40	94.40	13.0	0.1	0.98%	22.6	0.6	2.61%	35.6	0.7	2.01%
2028	38.1	2.50	92.88	13.9	0.3	1.97%	24.2	1.0	4.15%	38.1	1.3	3.36%
2029	21.6	2.53	91.09	7.9	0.2	3.03%	13.7	0.8	5.89%	21.6	1.0	4.84%
2030	22.2	2.73	90.28	8.1	0.3	4.26%	14.1	1.1	7.67%	22.2	1.4	6.42%
2031	22.8	2.81	89.00	8.3	0.4	5.24%	14.5	1.3	9.29%	22.8	1.8	7.81%
2032	23.4	2.91	87.93	8.6	0.5	6.14%	14.9	1.6	10.85%	23.4	2.1	9.13%
2033	24.1	3.03	87.30	8.8	0.6	6.44%	15.3	1.8	11.73%	24.1	2.4	9.80%
2034	46.0	3.08	86.14	16.8	1.1	6.40%	29.2	3.4	11.53%	46.0	4.4	9.66%
2043	383.4	3.48	86.68	139.9	4.0	2.85%	243.5	16.9	6.92%	383.4	20.8	5.44%
Total (All Bonds)				253.6	7.5	2.95	441.1	28.8	6.53	694.7	36.3	5.23
Total ("Savers" Only)				184.1	8.0	4.35	432.0	29.0	6.70	616.1	37.0	6.00

Importantly, tender programs typically achieve investor participation rates ranging from 20-50%, depending primarily on: i) the universe of current holders and the level of concentration, and ii) the indicative tender pricing, which we discuss below.

Investor Identification and Outreach. To maximize investor participation in the tender program, Barclays analyzes publicly available information as an initial source of existing bondholder information relating to potential tender targets. We also leverage our significant secondary market trading experience to identify additional bondholders and to develop insight as to their appetite to tender their bonds.

Barclays identified all publicly available unique holders of the Target Bonds, who own \$452 million bonds, representing 65% of total outstanding par amount. Also, as shown in **Figure 6**, the top 10 holders account for 39% of total, outstanding par and are comprised mainly of insurance companies. As a near-term "next step" in evaluating the potential value of this proposed tender, we recommend that the County – working with its trustee – use the Non-Objecting Beneficial

Figure 6: Top Current Holders of Target Bonds³

Rank	Firm	Par (\$000s)	% Outstanding
1	Guggenheim	76,642	11.0%
2	Nationwide Insurance	39,716	5.7%
3	Nuveen	29,530	4.3%
4	Wellington Mgmt	26,578	3.8%
5	Metropolitan Life Ins	20,285	2.9%
6	BlackRock	19,350	2.8%
7	NJ Manufacturers Ins	16,220	2.3%
8	New York Life	15,717	2.3%
9	Voya	14,020	2.0%
10	Apollo Insurance	13,905	2.0%
Total Top 10		271,963	39.1%
Total Identified		452,017	65.1%
Total Outstanding		694,700	100.0%

¹ Assumes market rates and BVAL prices as of August 10, 2023, \$3.00 tender premium, tender and delivery date of November 16, 2023, \$5 per bond issuance expenses, and \$2 per bond tender agent fee.

² Subject to review by tax counsel, we have assumed that 100% of each maturity can be refinanced on a tax-exempt basis (36.5% AMT and 63.5% non-AMT).

³ Source: Refinitiv EMAXX. As of August 10, 2023.



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Owners (“NOBO”) investor identification process to identify additional holders of the Target Bonds. A NOBO list shows beneficial owners that do not disclose their municipal bond holdings (e.g., banks, SMAs, retail) but have indicated that they do not object to their name, mailing address, and position amount being shared. Barclays would welcome the opportunity to utilize our previous experience with the NOBO Process to assist the County.

To further enhance investor outreach, Barclays recommends engaging Globic Advisors (“Globic”) to serve as information/tender agent. Globic would support the process by identifying and engaging with bondholders, distributing tender offer materials, interfacing with DTC and receiving and processing tender offers.

Purchase Price. We recommend a “fixed spread” methodology – the most common for tenders of taxable bonds - under which target tender bonds are offered for repurchase at a yield that is equal to the relevant benchmark security rate plus a fixed spread. Barclays considers the estimated market value of the bond as computed by a commercial bond pricing service, typically from either Intercontinental Exchange (“ICE”) or Bloomberg (“BVAL”). We also analyze recent trades in the secondary market to ensure these pricing levels are consistent with recent market activity and accurately reflect current investor views. Our observed tender premiums average about \$3.00 per bond however can range anywhere from \$1.00 to \$4.50, and reflect considerations around bond maturity, duration and investor base, to induce investor participation.

Strategies to Increase Participation. To further entice participation, Barclays would work with the County evaluate a variety of incentive strategies, including: (i) providing a tender premium sweetener for tendering earlier in the offer window (a common practice for corporate tenders which have longer offer periods); (ii) giving priority in orders or allotments on the refunding bond side (or perhaps in a future transaction) for tender participants; and (iii) utilizing a solicitation fee scheme that compensates banks who can bring in retail participation (also a common practice for tenders).

Tender Regulatory Framework & Timing. Municipal tenders are governed by federal antifraud provisions included in Rule 10b-5 and Section 17(a), and while municipal issuers are exempt from the onerous provisions in Regulations 14D and 14E governing corporate tenders, these rules - together with the SEC’s 2015 no-action letter - serve as a useful benchmark for the municipal market and offer insights

into tender practices that the SEC may view as concerning with respect to antifraud laws. Relating to scheduling, the SEC is principally focused on ensuring investors have sufficient time to appropriately consider the tender proposal. As shown in a sample financing schedule that contemplates pricing on November 1 in **Figure 7**, the tender process can be incorporated readily into a potential new money bond offering. We propose a tender offer period of 10-12 business days, all depending on economic events, holidays or other considerations

during the tender offer window. This timeline has been common practice for municipal tenders and allows investors sufficient time to evaluate the tender offer, thereby potentially increasing their participation. Barclays would work closely with the County to determine the optimal timeline and financing schedule to execute the proposed tender program alongside the County’s planned issuance.

Figure 7: Key Marketing & Tender Program Activities

	Bond Issue	Tender Program
Sep- Early Oct	Initiate Investor Targeting Program; Prepare Offering Documents; Post Notice of Potential Bond Issuance on EMMA	Initiate Bondholder Identification & Engagement; Prepare Tender Documents; Post Notice of Potential Tender on EMMA
	Fri, Oct 13	Post POS and Investor Presentation
Thu, Oct 19	Marketing Period	Purchase Price Notice, <i>if desired</i>
Fri, Oct 27	Marketing Period (cont'd)	Tender Expiration Date
Mon, Oct 30	Pre-Market Bonds; Solicit Pricing Feedback; Pre-Pricing	Preliminary Notice of Results and Acceptance of Offers / Potential Second Look Period
Tue, Oct 31	Price Bonds & Sign BPA	
Wed, Nov 1	Final Acceptance Date	

Additional Considerations. Since 2017, Barclays has acted as dealer manager on 15 municipal and governmental tender transactions targeting a total of \$95 billion in par. As detailed in a case study in response to **Question 7**, Barclays served as dealer manager for the Puerto Rico Aqueduct and Sewer Authority's \$1.0 billion tender and exchange in 2021, achieving a 77% participation rate. This was the third largest municipal tender, exchange or consent solicitation transaction in terms of bonds tendered since July 1, 2017 and achieved one of the highest participation rates for a municipal tender to date. Luis Alfaro and James Henn, our co-lead bankers to the County, served as lead bankers for this successful tender and as co-tender agent on over \$25 billion of tenders and exchanges for Puerto Rico issuers in recent years.

Barclays is willing to use our balance sheet to benefit the County throughout the tender and bond issuance process, as we did for the Puerto Rico tenders and exchanges. For example, Barclays is willing to purchase, directly from the County, the bonds issued to fund the tender – thereby simplifying the overall issuance and ensuring a successful tender regardless of market conditions. We are also willing to purchase tendered bonds in advance of the refunding bond settlement date to avoid a potential failed closing.

Cash Optimization Strategy. A cash optimization refunding provides an alternative strategy to achieve present value debt service savings similar to that of an advance refunding. **Figure 8** summarizes the results of a potential cash optimization targeting the County's Series 2015A Airport System Revenue Bonds. As we describe below, these savings would increase if the County is able to replace defeased AMT bonds with non-AMT new money bonds.

A critical consideration for this strategy is that it requires the County to have cash that it plans to apply to capital projects – which we believe is reasonable since the funding of 2019 Projects for the Airport included Airport System funds (per the 2019 Report of the Airport Consultant). Additionally, due to tax law considerations, there is a degree of interest rate risk not typically associated with refundings that may decrease (or increase) debt service savings.

Mechanics & Potential Savings. Under a cash optimization strategy, the County would use cash earmarked for capital spending to defease bonds, and then issue new money bonds to fund such capital projects. As tax counsel typically require these two actions to be separated by at least 15 days, this strategy involves a degree of interest rate risk. That said, the advantages of a cash optimization relative to a tender are that: i) success does not depend on investor participation, ii) the County can select the most efficient bonds to defease and replace based on the amount of cash available to implement this strategy, iii) debt service savings can increase if defeased bonds can be substituted with new money bonds that have a more favorable tax status (e.g., defease AMT bonds with cash and issue non-AMT new money bonds), and, iv) the County can achieve substantial near-term cash flow savings if new money bonds are structured to match the average life of projects being financed rather than to achieve uniform savings. Please refer to **Figure 8** for a summary of results assuming a cash optimization targeting the County's Series 2015A Airport System Revenue Bonds, assuming new money bonds are subject to the AMT or alternatively, not subject to the AMT.

Figure 8: Cash Optimization Results (\$000)*

Series 2015A (AMT) Airport System Revenue Bonds

Maturities	2024-2043
Refunded Par	\$374,515
Refunding Par	\$362,210
PV Savings (\$)	\$8,976
PV Savings (%)	2.40%

** NPV savings achieved will depend on a variety of factors including investment and borrowing rates, separation time period required by tax counsel, and analysis of original arbitrage yields and uses of proceeds.*

10. Describe your firm's ability and willingness to provide credit facilities to the County. Provide examples of credit facilities provided to other Florida local governments.

Barclays is an active provider of credit products to our municipal clients and would welcome the opportunity to provide credit facilities to the County.



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Barclays' current portfolio totals over \$15.5 billion, and includes products such as: (i) LOC and liquidity facilities to support tax-exempt and taxable VRDBs and Commercial Paper; (ii) direct purchases; and (iii) structured product solutions. VRDBs with Barclays LOCs/liquidity are consistently reset at or near the SIFMA index given the relative scarcity value of such bonds.

Reflecting the goal of expanding this business – as well as our dedication to Florida issuers – we proactively monitor expiring credit facilities and liquidity needs and regularly submit unsolicited proposals to provide clients with financing alternatives ahead of scheduled expirations.

Barclays currently has over \$200 million in balance sheet products outstanding to issuers in Florida. This portfolio includes \$110 million with University of Miami and \$105 million with the Gainesville Regional Utilities. Recently, Barclays worked with CFX to convert an outstanding loan Barclays made to CFX in 2015 to a bond placed directly with Barclays at the same terms and at a lower interest rate. Barclays also served as commercial paper dealer for Miami-Dade County, and the execution and placement of the paper was flawless. As a result of our marketing efforts, Barclays expanded Miami-Dade County's investor base and placed the commercial paper with five new investors. Barclays has the ability to offer sizeable facilities and would be willing to do so for Broward County through any of our products to help fund its financing needs under its different credits/issuers at the lowest possible cost of capital.

Barclays' total liquidity outstanding to the Florida region is over \$200 million and includes credit facilities for the University of Miami and Gainesville Regional Utilities.

Barclays also has been proud of our work with airports during the COVID-19 pandemic. Our firm has been a major credit provider to airports since the advent of COVID-19, having delivered over \$1.5 billion of credit capacity to airports. Within the first six months of the pandemic, when very few banks were willing to extend credit to airports, Barclays executed nearly \$600 million of credit facilities and made numerous formal and informal offers to other airports to provide liquidity.

Active FL Facilities		
Client	Size	Product
GRU (2012B,2005C,2006A)	\$105	SBPA
University of Miami	\$98	Revolver
University of Miami	\$12	Term Loan
Historical FL Facilities		
Client	Size	Product
JEA (Jacksonville, FL, Electric Auth) 2008A	\$97	SBPA
Orlando-Orange County Expressway (2003D)	\$93	LOC
Jacksonville, Florida	\$80	LOC -CP
Miami-Dade County Water & Sewer	\$218	LOC -CP
Gainesville Regional Utilities 2008B	\$76	SBPA

Airport Credit Facilities Since 2020		
Client	Size	Product
JFK Airport New Terminal One	\$200	Term Loan
Burbank Glendale Pasadena Airport Authority	\$109	LOC
Los Angeles Airport	\$327	LOC -CP
San Francisco Airport - 2018B	\$140	LOC
San Francisco Airport - CP Series 5	\$136	LOC -CP
San Francisco Airport - CP Series 3	\$108	LOC -CP
Metropolitan Washington Airports Authority	\$143	LOC
Las Vegas Airport	\$106	LOC
Chicago Midway Airport	\$126	LOC
Chicago O'Hare Airport	\$101	LOC
Denver Airport	\$135	LOC -CP
Los Angeles Airport	\$54	LOC -CP

Active

Expired

11. Describe any client educational efforts your firm provides.

Barclays is an active and trusted partner of our clients and we take a broad view of the investment banking services we offer – often away from the issuance of bonds. We have consistently demonstrated an in depth knowledge of, and dedication to, our clients and have built a track record of service. Our employees are often invited to speak at educational conferences and panel discussions to share their knowledge. Barclays is the “go to” bank when it comes to municipal finance education and helping with the training of the new staff members of our clients. For example, **when the Massachusetts Department of Transportation and Massachusetts Bay Transportation Authority had senior staffing changes,**





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Barclays spent considerable time reviewing all aspects of the municipal bond market with new officers, ranging from a market update to bond technicals and to the process of bringing a bond issue to market. Additionally, members of our team recently prepared an extensive presentation for the Texas Department of Transportation ahead of their bond closing which covered topics ranging from pricing 101, timeline and specifics of a pricing, underwriter terms and more.

Barclays also makes extensive use of DBC Finance when educating our clients. We were among the first users of the product in the early 1990s, and we continue to assist in the testing and evaluation of new features with DBC staff. We constantly educate our clients and financial advisors about what we learn to develop unique financing solutions for particularly complex financings, often with multiple goals, objectives or constraints similar to the County's. Our clients turn to us when seeking educational information, and the high quality of service we provide is rewarded with repeat business.

Furthermore, on a weekly basis, our Short-Term Products team provides market commentary to our client base. By staying on top of the market, Barclays consistently provides innovative ideas and refunding opportunities to our clients. For example, when drafts of the proposed Tax Cuts and Jobs Act were released on November 2, 2017, Barclays immediately analyzed the effects of the proposal on the debt portfolios of all our clients. Barclays suggested taking advantage of any advance refunding opportunities and ultimately, many of our clients accelerated their refundings.

12. Provide details on any active SEC or other regulatory investigations of your firm on a firm-wide basis. Provide the results of any past investigations or enforcement actions related to public finance or muni sales activities.

Barclays is engaged in various legal and regulatory matters in a number of jurisdictions. Barclays is subject to legal proceedings by and against Barclays which arise from time to time and also subject to enquiries and examinations, requests for information, audits, investigations and legal and other proceedings by regulators, governmental and other public bodies in connection with areas of banking and business activities in which Barclays is or has been engaged.

Information relating to legal and regulatory risks is set out in the Legal, Competition and Regulatory matters note to Barclays Bank's financial statements in our most recent Annual Report or Interim Results Announcement (as applicable). If a Barclays Bank quarterly Results Announcement has been released since the most recent Annual Report or Interim Results Announcement, this may contain additional information relating to such matters. In between Results Announcements, Barclays may from time to time make Regulatory News Service announcements containing information relating to a specific legal, competition or regulatory matter. Copies of Barclays Bank's Annual Report, Results Announcements, and Regulatory News Service Announcements are available on the Barclays Bank Investor Relations website in sections headed 'annual reports', 'results' and 'regulatory news' respectively: <https://www.home.barclays/barclays-investor-relations.html>. Additional Information relating to legal and regulatory risks is set out in the firm's Statement of Financial Condition (Audited) as of December 31, 2022. Copies can be viewed at: <http://www.barcap.com/about-barclays-capital/our-firm/financial-information/barclays-capital-inc-financial-reporting.html>. Additionally, a FINRA BrokerCheck Report, detailing proceedings the Firm has been involved in, is available at: <http://www.finra.org/Investors/ToolsCalculators/BrokerCheck/>. At the present time, however, we are not aware of any investigation or litigation directly applicable to this application or which would affect Barclays' ability to undertake the relevant activities.



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Appendix A: Barclays Proposed Broward County Airport System Revenue Bond Scale

Tax Exempt Non AMT Scales, as of the close of business on August 8, 2023								
Maturity	MMD	Par Call	Coupon	Spread	YTW	Kick	YTM	Price
10/1/2024	3.300%		5.000%	20	3.50%	0	3.50%	101.424
10/1/2025	3.140%		5.000%	24	3.38%	0	3.38%	103.069
10/1/2026	2.970%		5.000%	26	3.23%	0	3.23%	104.981
10/1/2027	2.840%		5.000%	29	3.13%	0	3.13%	106.937
10/1/2028	2.790%		5.000%	30	3.09%	0	3.09%	108.744
10/1/2029	2.730%		5.000%	31	3.04%	0	3.04%	110.634
10/1/2030	2.680%		5.000%	34	3.02%	0	3.02%	112.368
10/1/2031	2.640%		5.000%	38	3.02%	0	3.02%	113.939
10/1/2032	2.650%		5.000%	39	3.04%	0	3.04%	115.293
10/1/2033	2.720%		5.000%	40	3.12%	0	3.12%	116.008
10/1/2034	2.800%	10/1/2033	5.000%	41	3.21%	13	3.34%	115.174
10/1/2035	2.880%	10/1/2033	5.000%	42	3.30%	22	3.52%	114.348
10/1/2036	3.000%	10/1/2033	5.000%	44	3.44%	28	3.72%	113.077
10/1/2037	3.140%	10/1/2033	5.000%	46	3.60%	31	3.91%	111.644
10/1/2038	3.230%	10/1/2033	5.000%	48	3.71%	33	4.04%	110.672
10/1/2039	3.270%	10/1/2033	5.000%	51	3.78%	35	4.13%	110.059
10/1/2040	3.310%	10/1/2033	5.000%	54	3.85%	36	4.21%	109.449
10/1/2041	3.360%	10/1/2033	5.000%	55	3.91%	37	4.28%	108.930
10/1/2042	3.420%	10/1/2033	5.000%	55	3.97%	37	4.34%	108.414
10/1/2043	3.460%	10/1/2033	5.000%	55	4.01%	38	4.39%	108.072
10/1/2044	3.490%							
10/1/2045	3.530%							
10/1/2046	3.570%							
10/1/2047	3.600%							
10/1/2048	3.630%	10/1/2033	5.000%	58	4.210%	36	4.569%	106.379
10/1/2049	3.650%							
10/1/2050	3.660%							
10/1/2051	3.670%							
10/1/2052	3.680%							
10/1/2053	3.690%	10/1/2033	5.000%	60	4.290%	36	4.645%	105.711

Tax Exempt AMT Scales, as of the close of business on August 8, 2023								
Maturity	MMD	Par Call	Coupon	Spread	YTW	Kick	YTM	Price
10/1/2024	3.300%		5.000%	60	3.90%	0	3.90%	101.041
10/1/2025	3.140%		5.000%	63	3.77%	0	3.77%	102.318
10/1/2026	2.970%		5.000%	70	3.67%	0	3.67%	103.715
10/1/2027	2.840%		5.000%	75	3.59%	0	3.59%	105.179
10/1/2028	2.790%		5.000%	80	3.59%	0	3.59%	106.370
10/1/2029	2.730%		5.000%	86	3.59%	0	3.59%	107.521
10/1/2030	2.680%		5.000%	91	3.59%	0	3.59%	108.631
10/1/2031	2.640%		5.000%	98	3.62%	0	3.62%	109.484
10/1/2032	2.650%		5.000%	102	3.67%	0	3.67%	110.091
10/1/2033	2.720%		5.000%	105	3.77%	0	3.77%	110.146
10/1/2034	2.800%	10/1/2033	5.000%	104	3.84%	8	3.92%	109.536
10/1/2035	2.880%	10/1/2033	5.000%	102	3.90%	14	4.04%	109.017
10/1/2036	3.000%	10/1/2033	5.000%	98	3.98%	18	4.16%	108.329
10/1/2037	3.140%	10/1/2033	5.000%	95	4.09%	20	4.29%	107.391
10/1/2038	3.230%	10/1/2033	5.000%	93	4.16%	22	4.38%	106.799
10/1/2039	3.270%	10/1/2033	5.250%	93	4.20%	30	4.50%	108.483
10/1/2040	3.310%	10/1/2033	5.250%	94	4.25%	31	4.56%	108.060
10/1/2041	3.360%	10/1/2033	5.250%	90	4.26%	33	4.59%	107.975
10/1/2042	3.420%	10/1/2033	5.250%	90	4.32%	33	4.65%	107.470
10/1/2043	3.460%	10/1/2033	5.250%	90	4.36%	34	4.70%	107.135
10/1/2044	3.490%							
10/1/2045	3.530%							
10/1/2046	3.570%							
10/1/2047	3.600%							
10/1/2048	3.630%	10/1/2033	5.250%	93	4.56%	31	4.868%	105.479
10/1/2049	3.650%							
10/1/2050	3.660%							
10/1/2051	3.670%							
10/1/2052	3.680%							
10/1/2053	3.690%	10/1/2033	5.250%	92	4.61%	31	4.925%	105.070

Appendix B: Barclays Transaction Experience Since 2018

Sale Date	Issuer (Full Name)	Issue Description	Par Amount (USD Millions)	Bid Type	Barclays Role	Moody's Underlying Long Term Rating	S&P's Underlying Long Term Rating	Fitch's Underlying Long Term Rating	Main Use of Proceeds - SDC (code)	Reported Gross Spread (per thousand) (USD)
1/5/2018	New Jersey Econ Dev Auth (CHFA)	State Lease Revenue Bonds 2018 Series A & C	356.61	Negotiated Bid	Co-Manager	Baa1:Baa1:Baa1:Baa1:	BBB+ BBB+ BBB+ BBB+ BB	A-:A-:A-:A-:A-:A-:	Government Buildings	5.22
1/5/2018	New Jersey Econ Dev Auth	State Lease Revenue Bonds 2018 Series B	19.08	Negotiated Bid	Co-Manager	Baa1:Baa1:Baa1	BBB+ BBB+ BBB+	A-:	Government Buildings	2.92
1/16/2018	Houston City-Texas	Comb Util Sys Comm Paper Notes Series B-3	75.00	Negotiated Bid	Lead Manager;Remarketing Agent	NR	NR	NR	Combined Utilities	
1/17/2018	Orlando Utilities Commission (OUC)	Utility System Revenue Bonds Series 2018 A	150.22	Negotiated Bid	Co-Manager	Aa2	AA	AA	Combined Utilities	3.57
1/24/2018	Massachusetts School Bldg Auth	Sub Dedicated Sales Tax Bonds 2018 Series A	195.00	Negotiated Bid	Co-Manager	Aa3	AA	AA+	Primary & Secondary Education	1.96
1/24/2018	Massachusetts School Bldg Auth	Sub Dedicated Sales Tax Bonds 2018 Series A	200.00	Negotiated Bid	Co-Manager	Aa3:Aa3	AA,AA	AA+,AA+	Primary & Secondary Education	2.02
1/25/2018	Connecticut	Special Tax Obligation Bonds 2018 Series A	800.00	Negotiated Bid	Co-Manager	NR	AA	A+	Toll Roads, Highways & Streets	4.57
1/30/2018	Hawaii	General Obligation Bonds 2018 Series FU	50.00	Negotiated Bid	Co-Manager	Aa1	AA+	AA	General Purpose/ Public Imp	0.08
1/30/2018	Hawaii	General Obligation Bonds 2018 Series FT	631.22	Negotiated Bid	Co-Manager	Aa1	AA+	AA	General Purpose/ Public Imp	0.98
1/30/2018	Hawaii	General Obligation Bonds 2018 Series FV	93.79	Negotiated Bid	Co-Manager	Aa1	AA+	AA	General Purpose/ Public Imp	0.15
2/7/2018	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds 2018 Subseries A-1	48.55	Negotiated Bid	Co-Manager	Aaa:Aaa:Aaa:Aaa:	AAA,AAA,AAA,AAA	NR,NR,NR,NR	Single Family Housing	2.65
2/7/2018	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds 2018 Subseries A-2	69.55	Negotiated Bid	Co-Manager	Aaa:Aaa	AAA,AAA	NR,NR	Single Family Housing	3.79
2/13/2018	Colorado Hsg & Fin Auth (CHFA)	Homeownership Class I Bonds Series 2018 AA	73.12	Negotiated Bid	Co-Manager	Aaa	NR	NR	Single Family Housing	6.75
2/16/2018	Chicago City BOE	Educational Purposes TANs Series 2017 H	105.27	Negotiated Bid	Sole Manager	NR	NR	NR	Primary & Secondary Education	
2/22/2018	Washington Convention & Sports Au (MSHDA)	Sr Ln Dedicated Tax Rev Ref Bonds Series 2018 B	57.52	Negotiated Bid	Co-Manager	Aa3:Aa3	A+,A+	AA+,AA+	Civic & Convention Centers	4.84
2/22/2018	Washington Convention & Sports Au	Sr Ln Dedicated Tx Rev Ref Bonds Series 2018 A	275.54	Negotiated Bid	Co-Manager	Aa3	A+	AA+	Civic & Convention Centers	4.04
2/22/2018	Illinois Finance Authority	Revenue Bonds Series 2018 B	50.00	Negotiated Bid	Lead Manager	Aa2:Aa2	AA-,AA-	AA+,AA+	Higher Education	3.05
2/22/2018	Illinois Finance Authority	Revenue Bonds Series 2018 A	114.71	Negotiated Bid	Lead Manager	Aa2:Aa2:Aa2	AA-,AA-,AA-	AA+,AA+,AA+	Higher Education	3.10
2/23/2018	New York City-New York	General Obligation Bonds Series E Sub E-1	700.00	Negotiated Bid	Co-Manager	Aa2:Aa2:Aa2	AA,AA,AA	AA,AA,AA	General Purpose/ Public Imp	4.63
2/23/2018	New York City-New York	General Obligation Bonds SubSer A-6&J-4&F-3	194.26	Negotiated Bid	Co-Manager	Aa2:Aa2:Aa2	AA,AA,AA	AA,AA,AA	General Purpose/ Public Imp	4.15
2/28/2018	Los Angeles Dept of Airports	Subordinate Revenue Bonds 2018 Series A	426.48	Negotiated Bid	Lead Manager	A1:A1,A1:A1	AA-,AA-,AA-,AA-	AA-,AA-,AA-,AA-	Airports	2.74
3/6/2018	California	GO & Various Purpose Ref Bonds	212.38	Negotiated Bid	Co-Manager	Aa3:Aa3	AA-,AA-	AA-,AA-	General Purpose/ Public Imp	0.24
3/6/2018	California	GO & Various Purpose Ref Bonds	1,968.93	Negotiated Bid	Co-Manager	Aa3:Aa3	AA-,AA-	AA-,AA-	General Purpose/ Public Imp	2.25
3/6/2018	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Project Bonds 2018 Series A-1	56.26	Negotiated Bid	Lead Manager	Aaa:Aaa	AAA,AAA	NR,NR	Multi Family Housing	6.57
3/6/2018	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Project Bonds 2018 Series A-2	35.00	Negotiated Bid	Sole Manager;Remarketing Agent	Aaa	AAA	NR	Multi Family Housing	3.02
3/9/2018	Michigan St Hsg Dev Au (MSHDA)	Single-Family Mortgage Rev Bonds 2018 Series A	120.00	Negotiated Bid	Lead Manager	Aa2:Aa2:Aa2	AA+,AA+,AA+	NR,NR,NR	Single Family Housing	8.06
3/9/2018	Michigan St Hsg Dev Au (MSHDA)	Single-Family Mortgage Rev Bonds 2018 Series B	50.00	Private Bid	Sole Manager;Remarketing Agent	Aa2	AA+	NR	Single Family Housing	
3/14/2018	Boise State University	General Revenue Project Bonds Series 2018 A	18.47	Negotiated Bid	Sole Manager	Aa3	A+	NR	Higher Education	
3/15/2018	Miami-Dade Co Educational Facs Auth	Revenue Bonds Series 2018 A	232.72	Negotiated Bid	Lead Manager	A3:A3,A3:A3	A-,A-,A-,A-	NR,NR,NR,NR	Higher Education	3.82
3/15/2018	Miami-Dade Co Educational Facs Auth	Revenue Bonds Series 2018 B	17.29	Negotiated Bid	Lead Manager	A3	A-	NR	Higher Education	3.89
3/15/2018	University of Connecticut	Special Oblig Student Fee Bonds 2018 Series A	141.73	Negotiated Bid	Co-Manager	Aa3:Aa3:Aa3	AA-,AA-,AA-	NR,NR,NR	Higher Education	5.70
3/15/2018	Wisconsin Pub Pwr (WPP) Energy	Power Supply System Rev Bonds Series 2018 A	41.34	Negotiated Bid	Co-Manager	A1	A	A+	Public Power	4.94
3/16/2018	NYC Transitional Finance Auth	Multi-Family Housing Rev Bonds 18 Ser S 3-4 &Sub 4A	908.48	Negotiated Bid	Co-Manager	Aa2:Aa2:Aa2:Aa2	AA,AA,AA,AA	AA,AA,AA,AA	Primary & Secondary Education	4.20
3/16/2018	NYC Transitional Finance Auth	Building Aid Revenue Bonds 2018 Series S-3	92.98	Negotiated Bid	Co-Manager	Aa2	AA	AA	Primary & Secondary Education	0.43
3/20/2018	Iowa Finance Authority	Refunding Bonds Series 2018 A	82.33	Private Bid	Sole Manager;Remarketing Agent	NR	NR	NR	General Acute Care Hospital	
3/22/2018	Alameda Co Jt Powers	Lease Revenue Bonds Series 2018	73.50	Negotiated Bid	Co-Manager	Aa1	AA+	AA+	General Acute Care Hospital	3.50
3/27/2018	Massachusetts Dev Finance Agcy	Revenue Bonds Series 2018	21.87	Negotiated Bid	Sole Manager	Baa2:Baa2:Baa2	BBB+ BBB+ BBB+ BBB+	NR,NR,NR,NR	Higher Education	4.03
4/4/2018	NJ Tobacco Settlement Fin Corp	Tobacco Settlement Bonds Sr&Sub Ser 2018 A&B	3,146.66	Negotiated Bid	Co-Manager	NR,NR,NR,NR,NR,NR	A,BBB+,BBB+,BBB+,BBB+	NR,NR,NR,NR,NR,NR	General Purpose/ Public Imp	3.28
4/5/2018	University of Delaware	Revenue Bonds Series 2018	200.00	Negotiated Bid	Lead Manager	Aa1:Aa1	AA+,AA+	NR,NR	Higher Education	2.66
4/5/2018	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2018 Series A-1	50.73	Negotiated Bid	Co-Manager	Aa2:Aa2:Aa2:Aa2	AA+,AA+,AA+,AA+,AA+,AA+	NR,NR,NR,NR,NR,NR	Multi Family Housing	7.10
4/5/2018	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2018 Series B-1	65.48	Negotiated Bid	Co-Manager	Aa2	AA+	NR	Multi Family Housing	6.66
4/5/2018	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2018 Series B-2	100.00	Negotiated Bid	Lead Manager	Aa2	AA+	NR	Multi Family Housing	1.73
4/5/2018	NYC Municipal Water Fin Auth	Wtr & Swr Sys 2nd Gen Resoln Bond Series EE	287.94	Negotiated Bid	Co-Manager	Aa1	AA+	AA+	Water & Sewer Facilities	
4/5/2018	NYC Municipal Water Fin Auth	Wtr & Swr Sys 2nd Gen Resoln Bond Series EE	170.98	Negotiated Bid	Co-Manager	Aa1:Aa1	AA+,AA+	AA+,AA+	Water & Sewer Facilities	
4/10/2018	California Statewide CDA (CSCDA)	Revenue Bonds Series 2018	100.00	Negotiated Bid	Sole Manager	NR,NR,NR,NR	A-,A-,A-,A-	NR,NR,NR,NR	General Acute Care Hospital	5.30
4/11/2018	Colorado Hsg & Fin Auth (CHFA)	Single Family Mtg Class I Bonds 2018 Series A	21.24	Negotiated Bid	Lead Manager	Aaa	AAA	NR	Single Family Housing	2.52
4/11/2018	Colorado Hsg & Fin Auth (CHFA)	Single Family Mtg Class I Bonds 2018 Series B-1	36.25	Negotiated Bid	Lead Manager	Aaa:Aaa	AAA,AAA	NR,NR	Single Family Housing	4.29
4/11/2018	Colorado Hsg & Fin Auth (CHFA)	Single Family Mtg Class II Bonds 2018 Series B-2	30.00	Negotiated Bid	Sole Manager;Remarketing Agent	Aa2	AA	NR	Single Family Housing	3.04
4/11/2018	Maine State Housing Authority	Mortgage Purchase Bonds 2018 Series A	35.00	Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing	
4/12/2018	New York City-New York	General Obligation Bonds Series F Subser F-	850.00	Negotiated Bid	Co-Manager	Aa2:Aa2:Aa2	AA,AA,AA	AA,AA,AA	General Purpose/ Public Imp	4.57
4/17/2018	California	Various GO & Refunding Bonds	2,147.00	Negotiated Bid	Co-Manager	Aa3:Aa3:Aa3	AA-,AA-,AA-	AA-,AA-,AA-	General Purpose/ Public Imp	2.60
4/17/2018	District of Columbia Wtr & Swr Au	Public Utility Sr Lien Rev Bonds Series 2018 A	100.00	Negotiated Bid	Lead Manager	Aa1:Aa1	AAA,AAA	NR,NR	Water & Sewer Facilities	4.49
4/17/2018	District of Columbia Wtr & Swr Au	Public Utility Sr Lien Rev Bonds Series 2018 B	200.00	Negotiated Bid	Lead Manager	Aa1:Aa1:Aa1	AAA,AAA,AAA	NR,NR,NR	Water & Sewer Facilities	4.06
4/24/2018	New York Transportation Development Corporation	Special Facilities Revenue Bonds Series 2018	1,383.50	Negotiated Bid	Co-Manager	Baa3:Baa3:Baa3	NR,NR,NR	BBB-,BBB-,BBB-	Airports	5.46
4/25/2018	Missouri Hlth & Ed Facs Authority	Health Facilities Revenue Bonds Series 2018 C	40.15	Negotiated Bid	Lead Manager	A1	A+	AA-	General Acute Care Hospital	5.79
4/25/2018	Missouri Hlth & Ed Facs Authority	Health Facilities Revenue Bonds Series 2018 A	73.43	Negotiated Bid	Lead Manager	A1:A1	A+,A+	AA-,AA-	General Acute Care Hospital	5.79
4/25/2018	Missouri Hlth & Ed Facs Authority	Health Facilities Revenue Bonds Series 2018 D E & F	154.01	Negotiated Bid	Lead Manager;Remarketing Agent	A1:A1:A1	A+,A+,A+	AA-,AA-,AA-	General Acute Care Hospital	2.29
4/25/2018	Wisconsin Hlth & Ed Fac Auth (WHEFA)	Health Facilities Revenue Bonds Series 2018 B	40.61	Negotiated Bid	Lead Manager	A1	A+	AA-	General Acute Care Hospital	5.79
4/25/2018	Univ of Virginia Rector & Visitors	General Revenue Pledge Bonds Series 2018 A & B	200.00	Negotiated Bid	Lead Manager	Aaa:Aaa	AAA,AAA	AAA,AAA	Higher Education	2.60
4/25/2018	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Finance Program Bonds 18 Ser B Subser B-1	62.45	Negotiated Bid	Co-Manager	Aaa:Aaa:Aaa	AAA,AAA,AAA	NR,NR,NR	Single Family Housing	3.42
4/25/2018	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Finance Program Bonds 18 Ser B Subser B-2	23.31	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	1.28
4/25/2018	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Finance Program Bonds 18 Ser B Subser B-2	32.52	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	1.78
5/2/2018	Missouri Joint Municipal Electric Utility Comm	Power Supply System Rev Bonds Series 2018	26.61	Negotiated Bid	Co-Manager	A2	NR	A	Public Power	
5/3/2018	Norfolk City Eco Dev Auth	Hospital Facilities Rev Ref Bonds Series 2018 B	88.62	Negotiated Bid	Lead Manager	Aa2	AA	NR	General Acute Care Hospital	3.57

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9/18/2018	Texas Water Development Board	St Wtr Implementation Fund Bonds Series 2018 B	1,672.21	Negotiated Bid	Co-Manager	NR,NR,NR,NR,NR,NR; NR,NR,NR,NR,NR,NR,NR; NR	AAA;AAA;AAA;AAA;AAA;AA A;AAA;AAA;AAA;AAA;AAA;A NR	AAA;AAA;AAA;AAA;A AA;AAA;AAA;AAA;AA AAA;AAA;AAA;AAA	Water & Sewer Facilities	
9/18/2018	Texas Water Development Board	St Wtr Implementation Fund Bonds Series 2018 C	35.59	Negotiated Bid	Co-Manager	NR,NR,NR,NR	AAA;AAA;AAA;AAA	AAA;AAA;AAA;AAA	Water & Sewer Facilities	
9/25/2018	Ohio Higher Ed Fac Commission	Hospital Revenue Bonds Series 2018 A	25.23	Negotiated Bid	Sole Manager;Remarketing Agent	Aa2	AA	NR	General Acute Care Hospital	1.90
9/25/2018	Wisconsin Hlth & Ed Fac Auth (WHEFA)	Revenue Bonds Series 2018 A & B	100.00	Negotiated Bid	Sole Manager;Remarketing Agent;Credit Enhancer;Remarketing Agent;Credit Enhancer	NR,NR	NR,NR	NR,NR	General Acute Care Hospital	2.10
9/25/2018	Wisconsin	General Obligation Bonds Series B of 2018	109.97	Competitive Bid	Sole Manager	Aa1	AA	AA+	General Purpose/ Public Imp	
9/25/2018	Wisconsin	General Obligation Bonds Series B of 2018	149.00	Competitive Bid	Sole Manager	Aa1	AA	AA+	General Purpose/ Public Imp	
9/28/2018	Western Mich Univ Bd of Trustees	General Revenue Bonds 2018 Series	63.03	Private Bid	Sole Manager	NR	NR	NR	Higher Education	
10/2/2018	NYS Dorm Authority	State Sales Tax Revenue Bonds Series 2018 F	19.88	Competitive Bid	Sole Manager	Aa1	AAA	NR	General Purpose/ Public Imp	1.28
10/2/2018	Texas Public Finance Auth (TPFA)	GO Refunding Bonds Series 2018 A	164.51	Negotiated Bid	Co-Manager	Aaa	AAA	NR	General Purpose/ Public Imp	3.77
10/3/2018	Kansas Dept of Transportation	Highway Revenue Bonds Series 2018 A	173.04	Negotiated Bid	Lead Manager	Aa2	AAA	NR	Toll Roads, Highways & Streets	
10/4/2018	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2018 Series I	125.00	Negotiated Bid	Co-Manager	Aa2;Aa2	AA+;AA+;AA+	NR,NR,NR	Multi Family Housing	7.11
10/4/2018	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2018 Series H	84.77	Negotiated Bid	Co-Manager	Aa2;Aa2	AA+;AA+	NR,NR	Multi Family Housing	7.52
10/4/2018	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2019 Series A-1	85.00	Negotiated Bid	Co-Manager	Aa2;Aa2	AA+;AA+	NR,NR	Multi Family Housing	7.46
10/10/2018	Franklin Co-Ohio	Hospital Facilities Revenue Bonds Series 2018 A	127.30	Negotiated Bid	Lead Manager	Aa2;Aa2	AA+;AA+	AA+;AA+	General Acute Care Hospital	2.81
10/10/2018	Franklin Co-Ohio	Hospital Facilities Revenue Bonds Series 2018 B	50.00	Negotiated Bid	Lead Manager	Aa2	AA+	AA+	General Acute Care Hospital	1.10
10/10/2018	Maine State Housing Authority	Mortgage Purchase Bonds 2018 Series E	29.50	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
10/11/2018	Clark Co Public Utility Dt #1	Generating System Revenue Bonds Series 2018	19.14	Negotiated Bid	Lead Manager	A1	A+	AA-	Combined Utilities	2.72
10/11/2018	Clark Co Public Utility Dt #1	Electric System Revenue Bonds Series 2018	35.62	Negotiated Bid	Lead Manager	A1	A+	AA-	Public Power	2.67
10/11/2018	Connecticut Housing & Fin Auth (CHFA)	Hsg Mortgage Fin Program Bonds 18 Ser D Subser D-1	32.31	Negotiated Bid	Co-Manager	Aaa;Aaa;Aaa;Aaa;Aaa;Aaa	AAA;AAA;AAA;AAA;AAA;AA	NR,NR,NR,NR,NR	Single Family Housing	
10/11/2018	Connecticut Housing & Fin Auth (CHFA)	Hsg Mortgage Fin Program Bonds 18 Ser D Subser D-2	38.34	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
10/11/2018	Michigan St Hsg Dev Au (MSHDA)	Single Family Mortgage Rev Bonds 2018 Series C	265.90	Negotiated Bid	Lead Manager	Aa2;Aa2;Aa2;Aa2	AA+;AA+;AA+;AA+	NR,NR,NR,NR	Single Family Housing	
10/11/2018	Michigan St Hsg Dev Au (MSHDA)	Single Family Mortgage Rev Bonds 2018 Series D	50.00	Private Bid	Sole Manager	Aa2	AA+	NR	Single Family Housing	
10/12/2018	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds 2018 Series A of 2018	135.97	Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2;Aa2;Aa2;Aa2;Aa2;Aa2;Aa2;Aa2	NR,NR,NR,NR,NR,NR,NR,NR,NR,NR	NR,NR,NR,NR,NR,NR,NR,NR,NR,NR	Single Family Housing	
10/16/2018	Wisconsin	Gen Fund Annual Approp Ref Bond Series A of 2018	359.95	Negotiated Bid	Co-Manager	Aa2	NR	AA	General Purpose/ Public Imp	5.06
10/16/2018	Virginia Public School Authority	School Financing Bonds Series 2018 B	109.07	Competitive Bid	Sole Manager	Aa1	AA+	AA+	Primary & Secondary Education	
10/17/2018	Franklin Co-Ohio	Hospital Facilities Revenue Bonds Series 2018 C	37.50	Negotiated Bid	Sole Manager;Remarketing Agent	Aa2	AA+	AA+	General Acute Care Hospital	0.64
10/17/2018	Illinois Finance Authority	Revenue Refunding Bonds Series 2018 A	123.51	Negotiated Bid	Lead Manager	NR,NR,NR	A;A;A	A;A;A	General Acute Care Hospital	5.19
10/17/2018	NYC Transitional Finance Auth	Building Aid Revenue Bonds 19 Ser S-3 Sub S-3A	1,217.76	Negotiated Bid	Co-Manager	Aa2;Aa2	AA;AA	AA;AA	Primary & Secondary Education	
10/17/2018	Long Island Power Authority	Electric System General Rev Bonds Series 2018	430.00	Negotiated Bid	Co-Manager	A3	A-	A-	Public Power	
10/18/2018	Lucas Co-Ohio	Hospital Revenue Bonds Series 2018 A	253.32	Negotiated Bid	Lead Manager	Baa1;Baa1;Baa1	BBB;BBB;BBB	BBB+;BBB+;BBB+	General Acute Care Hospital	6.16
10/18/2018	Colorado Hsg & Fin Auth (CHFA)	Homeownership Class 1 Bonds Series 2018 BB-1	46.74	Negotiated Bid	Co-Manager	Aaa	NR	NR	Single Family Housing	3.47
10/18/2018	Colorado Hsg & Fin Auth (CHFA)	Homeownership Class 1 Bonds Series 2018 BB-2	42.74	Negotiated Bid	Co-Manager	Aaa	NR	NR	Single Family Housing	3.17
10/23/2018	Louisiana Public Facs Auth (LPFA)	Revenue Refunding Bonds Series 2019 A	50.52	Negotiated Bid	Lead Manager	A1;A1;A1	A+;A+;A+	NR,NR,NR	General Acute Care Hospital	5.14
10/23/2018	Louisiana Public Facs Auth (LPFA)	Revenue Bonds Series 2018 E	38.37	Negotiated Bid	Lead Manager	A1;A1;A1	A+;A+;A+	NR,NR,NR	General Acute Care Hospital	5.12
10/23/2018	Louisiana Public Facs Auth (LPFA)	Revenue Refunding Bonds Series 2018 D	27.86	Negotiated Bid	Lead Manager	A1	A+	NR	General Acute Care Hospital	3.67
10/23/2018	Tarrant Co Cult Ed Fac Fin Corp	Revenue Bonds Series 2018 B	333.18	Negotiated Bid	Lead Manager	A1;A1;A1	A+;A+;A+	NR,NR,NR	General Acute Care Hospital	
10/23/2018	Tarrant Co Cult Ed Fac Fin Corp	Revenue Bonds Series 2018 A	110.46	Negotiated Bid	Lead Manager	A1	A+	NR	General Acute Care Hospital	
10/24/2018	Morongo Band of Mission Indians	Tribal Economic Dev & Ref Bonds Series 2018 A & B	61.89	Negotiated Bid	Lead Manager	NR,NR	NR,NR	BBB-;BBB-	Economic Development	
10/24/2018	Morongo Band of Mission Indians	Revenue Bonds Series 2018 C	85.61	Negotiated Bid	Lead Manager	NR,NR	NR,NR	BBB-;BBB-	Economic Development	
10/24/2018	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Finance Prog Bonds 18 Ser E Subser E-1	78.36	Negotiated Bid	Co-Manager	Aaa;Aaa;Aaa;Aaa	AAA;AAA;AAA;AAA	NR,NR,NR,NR	Single Family Housing	6.34
10/24/2018	Atlanta City-Georgia	Water & Wastewater Rev Ref Bonds Series 2018 C	288.90	Negotiated Bid	Co-Manager	Aa2	AA-	NR	Water & Sewer Facilities	3.85
10/25/2018	Phoenix City Civic Imp Corp	Sr Lien Airport Revenue Bonds Series 2018	226.18	Negotiated Bid	Lead Manager	Aa3;Aa3;Aa3;Aa3	AA-;AA-;AA-;AA-	NR,NR,NR,NR	Airports	4.09
10/25/2018	Missouri Hlth & Ed Facs Authority	Health Facilities Revenue Bonds Series 2018 A	222.12	Negotiated Bid	Lead Manager	Aa3	AA-	NR	General Acute Care Hospital	3.60
10/25/2018	Maine Hlth & Hghr Ed Facs Auth	Revenue Bonds Series 2018	28.89	Negotiated Bid	Lead Manager	Aa2	NR	NR	Higher Education	
10/29/2018	Massachusetts Housing Fin Agcy	Housing Bonds 2018 Series C	79.29	Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2;Aa2	AA;AA;AA;AA	NR,NR,NR,NR	Single Family Housing	7.26
11/1/2018	Univ of WI Hosp & Clinics Auth	Revenue Bonds Series 2018 A	166.32	Negotiated Bid	Lead Manager	Aa3;Aa3;Aa3	AA-;AA-;AA-	NR,NR,NR	General Acute Care Hospital	5.17
11/1/2018	Orange Co Sanitation Dt	Revenue Ref Certs Antic Notes Series 2018 A	102.20	Competitive Bid	Sole Manager	Aaa	NR	AAA	Sanitation	
11/2/2018	San Mateo Co Jt Powers Fin Auth	Lease Revenue Bonds 2018 Series A	217.64	Negotiated Bid	Lead Manager	Aa1;Aa1;Aa1;Aa1;Aa1	AA+;AA+;AA+;AA+;AA+	NR,NR,NR,NR,NR	General Acute Care Hospital	3.27
11/2/2018	San Mateo Co Jt Powers Fin Auth	Lease Revenue Bonds 2019 Series A	45.17	Negotiated Bid	Lead Manager	Aa1	AA+	NR	General Acute Care Hospital	3.33
11/7/2018	PR Govt Dev Bank Recovery Auth	Debt Recovery Bonds	2,597.76	Competitive Bid	Lead Manager	NR	NR	NR	General Purpose/ Public Imp	
11/8/2018	Univ of WI Hosp & Clinics Auth	Variable Rate Demand Rev Bonds Series 2018 B & C	170.57	Negotiated Bid	Lead Manager;Remarketing Agent	NR,NR	NR,NR	NR,NR	General Acute Care Hospital	1.85
11/14/2018	California Educational Facs Auth	Revenue Bonds Series 2018 B	35.88	Negotiated Bid	Sole Manager	A2;A2	NR,NR	NR,NR	Higher Education	
11/14/2018	California Educational Facs Auth	Revenue Bonds Series 2018 A	140.00	Negotiated Bid	Sole Manager	A2;A2;A2;A2	NR,NR,NR,NR	NR,NR,NR,NR	Higher Education	
11/14/2018	Virginia Transportation Board	Federal Transportation Rev GANs Series 2018	75.75	Competitive Bid	Sole Manager	Aa1	AA+	AA+	Mass Transportation	
11/15/2018	Portland City-Oregon	Limited Tax Revenue Bonds 2018 Series B	102.86	Competitive Bid	Sole Manager	Aaa	NR	NR	Government Buildings	
11/16/2018	Maine State Housing Authority	Mortgage Purchase Bonds 2018 Series F	34.43	Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing	
11/16/2018	Central Florida Expressway Au	Senior Lien Revenue Bonds Series 2018	221.05	Negotiated Bid	Co-Manager	A1;A1;A1	A+;A+;A+	A+;A+;A+	Toll Roads, Highways & Streets	3.30
11/27/2018	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds 2019 Series A	16.04	Negotiated Bid	Lead Manager	Aaa	AAA	NR	Single Family Housing	1.36
11/27/2018	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds 2019 Series B-1	30.00	Negotiated Bid	Lead Manager	Aaa;Aaa	AAA;AAA	NR,NR	Single Family Housing	2.55
11/27/2018	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds 2019 Series C	36.94	Negotiated Bid	Lead Manager	Aaa;Aaa	AAA;AAA	NR,NR	Single Family Housing	3.14
11/27/2018	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds 2019 Series B-2	20.00	Negotiated Bid	Sole Manager;Remarketing Agent;Credit Enhancer	Aaa	AAA	NR	Single Family Housing	2.98
11/29/2018	Bryan City-Texas	Electric System Revenue Bonds New Series 2018	40.59	Negotiated Bid	Lead Manager	NR,NR	A+;A+	AA-;AA-	Public Power	6.93
11/30/2018	New York City-New York	General Obligation Bonds 19 Ser D Subser D-1	700.00	Negotiated Bid	Co-Manager	Aa2	AA	AA	General Purpose/ Public Imp	4.73
11/30/2018	New York City-New York	General Obligation Bonds Ser J Sub J-3 & J-11	154.53	Negotiated Bid	Co-Manager	NR;Aa2	NR;AA	NR;AA	General Purpose/ Public Imp	3.52

12/4/2018	New Hampshire	GO Capital Improvement Bonds 2018 Series A	63.41	Competitive Bid	Sole Manager	Aa1	AA	AA+	General Purpose/ Public Imp	
12/5/2018	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds 2018 Series I	29.47	Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	
12/5/2018	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds 2018 Series I	46.45	Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	
12/5/2018	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds 2018 Series I	79.27	Negotiated Bid	Co-Manager	Aa2;Aa2-Aa2;Aa2-Aa2	NR;NR;NR;NR;NR	NR;NR;NR;NR;NR	Multi Family Housing	
12/5/2018	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds 2018 Series J	32.57	Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	
12/5/2018	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds 2018 Series J	40.08	Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	
12/5/2018	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds 2018 Series J	12.43	Negotiated Bid	Co-Manager	Aa2;Aa2-Aa2;Aa2-Aa2	NR;NR;NR;NR;NR	NR;NR;NR;NR;NR	Multi Family Housing	
12/6/2018	Upper Illinois River Villy Dev Auth	Revenue Bonds Series 2018	74.59	Negotiated Bid	Lead Manager	NR	BBB+	NR	General Acute Care Hospital	
12/6/2018	Massachusetts Dev Finance Agcy	Revenue Bonds Series R 2018	34.00	Negotiated Bid	Sole Manager;Remarketing Agent	Aa2	AA-	NR	General Purpose/ Public Imp	
12/6/2018	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds Series 201	12.40	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
12/6/2018	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds Series 202	3.61	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
12/6/2018	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds Series 203	12.33	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
12/7/2018	Grand Traverse Co Hosp Fin Auth	Revenue Bonds Series 2019 A & B	32.88	Negotiated Bid	Sole Manager	A1;A1	NR,NR	AA-AA-	General Acute Care Hospital	
12/7/2018	Wisconsin Hsg & Econ Dev Auth	Housing Revenue Bonds 2018 Series A	66.85	Negotiated Bid	Co-Manager	Aa3	AA	NR	Multi Family Housing	
12/7/2018	Delaware River Port Auth of PA NJ	Revenue & Refunding Bonds Series A & B of 2018	677.54	Negotiated Bid	Co-Manager	A2;A2	A+;A+	NR,NR	Seaports/ Marine Terminals	2.86
12/7/2018	Delaware River Port Auth of PA NJ	Revenue Bonds Series C of 2018	22.97	Negotiated Bid	Co-Manager	A2	A+	NR	Seaports/ Marine Terminals	2.86
12/10/2018	Los Angeles Dept Wtr & Pwr (LADWP)	Power System Revenue Bonds 2018 Series D-4	391.20	Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2	AA;AA;AA	AA;AA;AA	Public Power	
12/11/2018	New York City-New York	General Obligation Bonds Series D Subser D-4	150.00	Negotiated Bid	Sole Manager;Remarketing Agent	Aa2	AA	AA	General Purpose/ Public Imp	0.10
12/12/2018	NYS Dorm Authority	State Personal Inc Tax Rev Bonds Series 2018 A	1,408.66	Negotiated Bid	Co-Manager	Aa1;Aa1;Aa1;Aa1	NR,NR;NR,NR	AA+;AA+;AA+;AA+	General Purpose/ Public Imp	3.87
12/12/2018	NYS Dorm Authority	St Personal Income Tax Rev Bonds Series 2018 A	157.37	Negotiated Bid	Co-Manager	Aa1	NR	AA+	General Purpose/ Public Imp	0.43
12/12/2018	NYS Dorm Authority	State Personal Inc Tax Rev Bonds Series 2018 B	103.57	Negotiated Bid	Co-Manager	Aa1;Aa1	NR,NR	AA+;AA+	General Purpose/ Public Imp	3.63
12/12/2018	Univ of So Florida (USF) Fin Corp	Certificates of Participation Series 2018	30.14	Negotiated Bid	Co-Manager	A1;A1;A1;A1	A+;A+;A+;A+	NR,NR;NR,NR	Higher Education	2.83
12/13/2018	Georgia Muni Electric Au (MEAG)	General & Power Revenue Bonds 2018 Series HH & A	242.94	Negotiated Bid	Lead Manager	A1;A1;A1;A1	A,A,A,A	A-A-A-A-A-	Public Power	
12/14/2018	Massachusetts Housing Fin Agcy	Housing Bonds 2018 Series D	51.24	Negotiated Bid	Lead Manager	Aa2	AA	NR	Single Family Housing	
1/8/2019	Massachusetts	GO Consolidated Loan & Ref Bonds 2019 Series A & A	868.32	Negotiated Bid	Co-Manager	Aa1;Aa1;Aa1;Aa1	AA;AA;AA;AA	AA+;AA+;AA+;AA+	General Purpose/ Public Imp	2.61
1/8/2019	Massachusetts	GO Consolidated Loan Bonds 2019 Series B	50.00	Negotiated Bid	Co-Manager	Aa1	AA	AA+	General Purpose/ Public Imp	0.15
1/9/2019	Grand Traverse Co Hosp Fin Auth	Revenue Refunding Bonds Series 2019 C	22.30	Negotiated Bid	Sole Manager;Remarketing Agent	A1	NR	AA-	General Acute Care Hospital	1.75
1/9/2019	New Jersey Trans Trust Fund Au	Transportation Program Bonds 2019 Series 201	750.00	Negotiated Bid	Co-Manager	Baa1;Baa1;Baa1;Baa1;Baa1	BBB+;BBB+;BBB+;BBB+;BBB+	A-A-A-A-A-	Mass Transportation	3.15
1/9/2019	Colorado	Education Loan Program TRAns Series 2018 B	325.00	Competitive Bid	Lead Manager	NR,NR;NR,NR;NR,NR;NR,NR;NR,NR	NR,NR;NR,NR;NR,NR;NR,NR	NR,NR;NR,NR;NR,NR	Primary & Secondary Education	
1/10/2019	San Antonio City-Texas	Water System Jr Lien Rev Bonds Series 2019 A	166.48	Negotiated Bid	Sole Manager;Remarketing Agent	Aa2	AA	AA	Water & Sewer Facilities	2.89
1/11/2019	San Francisco City & Co Airport Comm	Revenue Bonds 2nd Series 2019 C	88.75	Negotiated Bid	Co-Manager	A1	A+	A+	Airports	1.01
1/11/2019	San Francisco City & Co Airport Comm	Revenue Bonds 2nd Ser 2019 B & D	498.60	Negotiated Bid	Co-Manager	A1;A1	A+;A+	A+;A+	Airports	1.75
1/11/2019	San Francisco City & Co Airport Comm	2nd Series Revenue Bonds Series 2019 A	1,176.22	Negotiated Bid	Co-Manager	A1;A1;A1;A1	A+;A+;A+;A+	A+;A+;A+;A+	Airports	1.88
1/15/2019	Massachusetts Dev Finance Agcy	Revenue Refunding Bonds Series S-1 (2019)	116.45	Negotiated Bid	Lead Manager	A1	A+	NR	Higher Education	
1/15/2019	Massachusetts Dept of Transport	Highway System Rev Ref Bonds 2019 Series A	371.38	Negotiated Bid	Co-Manager	Aa2	AA	AA+	Toll Roads, Highways & Streets	1.99
1/15/2019	Massachusetts Dept of Transport	Highway System Rev Ref Bonds 2019 Series B-1	51.23	Negotiated Bid	Co-Manager	Aa2	AA	AA+	Toll Roads, Highways & Streets	0.27
1/15/2019	Massachusetts Dept of Transport	Highway System Rev Ref Bonds 2019 Series B-2	14.59	Negotiated Bid	Co-Manager	Aa2	AA	AA+	Toll Roads, Highways & Streets	0.08
1/16/2019	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Ref Bonds 2019 Series B	35.03	Negotiated Bid	Sole Manager;Remarketing Agent;Credit Enhancer	Aa2	NR	NR	Multi Family Housing	1.85
1/16/2019	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds Series 2018-2018B	100.00	Negotiated Bid	Co-Manager	Aa2	AA+	NR	Single Family Housing	2.93
1/16/2019	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds Series 2019-128A	101.60	Negotiated Bid	Co-Manager	Aa2	AA+	NR	Single Family Housing	2.98
1/16/2019	Miami-Dade Co-Florida	Water & Sewer System Rev Bonds Series 2019	233.31	Negotiated Bid	Co-Manager	Aa3;Aa3;Aa3;Aa3	AA-AA-AA-AA-	A+;A+;A+;A+	Water & Sewer Facilities	
1/17/2019	Los Angeles Dept Wtr & Pwr (LADWP)	Power System Revenue Bonds 2019 Series A	345.85	Negotiated Bid	Lead Manager	Aa2;Aa2;Aa2;Aa2	AA;AA;AA;AA	AA;AA;AA;AA	Public Power	2.31
1/17/2019	Maine State Housing Authority	Mortgage Purchase Bonds 2019 Series A	39.47	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
1/17/2019	NYC Municipal Water Fin Auth	Water & Sewer Sys Rev Bonds Subseries DD-1	345.00	Negotiated Bid	Lead Manager	Aa1	AA+	AA+	Water & Sewer Facilities	4.91
1/17/2019	NYC Municipal Water Fin Auth	Water & Sewer Sys Rev Bonds Subseries DD-2	60.00	Negotiated Bid	Lead Manager	Aa1	AA+	AA+	Water & Sewer Facilities	1.92
1/17/2019	NYC Municipal Water Fin Auth	Water & Sewer Sys Rev Bonds Subseries DD-2	70.00	Negotiated Bid	Lead Manager	Aa1	AA+	AA+	Water & Sewer Facilities	2.24
1/24/2019	Massachusetts	GO Refunding Bonds 2019 Series B	77.95	Negotiated Bid	Co-Manager	Aa1	AA	AA+	General Purpose/ Public Imp	2.42
1/28/2019	Massachusetts Dev Finance Agcy	Revenue Bonds Series T1 (2019)	80.00	Private Bid	Sole Manager	NR	NR	NR	General Acute Care Hospital	
1/29/2019	American Municipal Power Inc	Revenue Refunding Bonds Series 2019 A	168.46	Negotiated Bid	Co-Manager	A1	A	A	Public Power	
1/31/2019	Metropolitan Transportation Authority	Transportation Revenue BANs Series 2019 A	525.00	Competitive Bid	Lead Manager	NR	NR	NR	Mass Transportation	0.13
1/31/2019	Metropolitan Transportation Authority	Transportation Revenue BANs Series 2019 A	225.00	Competitive Bid	Lead Manager	NR	NR	NR	Mass Transportation	0.05
2/1/2019	NYS Housing Fin-Mortgage Agcy	Affordable Housing Ref Rev Bonds 2019 Series C	134.39	Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	
2/5/2019	Washington	Various Purpose GO Bonds Series 2019 C	466.92	Competitive Bid	Sole Manager	Aa1	AA+	AA+	General Purpose/ Public Imp	2.14
2/5/2019	Massachusetts Dev Finance Agcy	Revenue Bonds Series S-2 (2019)	36.91	Negotiated Bid	Lead Manager	A1	A+	NR	Higher Education	2.69
2/5/2019	Garland City-Texas	Electric Utility Sys Rev Ref Bond New Series 2019	147.61	Negotiated Bid	Co-Manager	NR,NR;NR	A+;A+;A+	AA-AA-AA-	Public Power	
2/6/2019	Riverside City-California	Refunding Electric Rev Bonds Issue of 2019 A	283.33	Negotiated Bid	Co-Manager	NR	AA-	AA-	Public Power	1.20
2/6/2019	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds 19 Ser A Subser A-4	15.00	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	1.08
2/6/2019	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds 19 Ser A Subser A-1	72.98	Negotiated Bid	Co-Manager	Aaa;Aaa;Aaa;Aaa	AAA;AAA;AAA;AAA	NR,NR;NR,NR	Single Family Housing	5.58
2/7/2019	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 19 Series A-3 A & B	149.77	Negotiated Bid	Co-Manager	Aa2;Aa2	AA+;AA+	NR,NR	Multi Family Housing	
2/12/2019	FYI Properties	Lease Revenue Ref Bonds Series 2019	227.88	Negotiated Bid	Co-Manager	NR	AA	NR	Office Buildings	2.18
2/12/2019	Orange Co Local Transport Auth	Ltd Tx Sales Tax Revenue Bonds Series 2019	376.69	Negotiated Bid	Co-Manager	NR	AA+	AA+	Toll Roads, Highways & Streets	1.47
2/14/2019	Missouri Hth & Ed Facs Authority	Educational Facs Rev Bonds Series 2019 A	93.71	Negotiated Bid	Lead Manager	A1;A1;A1;A1;A1	AA-AA-AA-AA-AA-	NR,NR;NR,NR;NR,NR	Higher Education	
2/14/2019	Missouri Hth & Ed Facs Authority	Educational Facs Rev Bonds Series 2019 A	50.66	Negotiated Bid	Lead Manager	A1	AA-	NR	Higher Education	
2/14/2019	Regents of the University of Michigan	General Revenue Bonds Series 2019 B	16.76	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Higher Education	
2/14/2019	Regents of the University of Michigan	General Revenue Bonds Series 2019 A	148.33	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Higher Education	
2/14/2019	Build NYC Resource Corp	Refunding Revenue Bonds Series 2019	82.14	Private Bid	Sole Manager	NR,NR;NR	NR,NR;NR	NR,NR;NR	Industrial Development	
2/14/2019	Texas Transportation Commission	Revenue Bonds Series 2019 B	12.80	Negotiated Bid	Co-Manager	Baa3	NR	NR	Toll Roads, Highways & Streets	5.11

2/14/2019	Texas Transportation Commission	Revenue Bonds Series 2019 A	144.09	Negotiated Bid	Co-Manager	Baa3	NR	NR	Toll Roads, Highways & Streets	3.78
2/14/2019	Texas Transportation Commission	Revenue Bonds Series 2019 A	92.37	Negotiated Bid	Co-Manager	Baa3	NR	NR	Toll Roads, Highways & Streets	2.42
2/21/2019	Massachusetts Dev Finance Agcy	Revenue Refunding Bonds Series 2019	80.96	Negotiated Bid	Co-Manager	Baa2	NR	BBB	Higher Education	
2/21/2019	Illinois Housing Dev Authority	Revenue Bonds 2019 Series A	66.75	Negotiated Bid	Co-Manager	Aaa,Aaa,Aaa	NR,NR,NR	NR,NR,NR	Single Family Housing	6.33
3/4/2019	Berwyn Muni Securitization Corp	Conveyed Tax Securitization Bonds Series 2019 A	16.43	Negotiated Bid	Sole Manager	NR	A-	NR	General Purpose/ Public Imp	
3/4/2019	Berwyn Muni Securitization Corp	Conveyed Tax Securitization Bonds Series 2019 B	63.54	Negotiated Bid	Sole Manager	NR	A-	NR	General Purpose/ Public Imp	
3/6/2019	California	GO Var Purpose & Ref Bonds	1,791.81	Negotiated Bid	Co-Manager	Aa3,Aa3	AA-,AA-	AA-,AA-	General Purpose/ Public Imp	2.04
3/6/2019	California	Various Purpose GO Ref Bonds	500.04	Negotiated Bid	Co-Manager	Aa3	AA-	AA-	General Purpose/ Public Imp	0.57
3/6/2019	San Francisco City/Co Public Util Comm	Commercial Paper Ntoes Serie A-1 & 2	250.00	Negotiated Bid	Lead Manager;Remarketing Agent;Remarketing Agent	NR,NR	NR,NR	NR,NR	Public Power	
3/7/2019	New York City-New York	General Obligation Bonds Series E & F-1	915.23	Negotiated Bid	Co-Manager	Aa1,Aa1	AA,AA	AA,AA	General Purpose/ Public Imp	
3/12/2019	Regents of the University of California	General Revenue Bonds 2019 Series BB	114.41	Negotiated Bid	Lead Manager	Aa2,Aa2	AA,AA	AA,AA	Higher Education	2.86
3/12/2019	Regents of the University of California	General Revenue Bonds 2019 Series BC & BD	538.65	Negotiated Bid	Lead Manager	Aa2,Aa2	AA,AA	AA,AA	Higher Education	2.38
3/12/2019	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds 2019 Series E	93.24	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
3/13/2019	Virginia Public Building Auth	Public Facilities Revenue Bonds Series 2019 A	178.11	Competitive Bid	Sole Manager	Aa1	AA+	AA+	General Purpose/ Public Imp	
3/13/2019	Ohio Higher Ed Fac Commission	Revenue Refunding Bonds Series 2019 A	68.16	Negotiated Bid	Co-Manager	A1	AA-	NR	Higher Education	2.28
3/13/2019	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds 2019 Series D	45.60	Negotiated Bid	Co-Manager	Aa2,Aa2,Aa2,Aa2,Aa2,Aa2	NR,NR,NR,NR,NR,NR	NR,NR,NR,NR,NR,NR	Multi Family Housing	
3/13/2019	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds 2019 Series D	52.25	Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	
3/13/2019	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds 2019 Series D	27.57	Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	
3/13/2019	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds 2019 Series E	23.83	Negotiated Bid	Co-Manager	Aa2,Aa2,Aa2,Aa2,Aa2,Aa2	NR,NR,NR,NR,NR,NR	NR,NR,NR,NR,NR,NR	Multi Family Housing	
3/13/2019	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds 2019 Series E	22.40	Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	
3/13/2019	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds 2019 Series E	9.10	Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	
3/13/2019	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds 2019 Series E	22.57	Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	
3/13/2019	Lower Colorado River Authority (LCRA)	Transmission Contract Rev Bonds Series 2019	263.71	Negotiated Bid	Co-Manager	NR	A	A+	Public Power	1.87
3/13/2019	Lower Colorado River Authority (LCRA)	Transmission Contract Rev Bonds Series 2019	129.31	Negotiated Bid	Co-Manager	NR,NR,NR	A,A,A	A+,A+,A+	Public Power	0.91
3/13/2019	Missoula City-Montana	Water System Revenue Bonds Series 2019 A	96.68	Negotiated Bid	Sole Manager	NR,NR,NR	A+,A+,A+	NR,NR,NR	Water & Sewer Facilities	6.90
3/14/2019	Michigan St Hsg Dev Au (MSHDA)	Single Family Mortgage Rev Bonds 2019 Series A	233.93	Negotiated Bid	Co-Manager	Aa2,Aa2,Aa2,Aa2,Aa2,Aa2	AA+,AA+,AA+,AA+,AA+,AA+	NR,NR,NR,NR,NR,NR	Single Family Housing	
3/26/2019	Chicago City-Illinois	General Obligation Bonds Series 2019 A	71.98	Negotiated Bid	Lead Manager	NR,NR,NR	BBB+,BBB+,BBB+	BBB-,BBB-,BBB-	General Purpose/ Public Imp	
3/27/2019	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds 2019 Subseries C-1	850.00	Negotiated Bid	Co-Manager	Aa1,Aa1	AAA,AAA	AAA,AAA	General Purpose/ Public Imp	
3/29/2019	Connecticut	General Obligation Bonds 2019 Series A-1	48.51	Negotiated Bid	Lead Manager	A1	A	A+	General Purpose/ Public Imp	0.27
3/29/2019	Connecticut	General Obligation Bonds 2019 Series A-1	159.46	Negotiated Bid	Lead Manager	A1	A	A+	General Purpose/ Public Imp	2.19
3/29/2019	Connecticut	General Obligation Bonds 2019 Series A-2	95.00	Negotiated Bid	Lead Manager	A1	A	A+	General Purpose/ Public Imp	0.53
3/29/2019	Connecticut	General Obligation Bonds 2019 Series A-3	316.63	Negotiated Bid	Lead Manager	A1	A	A+	General Purpose/ Public Imp	1.75
3/29/2019	Connecticut	General Obligation Bonds 2019 Series A-4	32.58	Negotiated Bid	Lead Manager	A1,A1	A,A	A+,A+	General Purpose/ Public Imp	0.18
3/29/2019	Connecticut	General Obligation Bonds 2019 Series A-5	152.62	Negotiated Bid	Lead Manager	A1	A	A+	General Purpose/ Public Imp	8.44
3/29/2019	Connecticut	General Obligation Bonds 2019 Series A-6	8.20	Negotiated Bid	Lead Manager	A1	A	A+	General Purpose/ Public Imp	0.05
3/29/2019	Connecticut	General Obligation Bonds 2019 Series A-7	96.47	Negotiated Bid	Lead Manager	A1	A	A+	General Purpose/ Public Imp	0.53
3/29/2019	Connecticut	General Obligation Bonds 2019 Series A-2	6.91	Negotiated Bid	Lead Manager	A1	A	A+	General Purpose/ Public Imp	0.09
3/29/2019	Connecticut	General Obligation Bonds 2019 Series A-3	67.64	Negotiated Bid	Lead Manager	A1	A	A+	General Purpose/ Public Imp	0.93
3/29/2019	Connecticut	General Obligation Bonds 2019 Series A-4	1.50	Negotiated Bid	Lead Manager	A1	A	A+	General Purpose/ Public Imp	0.02
3/29/2019	Connecticut	General Obligation Bonds 2019 Series A-5	14.50	Negotiated Bid	Lead Manager	A1	A	A+	General Purpose/ Public Imp	0.20
4/2/2019	Wisconsin Public Finance Auth	Hospital Revenue Bonds Series 2019 A	207.65	Negotiated Bid	Lead Manager	A2,A2,A2	NR,NR,NR	A+,A+,A+	General Acute Care Hospital	
4/2/2019	Arizona Board of Regents	System Revenue Bonds Series 2019 A	125.01	Negotiated Bid	Co-Manager	Aa2,Aa2,Aa2	AA,AA,AA	NR,NR,NR	Higher Education	
4/2/2019	Arizona Board of Regents	System Revenue Bonds Series 2019 B	69.45	Negotiated Bid	Co-Manager	Aa2,Aa2,Aa2	AA,AA,AA	NR,NR,NR	Higher Education	
4/3/2019	Gainesville City-Florida	Utilities System Revenue Bonds 2019 Series A	153.82	Negotiated Bid	Lead Manager	Aa3,Aa3	AA-,AA-	A+,A+	General Purpose/ Public Imp	
4/3/2019	Gainesville City-Florida	Utilities System Revenue Bonds 2019 Series B	26.67	Negotiated Bid	Lead Manager	Aa3	AA-	A+	General Purpose/ Public Imp	
4/3/2019	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds 2019 Subseries C-4	150.00	Negotiated Bid	Sole Manager;Remarketing Agent;Credit Enhancer	NR	NR	NR	General Purpose/ Public Imp	0.25
4/4/2019	Missouri Hlth & Ed Facs Authority	Health Facilities Revenue Bonds Series 2019 A	120.26	Negotiated Bid	Co-Manager	A2,A2,A2	NR,NR,NR	A,A,A	General Acute Care Hospital	
4/5/2019	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2019 Series B-1 A&B	149.07	Negotiated Bid	Co-Manager	Aa2,Aa2,Aa2,Aa2,Aa2,Aa2	AA+,AA+,AA+,AA+,AA+,AA+	NR,NR,NR,NR,NR,NR	Multi Family Housing	6.41
4/5/2019	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2019 Series B-2	27.81	Negotiated Bid	Co-Manager	Aa2	AA+	NR	Multi Family Housing	1.19
4/9/2019	Wisconsin Public Finance Auth	Hospital Revenue Bonds Series 2019 B & C	158.09	Negotiated Bid	Sole Manager;Remarketing Agent;Credit Enhancer;Remarketing Agent;Credit Enhancer	NR,NR	NR,NR	NR,NR	General Acute Care Hospital	1.58
4/9/2019	Santa Clara Valley Water Dist	Water System Refunding Rev Bonds Series 2019 A	15.23	Negotiated Bid	Co-Manager	Aa1,Aa1,Aa1	NR,NR,NR	AA+,AA+,AA+	Water & Sewer Facilities	
4/9/2019	Santa Clara Valley Water Dist	Water System Refunding Rev Bonds Series 2019 B	80.03	Negotiated Bid	Co-Manager	Aa1,Aa1,Aa1	NR,NR,NR	AA+,AA+,AA+	Water & Sewer Facilities	
4/10/2019	NYC Municipal Water Fin Auth	Water & Sewer Revenue Bonds 19 Ser FF Sub 1 & 2	500.00	Negotiated Bid	Co-Manager	Aa1,Aa1,Aa1	AA+,AA+,AA+	AA+,AA+,AA+	Water & Sewer Facilities	4.96
4/16/2019	Martin Co Health Facs Authority	Hospital Revenue Bonds Series 2019 A	247.05	Negotiated Bid	Lead Manager	Aa2	AA	NR	General Acute Care Hospital	4.96
4/16/2019	Ohio Higher Ed Fac Commission	Hospital Revenue Bonds Series 2019 B	250.32	Negotiated Bid	Lead Manager	Aa2,Aa2	AA,AA	NR,NR	General Acute Care Hospital	4.96
4/18/2019	Delaware Municipal Electric Corp	Electric Revenue Bonds Series 2019 A	12.06	Negotiated Bid	Sole Manager	NR,NR	BBB,BBB	NR,NR	Public Power	10.21
4/18/2019	Delaware Municipal Electric Corp	Electric Revenue Bonds Series 2019 B	4.64	Negotiated Bid	Sole Manager	NR,NR,NR	BBB,BBB,BBB	NR,NR,NR	Public Power	10.21
4/23/2019	NYS Thruway Authority	Gen Rev Jr Indebtedness Oblig Series 2019 A	1,587.21	Competitive Bid	Lead Manager	NR	NR	NR	Bridges	0.06
4/23/2019	University Of Minnesota Regents	GO & Refunding Bonds Series 2019 A & B	155.46	Negotiated Bid	Lead Manager	Aa1,Aa1,Aa1	AA,AA,AA	NR,NR,NR	Higher Education	
4/23/2019	University Of Minnesota Regents	General Obligation Bonds Series 2019 C	20.00	Negotiated Bid	Lead Manager	Aa1,Aa1,Aa1	AA,AA,AA	NR,NR,NR	Higher Education	
4/24/2019	District of Columbia	GO Commercial Paper BANs Series 2019	500.00	Negotiated Bid	Sole Manager;Remarketing Agent;Credit Enhancer	NR	NR	NR	General Purpose/ Public Imp	
4/24/2019	University of Connecticut	General Obligation Bonds 2019 & Ref	239.47	Negotiated Bid	Co-Manager	A1,A1	A+,A+	A,A	Higher Education	
4/24/2019	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds 2019 Ser B Sub B-1	72.00	Negotiated Bid	Co-Manager	Aaa,Aaa,Aaa,Aaa	AAA,AAA,AAA,AAA	NR,NR,NR,NR	Single Family Housing	5.27
4/24/2019	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds 2019 Ser B Sub B-4	15.00	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	1.10

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7/17/2019	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds 19 Ser D Subser D-2	5.59	Negotiated Bid	Co-Manager	Aaa/Aaa	AAA/AAA	NR/NR	Single Family Housing	
7/17/2019	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds 19 Ser D Subser D-4	15.00	Negotiated Bid	Co-Manager	Aaa/Aaa	AAA/AAA	NR/NR	Single Family Housing	
7/17/2019	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds 19 Ser D Subser D-1	65.40	Negotiated Bid	Co-Manager	Aaa/Aaa/Aaa/Aaa	AAA/AAA/AAA/AAA	NR/NR/NR/NR	Single Family Housing	
7/18/2019	Port of Seattle-Washington	Intermediate Lien Revenue Bonds Series 2019	457.39	Negotiated Bid	Co-Manager	A1;A1;A1	A+/A+/A+	AA-/AA-/AA-	Airports	2.15
7/23/2019	Kern Community College District	GO Refunding Bonds 2019 Series	61.32	Negotiated Bid	Sole Manager	Aa2	AA-	NR	Higher Education	
7/23/2019	Colorado Hsg & Fin Auth (CHFA)	Multi-Family/Project Bonds 2019 Ser A-1 & A-3	20.28	Negotiated Bid	Lead Manager	Aaa/Aaa	AAA/AAA	NR/NR	Multi Family Housing	
7/23/2019	Colorado Hsg & Fin Auth (CHFA)	Multi-Family/Project Bonds 2019 Ser A-2	7.85	Negotiated Bid	Lead Manager	Aaa	AAA	NR	Multi Family Housing	
7/24/2019	New York City-New York	General Obligation Bonds Series A Subser A-1	800.00	Negotiated Bid	Co-Manager	Aa1	AA	AA	General Purpose/ Public Imp	4.68
7/30/2019	Texas PAB Surface Trans Corp	Senior Lien Revenue Bonds Series 2019	653.87	Negotiated Bid	Lead Manager	Baa3	NR	BBB-	Toll Roads, Highways & Streets	4.64
8/6/2019	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds Subseries A-2	374.15	Competitive Bid	Sole Manager	Aa1	AAA	AAA	General Purpose/ Public Imp	
8/7/2019	Chattanooga Health Education & Housing Board	Revenue Bonds Series 2019 A-1&A-2	276.02	Negotiated Bid	Co-Manager	Baa1;Baa1;Baa1;Baa1;Baa1	BBB+;BBB+;BBB+;BBB+;BBB+;BBB+	BBB+;BBB+;BBB+;BBB+;BBB+;BBB+	General Acute Care Hospital	4.35
8/7/2019	Colorado Health Facilities Auth	Revenue Bonds Series 2019 B-1	124.58	Negotiated Bid	Co-Manager	Baa1	BBB+	BBB+	General Acute Care Hospital	2.67
8/7/2019	Colorado Health Facilities Auth	Revenue Bonds Series 2019 A-1&A-2	1,760.96	Negotiated Bid	Co-Manager	Baa1;Baa1;Baa1;Baa1;Baa1	BBB+;BBB+;BBB+;BBB+;BBB+;BBB+	BBB+;BBB+;BBB+;BBB+;BBB+;BBB+	General Acute Care Hospital	4.36
8/7/2019	Colorado Health Facilities Auth	Revenue Bonds Series 2019 B-2	157.68	Negotiated Bid	Co-Manager	Baa1	BBB+	BBB+	General Acute Care Hospital	2.67
8/7/2019	Kentucky Economic Dev Fin Auth	Revenue Bonds Series 2019 A-1&A-2	176.20	Negotiated Bid	Co-Manager	Baa1;Baa1;Baa1;Baa1;Baa1	BBB+;BBB+;BBB+;BBB+;BBB+;BBB+	BBB+;BBB+;BBB+;BBB+;BBB+;BBB+	General Acute Care Hospital	4.38
8/7/2019	Washington Health Care Facs Au	Revenue Bonds Series 2019 A-1&A-2	315.90	Negotiated Bid	Co-Manager	Baa1;Baa1;Baa1;Baa1;Baa1	BBB+;BBB+;BBB+;BBB+;BBB+;BBB+	BBB+;BBB+;BBB+;BBB+;BBB+;BBB+	General Acute Care Hospital	4.34
8/7/2019	Washington Health Care Facs Au	Revenue Bonds Series 2019 B-1	102.56	Negotiated Bid	Co-Manager	Baa1	BBB+	BBB+	General Acute Care Hospital	2.67
8/7/2019	Washington Health Care Facs Au	Revenue Bonds Series 2019 B-2	100.48	Negotiated Bid	Co-Manager	Baa1	BBB+	BBB+	General Acute Care Hospital	2.67
8/7/2019	Washington Health Care Facs Au	Revenue Bonds Series 2019 B-3	135.28	Negotiated Bid	Co-Manager	Baa1	BBB+	BBB+	General Acute Care Hospital	2.67
8/8/2019	Cleveland-Cuyahoga Co Port Auth	Development Ref Rev Bonds Series 2019	18.22	Negotiated Bid	Lead Manager	A2	A-	NR	Seaports/ Marine Terminals	
8/13/2019	Colorado Hsg & Fin Auth (CHFA)	Homeownership Class I Bonds Ser 19 BB-1 & BB-2	74.86	Negotiated Bid	Co-Manager	Aaa/Aaa	NR/NR	NR/NR	Single Family Housing	
8/14/2019	San Francisco City & Co Airport Comm	Revenue Bonds 2nd Series 2019 G	41.77	Negotiated Bid	Lead Manager	A1	A+	A+	Airports	
8/14/2019	San Francisco City & Co Airport Comm	Revenue Bonds 2nd Series 2019 F	106.93	Negotiated Bid	Lead Manager	A1	A+	A+	Airports	
8/14/2019	San Francisco City & Co Airport Comm	Revenue & Refunding Bonds 2nd Series 2019 E&H	1,040.48	Negotiated Bid	Lead Manager	A1;A1;A1;A1;A1	A+/A+/A+/A+/A+	A+/A+/A+/A+/A+	Airports	
8/14/2019	Montgomery Co-Ohio	Hospital Facilities Rev Ref Bonds Series 2019 A	288.21	Negotiated Bid	Lead Manager	Baa1;Baa1;Baa1	NR/NR/NR	A/A/A	General Acute Care Hospital	5.99
8/15/2019	Georgia Priv College & Univ Auth	Revenue Bonds Series 2019 A	218.12	Negotiated Bid	Co-Manager	Aa2	AA	NR	Higher Education	
8/15/2019	Georgia Priv College & Univ Auth	Revenue Bonds Series 2019 B	39.73	Negotiated Bid	Co-Manager	Aa2	AA	NR	Higher Education	
8/16/2019	Pennsylvania Housing Fin Acy (PHFA)	Single Family Mortgage Rev Bonds Series 2019-130 A	122.92	Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2;Aa2;Aa2	AA+/AA+/AA+/AA+/AA+	NR/NR/NR/NR/NR	Single Family Housing	
8/16/2019	Pennsylvania Housing Fin Acy (PHFA)	Single Family Mortgage Rev Bonds Series 2019-130 B	52.01	Negotiated Bid	Co-Manager	Aa2	AA+	NR	Single Family Housing	
8/21/2019	Texas	TRANS Series 2019	8,000.00	Competitive Bid	Lead Manager	NR	NR	NR	General Purpose/ Public Imp	
8/22/2019	Houston City-Texas	Public Improvement Ref Bonds Series 2019 B	214.63	Negotiated Bid	Co-Manager	Aa3;Aa3;Aa3	AA/AA/AA	NR/NR/NR	General Purpose/ Public Imp	2.92
8/22/2019	Houston City-Texas	Public Improvement Ref Bonds Series 2019 A	255.39	Negotiated Bid	Co-Manager	Aa3;Aa3;Aa3	AA/AA/AA	NR/NR/NR	General Purpose/ Public Imp	3.30
8/22/2019	Houston City-Texas	Public Improvement Ref Bonds Series 2019 C	23.31	Negotiated Bid	Co-Manager	Aa3	AA	NR	General Purpose/ Public Imp	3.67
8/22/2019	North Carolina Muni Pwr Acy #1	Catawba Electric Rev Ref Bonds Series 2019 A & B	102.04	Negotiated Bid	Co-Manager	NR/NR	A/A	A/A	Public Power	3.84
8/23/2019	Miami-Dade Co-Florida	Aviation Revenue Refunding Bonds Series 2019 C & D	27.09	Negotiated Bid	Lead Manager	NR/NR	A/A	A/A	Airports	
8/23/2019	Miami-Dade Co-Florida	Aviation Revenue Refunding Bonds Series 2019 E	360.50	Negotiated Bid	Lead Manager	NR	A	A	Airports	
8/27/2019	Hennepin Co-Minnesota	GO Refunding Bonds Series 2019 C	39.27	Competitive Bid	Sole Manager	NR	AAA	AAA	General Purpose/ Public Imp	
8/27/2019	Miami-Dade Co SD	TANs Series 2019	400.00	Competitive Bid	Lead Manager	NR/NR/NR	NR/NR/NR	NR/NR/NR	Primary & Secondary Education	0.10
8/27/2019	Massachusetts Housing Fin Acy	Single Family Mortgage Rev Bonds Series 209	14.00	Negotiated Bid	Co-Manager	Aa1;Aa1	AA+/AA+	NR/NR	Single Family Housing	2.38
8/27/2019	Massachusetts Housing Fin Acy	Single Family Housing Rev Bonds Series 210	9.15	Negotiated Bid	Co-Manager	Aa1;Aa1	AA+/AA+/AA+	NR/NR/NR	Single Family Housing	1.55
8/27/2019	Massachusetts Housing Fin Acy	Single Family Housing Rev Bonds Series 211	20.29	Negotiated Bid	Co-Manager	Aa1;Aa1	AA+/AA+	NR/NR	Single Family Housing	3.44
8/28/2019	Minneapolis-St Paul Metro Airports Comm	Sub Airport Rev & Ref Bonds Series 2019 A & C	127.65	Negotiated Bid	Co-Manager	NR/NR	A+/A+	A+/A+	Airports	
8/28/2019	Minneapolis-St Paul Metro Airports Comm	Sub Airport Rev & Ref Bonds Series 2019 B	164.32	Negotiated Bid	Co-Manager	NR	A+	A+	Airports	
8/28/2019	Montgomery Co-Ohio	Hosp Facs Rev Ref Bonds Series 2019 C	42.50	Negotiated Bid	Sole Manager;Remarketing Agent	Aa2	NR	AA	General Acute Care Hospital	1.53
9/4/2019	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Project Bonds 2019 Series C	40.00	Negotiated Bid	Sole Manager;Remarketing Agent	Aaa	AAA	NR	Multi Family Housing	
9/5/2019	California	Various Purpose GO & Ref Bonds	2,323.59	Negotiated Bid	Co-Manager	Aa3;Aa3	AA-/AA-	AA/AA	General Purpose/ Public Imp	2.42
9/5/2019	Univ of Virginia Rector & Visitors	General Revenue Pledge Bonds Series 2019 A	350.00	Negotiated Bid	Lead Manager	Aaa	AAA	AAA	Higher Education	8.89
9/5/2019	California	Various Purpose GO Bonds	81.74	Negotiated Bid	Co-Manager	Aa3	AA-	AA	Primary & Secondary Education	0.09
9/10/2019	Rutgers State University	General Obligation Bonds 2019 Series P	330.00	Negotiated Bid	Co-Manager	Aa3	A+	NR	Higher Education	
9/11/2019	Rutgers State University	GO Refunding Bonds 2020 Series Q	17.82	Negotiated Bid	Co-Manager	Aa3	A+	NR	Higher Education	
9/11/2019	West Virginia University Bd of Gov	Improvement Revenue Bonds 2019 Series A	85.84	Negotiated Bid	Co-Manager	Aa3;Aa3;Aa3	NR/NR/NR	AA-/AA-/AA-	Higher Education	1.92
9/11/2019	West Virginia University Bd of Gov	Refunding Revenue Bonds 2019 Series B	39.13	Negotiated Bid	Co-Manager	Aa3	NR	AA-	Higher Education	2.16
9/11/2019	Pend Oreille Pub Utility Dt #1	Revenue Refunding Bonds Series 2019	30.64	Negotiated Bid	Sole Manager	Baa2	NR	A-	Public Power	
9/11/2019	Pend Oreille Pub Utility Dt #1	Electric Revenue Ref Bonds Series 2019	8.68	Negotiated Bid	Sole Manager	Baa2	NR	A-	Public Power	
9/11/2019	Alaska Housing Finance Corp	General Mortgage Revenue Bonds 2019 Series A	136.70	Negotiated Bid	Co-Manager	Aa1;Aa1;Aa1;Aa1;Aa1;Aa1	AA+/AA+/AA+/AA+/AA+/AA+	NR/NR/NR/NR/NR/NR	Single Family Housing	5.30
9/11/2019	Alaska Housing Finance Corp	General Mortgage Revenue Bonds 2019 Series B	24.99	Negotiated Bid	Co-Manager	Aa1;Aa1	AA+/AA+	NR/NR	Single Family Housing	5.19
9/11/2019	NYS Housing Fin-Mortgage Acy	Homeowner Mtg Revenue Bonds Series 220	125.44	Negotiated Bid	Co-Manager	Aa1;Aa1;Aa1;Aa1	NR/NR/NR/NR	NR/NR/NR/NR	Single Family Housing	3.56
9/11/2019	NYS Housing Fin-Mortgage Acy	Homeowner Mtg Revenue Bonds Series 221	66.74	Negotiated Bid	Co-Manager	Aa1;Aa1	NR/NR	NR/NR	Single Family Housing	1.89
9/11/2019	NYS Housing Fin-Mortgage Acy	Homeowner Mtg Revenue Bonds Series 222	20.00	Negotiated Bid	Co-Manager	Aa1	NR	NR	Single Family Housing	0.57
9/12/2019	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds Ser 19 G-1-A & G-1-B	205.89	Negotiated Bid	Lead Manager	Aa2;Aa2	AA+/AA+	NR/NR	Multi Family Housing	
9/12/2019	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds Series 2019 G-2	8.46	Negotiated Bid	Lead Manager	Aa2	AA+	NR	Multi Family Housing	
9/12/2019	Long Island Power Authority	Electric System Gen Rev Bonds Series 2019 A	218.18	Negotiated Bid	Co-Manager	A2	A	A	Public Power	1.82
9/12/2019	Long Island Power Authority	Electric System Gen Rev Bonds Series 2019 B	284.25	Negotiated Bid	Co-Manager	A2	A	A	Public Power	2.36
9/12/2019	Utah Housing Corporation (UHC)	Single Family Mortgage Bonds 2019 Series A	113.05	Negotiated Bid	Lead Manager	Aa2;Aa2	NR/NR	NR/NR	Single Family Housing	5.43
9/12/2019	Utah Housing Corporation (UHC)	Single Family Mortgage Bonds 2019 Series A	49.46	Negotiated Bid	Lead Manager	Aa2	NR	NR	Single Family Housing	2.37
9/17/2019	University of Delaware	General Obligation Bonds Series 2019 A	49.39	Negotiated Bid	Sole Manager	Aa1	AA+	NR	Higher Education	
9/17/2019	Wisconsin Hbty & Ed Fac Auth (WHEFA)	Revenue Bonds Series 2019	43.65	Negotiated Bid	Lead Manager	A2	NR	NR	Higher Education	
9/19/2019	Massachusetts Dev Finance Acy	Revenue Bonds Series 2019	113.64	Negotiated Bid	Sole Manager	A1	A	NR	Higher Education	
9/20/2019	Greater Orlando Aviation Auth	Airport Facilities Revenue Bonds Series 2019 A	1,135.37	Negotiated Bid	Co-Manager	Aa3;Aa3;Aa3;Aa3;Aa3;Aa3	AA-/AA-/AA-/AA-/AA-/AA-	AA-/AA-/AA-/AA-/AA-/AA-	Airports	2.93

4/16/2020	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Housing Rev Bonds 2020 Series A-2	29.00	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Multi Family Housing	
4/16/2020	Maine State Housing Authority	Mortgage Purchase Bonds 2020 Series C	38.96	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
4/21/2020	Chelan Co Public Utility Dt #1	Consolidated Sys Rev & Ref Bonds Series 2020 A & B	120.60	Negotiated Bid	Sole Manager	NR,NR	AA+;AA+	AA+;AA+	Combined Utilities	
4/21/2020	Chelan Co Public Utility Dt #1	Consolidated Sys Rev Ref Bonds Series 2020 C	13.23	Negotiated Bid	Sole Manager	NR	AA+	AA+	Combined Utilities	
4/21/2020	Maryland Hlth & Hghr Ed Facs Au	Revenue Bonds Series 2020 B	190.96	Negotiated Bid	Lead Manager	A2	A	A	General Acute Care Hospital	
4/21/2020	Pennsylvania Econ Dev Fin Auth	Revenue Bonds Series 2020 A	258.63	Negotiated Bid	Co-Manager	A2;A2;A2;A2	A;A;A;A	A;A;A;A	General Medical	5.68
4/22/2020	Riverside Co-California	Pension Obligation Bonds Series 2020	720.00	Negotiated Bid	Co-Manager	A2;A2	AA;AA	NR,NR	General Purpose/ Public Imp	
4/22/2020	Wisconsin	Environment Imp Fund Rev Bonds 2020 Series A	80.00	Competitive Bid	Sole Manager	NR	AAA	AAA	General Purpose/ Public Imp	
4/22/2020	Peralta Community College Dt	General Obligation Bonds 2020 Series E-2	11.38	Negotiated Bid	Co-Manager	NR	AA-	AA	Higher Education	
4/22/2020	Peralta Community College Dt	General Obligation Bonds 2020 Series E-1 & A	103.63	Negotiated Bid	Co-Manager	NR,NR	AA-,AA-	AA,AA	Higher Education	
4/22/2020	Wyoming Community Dev Authority	Housing Revenue Bonds 2020 Series 1	95.39	Negotiated Bid	Co-Manager	Aa1	AAA	NR	Multi Family Housing	
4/27/2020	Howard Co-Maryland	Cons Pub Imp & Metro Dt & Ref Bond 2020 Series C & D	87.11	Negotiated Bid	Co-Manager	Aaa;Aaa	AAA;AAA	AAA;AAA	General Purpose/ Public Imp	
4/27/2020	Howard Co-Maryland	Cons Pub Imp & Metro Dt Bonds 2020 Series A & B	168.36	Negotiated Bid	Co-Manager	Aaa;Aaa	AAA;AAA	AAA;AAA	General Purpose/ Public Imp	
4/28/2020	Pennsylvania State University	General Obligation Notes Series C of 2020	1,061.40	Private Bid	Sole Manager;Remarketing Agent	NR	NR	NR	Higher Education	
4/28/2020	Sacramento MUD (SMUD)	Electric Revenue Bonds 2020 Series H	374.78	Negotiated Bid	Co-Manager	NR,NR,NR	AA;AA;AA	AA;AA;AA	Public Power	1.92
4/28/2020	Sacramento MUD (SMUD)	Electric Revenue Bonds 2020 Series H	25.22	Negotiated Bid	Co-Manager	NR	AA	AA	Public Power	0.13
4/30/2020	Georgia Housing Finance Authority	Single Family Mortgage Bonds 2020 Series A	139.15	Negotiated Bid	Co-Manager	NR	AAA	NR	Single Family Housing	
5/1/2020	District of Columbia	General Obligation Notes	300.00	Negotiated Bid	Sole Manager;Credit Enhancer	NR	NR	NR	General Purpose/ Public Imp	
5/5/2020	Pennsylvania State University	Revenue Bonds Series D of 2020	1,065.17	Negotiated Bid	Lead Manager	Aa1;Aa1;Aa1	AA;AA;AA	NR,NR,NR	Higher Education	2.88
5/5/2020	Pennsylvania State University	Revenue Bonds Series E of 2020	61.89	Negotiated Bid	Lead Manager	Aa1	AA	NR	Higher Education	2.88
5/12/2020	Lower Colorado River Authority (LCRA)	Transmission Contract Ref Bonds Series 2020	261.53	Negotiated Bid	Co-Manager	NR,NR,NR	A;A;A	A+;A+;A+	Public Power	2.83
5/13/2020	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds Series 215	42.15	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
5/14/2020	NYC Transitional Finance Auth	Future Tax Secured Subor Bonds Subseries C-1	340.00	Negotiated Bid	Co-Manager	Aa1;Aa1	AAA;AAA	AAA;AAA	General Purpose/ Public Imp	
5/14/2020	NYC Transitional Finance Auth	Future Tax Secured Subor Bonds Subseries C-1	510.00	Negotiated Bid	Co-Manager	Aa1;Aa1	AAA;AAA	AAA;AAA	General Purpose/ Public Imp	
5/18/2020	Texas Water Development Board	State Revolving Fund Rev Bonds New Series 2020	352.59	Negotiated Bid	Co-Manager	NR	AAA	AAA	Water & Sewer Facilities	
5/20/2020	Georgia Priv College & Univ Auth	Revenue Bonds Series 2020 B	486.47	Negotiated Bid	Lead Manager	Aa2	AA	NR	Higher Education	
5/21/2020	Tampa City-Florida	Revenue Refunding Bonds Series 2020 B	57.05	Negotiated Bid	Co-Manager	NR	A-	A-	Higher Education	
5/21/2020	Tampa City-Florida	Revenue & Refunding Bonds Series 2020 A	81.32	Negotiated Bid	Co-Manager	NR	A-	A-	Higher Education	
5/27/2020	Peralta Community College Dt	GO Refunding Bonds 2020 Series	19.55	Negotiated Bid	Co-Manager	NR	AA-	AA	Higher Education	
5/28/2020	Connecticut	General Obligation Bonds 2020 Series A-3	49.47	Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	0.32
5/28/2020	Connecticut	General Obligation Bonds 2020 Series A-1	198.04	Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	1.30
5/28/2020	Connecticut	General Obligation Bonds 2020 Series A-2	252.50	Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	1.66
5/28/2020	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2020 Ser A-1-B & C	159.46	Negotiated Bid	Co-Manager	Aa2;Aa2	AA+;AA+	NR,NR	Multi Family Housing	
5/28/2020	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds Series A-3	99.37	Negotiated Bid	Co-Manager	Aa2	AA	NR	Multi Family Housing	
5/28/2020	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds Series 2020-132 A	117.97	Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2;Aa2	AA+;AA+;AA+;AA+	NR,NR,NR,NR	Single Family Housing	4.00
5/28/2020	Guam Waterworks Authority	Water and Wstwr Sys Rev Bonds Series 2020 A	134.00	Negotiated Bid	Co-Manager	Baa2	A-	NR	Water & Sewer Facilities	
6/3/2020	Massachusetts Bay Transport Auth	Subordinated Sales Tax Bonds Subseries B-1	174.84	Negotiated Bid	Co-Manager	Aa3	AA	NR	Mass Transportation	
6/3/2020	Massachusetts Bay Transport Auth	Subordinated Sales Tax Bonds Subseries B-1	164.25	Negotiated Bid	Co-Manager	Aa3	AA	NR	Mass Transportation	
6/3/2020	Massachusetts Bay Transport Auth	Subordinated Sales Tax Bonds Subseries B-2	45.39	Negotiated Bid	Co-Manager	Aa3	AA	NR	Mass Transportation	
6/3/2020	Washington Metro Area Transit Au	Dedicated Revenue Bonds Series 2020 A	545.00	Negotiated Bid	Lead Manager	NR,NR,NR	AA;AA;AA	AA;AA;AA	Mass Transportation	4.92
6/3/2020	Maine State Housing Authority	Mortgage Purchase Bonds 2020 Series D	35.00	Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing	7.23
6/3/2020	Maine State Housing Authority	Mortgage Purchase Bonds 2020 Series E	40.00	Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing	7.12
6/3/2020	Rhode Island Hsg & Mtg Fin Corp	Homeownership Opportunity Bonds Series 72-A	58.38	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
6/3/2020	NYC Municipal Water Fin Auth	Wtr & Swr Sys 2nd Gen Res Bonds Series FF & Sub GG-1	608.01	Negotiated Bid	Co-Manager	Aa1;Aa1	AA+;AA+	AA+;AA+	Water & Sewer Facilities	
6/3/2020	NYC Municipal Water Fin Auth	Wtr & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2	35.00	Negotiated Bid	Co-Manager	Aa1	AA+	AA+	Water & Sewer Facilities	
6/3/2020	NYC Municipal Water Fin Auth	Wtr & Swr Sys 2nd Gen Res Bonds Fiscal 2020 Sub GG-2	65.00	Negotiated Bid	Co-Manager	Aa1	AA+	AA+	Water & Sewer Facilities	
6/4/2020	Michigan St Hsg Dev Au (MSHDA)	Single-Family Mortgage Rev Bonds 2020 Series B	100.00	Negotiated Bid	Co-Manager	Aa2	AA+	NR	Single Family Housing	3.03
6/4/2020	Michigan St Hsg Dev Au (MSHDA)	Single-Family Mortgage Rev Bonds 2020 Series A	127.05	Negotiated Bid	Co-Manager	Aa2	AA+	NR	Single Family Housing	3.84
6/9/2020	Massachusetts	GO Refunding Bonds 2020 Series A	177.18	Negotiated Bid	Lead Manager;Remarketing Agent	Aa1	AA	AA+	General Purpose/ Public Imp	
6/9/2020	Prince Georges Co-Maryland	GO Consolidated Pub Imp Ref Bonds Series 2020 C	120.01	Negotiated Bid	Co-Manager	Aaa	AAA	AAA	General Purpose/ Public Imp	
6/9/2020	Prince Georges Co-Maryland	GO Consolidated Pub Imp Bonds Series 2020 A	251.83	Negotiated Bid	Co-Manager	Aaa	AAA	AAA	General Purpose/ Public Imp	
6/9/2020	Prince Georges Co-Maryland	GO Consolidated Pub Imp Bonds Series 2020 B	64.20	Negotiated Bid	Co-Manager	Aaa	AAA	AAA	General Purpose/ Public Imp	
6/9/2020	Regents of the University of Michigan	General Revenue Bonds Series 2020 B	100.00	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Higher Education	
6/9/2020	Regents of the University of Michigan	General Revenue Bonds Series 2020 B	35.00	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Higher Education	
6/9/2020	Regents of the University of Michigan	General Revenue Bonds Series 2020 B	65.00	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Higher Education	
6/9/2020	Regents of the University of Michigan	General Revenue Bonds Series 2020 B	350.03	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Higher Education	
6/9/2020	Regents of the University of Michigan	General Revenue Bonds Series 2020 B	300.00	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Higher Education	
6/9/2020	Regents of the University of Michigan	General Revenue Bonds Series 2020 A	138.43	Negotiated Bid	Co-Manager	Aaa;Aaa;Aaa	AAA;AAA;AAA	NR,NR,NR	Higher Education	
6/11/2020	Utah State Board of Regents	General Revenue Bonds Series 2020 B	20.12	Negotiated Bid	Lead Manager	Aa1	AA+	NR	Higher Education	
6/11/2020	Utah State Board of Regents	General Revenue Bonds Series 2020 A	84.64	Negotiated Bid	Lead Manager	Aa1	AA+	NR	Higher Education	
6/12/2020	Connecticut	General Obligation Bonds 2020 Series C-1	116.36	Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	1.22
6/12/2020	Connecticut	General Obligation Bonds 2020 Series C-3	83.96	Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	0.88
6/12/2020	Connecticut	General Obligation Bonds 2020 Series C-4	16.58	Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	0.17
6/12/2020	Connecticut	General Obligation Bonds 2020 Series C-5	56.02	Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	0.59
6/12/2020	Connecticut	General Obligation Bonds 2020 Series C-6	41.00	Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	0.43
6/12/2020	Connecticut	General Obligation Bonds 2020 Series C-2	86.10	Negotiated Bid	Co-Manager	A1	A	A+	Pollution Control	0.90
6/12/2020	Texas Dept of Hsg & Comm Affairs	Single Family Mtg Rev Ref Bonds 2020 Series B	12.40	Negotiated Bid	Co-Manager	Aaa	AA+	NR	Single Family Housing	
6/12/2020	Texas Dept of Hsg & Comm Affairs	Single Family Mtg Rev Bonds 2020 Series A	174.25	Negotiated Bid	Co-Manager	Aaa	AA+	NR	Single Family Housing	

6/16/2020	Massachusetts St College Bldg Au	Revenue Refunding Bonds Series 2020 A	395.74	Negotiated Bid	Co-Manager	Aa2	AA-	NR	Higher Education	
6/16/2020	Univ of North Carolina Bd of Gov	General Revenue Bonds Series 2020 A	82.34	Negotiated Bid	Co-Manager	Aa1	AA	NR	Higher Education	
6/16/2020	Univ of North Carolina Bd of Gov	General Revenue Bonds Series 2020 B	164.77	Negotiated Bid	Co-Manager	Aa1	AA	NR	Higher Education	
6/16/2020	Univ of North Carolina Bd of Gov	General Revenue Bonds Series 2020 B	19.68	Negotiated Bid	Co-Manager	Aa1	AA	NR	Higher Education	
6/17/2020	New York Transportation Development Corporation	Special Facility Revenue Bonds Series 2020	360.40	Negotiated Bid	Co-Manager	NR	B-	BB-	Airports	12.10
6/17/2020	Massachusetts Housing Fin Agcy	Housing Bonds 2020 Series A-1	94.71	Negotiated Bid	Lead Manager	Aa2	AA	NR	Single Family Housing	
6/17/2020	Massachusetts Housing Fin Agcy	Housing Bonds 2020 Series A-2	11.55	Negotiated Bid	Lead Manager	Aa2	AA	NR	Single Family Housing	
6/17/2020	Massachusetts Housing Fin Agcy	Housing Bonds 2020 Series A-3	27.00	Negotiated Bid	Lead Manager	Aa2	AA	NR	Single Family Housing	
6/17/2020	Massachusetts Housing Fin Agcy	Housing Bonds 2020 Series B	21.36	Negotiated Bid	Lead Manager	Aa2	AA	NR	Single Family Housing	
6/17/2020	Texas Transportation Commission	Highway Imp GO Refunding Bonds Series 2020	794.24	Negotiated Bid	Co-Manager	Aaa,Aaa	NR,NR	AAA,AAA	Toll Roads, Highways & Streets	
6/18/2020	Geisinger Authority	Health System Revenue Bonds Series D of 2020	39.08	Negotiated Bid	Lead Manager	A1	AA-	NR	General Acute Care Hospital	
6/18/2020	Geisinger Authority	Health System Revenue Bonds Series B of 2020	139.56	Negotiated Bid	Lead Manager	A1	AA-	NR	General Acute Care Hospital	
6/18/2020	Geisinger Authority	Health System Revenue Bonds Series C of 2020	89.54	Negotiated Bid	Lead Manager	A1	AA-	NR	General Acute Care Hospital	
6/18/2020	Geisinger Authority	Health System Revenue Bonds Series A of 2020	480.05	Negotiated Bid	Lead Manager	A1	AA-	NR	General Acute Care Hospital	
6/18/2020	NYS Urban Development Corp	State Personal Inc Tax Rev Bonds Series 2020 B	492.01	Negotiated Bid	Co-Manager	Aa1	NR	AA+	General Purpose/ Public Imp	
6/18/2020	NYS Urban Development Corp	State Personal Inc Tax Rev Bonds Series 2020 B	1,288.21	Negotiated Bid	Co-Manager	Aa1	NR	AA+	General Purpose/ Public Imp	
6/18/2020	Connecticut Hlth & Ed Facs Auth (CHEFA)	Revenue Bonds Series R	49.02	Negotiated Bid	Sole Manager	A2	A+	NR	Higher Education	
6/18/2020	Los Angeles Dept Wtr & Pwr (LADWP)	Power System Revenue Bonds 2020 Series B	433.08	Negotiated Bid	Lead Manager	Aa2	NR	AA-	Public Power	
6/18/2020	Washington Health Care Facs Au	Revenue Bonds Series 2020	232.93	Negotiated Bid	Co-Manager	A2	NR	A+	Single Specialty Hospital	
6/19/2020	Miami University	General Receipts Rev & Ref Bonds Series 2020 A	128.47	Negotiated Bid	Lead Manager	Aa3	NR	AA	Higher Education	
6/24/2020	Massachusetts Dev Finance Agcy	Revenue Bonds Series 2020 A	103.48	Negotiated Bid	Lead Manager	A1	NR	NR	Higher Education	
6/30/2020	Corpus Christi City-Texas	Util Sys Jr Ln Rev Imp & Ref Bond Series 2020 A	133.77	Negotiated Bid	Co-Manager	Aa3	AA-	AA-	Combined Utilities	
6/30/2020	Corpus Christi City-Texas	Util Sys Jr Ln Rev Imp Ref Bond Series 2020 B	183.64	Negotiated Bid	Co-Manager	Aa3	AA-	AA-	Combined Utilities	
6/30/2020	California Statewide CDA (CSCDA)	Revenue Bonds Series 2020 A	164.35	Negotiated Bid	Sole Manager	NR	A	A+	General Acute Care Hospital	
6/30/2020	California Statewide CDA (CSCDA)	Revenue Bonds Series 2020 B	5.91	Negotiated Bid	Sole Manager	NR	A	A+	General Acute Care Hospital	
6/30/2020	Massachusetts School Bldg Auth	Sr Dedicated Sales Tax Bonds 2020 Series B	1,094.92	Negotiated Bid	Co-Manager	Aa2	AA+	AAA	Primary & Secondary Education	
7/8/2020	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds 2020 Series D	6.32	Negotiated Bid	Lead Manager	Aaa	AAA	NR	Single Family Housing	
7/8/2020	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds 2020 Series E	36.09	Negotiated Bid	Lead Manager	Aaa	AAA	NR	Single Family Housing	
7/8/2020	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds 2020 Series F-1	28.55	Negotiated Bid	Lead Manager	Aaa	AAA	NR	Single Family Housing	
7/8/2020	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds Series 2020 F-2	40.93	Negotiated Bid	Sole Manager;Remarketing Agent	Aaa	AAA	NR	Single Family Housing	
7/9/2020	Jacksonville Electric Authority (JEA)	Water & Sewer System Rev Bonds 2020 Series A	104.00	Negotiated Bid	Co-Manager	A2	AA+	AA	Water & Sewer Facilities	4.28
7/9/2020	Jacksonville Electric Authority (JEA)	Water & Sewer Sys Sub Rev Bonds 2020 Series A	26.59	Negotiated Bid	Co-Manager	A2	AA	AA	Water & Sewer Facilities	4.19
7/10/2020	Jacksonville Electric Authority (JEA)	Electric System & Sub Rev Bonds 2020&Series 3 2020 A	221.67	Negotiated Bid	Co-Manager	A2,A2	A+,A+	AA,AA	Public Power	
7/14/2020	Washington	Various Purpose GO Bonds Series 2021 A	291.17	Competitive Bid	Sole Manager	Aaa	AA+	AA+	General Purpose/ Public Imp	
7/14/2020	Univ of Virginia Rector & Visitors	General Revenue Pledge Bonds Series 2020	600.00	Negotiated Bid	Lead Manager	Aaa	AAA	AAA	Higher Education	3.23
7/15/2020	NYS Dorm Authority	Revenue Bonds Series 2020 A	328.45	Negotiated Bid	Co-Manager	Aa3	NR	A+	Higher Education	
7/15/2020	Ohio	Higher Educational Fac Rev Bonds	47.19	Negotiated Bid	Lead Manager	A3	NR	A	Higher Education	
7/15/2020	Texas Transportation Commission	GO Mobility Fund Ref Bonds Series 2020	1,270.69	Negotiated Bid	Lead Manager	Aaa	NR	AAA	Mass Transportation	
7/17/2020	NYS Urban Development Corp	State Personal Inc Tax Rev Bonds Series 2020 C	2,225.38	Negotiated Bid	Co-Manager	Aa1,Aa1	NR,NR	AA+,AA+	Economic Development	4.41
7/17/2020	NYS Urban Development Corp	State Personal Inc Tax Rev Bonds Series 2020 D	72.08	Negotiated Bid	Co-Manager	Aa1	NR	AA+	Economic Development	3.20
7/23/2020	Monroe Co Industrial Dev Corp	Revenue Bonds Series 2020 A	362.14	Negotiated Bid	Co-Manager	Aa3,Aa3,Aa3	AA-,AA-,AA-	NR,NR,NR	Higher Education	3.24
7/23/2020	Monroe Co Industrial Dev Corp	Revenue Bonds Series 2020 B	58.02	Negotiated Bid	Co-Manager	Aa3	AA-	NR	Higher Education	3.34
7/27/2020	Santa Clara Co (Los Altos) SD	TRANS 2020 Series	17.00	Negotiated Bid	Sole Manager	NR	NR	NR	Primary & Secondary Education	
7/28/2020	Colorado Springs City-Colorado	Utilities Sys Imp & Ref Rev Bonds Series 2020 A-C	337.14	Negotiated Bid	Co-Manager	Aa2,Aa2,Aa2	AA+,AA+,AA+	NR,NR,NR	Combined Utilities	
7/29/2020	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds 2020 Ser C Sub C-1	74.08	Negotiated Bid	Co-Manager	Aaa,Aaa,Aaa,Aaa	AAA,AAA,AAA,AAA	NR,NR,NR,NR	Single Family Housing	3.87
7/29/2020	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds 2020 Ser C Sub C-2	44.12	Negotiated Bid	Co-Manager	Aaa,Aaa	AAA,AAA	NR,NR	Single Family Housing	2.31
7/29/2020	New Jersey Hsg & Mtg Fin Agency	Single Family Housing Rev Bonds 2020 Series E	266.09	Negotiated Bid	Lead Manager	Aa2	AA	NR	Single Family Housing	
7/29/2020	New Jersey Hsg & Mtg Fin Agency	Single Family Housing Rev Bonds 2020 Series F	46.24	Negotiated Bid	Lead Manager	Aa2	AA	NR	Single Family Housing	
7/29/2020	New Jersey Hsg & Mtg Fin Agency	Single Family Housing Rev Bonds 2020 Series G	55.37	Negotiated Bid	Lead Manager	Aa2	AA	NR	Single Family Housing	
7/29/2020	California Dept of Wtr Resources	Water System Revenue Bonds Series BB	544.21	Negotiated Bid	Co-Manager	Aa1	AAA	NR	Water & Sewer Facilities	
7/29/2020	California Dept of Wtr Resources	Water System Revenue Bonds Series BC	515.15	Negotiated Bid	Co-Manager	Aa1	AAA	NR	Water & Sewer Facilities	
7/30/2020	Dallas & Fort Worth Cities-Texas	Joint Revenue Refunding Bonds Series 2020 C	596.99	Negotiated Bid	Lead Manager	A1,A1,A1	A,A,A	A+,A+,A+	Airports	
7/30/2020	Dallas & Fort Worth Cities-Texas	Joint Revenue Refunding Bonds Series 2020 C	596.99	Negotiated Bid	Lead Manager	A1,A1,A1	A,A,A	A+,A+,A+	Airports	
8/4/2020	Rutgers State University	GO Refunding Bonds 2020 Series S	220.90	Negotiated Bid	Lead Manager	Aa3	A+	NR	Higher Education	
8/4/2020	Ohio	Capital Facs Lease Approp Bonds Series 2020 A	56.30	Negotiated Bid	Lead Manager	Aa2	AA	AA	Parks, Zoos & Beaches	
8/4/2020	Ohio	Capital Facs Lease Approp Bonds Series 2020 D	58.96	Negotiated Bid	Lead Manager	Aa2	AA	AA	Parks, Zoos & Beaches	
8/5/2020	San Francisco City & Co Airport Comm	Revenue Refunding Bonds 2nd Series 2020 C	130.18	Negotiated Bid	Lead Manager	A1	A	A+	Airports	
8/5/2020	San Francisco City & Co Airport Comm	Revenue Refunding Bonds 2nd Series 2020 A	109.52	Negotiated Bid	Lead Manager	A1	A	A+	Airports	
8/5/2020	San Francisco City & Co Airport Comm	Revenue Refunding Bonds 2nd Series 2020 B	51.58	Negotiated Bid	Lead Manager	A1	A	A+	Airports	
8/5/2020	Long Island Power Authority	Electric System Gen Rev Bonds Series 2020 C	22.36	Negotiated Bid	Co-Manager	NR	NR	NR	Public Power	
8/5/2020	Long Island Power Authority	Electric System Gen Rev Bonds Series 2020 C	91.62	Negotiated Bid	Co-Manager	NR	NR	NR	Public Power	
8/5/2020	Long Island Power Authority	Electric System Gen Rev Bonds Series 2020 B	250.00	Negotiated Bid	Co-Manager	A2	A	A	Public Power	
8/5/2020	Long Island Power Authority	Electric System General Rev Bonds Series 2020 A	237.98	Negotiated Bid	Co-Manager	A2	A	A	Public Power	
8/5/2020	Alaska Housing Finance Corp	General Mortgage Rev Bonds 2020 Series A II	135.17	Negotiated Bid	Co-Manager	Aa1,Aa1,Aa1,Aa1	AA+,AA+,AA+,AA+	NR,NR,NR,NR	Single Family Housing	4.70
8/5/2020	Alaska Housing Finance Corp	General Mortgage Rev Bonds 2020 Series B II	74.68	Negotiated Bid	Co-Manager	Aa1,Aa1,Aa1,Aa1	AA+,AA+,AA+,AA+	NR,NR,NR,NR	Single Family Housing	5.09
8/5/2020	Maine State Housing Authority	Mortgage Purchase Bonds 2020 Series F	40.00	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	7.59
8/11/2020	Clark Co Public Utility Dt #1	Generating System Rev Ref Bonds Series 2020	14.05	Negotiated Bid	Sole Manager	Aa3	A+	AA	Combined Utilities	
8/11/2020	Los Angeles Co Metro Trans Auth	Sales Tax Revenue Ref Bonds Series 2020 A	1,100.98	Negotiated Bid	Co-Manager	NR	AA	AA	Mass Transportation	
8/11/2020	Los Angeles Co Metro Trans Auth	Sales Tax Revenue Ref Bonds Series 2020 A	255.12	Negotiated Bid	Co-Manager	NR,NR,NR,NR	AA,AA,AA,AA	AA,AA,AA,AA	Mass Transportation	
8/11/2020	Clark Co Public Utility Dt #1	Electric System Revenue Bonds Series 2020	40.60	Negotiated Bid	Sole Manager	Aa3	A+	AA	Public Power	

10/7/2020	NYS Housing Fin-Mortgage Agcy	Affordable Hsg Rev Ref Bonds 2020 Series I	100.00	Negotiated Bid	Sole Manager;Remarketing Agent	Aa2	NR	NR	Single Family Housing	
10/8/2020	Monroe Co Industrial Dev Corp	Revenue Bonds Series 2020	32.24	Negotiated Bid	Sole Manager	A2	A	NR	General Acute Care Hospital	
10/8/2020	New York City-New York	General Obligation Bonds 2021 Series C	900.00	Negotiated Bid	Co-Manager	Aa2	AA	AA	General Purpose/ Public Imp	
10/8/2020	Wyoming Community Dev Authority	Housing Revenue Bonds 2020 Series 2	110.69	Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing	
10/8/2020	Wyoming Community Dev Authority	Housing Revenue Bonds 2020 Series 3	14.69	Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing	
10/14/2020	University Of Minnesota Regents	General Obligation Bonds Series 2020 A	31.31	Competitive Bid	Sole Manager	Aa1;Aa1;Aa1	AA;AA;AA;AA	NR;NR;NR;NR	Higher Education	
10/14/2020	Riverside Co (Palm Springs) USD	GO Refunding Bonds 2020 Series	29.90	Negotiated Bid	Sole Manager	Aa3	NR	NR	Primary & Secondary Education	
10/15/2020	Denver City and Co-Colorado	Airport System Rev Bonds Series 2020 B2	24.06	Negotiated Bid	Lead Manager;Remarketing Agent	A1	A+	AA-	Airports	0.14
10/15/2020	Denver City and Co-Colorado	Airport System Rev Bonds Series 2020 A1 & A2	155.85	Negotiated Bid	Lead Manager	A1;A1	A+;A+	AA-;AA-	Airports	0.89
10/15/2020	Denver City and Co-Colorado	Airport System Rev Bonds Series 2020 B1	37.47	Negotiated Bid	Lead Manager	A1	A+	AA-	Airports	0.21
10/15/2020	Denver City and Co-Colorado	Airport System Rev Bonds Series 2020 C	411.54	Negotiated Bid	Lead Manager	A1;A1	A+;A+	AA-;AA-	Airports	2.36
10/15/2020	Michigan St Hsg Dev Au (MSHDA)	Rental Housing Revenue Bonds 2020 Series B	23.08	Negotiated Bid	Co-Manager	NR	AA	NR	Multi Family Housing	1.09
10/15/2020	Atlanta City-Georgia	Water & Wastewater Rev Ref Bonds Series 2020	504.59	Negotiated Bid	Lead Manager	Aa2	AA-	NR	Water & Sewer Facilities	
10/16/2020	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds 2020 Ser D Sub D-3	59.38	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Multi Family Housing	
10/16/2020	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds 2020 Ser D Sub D-1	40.39	Negotiated Bid	Co-Manager	Aaa;Aaa;Aaa;Aaa;Aaa;Aa	NR;NR;NR;NR;NR;NR	AAA;AAA;AAA;AAA;A	Multi Family Housing	
10/16/2020	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds 2020 Ser D Sub D-2	19.92	Negotiated Bid	Co-Manager	Aaa;Aaa;Aaa;Aaa;Aaa;Aa;Aaa;Aaa;Aaa;Aa;Aaa;Aaa	NR;NR;NR;NR;NR;NR;NR;NR;NR;NR;NR;NR	AAA;AAA;AAA;AAA;AA;AAA;AAA;AAA;AAA	Multi Family Housing	
10/20/2020	Harris Co Cult Ed Facs Fin Corp	Medical Facs Mtg Rev Ref Bonds Series	208.02	Negotiated Bid	Lead Manager	NR	A	NR	General Acute Care Hospital	
10/20/2020	Kern Community College District	General Obligation BANs 2020 Series	53.00	Negotiated Bid	Sole Manager	NR	NR	NR	Higher Education	
10/20/2020	Kern Community College District	General Obligation Bonds Series C	58.50	Negotiated Bid	Sole Manager	Aa2;Aa2;Aa2;Aa2	AA-;AA-;AA-;AA-;AA-	NR;NR;NR;NR;NR	Higher Education	
10/20/2020	Kern Community College District	General Obligation Bonds Series C	5.50	Negotiated Bid	Sole Manager	Aa2	AA-	NR	Higher Education	
10/21/2020	California Health Facs Fin Auth	Revenue Bonds Series 2020	577.06	Negotiated Bid	Co-Manager	Baa1	BBB+	BBB+	General Acute Care Hospital	
10/21/2020	Sonoma-Marín Area Rail Transit Dt	Sales Rax Rev Ref Bonds Series 2020 A	122.97	Negotiated Bid	Lead Manager	NR	AA	NR	Mass Transportation	
10/22/2020	Washington State University	General Revenue & Ref Bonds Sries 2020 A & B	109.73	Negotiated Bid	Lead Manager	Aa3;NR	A+;NR	NR;NR	Higher Education	
10/22/2020	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds 2020 Ser E SubserE-1	76.08	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
10/22/2020	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds 2020 Ser E SubserE-2	56.37	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
10/27/2020	California Health Facs Fin Auth	Senior Revenue Bonds Series 2020	450.00	Negotiated Bid	Co-Manager	Aa3	AA-	AA-	General Acute Care Hospital	
10/27/2020	King Co-Washington	Limited Tax GO Bonds 2020 Series A	53.16	Competitive Bid	Sole Manager	Aaa;Aaa;Aaa;Aaa	AAA;AAA;AAA;AAA	AAA;AAA;AAA;AAA	General Purpose/ Public Imp	
10/27/2020	SC Pub Svc Au (Santee Cooper)	Revenue Refunding & Imp Bonds 2020 Series A	338.48	Negotiated Bid	Lead Manager	A2	A	A-	Public Power	
10/28/2020	California St Public Works Board	Lease Revenue Refunding Bonds 2021 Series A	502.62	Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Purpose/ Public Imp	
10/28/2020	SC Pub Svc Au (Santee Cooper)	Revenue Refunding Obligations 2020 Series B	299.73	Negotiated Bid	Lead Manager	A2	A	A-	Public Power	
10/29/2020	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds Ser D	700.00	Negotiated Bid	Co-Manager	Aa1;Aa1;Aa1	AAA;AAA;AAA	AAA;AAA;AAA	General Purpose/ Public Imp	
10/29/2020	Dallas Area Rapid Transit Auth	Sr Ln Sales Tax Rev Ref Bonds Series 2020 D	140.55	Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2	NR;NR;NR	NR;NR;NR	Mass Transportation	
10/29/2020	Dallas Area Rapid Transit Auth	Sr Ln Sales Tax Rev Ref Bonds Series 2020 D	140.55	Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2	NR;NR;NR	NR;NR;NR	Mass Transportation	
10/29/2020	Georgia Muni Electric Au (MEAG)	General Resolution & Sub Bonds Series	252.81	Negotiated Bid	Lead Manager	A2;A2	A-;A-	BBB+;BBB+	Public Power	
10/29/2020	Maine State Housing Authority	Mortgage Purchase Bonds 2020 Series G	35.65	Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing	
10/29/2020	Maine State Housing Authority	Mortgage Purchase Bonds 2020 Series H	40.00	Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing	
10/29/2020	North Carolina	Limited Obligation Bonds Series 2020 B	700.00	Negotiated Bid	Co-Manager	Aa1	AA+	AA+	Toll Roads, Highways & Streets	
10/30/2020	Michigan St Hsg Dev Au (MSHDA)	Single Family Mortgage Rev Bonds 2020 Series C	151.63	Negotiated Bid	Lead Manager	Aa2	AA+	NR	Single Family Housing	
10/30/2020	Michigan St Hsg Dev Au (MSHDA)	Single Family Mortgage Rev Bonds 2020 Series D	93.06	Negotiated Bid	Lead Manager	Aa2	AA+	NR	Single Family Housing	
11/12/2020	Indiana Finance Authority	Environmental Imp Rev Bonds Series 2020 A	33.30	Negotiated Bid	Co-Manager	Caa	B-	NR	General Purpose/ Public Imp	
11/12/2020	Hoover Industrial Dev Board	Environmental Imp Rev Bonds Series 2020	63.40	Negotiated Bid	Co-Manager	Caa	B-	NR	Industrial Development	
11/18/2020	New Jersey	GO Emergency Bonds 2020 Series A	3,672.36	Negotiated Bid	Co-Manager	A3	BBB+	A-	General Purpose/ Public Imp	
11/18/2020	Georgia Muni Electric Au (MEAG)	Revenue Bonds Series 2020 A	77.39	Negotiated Bid	Lead Manager	A1	A-	BBB+	Public Power	
11/19/2020	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Project Bonds 2020 Series B	35.03	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Multi Family Housing	
11/20/2020	NYC Housing Dev Corp	Housing Impact Bonds 2020 Series C	257.54	Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	
11/20/2020	NYC Housing Dev Corp	Housing Impact Bonds 2020 Series D	31.53	Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	
11/24/2020	New York Transportation Development Corporation	Special Facility Rev Bonds Series 2020 A	274.58	Negotiated Bid	Co-Manager	Baa1	NR	BBB	Airports	
11/24/2020	New York Transportation Development Corporation	Special Facility Rev Bonds Series 2020 B	49.59	Negotiated Bid	Co-Manager	Baa1	NR	BBB	Airports	
11/24/2020	Delaware Economic Dev Auth	Facility Refunding Rev Bonds Series 2020 A & B	247.18	Negotiated Bid	Co-Manager	Baa3;Baa3	BBB-;BBB-	NR;NR	Pollution Control	
12/1/2020	Colorado Reg Transportation Dt	Revenue Bonds Series 2020 A	304.82	Negotiated Bid	Lead Manager	Baa2	NR	A-	Mass Transportation	
12/1/2020	Colorado Reg Transportation Dt	Revenue Bonds Series 2020 B	6.97	Negotiated Bid	Lead Manager	Baa2	NR	A-	Mass Transportation	
12/2/2020	New Jersey Trans Trust Fund Au	Transportation Program Bonds 2020 Series	1,500.00	Negotiated Bid	Co-Manager	Baa1;Baa1;Baa1;Baa1;Baa1;Baa1	BBB;BBB;BBB;BBB;BBB;BBB	BBB+;BBB+;BBB+;BBB+;BBB+;BBB+	Mass Transportation	
12/3/2020	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Housing Rev Bonds 2020 Series E	24.56	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Multi Family Housing	
12/3/2020	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds 2020 Series L&M-1	194.57	Negotiated Bid	Co-Manager	Aa2;Aa2	NR;NR	NR;NR	Single Family Housing	
12/3/2020	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds 2020 Series L&M-2	287.05	Negotiated Bid	Co-Manager	Aa2;Aa2	NR;NR	NR;NR	Single Family Housing	
12/3/2020	NYC Municipal Water Fin Auth	Wtr & Swr Sys 2nd Gen Reso Bonds Series BB-1 & 2	534.43	Negotiated Bid	Co-Manager	Aa1;Aa1;Aa1;Aa1	AA+;AA+;AA+;AA+	AA+;AA+;AA+;AA+	Water & Sewer Facilities	
12/4/2020	Massachusetts Housing Fin Agcy	Housing Bonds 2020 Series D-1	63.21	Negotiated Bid	Lead Manager	Aa2	AA	NR	Single Family Housing	
12/4/2020	Massachusetts Housing Fin Agcy	Housing Bonds 2020 Series D-2	2.98	Negotiated Bid	Lead Manager	Aa2	AA	NR	Single Family Housing	
12/4/2020	Massachusetts Housing Fin Agcy	Housing Bonds 2020 Series E	50.56	Negotiated Bid	Lead Manager	Aa2	AA	NR	Single Family Housing	
12/9/2020	New York Transportation Development Corporation	Special Facility Rev Bonds Series 2020 C	610.84	Negotiated Bid	Co-Manager	Baa1	NR	BBB	Airports	
12/9/2020	Massachusetts Housing Fin Agcy	Single Family Mortgage Rev Bonds Series 219	2.80	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
12/9/2020	Massachusetts Housing Fin Agcy	Single Family Mortgage Rev Bonds Series 220	102.37	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
12/10/2020	Miami-Dade Co-Florida	Sub Special Obligation Ref Bonds Series 2021 A & B	253.26	Negotiated Bid	Co-Manager	NR;NR	A+;A+	A+;A+	General Purpose/ Public Imp	
12/10/2020	Miami-Dade Co-Florida	Sub Special Obligation Ref Bonds Series 2021 A & B	253.26	Negotiated Bid	Co-Manager	NR;NR	A+;A+	A+;A+	General Purpose/ Public Imp	
12/11/2020	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2020 Series I-1	315.35	Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2;Aa2;Aa2;Aa2	AA+;AA+;AA+;AA+;AA+;AA+	NR;NR;NR;NR;NR;NR	Multi Family Housing	
12/11/2020	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2020 Series I-2	137.61	Negotiated Bid	Co-Manager	Aa2;Aa2	AA+	NR	Multi Family Housing	
12/11/2020	Puerto Rico Aqueduct & Sewer Authority	Revenue Refunding Bonds Series 2020 A	1,351.30	Negotiated Bid	Lead Manager	NR;NR;NR;NR	NR;NR;NR;NR	NR;NR;NR;NR	Water & Sewer Facilities	
12/11/2020	Puerto Rico Aqueduct & Sewer Authority	Revenue Refunding Bonds Series 2020 B	18.78	Negotiated Bid	Lead Manager	NR	NR	NR	Water & Sewer Facilities	

12/15/2020	Empire State Development Corp	Revenue Bonds Series 2020 F	159.57	Competitive Bid	Sole Manager	NR;NR	AA+;AA+	AA+;AA+	Economic Development	
12/15/2020	Washington Econ Dev Fin Auth	Environmental Facs Rev Bonds Series 2020 A	47.97	Negotiated Bid	Sole Manager	NR	NR	NR	Recycling	
12/15/2020	Washington Econ Dev Fin Auth	Environmental Facs Rev Bonds Series 2020 B	71.05	Negotiated Bid	Sole Manager	NR	NR	NR	Recycling	
12/16/2020	Connecticut	General Obligation Bonds 2021 Series A-1	40.67	Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	0.20
12/16/2020	Connecticut	General Obligation Bonds 2021 Series A-2	71.15	Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	0.35
12/16/2020	Connecticut	General Obligation Bonds 2021 Series A-3	200.00	Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	0.99
12/16/2020	Connecticut	General Obligation Bonds 2021 Series A-4	185.14	Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	0.91
12/16/2020	Connecticut	General Obligation Bonds 2021 Series A-5	137.44	Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	0.68
12/16/2020	Connecticut	General Obligation Bonds 2021 Series A-6	151.62	Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	0.75
12/16/2020	Connecticut	General Obligation Bonds 2021 Series A-7	14.00	Negotiated Bid	Co-Manager	A1	A	A+	General Purpose/ Public Imp	0.07
12/17/2020	New York City-New York	General Obligation Bonds Series D & E	1,500.00	Negotiated Bid	Co-Manager	Aa2;Aa2	AA;AA	AA-;AA-	General Purpose/ Public Imp	
1/6/2021	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds 2021 Series C-1	28.92	Negotiated Bid	Co-Manager	Aa1	AAA	NR	Single Family Housing	
1/6/2021	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds 2021 Series A	1.48	Negotiated Bid	Co-Manager	Aa1	AAA	NR	Single Family Housing	
1/6/2021	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds 2021 Series B	51.53	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
1/14/2021	Columbus City-Ohio	GO Var Purp & Ltd Tx Ref Bonds Series 2021-1&2 & C&D	85.26	Negotiated Bid	Co-Manager	Aaa;Aaa;Aaa;Aaa	AAA;AAA;AAA;AAA	AAA;AAA;AAA;AAA	General Purpose/ Public Imp	
1/14/2021	Columbus City-Ohio	GO Various Purpose & Ltd Tx Bonds Series 2021 A & B	317.97	Negotiated Bid	Co-Manager	Aaa;Aaa	AAA;AAA	AAA;AAA	General Purpose/ Public Imp	
1/14/2021	Cook Co-Illinois	GO Refunding Bonds Series 2021 A	330.50	Negotiated Bid	Lead Manager	Aa2	A+	A+	General Purpose/ Public Imp	
1/14/2021	Alameda Co (Fremont) USD	GO Refunding Bonds 2021 Series	107.70	Negotiated Bid	Sole Manager	Aa2	AA-	NR	Primary & Secondary Education Public Power	
1/14/2021	Long Island Power Authority	Electric System Gen Rev Notes Series 2021	250.00	Negotiated Bid	Lead Manager	A2	A	A		
1/15/2021	Los Angeles Dept Wtr & Pwr (LADWP)	Water Sys Var Rate Demand Bonds 2021 Series A-1	50.00	Negotiated Bid	Sole Manager	Aa2	NR	AA	Water & Sewer Facilities	
1/15/2021	Los Angeles Dept Wtr & Pwr (LADWP)	Water Sys Var Rate Demand Bonds 2021 Series A-1	50.00	Negotiated Bid	Sole Manager	Aa2	NR	AA	Water & Sewer Facilities	
1/21/2021	Colorado	Education Loan Program TRANS Series 2020 B	390.00	Competitive Bid	Lead Manager	NR;NR;NR	NR;NR;NR	NR;NR;NR	Primary & Secondary Education	
1/26/2021	Nashville-Davidson Co Metro Govt	GO Refunding Bonds Series 2021 A	131.30	Negotiated Bid	Co-Manager	Aa2	AA	NR	General Purpose/ Public Imp	
1/26/2021	Nashville-Davidson Co Metro Govt	GO Refunding Bonds Series 2021 B	497.03	Negotiated Bid	Co-Manager	Aa2	AA	NR	General Purpose/ Public Imp	
1/27/2021	Los Angeles Dept of Airports	Sub Refunding Revenue Bonds 2021 Series C	92.95	Negotiated Bid	Lead Manager	Aa3	A+	AA-	Airports	
1/27/2021	Los Angeles Dept of Airports	Sub Revenue & Refunding Bonds 2021 Series A	405.41	Negotiated Bid	Lead Manager	Aa3	A+	AA-	Airports	
1/27/2021	Los Angeles Dept of Airports	Sub Revenue & Refunding Bonds 2021 Series B	395.01	Negotiated Bid	Lead Manager	Aa3	A+	AA-	Airports	
1/27/2021	Nashville-Davidson Co Metro Govt	Electric System Revenue Bonds 2021 Series A	147.51	Negotiated Bid	Co-Manager	NR	AA	AA+	Public Power	
1/27/2021	Foothill/Eastern Transp Corridor Agcy	Sr & Jr Ln Toll Road Ref Rev Bond Series 2021 A & C	572.19	Negotiated Bid	Co-Manager	Baa2;Baa2;Baa2;Baa2	A-;BBB+;A-;BBB+;BBB+	BBB;BBB-;BBB-;BBB-;BBB-;BBB-;BBB-;BBB-	Toll Roads, Highways & Streets	
1/27/2021	Foothill/Eastern Transp Corridor Agcy	Sr & Jr Ln Toll Road Ref Rev Bond Series 2021 B & D	187.59	Negotiated Bid	Co-Manager	Baa2;Baa2	A-;BBB+	BBB;BBB-	Toll Roads, Highways & Streets	
2/3/2021	Oneida Co Local Dev Corp	Revenue Bonds Series 2021	29.36	Negotiated Bid	Sole Manager	Aa2	NR	NR	Higher Education	
2/4/2021	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds 2021 Ser E Sub E-1	900.00	Negotiated Bid	Co-Manager	Aa1;Aa1;Aa1;Aa1	AAA;AAA;AAA;AAA	AAA;AAA;AAA;AAA	General Purpose/ Public Imp	4.56
2/10/2021	Wisconsin	Gen Fund Annual Appr Ref Bonds Series A of 2021	118.75	Negotiated Bid	Lead Manager	Aa2	NR	AA	General Purpose/ Public Imp	
2/10/2021	Lower Colorado River Authority (LCRA)	Transmission Contrt Ref Rev Bond Series 2021	397.19	Negotiated Bid	Co-Manager	NR	A	A+	Public Power	
2/11/2021	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds 2021 Ser A SubserA-4	70.37	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
2/16/2021	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds 2021SerA SubserA-1&3	175.52	Negotiated Bid	Co-Manager	Aaa;Aaa	AAA;AAA	NR;NR	Single Family Housing	
2/16/2021	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds 2021Ser A Subser A-2	17.53	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
2/18/2021	Maine State Housing Authority	Mortgage Purchase Bonds 2021 Series A	50.00	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Multi Family Housing	6.68
2/19/2021	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds Series 2021-134 A	122.13	Negotiated Bid	Co-Manager	Aa2	AA+	NR	Single Family Housing	
2/19/2021	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds Series 2021-134 B	35.80	Negotiated Bid	Co-Manager	Aa2	AA+	NR	Single Family Housing	
2/23/2021	Regents of the University of California	General Revenue Bonds 2021 Series BH	290.23	Negotiated Bid	Co-Manager	Aa2;Aa2;Aa2	AA;AA;AA	AA;AA;AA	Higher Education	
2/23/2021	Regents of the University of California	General Revenue Bonds 2021 Series BI & BJ	1,089.33	Negotiated Bid	Co-Manager	Aa2;Aa2	AA;AA	AA;AA	Higher Education	
2/24/2021	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2021 Series B	212.00	Negotiated Bid	Co-Manager	Aa2	AA+	NR	Multi Family Housing	
2/24/2021	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2021 Series A-1	94.94	Negotiated Bid	Lead Manager	Aa2	AA+	NR	Multi Family Housing	
2/24/2021	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2021 Series A-2	9.19	Negotiated Bid	Lead Manager	Aa2	AA+	NR	Multi Family Housing	
2/24/2021	NYC Municipal Water Fin Auth	Wtr & Swr 2nd Gen Reso Rev Bonds SeriesC Subser CC-1&3	403.26	Negotiated Bid	Lead Manager	Aa1;Aa1;Aa1;Aa1;Aa1	AA+;AA+;AA+;AA+;AA+	AA+;AA+;AA+;AA+;AA+	Water & Sewer Facilities	
2/24/2021	NYC Municipal Water Fin Auth	Wtr & Swr 2nd Gen Reso Rev Bonds SeriesC Subser CC-2	75.00	Negotiated Bid	Lead Manager	Aa1	AA+	AA+	Water & Sewer Facilities	
2/24/2021	NYC Municipal Water Fin Auth	Wtr & Swr 2nd Gen Reso Rev Bonds SeriesC Subser CC-2	75.00	Negotiated Bid	Lead Manager	Aa1	AA+	AA+	Water & Sewer Facilities	
2/25/2021	Contra Costa Co Public Fin Auth	Lease Revenue Bonds 2021 Series A & B	97.42	Negotiated Bid	Sole Manager	Aa2;Aa2	AA+;AA+	NR;NR	General Purpose/ Public Imp	
2/25/2021	Massachusetts Dev Finance Agcy	Revenue Refunding Bonds Series T (2021)	20.56	Negotiated Bid	Lead Manager	Aa1	AA+	NR	Higher Education	
2/25/2021	Regents of the University of California	Revenue Bonds 2021 Series R	392.95	Negotiated Bid	Co-Manager	Aa3	AA-	AA-	Higher Education	
2/25/2021	Regents of the University of California	Revenue Bonds 2021 Series Q	739.05	Negotiated Bid	Co-Manager	Aa3	AA-	AA-	Higher Education	
3/2/2021	Regents of the University of California	Limited Project Revenue Bonds 2022 Series S	411.71	Negotiated Bid	Co-Manager	Aa3	AA-	AA-	Higher Education	
3/3/2021	New York City-New York	General Obligation Bonds Ser F Subser F-2	107.66	Competitive Bid	Sole Manager	Aa2	AA	AA-	General Purpose/ Public Imp	
3/3/2021	Texas Public Finance Auth (TPFA)	Lease Revenue Bonds Series 2021	325.70	Negotiated Bid	Lead Manager	Aa1	AA+	NR	Government Buildings	
3/4/2021	New York City-New York	General Obligation Bonds Series F Subser F-1	900.00	Negotiated Bid	Co-Manager	Aa2	AA	AA-	General Purpose/ Public Imp	
3/4/2021	New York City-New York	General Obligation Bonds 2021 Series 1	361.39	Negotiated Bid	Co-Manager	Aa2;Aa2	AA;AA	AA-;AA-	General Purpose/ Public Imp	4.51
3/4/2021	Indiana Finance Authority	Environmental Improvement Bonds Series 2021 A	88.81	Negotiated Bid	Co-Manager	Caa	B-	NR	Pollution Control	
3/8/2021	New York City-New York	General Obligation Bonds 2021 Series 2 and 3	259.35	Negotiated Bid	Lead Manager;Remarketing Agent	NR	NR	NR	General Purpose/ Public Imp	
3/9/2021	Massachusetts Dev Finance Agcy	Revenue Bonds Series I (2021)	13.42	Negotiated Bid	Sole Manager	Baa1	NR	NR	Higher Education	
3/9/2021	Massachusetts Dev Finance Agcy	Revenue Bonds Series J (2021)	21.32	Negotiated Bid	Sole Manager	Baa1	NR	NR	Higher Education	
3/11/2021	California	GO Various Purpose & Ref Bonds	1,717.06	Negotiated Bid	Co-Manager	Aa2;Aa2	AA-;AA-	AA;AA	General Purpose/ Public Imp	
3/11/2021	California	GO Various Purpose Bonds	125.00	Negotiated Bid	Co-Manager	Aa2	AA-	AA	General Purpose/ Public Imp	
3/11/2021	NYC Municipal Water Fin Auth	Municipal Wtr Finance Auth Fiscal 2021 Ser DD	574.80	Negotiated Bid	Co-Manager	Aa1	AA+	AA+	Water & Sewer Facilities	
3/16/2021	Alaska Housing Finance Corp	State Capital Project Bonds 2021 Series A II	90.42	Negotiated Bid	Co-Manager	Aa2	AA+	NR	Single Family Housing	
3/17/2021	Orlando Utilities Commission (OUC)	Utility Sytem Revenue Bonds Series 2021 A	143.25	Negotiated Bid	Co-Manager	Aa2	AA	AA	Combined Utilities	
3/17/2021	Orlando Utilities Commission (OUC)	Utility Sytem Revenue Bonds Series 2021 B	150.86	Negotiated Bid	Co-Manager	Aa2	AA	AA	Combined Utilities	
3/18/2021	Massachusetts Dev Finance Agcy	Revenue Bonds Series I 2021	13.42	Private Bid	Sole Manager	NR	NR	NR	Higher Education	

3/19/2021	NYS Dorm Authority	State Personal Inc Tax Rev Bonds Series 2021 A	1,871.42	Negotiated Bid	Co-Manager	NR;NR;NR;NR	AA+;AA+;AA+;AA+	AA+;AA+;AA+;AA+	General Purpose/ Public Imp	
3/19/2021	NYS Dorm Authority	St Personal Income Tax Rev Bonds Series 2021 B	291.64	Negotiated Bid	Co-Manager	NR	AA+	AA+	General Purpose/ Public Imp	
3/19/2021	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds Series 231	96.78	Negotiated Bid	Co-Manager	Aa1	NR	NR	Single Family Housing	
3/19/2021	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds Series 232	34.02	Negotiated Bid	Co-Manager	Aa1	NR	NR	Single Family Housing	
3/23/2021	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Proj Class I Bonds 2021 Series A	20.90	Negotiated Bid	Lead Manager	Aaa	AAA	NR	Multi Family Housing	
3/23/2021	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Proj Class I Bonds 2021 Series B	8.23	Negotiated Bid	Lead Manager	Aaa	AAA	NR	Multi Family Housing	
3/24/2021	San Jose City-California	Airport Revenue Ref Bonds Series 2021 C	294.02	Negotiated Bid	Co-Manager	A2;A2	A-;A-	A;A	Airports	
3/24/2021	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds Ser F G Sub F-1 G-1	1,001.07	Negotiated Bid	Co-Manager	Aa1;Aa1	AAA;AAA	AAA;AAA	General Purpose/ Public Imp	
3/25/2021	Triborough Bridge & Tunnel Auth	General Revenue Bonds Series 2021 A	280.00	Negotiated Bid	Co-Manager	Aa3;Aa3;Aa3	AA-;AA-;AA-	AA-;AA-;AA-	Bridges	3.30
3/25/2021	Triborough Bridge & Tunnel Auth	General Revenue Bonds Series 2021 A	120.00	Negotiated Bid	Co-Manager	Aa3;Aa3;Aa3	AA-;AA-;AA-	AA-;AA-;AA-	Bridges	1.42
3/25/2021	Allegheny Co Hospital Dev Auth	Revenue Bonds Series 2021 B	47.43	Negotiated Bid	Co-Manager	A2	A	A	General Acute Care Hospital	
3/25/2021	Pennsylvania Econ Dev Fin Auth	Revenue Bonds Series 2021 A	221.86	Negotiated Bid	Co-Manager	A2	A	A	General Acute Care Hospital	
3/25/2021	Rhode Island Hsg & Mtg Fin Corp	Homeownership Opp Bonds Series 74	135.06	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
3/25/2021	Knowlville City-Tennessee	Wastewater System Rev Ref Bonds Series 2021 A	190.82	Competitive Bid	Sole Manager	Aa2	AA+	NR	Water & Sewer Facilities	
3/31/2021	San Antonio City-Texas	Electric & Gas Sys Jr Ln Ref Bond Series 2021 A	330.70	Negotiated Bid	Lead Manager	Aa2	A+	AA-	Combined Utilities	
3/31/2021	University of Pittsburgh	Pitt Asset Notes Series of 2021	181.27	Negotiated Bid	Lead Manager	Aa1	AA+	NR	Higher Education	
3/31/2021	Wyoming Community Dev Authority	Housing Revenue Bonds 2021 Series 1	53.73	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
4/1/2021	Massachusetts Dev Finance Agcy	Var Rate Demand Revenue Bonds Series I 2021	17.00	Private Bid	Sole Manager;Remarketing Agent	NR	NR	NR	Higher Education	
4/1/2021	Texas Dept of Hsg & Comm Affairs	Residential Mtg Rev Ref Bonds Series 2021 B	61.37	Negotiated Bid	Co-Manager	Aaa	AA+	NR	Single Family Housing	
4/1/2021	Texas Dept of Hsg & Comm Affairs	Residential Mortgage Rev Bonds Series 2021 A	100.00	Negotiated Bid	Co-Manager	Aaa	AA+	NR	Single Family Housing	
4/7/2021	San Francisco City & Co Airport Comm	Revenue Refunding Bonds 2nd Series 2021 C	222.81	Negotiated Bid	Co-Manager	A1	A	A+	Airports	
4/7/2021	San Francisco City & Co Airport Comm	Revenue Refunding Bonds 2nd Series 2021 A	195.23	Negotiated Bid	Co-Manager	A1	A	A+	Airports	
4/7/2021	San Francisco City & Co Airport Comm	Revenue Refunding Bonds 2nd Series 2021 B	129.07	Negotiated Bid	Co-Manager	A1	A	A+	Airports	
4/7/2021	Univ of Texas Sys Bd of Regents	Revenue Financing System Bonds Series 2021 A	381.87	Negotiated Bid	Lead Manager	Aaa	AAA	AAA	Higher Education	
4/7/2021	Central Florida Expressway Au	Sr Lien Refunding Rev Bonds Series 2021 A	548.18	Negotiated Bid	Co-Manager	NR	NR	NR	Toll Roads, Highways & Streets	
4/8/2021	Massachusetts Bay Transport Auth	Subordinated Sales Tax Bonds 2021 Series B	50.20	Negotiated Bid	Co-Manager	Aa3	AA	NR	Mass Transportation	
4/8/2021	Massachusetts Bay Transport Auth	Subordinated Sales Tax Bonds 2021 Series A-1	544.77	Negotiated Bid	Co-Manager	Aa3	AA	NR	Mass Transportation	
4/8/2021	Massachusetts Bay Transport Auth	Subordinated Sales Tax Bonds 2021 Series A-2	56.27	Negotiated Bid	Co-Manager	Aa3	AA	NR	Mass Transportation	
4/8/2021	Delaware Municipal Electric Corp	Electric Revenue Ref Bonds Series 2021	35.94	Negotiated Bid	Sole Manager	A1	A	NR	Public Power	
4/13/2021	Pennsylvania Econ Dev Fin Auth	Revenue Bonds Series of 2021	827.58	Negotiated Bid	Lead Manager	Aa3	NR	A+	Higher Education	
4/14/2021	Maine State Housing Authority	Mortgage Purchase Bonds 2021 Series B	40.00	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
4/15/2021	Idaho Housing & Fin Assoc	Grant & RANs 2021 Series A	172.86	Negotiated Bid	Co-Manager	A2	NR	A+	Toll Roads, Highways & Streets	
4/20/2021	California	Var Purp GO Refunding Bonds	1,076.21	Negotiated Bid	Co-Manager	Aa2;Aa2	AA-;AA-	AA;AA	General Purpose/ Public Imp	
4/20/2021	Triborough Bridge & Tunnel Auth	Payroll Mobility Tx Sr Lien Bonds Subseries 2021 A-1	443.48	Negotiated Bid	Co-Manager	NR;NR	AA+;AA+	AA+;AA+	Mass Transportation	1.54
4/20/2021	Triborough Bridge & Tunnel Auth	Payroll Mobility Tx Sr Lien Bonds Subseries 2021 A-2	249.36	Negotiated Bid	Co-Manager	NR;NR;NR	AA+;AA+;AA+	AA+;AA+;AA+	Mass Transportation	0.87
4/20/2021	Triborough Bridge & Tunnel Auth	Payroll Mobility Tx Sr Lien Bonds Subseries 2021 A-3	173.92	Negotiated Bid	Co-Manager	NR	AA+	AA+	Mass Transportation	0.60
4/20/2021	Triborough Bridge & Tunnel Auth	Payroll Mobility Tx Sr Lien Bonds Subseries 2021 A-3	74.54	Negotiated Bid	Co-Manager	NR	AA+	AA+	Mass Transportation	0.26
4/20/2021	Triborough Bridge & Tunnel Auth	Payroll Mobility Tx Sr Lien Bonds Subseries 2021 A-2	106.87	Negotiated Bid	Co-Manager	NR;NR;NR	AA+;AA+;AA+	AA+;AA+;AA+	Mass Transportation	0.37
4/20/2021	Triborough Bridge & Tunnel Auth	Payroll Mobility Tx Sr Lien Bonds Subseries 2021 A-1	190.06	Negotiated Bid	Co-Manager	NR;NR	AA+;AA+	AA+;AA+	Mass Transportation	0.66
4/20/2021	American Municipal Power Inc	Revenue Bonds Series 2021 A-1	7.06	Negotiated Bid	Co-Manager	A1	A	NR	Public Power	
4/20/2021	American Municipal Power Inc	Revenue Bonds Series 2021 A-2	91.19	Negotiated Bid	Co-Manager	A1	A	NR	Public Power	
4/21/2021	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds 2021 Series D	3.79	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
4/21/2021	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds 2021 Series E	27.21	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
4/21/2021	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds 2021 Series F	54.00	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
4/21/2021	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds 2021 Ser B Subser B4	47.46	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
4/21/2021	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds 2021 Ser B Sub B1-3	132.83	Negotiated Bid	Co-Manager	Aaa;Aaa;Aaa	AAA;AAA;AAA	NR;NR;NR	Single Family Housing	
4/21/2021	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds 2021 Ser B Sub B1-5	17.29	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
4/22/2021	Illinois Finance Authority	Revenue Bonds Series 2021 A	456.31	Negotiated Bid	Lead Manager	NR;NR;NR	AA-;AA-;AA-	AA-;AA-;AA-	General Acute Care Hospital	4.07
4/22/2021	Illinois Finance Authority	Revenue Bonds Series 2021 B	37.03	Negotiated Bid	Lead Manager;Remarketing Agent	NR	AA-	AA-	General Acute Care Hospital	4.07
4/22/2021	Los Angeles USD	GO Unltd Ad Val Prop Tx Ref Bonds 2021 Series A	196.31	Competitive Bid	Sole Manager	Aa3	NR	AA+	Primary & Secondary Education	
4/23/2021	Connecticut	Special Tax Oblig & Ref Bonds 2021 Series A & B	886.70	Negotiated Bid	Co-Manager	Aa3;Aa3	A+;A+	A+;A+	Mass Transportation	4.17
4/23/2021	Connecticut	Special Tax Oblig Ref Bonds 2021 Series C	144.19	Negotiated Bid	Co-Manager	Aa3	A+	A+	Mass Transportation	4.37
4/28/2021	Washington Convention & Sports Au	Sr Ln Dedicated Tx Rev Ref Bonds Series 2021 A	53.50	Negotiated Bid	Co-Manager	A3	A+	AA	Civic & Convention Centers	
5/5/2021	Miami University	General Receipts Rev & Ref Bonds Series 2021 A	75.93	Negotiated Bid	Lead Manager	Aa3	NR	NR	Primary & Secondary Education	
5/7/2021	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds Series 2021	71.23	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
5/11/2021	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Project Bonds 2021 Series C-1	9.10	Negotiated Bid	Lead Manager	Aaa	AAA	NR	Multi Family Housing	
5/11/2021	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Project Bonds 2021 Series C-2	5.10	Negotiated Bid	Lead Manager	Aaa	AAA	NR	Multi Family Housing	
5/11/2021	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Project Bonds 2021 Series D	1.90	Negotiated Bid	Lead Manager	Aaa	AAA	NR	Multi Family Housing	
5/13/2021	NYS Dorm Authority	Sch Dt Rev Bond Fin Prog Bonds Series 2021 A-C	335.23	Negotiated Bid	Co-Manager	A1;NR;Aa3;NR	NR;NR;NR;NR	AA-;AA-;AA-;AA-	Primary & Secondary Education	
5/14/2021	Washington Convention & Sports Au	Senior Lien Dedicated Tax Bonds Series 2021 B	70.36	Negotiated Bid	Co-Manager	Aa3	A+	NR	Civic & Convention Centers	
5/14/2021	Washington Convention & Sports Au	Senior Lien Dlicated Tax Bonds Series 2021 C	29.36	Negotiated Bid	Co-Manager	Aa3	A+	NR	Civic & Convention Centers	
5/18/2021	Illinois Finance Authority	Revenue Bonds Series 2021 C	50.00	Negotiated Bid	Sole Manager;Remarketing Agent;Credit Enhancer	NR	AA+	AA+	General Acute Care Hospital	
5/18/2021	Government of Guam	Business Privilege Tx Ref Bonds Series 2021 E	19.07	Negotiated Bid	Co-Manager	Ba1	NR	NR	General Purpose/ Public Imp	
5/18/2021	California Municipal Fin Auth	Student Housing Revenue Bonds Series 2021	277.43	Negotiated Bid	Co-Manager	Baa3	NR	NR	Primary & Secondary Education	
5/19/2021	West Virginia University Bd of Gov	Improvement Revenue Bonds 2021 Series A	25.67	Negotiated Bid	Lead Manager	Aa3	NR	AA-	Higher Education	
5/19/2021	West Virginia University Bd of Gov	Improvement Revenue Bonds 2021 Series B	45.01	Negotiated Bid	Lead Manager	Aa3	NR	AA-	Higher Education	
5/20/2021	Connecticut	GO Refunding Bonds 2021 Series D	221.26	Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Purpose/ Public Imp	2.83
5/20/2021	Connecticut	General Obligation Bonds 2021 Series A-1	205.27	Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Purpose/ Public Imp	0.21

5/20/2021	Connecticut	General Obligation Bonds 2021 Series B-1	15.00	Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Purpose/ Public Imp	0.20
5/20/2021	Connecticut	GO Refunding Bonds 2021 Series C-1	5.60	Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Purpose/ Public Imp	0.04
5/20/2021	Connecticut	General Obligation Bonds 2021 Series A-2	36.95	Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Purpose/ Public Imp	0.04
5/20/2021	Connecticut	General Obligation Bonds 2021 Series A-3	24.03	Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Purpose/ Public Imp	0.02
5/20/2021	Connecticut	General Obligation Bonds 2021 Series A-4	33.76	Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Purpose/ Public Imp	0.03
5/20/2021	Connecticut	General Obligation Bonds 2021 Series B-2	285.00	Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Purpose/ Public Imp	3.71
5/20/2021	Connecticut	GO Refunding Bonds 2021 Series C-2	72.30	Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Purpose/ Public Imp	0.58
5/20/2021	Connecticut	GO Refunding Bonds 2021 Series C-3	2.10	Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Purpose/ Public Imp	0.02
5/20/2021	Connecticut	GO Refunding Bonds 2021 Series C-4	51.22	Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Purpose/ Public Imp	0.41
5/20/2021	Connecticut	GO Refunding Bonds 2021 Series C-5	38.05	Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Purpose/ Public Imp	0.31
5/20/2021	Hempstead Local Development Corp	Revenue Bonds Series 2021 A	90.93	Negotiated Bid	Sole Manager	A2	A	NR	Higher Education	
5/20/2021	Hempstead Local Development Corp	Revenue Bonds Series 2021 B	12.32	Negotiated Bid	Sole Manager	A2	A	NR	Higher Education	
5/20/2021	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds Series 2021-135A	136.68	Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing	
5/20/2021	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds Series 2021-135B	38.90	Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing	
5/26/2021	Univ of Nebraska Facs Corp	University Facilities Prog Bonds Series 2021 A	266.47	Negotiated Bid	Co-Manager	Aa1	AA	NR	Higher Education	
5/26/2021	Univ of Nebraska Facs Corp	University Facilities Prog Bonds Series 2021 B	89.41	Negotiated Bid	Co-Manager	Aa1	AA	NR	Higher Education	
5/27/2021	Garland City-Texas	GO Commercial Paper Notes Series 2021	50.00	Negotiated Bid	Sole Manager	NR	NR	NR	General Purpose/ Public Imp	
5/27/2021	Santa Clara Co (Los Altos) SD	General Obligation BANs 2021 Series	79.00	Negotiated Bid	Co-Manager	NR	NR	NR	Primary & Secondary Education	
6/2/2021	Spokane Public Facilities Dt	Sales & Lodging Tax Ref Bonds Series 2021 A & B	121.34	Negotiated Bid	Sole Manager	Aa1/Aa1	AAA/AAA	NR/NR	General Purpose/ Public Imp	
6/3/2021	Orlando Utilities Commission (OUC)	Utility System Revenue Ref Bonds Series 2021 C	19.69	Negotiated Bid	Lead Manager	Aa2	AA	AA	Combined Utilities	
6/4/2021	Michigan St Hsg Dev Au (MSHDA)	Rental Housing Revenue Bonds 2021 Series A	247.67	Negotiated Bid	Co-Manager	NR	AA	NR	Single Family Housing	
6/4/2021	Michigan St Hsg Dev Au (MSHDA)	Rental Housing Revenue Bonds 2021 Series B	73.42	Negotiated Bid	Co-Manager	NR	AA	NR	Single Family Housing	
6/9/2021	Houston City-Texas	Airport Sys Sub Ln Rev Ref Bonds Series 2021 A	286.01	Negotiated Bid	Co-Manager	A1	NR	NR	Airports	
6/9/2021	Louisiana Public Facs Auth (LPFA)	Revenue & Refunding Rev Bonds Series 2021	81.93	Negotiated Bid	Sole Manager	Baa1	BBB	NR	Higher Education	
6/9/2021	Washington State University	General Revenue Bonds Series 2021	37.82	Negotiated Bid	Sole Manager	Aa3	A+	NR	Higher Education	
6/9/2021	NYC Educational Constr Fund	Revenue Bonds 2021 Series B	118.41	Private Bid	Sole Manager	NR/NR/NR	NR/NR/NR	NR/NR/NR	Primary & Secondary Education	
6/9/2021	Piedmont Municipal Power Agency	Electric Revenue Ref Bonds Series 2021 A	55.37	Negotiated Bid	Co-Manager	A3	A-	A-	Public Power	
6/9/2021	Snohomish Co Pub Utility Dt #1	Electric System Revenue Bonds Series 2021 A	78.69	Negotiated Bid	Co-Manager	Aa2	NR	AA-	Public Power	
6/9/2021	Illinois Housing Dev Authority	Revenue Bonds 2021 Series C	19.28	Negotiated Bid	Co-Manager	Aaa	NR	NR	Single Family Housing	
6/9/2021	Illinois Housing Dev Authority	Revenue Bonds 2021 Series B	125.00	Negotiated Bid	Co-Manager	Aaa	NR	NR	Single Family Housing	
6/9/2021	Massachusetts Housing Fin Agcy	Housing Bonds 2021 Series A-1	50.66	Negotiated Bid	Co-Manager	Aa2	AA+	NR	Single Family Housing	
6/9/2021	Massachusetts Housing Fin Agcy	Housing Bonds 2021 Series A-2	42.60	Negotiated Bid	Co-Manager	Aa2	AA	NR	Single Family Housing	
6/9/2021	West Basin Municipal Water Dt	Refunding Revenue Bonds Series 2021 A	74.90	Negotiated Bid	Co-Manager	Aa2	AA-	NR	Water & Sewer Facilities	
6/10/2021	Massachusetts	Commonwealth Trans Fund Rev Bonds 2021 Series A	187.29	Negotiated Bid	Co-Manager	Aa1	AA+	AAA	Mass Transportation	
6/10/2021	Massachusetts	Commonwealth Trans Fund Rev Bonds 2021 Series B	162.20	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Mass Transportation	
6/10/2021	Massachusetts	Commonwealth Trans Fund Rev Bonds 2021 Series B	50.52	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Mass Transportation	
6/10/2021	Massachusetts	Commonwealth Trans Fund Rev Bonds 2021 Series A	289.36	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Mass Transportation	
6/10/2021	Los Angeles Dept Wtr & Pwr (LADWP)	Power System Revenue Bonds 2021 Series	438.42	Negotiated Bid	Co-Manager	Aa2	NR	AA-	Public Power	
6/15/2021	Massachusetts Dev Finance Agcy	Revenue Bonds Series V (2021)	101.96	Negotiated Bid	Sole Manager	Aa3	AA-	NR	Higher Education	
6/15/2021	University of South Carolina	Higher Education Revenue Bonds Series 2021 A	169.78	Negotiated Bid	Sole Manager	Aa2	NR	AA	Higher Education	
6/15/2021	University of South Carolina	Higher Education Revenue Bonds Series 2021 B	10.27	Negotiated Bid	Sole Manager	Aa2	NR	AA	Higher Education	
6/16/2021	Grand Traverse Co Hosp Fin Auth	Revenue & Refunding Bonds Series 2021	100.27	Negotiated Bid	Sole Manager	A1	NR	AA	General Acute Care Hospital	
6/16/2021	NYS Dorm Authority	State Personal Income Tax Bonds Series 2021 C	1,825.62	Negotiated Bid	Co-Manager	NR	AA+	AA+	General Purpose/ Public Imp	
6/16/2021	NYS Dorm Authority	State Personal Income Tax Bonds Series 2021 D	32.17	Negotiated Bid	Co-Manager	NR	AA+	AA+	General Purpose/ Public Imp	
6/16/2021	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds Series 2021 F-1	258.31	Negotiated Bid	Co-Manager	Aa2	AA+	NR	Multi Family Housing	
6/16/2021	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds Series 2021 F-2	241.90	Negotiated Bid	Co-Manager	Aa2	AA+	NR	Multi Family Housing	
6/16/2021	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds Series 2021 F-3	100.00	Negotiated Bid	Sole Manager, Remarketing Agent	Aa2	AA+	NR	Multi Family Housing	
6/17/2021	New York Transportation Development Corporation	Special Facility Rev Bonds Series 2021	150.06	Negotiated Bid	Co-Manager	NR	NR	NR	Airports	
6/17/2021	Port of Seattle-Washington	Revenue & Refunding Bonds Series 2021 & C	557.41	Negotiated Bid	Lead Manager	A1/A1/Aa2	A+/A+/AA-	AA-/AA-/AA	Airports	
6/17/2021	Port of Seattle-Washington	Revenue Bonds Series 2021 D	41.40	Negotiated Bid	Lead Manager	A1	A+	AA-	Airports	
6/17/2021	Port of Seattle-Washington	Revenue & Refunding Bonds Series 2021 A & B	195.79	Negotiated Bid	Lead Manager	A1/A1	A+/A+	AA-/AA-	Airports	
6/22/2021	Idaho	TANs Series 2021	305.00	Competitive Bid	Lead Manager	NR	NR	NR	General Purpose/ Public Imp	
6/23/2021	Sacramento MUD (SMUD)	Electric Revenue Refunding Bonds 2021 Series I	106.88	Negotiated Bid	Co-Manager	NR	AA	AA	Public Power	
6/23/2021	Michigan Strategic Fund	Limited Obligation Revenue Bonds Series 2021 A	603.20	Negotiated Bid	Co-Manager	Aa2	NR	AA-	Water & Sewer Facilities	
6/24/2021	Miami-Dade Co-Florida	Sub Wtr & Swr System Rev Bonds Series 2021	236.14	Negotiated Bid	Co-Manager	A1	A+	NR	Water & Sewer Facilities	
6/29/2021	Connecticut Hlth & Ed Facs Auth (CHEFA)	Revenue Bonds Series S	50.15	Negotiated Bid	Sole Manager	A2	A+	NR	Higher Education	
6/29/2021	Seattle City-Washington	Muni Light & Power Imp & Ref Bond 2021 Series A	259.80	Competitive Bid	Sole Manager	Aa2/Aa2/Aa2/Aa2	AA/AA/AA/AA/AA	NR/NR/NR/NR/NR	Public Power	
6/29/2021	Texas Municipal Power Agency	Transmission Sys Rev Ref Bonds Series 2021	192.51	Negotiated Bid	Co-Manager	A1	NR	NR	Public Power	
7/1/2021	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds Series 233	149.77	Negotiated Bid	Lead Manager	Aa1	NR	NR	Single Family Housing	8.93
7/1/2021	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds Series 235	67.09	Negotiated Bid	Lead Manager	Aa1	NR	NR	Single Family Housing	
7/1/2021	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds Series 237	45.87	Negotiated Bid	Lead Manager	Aa1	NR	NR	Single Family Housing	
7/1/2021	NYC Municipal Water Fin Auth	Wtr & Swr Sys 2nd Gen Res Bonds Subseries AA-1	400.00	Negotiated Bid	Co-Manager	Aa1	AA+	AA+	Water & Sewer Facilities	
7/1/2021	NYC Municipal Water Fin Auth	Wtr & Swr Sys 2nd Gen Res Bonds Subseries AA-2	50.00	Negotiated Bid	Co-Manager	Aa1	AA+	AA+	Water & Sewer Facilities	
7/8/2021	Miami-Dade Co-Florida	Cap Asset Acqui Spec Oblig Bonds Series 2021 A	81.33	Competitive Bid	Sole Manager	Aa3/Aa3/Aa3/Aa3/Aa3	AA/AA/AA/AA/AA	NR/NR/NR/NR/NR	General Purpose/ Public Imp	
7/8/2021	California State Univ Trustees	Systemwide Revenue Bonds Series 2021 A	124.24	Negotiated Bid	Co-Manager	Aa2	AA-	NR	Higher Education	0.18
7/8/2021	California State Univ Trustees	Systemwide Revenue Bonds Series 2021 B	1,664.09	Negotiated Bid	Co-Manager	Aa2	AA-	NR	Higher Education	2.42
7/9/2021	Georgia Muni Electric Au (MEAG)	Revenue Bonds Series 2021 A	64.01	Negotiated Bid	Lead Manager	Baa2	BBB+	BBB+	Public Power	4.04
7/9/2021	Georgia Muni Electric Au (MEAG)	Revenue Bonds Series 2021 A	83.00	Negotiated Bid	Lead Manager	NR/NR	A/A	BBB+/BBB+	Public Power	4.00

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7/9/2021	Georgia Muni Electric Au (MEAG)	Revenue Bonds Series 2021 A	150.35	Negotiated Bid	Lead Manager	Baa1,Baa1	A,A	BBB+,BBB+	Public Power	4.00
7/13/2021	Central Michigan Univ Bd of Trust	General Revenue Bonds Series 2021	29.79	Negotiated Bid	Sole Manager	A1	A+	NR	Higher Education	
7/13/2021	NYS Dorm Authority	Revenue Bonds Series 2021 A	212.70	Negotiated Bid	Co-Manager	Aa2	AA-	NR	Higher Education	2.91
7/13/2021	NYS Dorm Authority	Revenue Bonds Series 2021 B	37.31	Negotiated Bid	Co-Manager	Aa2	AA-	NR	Higher Education	2.02
7/13/2021	Colorado	Education Loan Prog TRANS Series 2021 A	370.00	Competitive Bid	Lead Manager	NR,NR,NR,NR	NR,NR,NR,NR	NR,NR,NR,NR	Primary & Secondary Education	
7/14/2021	Ohio	Hospital Revenue Bonds Series 2021 A	83.81	Negotiated Bid	Lead Manager	Aa2	AA	NR	General Acute Care Hospital	4.45
7/14/2021	Ohio	Hospital Revenue Bonds Series 2021 B	198.28	Negotiated Bid	Lead Manager	Aa2	AA	NR	General Acute Care Hospital	4.45
7/14/2021	Univ of Virginia Rector & Visitors	General Rev Pledge & Ref Bonds Series 2021 B	300.00	Negotiated Bid	Lead Manager	Aaa	AAA	AAA	Higher Education	3.28
7/15/2021	Maine State Housing Authority	Mortgage Purchase Bonds 2021 Series C	40.00	Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing	
7/15/2021	Central Florida Expressway Au	Senior Lien Revenue Bonds Series 2021 D	198.44	Negotiated Bid	Co-Manager	A1,A1	A+,A+	NR,NR	Toll Roads, Highways & Streets	
7/20/2021	Gainesville City-Florida	Utilities Systems Revenue Bonds 2021 Series A-1	39.48	Negotiated Bid	Lead Manager	Aa3	A	A+	Combined Utilities	1.29
7/20/2021	Gainesville City-Florida	Utilities Systems Revenue Bonds 2021 Series A-2	56.29	Negotiated Bid	Lead Manager	Aa3	A	A+	Combined Utilities	1.84
7/21/2021	Travis Co (Austin) ISD	School Building & Refunding Bonds Series 2021	280.75	Negotiated Bid	Co-Manager	Aaa	NR	NR	Primary & Secondary Education	4.32
7/21/2021	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds 2021 Series G	2.77	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
7/21/2021	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds 2021 Series H	36.23	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
7/21/2021	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds 2021 Series J	65.00	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
7/22/2021	Clark Co Public Utility Dt #1	Water System Rev & Ref Bonds Series 2021	14.32	Negotiated Bid	Sole Manager	Aa2	AA-	NR	Water & Sewer Facilities	
7/26/2021	New Hampshire National Fin Auth	Revenue Bonds Series 2021 A	35.89	Negotiated Bid	Lead Manager	Aa2	NR	NR	Primary & Secondary Education	
7/26/2021	New Hampshire National Fin Auth	Revenue Bonds Series 2021 B	20.00	Negotiated Bid	Lead Manager	Aa2	NR	NR	Primary & Secondary Education	
7/27/2021	AB Won Pat Intl Airport Auth	General Revenue Bonds 2021 Series A	143.43	Negotiated Bid	Lead Manager	Baa2	NR	NR	Airports	
7/27/2021	Texas Dept of Hsg & Comm Affairs	Single Family Mtg Rev Ref Bonds 2021 Series B	24.83	Negotiated Bid	Lead Manager	Aaa	AA+	NR	Single Family Housing	
7/27/2021	Texas Dept of Hsg & Comm Affairs	Single Family Mortgage Rev Bonds 2021 Series A	150.00	Negotiated Bid	Lead Manager	Aaa	AA+	NR	Single Family Housing	
7/30/2021	Michigan St Hsg Dev Au (MSHDA)	Single Family Mortgage Rev Bonds 2021 Series B	111.03	Negotiated Bid	Lead Manager	Aa2	AA+	NR	Single Family Housing	
7/30/2021	Michigan St Hsg Dev Au (MSHDA)	Single Family Mortgage Rev Bonds 2021 Series A	177.57	Negotiated Bid	Lead Manager	Aa2	AA+	NR	Single Family Housing	
8/3/2021	Illinois Finance Authority	Revenue Refunding Bonds Series 2021 A	213.73	Negotiated Bid	Lead Manager	Aa2,Aa2	AA+,AA+	NR,NR	General Acute Care Hospital	3.52
8/3/2021	Port of Beaumont Indus Dev Auth	Facility Revenue Bonds Series 2021 B	200.00	Negotiated Bid	Co-Manager	NR	NR	NR	Industrial Development	15.59
8/3/2021	Port of Beaumont Navigation Dt	Dock & Wharf Fac Rev Bonds Series 2021 A	225.00	Negotiated Bid	Co-Manager	NR	NR	NR	Seaports/ Marine Terminals	15.59
8/4/2021	Pima Co Industrial Dev Auth	Revenue Bonds Series 2021 B	21.41	Negotiated Bid	Sole Manager	NR	A	NR	General Acute Care Hospital	5.00
8/4/2021	Pima Co Industrial Dev Auth	Revenue Bonds Series 2021	180.92	Negotiated Bid	Sole Manager	NR	A	NR	General Acute Care Hospital	5.00
8/5/2021	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds Fiscal 2022 Ser A-1	932.05	Negotiated Bid	Co-Manager	Aa1	AAA	AAA	General Purpose/ Public Imp	3.76
8/5/2021	Douglas Co-Nebraska	Educational Facs Rev Bonds Series 2021 A	43.16	Negotiated Bid	Sole Manager	A2	NR	NR	Higher Education	
8/5/2021	Kern Co (Lakeside) USD	General Obligation Bonds Series C-2	2.20	Negotiated Bid	Sole Manager	NR	AA-	NR	Primary & Secondary Education	
8/5/2021	San Diego Co (Lakeside) USD	General Obligation Bonds Series C-1	10.90	Negotiated Bid	Sole Manager	NR,NR	AA-,AA-	NR,NR	Primary & Secondary Education	
8/10/2021	Illinois Finance Authority	Daily Period Revenue Ref Bonds Series 2021 B	73.00	Negotiated Bid	Lead Manager	Aa2	AA+	NR	General Acute Care Hospital	1.29
8/10/2021	Illinois Finance Authority	Revenue Refunding Bonds Series 2021 D	63.10	Negotiated Bid	Lead Manager	Aa2	AA+	NR	General Acute Care Hospital	1.29
8/10/2021	Illinois Finance Authority	Revenue Refunding Bonds Series 2021 E	63.10	Negotiated Bid	Lead Manager;Remarketing Agent	Aa2	AA+	NR	General Acute Care Hospital	1.29
8/10/2021	Illinois Finance Authority	Revenue Refunding Bonds Series 2021 C	73.00	Negotiated Bid	Lead Manager;Remarketing Agent;Credit Enhancer	Aa2	AA+	NR	General Acute Care Hospital	1.29
8/11/2021	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2021 Series G	22.70	Negotiated Bid	Co-Manager	Aa2	AA+	NR	Multi Family Housing	
8/11/2021	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2021 Series G	155.50	Negotiated Bid	Co-Manager	Aa2,Aa2,Aa2,Aa2	AA+,AA+,AA+,AA+	NR,NR,NR,NR	Multi Family Housing	
8/12/2021	Triborough Bridge & Tunnel Auth	Payroll Mobility Tax Sr Ln Bonds Subseries 2021 B-2	89.33	Negotiated Bid	Co-Manager	NR	AA+	AA+	Mass Transportation	1.08
8/12/2021	Triborough Bridge & Tunnel Auth	Payroll Mobility Tax Sr Ln Bonds Subseries 2021 B-1	99.72	Negotiated Bid	Co-Manager	NR,NR,NR	AA+,AA+,AA+	AA+,AA+,AA+	Mass Transportation	1.20
8/12/2021	Triborough Bridge & Tunnel Auth	Payroll Mobility Tax Sr Ln Bonds Subseries 2021 B-1	69.39	Negotiated Bid	Co-Manager	NR	AA+	AA+	Mass Transportation	0.84
8/12/2021	Triborough Bridge & Tunnel Auth	Payroll Mobility Tax Sr Ln Bonds Subseries 2021 B-2	38.28	Negotiated Bid	Co-Manager	NR	AA+	AA+	Mass Transportation	0.47
8/12/2021	Triborough Bridge & Tunnel Auth	Payroll Mobility Tax Sr Ln Bonds Subseries 2021 B-1	29.74	Negotiated Bid	Co-Manager	NR	AA+	AA+	Mass Transportation	0.36
8/12/2021	Triborough Bridge & Tunnel Auth	Payroll Mobility Tax Sr Ln Bonds Subseries 2021 B-1	42.74	Negotiated Bid	Co-Manager	NR,NR,NR	AA+,AA+,AA+	AA+,AA+,AA+	Mass Transportation	0.52
8/17/2021	Puerto Rico Aqueduct & Sewer Authority	Revenue Refunding Bonds Series 2021 A & B	934.74	Negotiated Bid	Lead Manager	NR,NR,NR,NR,NR,NR; NR,NR,NR,NR	NR,NR,NR,NR,NR,NR,NR; NR,NR,NR,NR	NR,NR,NR,NR,NR,NR,NR	Water & Sewer Facilities	
8/17/2021	Puerto Rico Aqueduct & Sewer Authority	Revenue Refunding Bonds Series 2021 C	155.09	Negotiated Bid	Lead Manager	NR	NR	NR	Water & Sewer Facilities	5.89
8/17/2021	Puerto Rico Aqueduct & Sewer Authority	Revenue Refunding Bonds Series 2022 A	565.18	Negotiated Bid	Lead Manager	NR,NR,NR,NR,NR	NR,NR,NR,NR,NR	NR,NR,NR,NR,NR	Water & Sewer Facilities	4.35
8/19/2021	Maryland Hlth & Hghr Ed Facs Au	Revenue Bonds Series 2021	104.10	Negotiated Bid	Co-Manager	NR	A	A+	General Acute Care Hospital	
8/19/2021	New York City-New York	General Obligation Bonds Series A-1	950.00	Negotiated Bid	Co-Manager	Aa2,Aa2,Aa2	AA,AA,AA	AA-,AA-,AA-	General Purpose/ Public Imp	4.64
8/19/2021	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds Series 2021-136	294.75	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	5.89
8/24/2021	Wisconsin Public Finance Auth	Senior Special Fac Rev Bonds Series 2021	166.34	Negotiated Bid	Co-Manager	NR	NR	NR	Airports	
8/25/2021	North Carolina	Grant Anticip Rev Vehicle Bonds Series 2021	252.60	Negotiated Bid	Co-Manager	A2	AA	A+	Toll Roads, Highways & Streets	2.57
8/26/2021	SC Pub Svc Au (Santee Cooper)	Revenue Refunding & Imp Bonds Series 2021 A&B	430.29	Negotiated Bid	Lead Manager	A2,A2,A2,A2,A2	A-,A-,A-,A-,A-	A-,A-,A-,A-,A-	Public Power	3.84
9/2/2021	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds Fiscal 2022 Series B	950.00	Negotiated Bid	Co-Manager	Aa1	AAA	AAA	General Purpose/ Public Imp	4.48
9/9/2021	Grand Forks City-North Dakota	Health Care System Rev Bonds Series 2021	400.00	Negotiated Bid	Lead Manager	Baa2,Baa2	NR,NR	BBB-,BBB-	General Acute Care Hospital	4.66
9/9/2021	Massachusetts Housing Fin Agcy	Single Family Hsg Revenue Bonds Series 222	89.90	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	6.79
9/9/2021	North Hudson Sewerage Authority	Gross Rev Sr Ln Lease Certificate Series 2021	54.20	Negotiated Bid	Sole Manager	NR	A+	NR	Water & Sewer Facilities	
9/10/2021	Illinois Housing Dev Authority	Revenue Bonds 2021 Series D	125.00	Negotiated Bid	Co-Manager	Aaa	NR	NR	Single Family Housing	
9/10/2021	Illinois Housing Dev Authority	Revenue Bonds 2021 Series E	19.30	Negotiated Bid	Co-Manager	Aaa	NR	NR	Single Family Housing	
9/14/2021	Washington Health Care Facs Au	Refunding Rev Bonds Series 2021 B	178.23	Negotiated Bid	Lead Manager	Aa3	AA-	AA-	General Acute Care Hospital	
9/14/2021	California	Various Purp GO & Refunding Bonds	2,095.07	Negotiated Bid	Co-Manager	Aa2,Aa2,Aa2	AA-,AA-,AA-	AA-,AA-,AA-	General Purpose/ Public Imp	
9/14/2021	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Fin Program Bonds 2021 Ser D Sub D-1	158.96	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
9/14/2021	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Fin Program Bonds 2021 Ser D Sub D-2	2.43	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
9/14/2021	Colorado Bridge Enterprise A & B	Sr & Proj Infrastructure Bonds Series 2021 A & B	516.63	Negotiated Bid	Sole Manager	NR,NR	A-,A-	NR,NR	Toll Roads, Highways & Streets	
9/15/2021	Houston City-Texas	TRANS Series 2021	75.00	Competitive Bid	Lead Manager	NR,NR	NR,NR	NR,NR	General Purpose/ Public Imp	
9/15/2021	Long Island Power Authority	Electric System Revenue Gen Bonds Series 2021 A	355.76	Negotiated Bid	Co-Manager	A2	A	A	Public Power	
9/15/2021	Long Island Power Authority	Electric System Gen Revenue Bonds Series 2021 C	194.39	Negotiated Bid	Co-Manager	A2	A	A	Public Power	

9/15/2021	Long Island Power Authority	Electric System Revenue Gen Bonds Series 2021 B	175.00	Negotiated Bid	Co-Manager	A2	A	A	Public Power	
9/15/2021	Maine State Housing Authority	Revenue Bonds Series 2021 1	15.02	Negotiated Bid	Co-Manager	Aa3	A+	NR	Single Family Housing	
9/15/2021	Maine State Housing Authority	Revenue Bonds Series 2021 2	38.93	Negotiated Bid	Co-Manager	Aa3	A+	NR	Single Family Housing	
9/15/2021	Wyoming Community Dev Authority	Housing Revenue Bonds 2021 Series 3	79.00	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
9/15/2021	Wyoming Community Dev Authority	Housing Revenue Bonds 2021 Series 4	6.62	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
9/15/2021	NYC Municipal Water Fin Auth	Wtr & Swr Sys 2nd Gen Res Bonds Series BB-1	542.24	Negotiated Bid	Co-Manager	Aa1	AA+	AA+	Water & Sewer Facilities	
9/15/2021	NYC Municipal Water Fin Auth	Wtr & Swr Sys 2nd Gen Res Bonds Series BB-2	88.10	Negotiated Bid	Co-Manager	Aa1	AA+	AA+	Water & Sewer Facilities	
9/21/2021	Ohio State University	General Receipts Bonds Series 2021 A	600.00	Negotiated Bid	Lead Manager	Aa1/Aa1/Aa1	AA/AA/AA	AA-AA-AA	Higher Education	3.79
9/21/2021	Orange Co Transportation Auth	BANs Series 2021	662.82	Negotiated Bid	Lead Manager	NR,NR	NR,NR	NR,NR	Mass Transportation	0.78
9/21/2021	Illinois Housing Dev Authority	Multi-Family Revenue Bonds 2021 Series C	65.07	Negotiated Bid	Co-Manager	Aaa	NR	NR	Multi Family Housing	
9/21/2021	Illinois Housing Dev Authority	Multi-Family Revenue Bonds 2021 Series C	12.94	Negotiated Bid	Co-Manager	Aaa,Aaa	NR,NR	NR,NR	Multi Family Housing	
9/21/2021	Local Public Sch Funding Auth	General Obligation Bonds 2021 Series B	50.00	Negotiated Bid	Sole Manager	NR	A+	NR	Primary & Secondary Education	
9/22/2021	Triborough Bridge & Tunnel Auth	Payroll Mobility Tax & Ref Bonds Series 2021 C-1A&2-3	536.82	Negotiated Bid	Co-Manager	NR,NR,NR,NR,NR,NR,NR	AA+;AA+;AA+;AA+;AA+;AA+;AA+	AA+;AA+;AA+;AA+;AA+;AA+;AA+	Mass Transportation	2.76
9/22/2021	Triborough Bridge & Tunnel Auth	Payroll Mobility Tax Sr Ln Bonds Series 2021 C-1B	52.50	Negotiated Bid	Co-Manager	NR	AA+	AA+	Mass Transportation	0.27
9/22/2021	Triborough Bridge & Tunnel Auth	Payroll Mobility Tax Sr Ref Bonds Series 2021 C-2	8.22	Negotiated Bid	Co-Manager	NR	AA+	AA+	Mass Transportation	0.04
9/22/2021	Triborough Bridge & Tunnel Auth	Lease Mobility Tax Sr Ln Bonds Series 2021 C-2	22.50	Negotiated Bid	Co-Manager	NR	AA+	AA+	Mass Transportation	0.11
9/22/2021	Triborough Bridge & Tunnel Auth	Payroll Mobility Tax Sr Ref Bonds Series 2021 C-2	3.53	Negotiated Bid	Co-Manager	NR	AA+	AA+	Mass Transportation	0.02
9/22/2021	Triborough Bridge & Tunnel Auth	Payroll Mobility Tax & Ref Bonds Series 2021 C-1A&2-3	230.06	Negotiated Bid	Co-Manager	NR,NR,NR,NR,NR,NR,NR	AA+;AA+;AA+;AA+;AA+;AA+;AA+	AA+;AA+;AA+;AA+;AA+;AA+;AA+	Mass Transportation	1.18
9/23/2021	Bryan City-Texas	Electric System Revenue Bonds Series 2021 A	66.80	Negotiated Bid	Lead Manager	NR	A+	AA-	Public Power	
9/23/2021	NYS Thruway Authority	General Revenue Bonds Series O	260.72	Competitive Bid	Sole Manager	A1	A	NR	Toll Roads, Highways & Streets	4.08
9/27/2021	Piedmont Municipal Power Agency	Power Revenue Refunding Bonds Series 2021 B	97.42	Negotiated Bid	Co-Manager	NR	NR	NR	Public Power	
9/27/2021	Piedmont Municipal Power Agency	Electric Refunding Rev Bonds Series 2021	90.52	Negotiated Bid	Co-Manager	A3	A-	A-	Public Power	
9/29/2021	Wisconsin Public Finance Auth	Refunding Revenue Bonds Series 2021	101.71	Negotiated Bid	Co-Manager	Aa3	AA-	AA-	General Acute Care Hospital	
9/30/2021	Oneida Co Local Dev Corp	Revenue Bonds Series 2021 A	69.26	Negotiated Bid	Sole Manager	NR	BB+	NR	General Acute Care Hospital	
9/30/2021	Georgia Muni Electric Au (MEAG)	Subordinated Bonds Series 2021 B	125.20	Negotiated Bid	Lead Manager	A2,A2	A-,A-	BBB+,BBB+	Public Power	
9/30/2021	Georgia Muni Electric Au (MEAG)	Subordinated Bonds Series 2021 A	178.72	Negotiated Bid	Lead Manager	A2,A2	A-,A-	BBB+,BBB+	Public Power	
10/6/2021	California St Public Works Board	Lease Revenue Ref Bonds 2022 Series C	299.09	Negotiated Bid	Lead Manager	Aa3	A+	AA-	General Purpose/ Public Imp	
10/6/2021	Lower Colorado River Authority (LCRA)	Refunding Revenue Bonds Series 2022	253.39	Negotiated Bid	Lead Manager	NR,NR	A,A	AA-,AA-	General Purpose/ Public Imp	
10/7/2021	Philadelphia SD	General Obligation Bonds Series A of 2021	266.98	Negotiated Bid	Co-Manager	A2,A2	NR,NR	A+,A+	Primary & Secondary Education	
10/7/2021	Philadelphia SD	General Obligation Bonds Series B of 2021	49.86	Negotiated Bid	Co-Manager	A2	NR	A+	Primary & Secondary Education	
10/13/2021	Lower Colorado River Authority (LCRA)	Transmission Contract Ref Bonds Series 2021 A	167.26	Negotiated Bid	Co-Manager	NR	A	A+	Public Power	
10/13/2021	Piedmont Municipal Power Agency	Electric Revenue Bonds Series 2021 D & E	122.58	Negotiated Bid	Co-Manager	A3,A3	A-,A-	A-,A-	Public Power	
10/14/2021	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Fin Program Bonds 2021 Ser E Sub E-1	55.61	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Multi Family Housing	
10/14/2021	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Fin Prog Bonds 2021 Ser E Sub E-4	20.95	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Multi Family Housing	
10/14/2021	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Finance Prog Bonds 2021 Ser E Sub E-31	20.00	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Multi Family Housing	
10/14/2021	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Fin Prog Bonds 2021 Ser E Sub E-5	39.96	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Multi Family Housing	
10/14/2021	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Finance Prog Bonds 2021 Ser E Sub E-2	10.00	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Multi Family Housing	
10/14/2021	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2021 Series J	125.00	Negotiated Bid	Co-Manager	Aa2	AA+	NR	Multi Family Housing	
10/14/2021	Contra Costa Co (San Ramon Valley) USD	GO Refunding Bonds Series 2021	256.33	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Primary & Secondary Education	
10/19/2021	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds Series K	1.88	Negotiated Bid	Lead Manager	Aaa	AAA	NR	Single Family Housing	
10/19/2021	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds Series L	53.12	Negotiated Bid	Lead Manager	Aaa	AAA	NR	Single Family Housing	
10/19/2021	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds Series M-1	28.00	Negotiated Bid	Lead Manager	Aaa	AAA	NR	Single Family Housing	
10/19/2021	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds 2021 Series M-2	42.00	Negotiated Bid	Lead Manager	NR	NR	NR	Single Family Housing	
10/21/2021	Univ of WI Hosp & Clinics Auth	Revenue Bonds Series 2021 B	315.23	Negotiated Bid	Lead Manager	Aa3	AA-	NR	General Acute Care Hospital	
10/21/2021	Univ of WI Hosp & Clinics Auth	Revenue Refunding Bonds Series 2021 C	49.50	Negotiated Bid	Lead Manager	Aa3	AA-	NR	General Acute Care Hospital	
10/21/2021	Hudson Yards Infrastructure Corp	Hudson Yards Revenue Bonds Series A	454.14	Negotiated Bid	Co-Manager	Aa2	AA-	A+	Mass Transportation	5.93
10/21/2021	Massachusetts Housing Fin Agcy	Housing Bonds 2021 Series B-1	77.82	Negotiated Bid	Lead Manager	Aa2	AA	NR	Multi Family Housing	
10/21/2021	Massachusetts Housing Fin Agcy	Housing Revenue Bonds 2021 Series C	8.81	Negotiated Bid	Lead Manager	Aa2	AA	NR	Multi Family Housing	
10/21/2021	Massachusetts Housing Fin Agcy	Housing Bonds 2021 Series B-2	0.45	Negotiated Bid	Lead Manager	Aa2	AA	NR	Multi Family Housing	
10/21/2021	Massachusetts Housing Fin Agcy	Housing Bonds 2021 Series B-2	41.15	Negotiated Bid	Lead Manager	Aa2	AA	NR	Multi Family Housing	
10/21/2021	Massachusetts Housing Fin Agcy	Housing Bonds 2021 Series B-2	20.35	Negotiated Bid	Lead Manager	Aa2	AA	NR	Multi Family Housing	
10/26/2021	Wisconsin Hlth & Ed Fac Auth (WHEFA)	Revenue Bonds Series 2021	208.30	Negotiated Bid	Lead Manager	A1	AA-	NR	General Acute Care Hospital	
10/26/2021	Los Angeles USD	General Obligation Bonds Series RYRR 2021	61.72	Negotiated Bid	Co-Manager	Aa3	NR	AA+	Primary & Secondary Education	
10/26/2021	Los Angeles USD	General Obligation Bonds Series RYRR 2021	432.43	Negotiated Bid	Co-Manager	Aa3/Aa3/Aa3	NR,NR,NR	AA+,AA+,AA+	Primary & Secondary Education	
10/26/2021	Los Angeles USD	GO Refunding Bonds 2021 Ser B	48.86	Negotiated Bid	Sole Manager	Aa3	NR	AA+	Primary & Secondary Education	
10/26/2021	San Joaquin Co (Stockton) USD	General Obligation Bonds Series B	11.50	Negotiated Bid	Sole Manager	Aa3	A+	NR	Primary & Secondary Education	
10/26/2021	San Joaquin Co (Stockton) USD	General Obligation Bonds Series B	86.50	Negotiated Bid	Sole Manager	Aa3/Aa3	A+,A+	NR,NR	Primary & Secondary Education	
10/27/2021	Dallas & Fort Worth Cities-Texas	Jt Revenue Refunding Bonds Series 2021 C	706.23	Negotiated Bid	Lead Manager	A1	NR	A+	Airports	3.64
10/27/2021	Ohio	Infras Imp&Ref&Cons Proj GO Bond Series 2021 A&B	229.07	Negotiated Bid	Co-Manager	Aa1/Aa1/Aa1	AA+;AA+;AA+	AA+;AA+;AA+	Economic Development	
10/27/2021	Ohio	Common Schools GO Ref Bonds Series 2021 C	100.13	Negotiated Bid	Co-Manager	Aa1	AA+	AA+	Primary & Secondary Education	
11/4/2021	Lynchburg Economic Dev Auth	Hospital Revenue & Ref Bonds Series 2021	215.43	Negotiated Bid	Sole Manager	Baa1	A-	A-	General Acute Care Hospital	4.94
11/4/2021	Los Angeles Dept Wtr & Pwr (LADWP)	Power System Revenue Bonds 2021 Series C	101.71	Negotiated Bid	Lead Manager	Aa2/Aa2/Aa2	NR,NR,NR	AA-,AA-,AA-	Public Power	
11/4/2021	Los Angeles Dept Wtr & Pwr (LADWP)	Power System Rev Bonds 2021 Series C	300.00	Negotiated Bid	Lead Manager	Aa2	NR	AA-	Public Power	
11/9/2021	El Paso City-Texas	GO Bonds & Comb Tx & Rev COBs Series 2021 B & C	157.52	Negotiated Bid	Lead Manager	NR,NR	NR,AA	NR,AA	General Purpose/ Public Imp	
11/9/2021	American Municipal Power Inc	Revenue Refunding Bonds Series 2021 A	269.52	Negotiated Bid	Co-Manager	A1	A	NR	Public Power	
11/9/2021	Maine State Housing Authority	Mortgage Purchase Bonds 2021 Series D	39.33	Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing	
11/10/2021	NYS Environmental Facs Corp	State Revolving Funds Rev Bonds Series 2021 B	144.54	Negotiated Bid	Co-Manager	Aaa	AAA	AAA	Pollution Control	
11/10/2021	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds Series 2021-137	253.15	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
11/16/2021	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Project Bonds 2021 Series E-1	7.85	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Multi Family Housing	

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11/16/2021	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Project Bonds 2021 Series E-2	3.24	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Multi Family Housing	
11/17/2021	California Health Facs Fin Auth	Revenue Bonds Series 2021A	1,034.37	Negotiated Bid	Lead Manager	Aa3;Aa3;Aa3;Aa3	AA-;AA-;AA-;AA-	AA-;AA-;AA-;AA-	General Acute Care Hospital	3.88
11/18/2021	Ohio Higher Ed Fac Commission	Revenue Refunding Bonds Series 2021A	28.46	Negotiated Bid	Lead Manager	Aa3	AA-	NR	Higher Education	
11/18/2021	Ohio Higher Ed Fac Commission	Revenue Refunding Bonds Series 2021B	35.00	Negotiated Bid	Lead Manager;Remarketing Agent	Aa3	AA-	NR	Higher Education	
11/23/2021	Massachusetts Housing Fin Agcy	Single Family Hsg Rev Bonds Series 223	70.86	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
12/1/2021	Illinois	General Obligation Bonds Ser of Dec 2021 B	200.00	Competitive Bid	Sole Manager	Baa2	BBB	BBB-	General Purpose/ Public Imp	
12/1/2021	Los Angeles Co (Centinela Valley) UHSD	Ref Certificates of Participation Series 2021	7.06	Negotiated Bid	Sole Manager	NR	A	NR	Primary & Secondary Education	
12/2/2021	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds 2021 Series J& K 1	134.91	Negotiated Bid	Co-Manager	Aa2;Aa2	NR;NR	NR;NR	Multi Family Housing	
12/2/2021	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds 2021 Series J-2	46.80	Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	
12/2/2021	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds 2021 Series J-2	210.19	Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	
12/2/2021	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds 2021 Series J-2	38.57	Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	
12/3/2021	Alaska Housing Finance Corp	General Mortgage Revenue Bonds 2022 Series A &B-1&2	122.80	Negotiated Bid	Co-Manager	Aa1;Aa1;Aa1	AA+;AA+;AA+	NR;NR;NR	Single Family Housing	
12/8/2021	Golden State Tobacco Sec Corp	Tobacco Settle Asset-Backed Bonds Series 2021 A-1&B-1	2,799.63	Negotiated Bid	Co-Manager	NR;NR;NR;NR;NR;NR	NR;NR;NR;NR;NR;NR	NR;NR;NR;NR;NR;NR	General Purpose/ Public Imp	
12/8/2021	Golden State Tobacco Sec Corp	Tobacco Settle Asset-Backed CBAs Series 2021 B-2	1,384.99	Negotiated Bid	Co-Manager	NR	NR	NR	General Purpose/ Public Imp	
12/8/2021	Washington State University	General Revenue Ref Bonds Series 2022	16.05	Negotiated Bid	Sole Manager	Aa3	A+	NR	Higher Education	
12/8/2021	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2021 Series K-2	185.11	Negotiated Bid	Co-Manager	Aa2	AA+	NR	Multi Family Housing	
12/8/2021	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2021 Series K-1	134.08	Negotiated Bid	Co-Manager	Aa2	AA+	NR	Multi Family Housing	
12/8/2021	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds Series 2021 K-3	50.00	Negotiated Bid	Sole Manager;Remarketing Agent	Aa2	AA+	NR	Multi Family Housing	
12/8/2021	San Joaquin Hills Trans Corridor Agcy	Sr Lien Toll Road Ref Rev Bonds Series 2021A	520.48	Negotiated Bid	Co-Manager	NR;NR;NR;NR	A;A;A;A	BBB;BBB;BBB;BBB	Toll Roads, Highways & Streets	
12/8/2021	San Joaquin Hills Trans Corridor Agcy	Sr Lien Toll Road Ref Rev Bonds Series 2021B	605.07	Negotiated Bid	Co-Manager	NR	A	BBB	Toll Roads, Highways & Streets	
12/9/2021	Utah State Board of Regents	General Revenue Bonds Series 2022A	186.29	Negotiated Bid	Lead Manager	Aa1	AA+	NR	Higher Education	
12/9/2021	Massachusetts Housing Fin Agcy	Single Family Housing Notes Series 2021	100.00	Negotiated Bid	Co-Manager	NR	NR	NR	Single Family Housing	
12/9/2021	Massachusetts Wtr Resources Auth	Gen Revenue Refunding Bonds 2021 Series	687.40	Negotiated Bid	Co-Manager	Aa1	AA+	AA+	Water & Sewer Facilities	
12/9/2021	Massachusetts Wtr Resources Auth	General Revenue Bonds 2021 Series B	60.64	Negotiated Bid	Co-Manager	Aa1	AA+	AA+	Water & Sewer Facilities	
12/14/2021	Quincy City-Massachusetts	GO Pension Bonds	475.00	Negotiated Bid	Co-Manager	NR	AA	NR	General Purpose/ Public Imp	
12/14/2021	Spokane Co-Washington	Limited Tax GO Refunding Bonds Series 2021	56.77	Negotiated Bid	Sole Manager	Aa1	AA+	NR	General Purpose/ Public Imp	
12/15/2021	Connecticut	General Obligation Bonds 2022 Series A-1	39.90	Negotiated Bid	Lead Manager	Aa3	A+	AA-	General Purpose/ Public Imp	0.27
12/15/2021	Connecticut	General Obligation Bonds 2022 Series A-2	16.33	Negotiated Bid	Lead Manager	Aa3	A+	AA-	General Purpose/ Public Imp	0.11
12/15/2021	Connecticut	General Obligation Bonds 2022 Series A-3	3.80	Negotiated Bid	Lead Manager	Aa3	A+	AA-	General Purpose/ Public Imp	0.02
12/15/2021	Connecticut	General Obligation Bonds 2022 Series A-4	165.27	Negotiated Bid	Lead Manager	Aa3	A+	AA-	General Purpose/ Public Imp	1.11
12/15/2021	Connecticut	General Obligation Bonds 2022 Series A-5	112.34	Negotiated Bid	Lead Manager	Aa3	A+	AA-	General Purpose/ Public Imp	0.75
12/15/2021	Connecticut	General Obligation Bonds 2022 Series A-6	84.60	Negotiated Bid	Lead Manager	Aa3	A+	AA-	General Purpose/ Public Imp	0.57
12/15/2021	Connecticut	General Obligation Bonds 2022 Series A-7	77.77	Negotiated Bid	Lead Manager	Aa3	A+	AA-	General Purpose/ Public Imp	0.52
12/15/2021	Connecticut	General Obligation Bonds 2022 Series B	300.00	Negotiated Bid	Lead Manager	Aa3	A+	AA-	Primary & Secondary Education	4.80
1/5/2022	Maine State Housing Authority	Mortgage Purchase Bonds 2022 Series A	50.00	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
1/5/2022	Maine State Housing Authority	Mortgage Purchase Bonds 2022 Series B	50.00	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
1/12/2022	Berwyn City-Illinois	General Obligation Bonds Series 2022 A	90.80	Negotiated Bid	Lead Manager	NR	BBB	NR	General Purpose/ Public Imp	
1/12/2022	Berwyn City-Illinois	General Obligation Bonds Series 2022 B	9.00	Negotiated Bid	Lead Manager	NR	BBB	NR	General Purpose/ Public Imp	
1/12/2022	Colorado	Education Loan Program TRANs Series 2021B	300.00	Competitive Bid	Sole Manager	NR;NR	NR;NR	NR;NR	Primary & Secondary Education	
1/13/2022	Los Angeles Dept Wtr & Pow (LADWP)	Power System Revenue Bonds 2022 Series A	375.00	Negotiated Bid	Lead Manager	Aa2	NR	AA-	Public Power	
1/14/2022	Rhode Island Hsg & Mtg Fin Corp	Homeownership Opportunity Bonds Series 76-A	124.93	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
1/14/2022	Rhode Island Hsg & Mtg Fin Corp	Homeownership Opportunity Bonds Series 76-T	13.80	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
1/20/2022	Texas Dept of Hsg & Comm Affairs	Residential Mtg Revenue Bonds Series 2022A	190.00	Negotiated Bid	Co-Manager	Aaa	AA+	NR	Single Family Housing	
1/21/2022	NYC Transitional Finance Auth	Future Tax Subordinate Bonds Fiscal 2022 Ser C	950.00	Negotiated Bid	Co-Manager	Aa1	AAA	AAA	General Purpose/ Public Imp	
1/25/2022	Colorado Hsg & Fin Auth (CHFA)	Single Family Mtg Bonds 2022 Series C-1	28.63	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
1/25/2022	Colorado Hsg & Fin Auth (CHFA)	Single Family Mtg Bonds 2022 Series B	45.78	Negotiated Bid	Co-Manager	Aaa;Aaa	AAA;AAA	NR;NR	Single Family Housing	
1/25/2022	Colorado Hsg & Fin Auth (CHFA)	Single Family Mtg Bonds 2022 Series A	4.22	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
2/2/2022	West Basin Municipal Water Dt	Refunding Revenue Bonds Series 2022A	24.45	Negotiated Bid	Sole Manager	Aa2	NR	NR	Water & Sewer Facilities	
2/4/2022	NYC Municipal Water Fin Auth	Water & Sewer Revenue Bonds Fiscal 2022 SerCC1&2	500.00	Negotiated Bid	Co-Manager	Aa1;Aa1;Aa1	AA+;AA+;AA+	AA+;AA+;AA+	Water & Sewer Facilities	
2/8/2022	Greater Orlando Aviation Auth	Airport Facs Ref Rev Bonds Series 2022 D	19.74	Negotiated Bid	Co-Manager	Aa3	AA-	AA-	Airports	
2/8/2022	Greater Orlando Aviation Auth	Airport Revenue & Ref Bonds Series 2022 B	75.54	Negotiated Bid	Co-Manager	Aa3;Aa3	AA-;AA-	AA-;AA-	Airports	
2/8/2022	Greater Orlando Aviation Auth	Airport Facs Rev & Ref Bonds Series 2022 A & C	191.77	Negotiated Bid	Co-Manager	Aa3;Aa3	AA-;AA-	AA-;AA-	Airports	
2/9/2022	SC Pub Svc Au (Santee Cooper)	Revenue Oblig Ref Bonds 2022 Series A & B	1,283.19	Negotiated Bid	Co-Manager	A2;A2	A-A	A--A-	Public Power	
2/10/2022	NYC Housing Dev Corp	Housing Impact Bonds 2022 Series A	104.25	Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	
2/17/2022	University of South Carolina	Special Higher Ed Rev Ref Bonds Series 2022A	39.81	Negotiated Bid	Sole Manager	Aa3	NR	NR	Higher Education	
2/17/2022	University of South Carolina	Athletic Facs Ref & Imp Rev Bonds Series 2022A	36.69	Negotiated Bid	Sole Manager	Aa3	NR	NR	Higher Education	
2/17/2022	University of South Carolina	Higher Ed Revenue Refunding Bonds Series 2022A	14.14	Negotiated Bid	Sole Manager	Aa3	NR	NR	Higher Education	
2/17/2022	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds Series 2022-138A	207.76	Negotiated Bid	Co-Manager	Aa1;Aa1;Aa1;Aa1	AA+;AA+;AA+;AA+	NR;NR;NR;NR	Single Family Housing	5.63
2/24/2022	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2022 Series A	180.40	Negotiated Bid	Co-Manager	Aa2	AA+	NR	Multi Family Housing	
2/24/2022	District of Columbia Wtr & Swr Au	Public Utility Sub Lien Rev Bonds Series 2022B	79.59	Negotiated Bid	Co-Manager	Aa2	AA+	AA	Water & Sewer Facilities	
2/24/2022	District of Columbia Wtr & Swr Au	Pub Utility Sub Lien & Ref Bonds Series 2022C	206.73	Negotiated Bid	Co-Manager	Aa2	AA+	AA	Water & Sewer Facilities	
2/24/2022	District of Columbia Wtr & Swr Au	Pub Utility Sub Lien & Ref Bonds Series 2022D	148.93	Negotiated Bid	Co-Manager	Aa2	AA+	AA	Water & Sewer Facilities	
2/25/2022	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds Series 245	45.21	Negotiated Bid	Co-Manager	Aa1	NR	NR	Single Family Housing	
2/25/2022	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds Series 242 & 244	153.59	Negotiated Bid	Co-Manager	Aa1;Aa1	NR;NR	NR;NR	Single Family Housing	
2/25/2022	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds Series 243	16.90	Negotiated Bid	Co-Manager	Aa1	NR	NR	Single Family Housing	
3/2/2022	NYC Municipal Water Fin Auth	Wtr&Swr Sys 2nd Gen Res Rev Bond Series EE	778.97	Negotiated Bid	Lead Manager	Aa1	AA+	AA+	Water & Sewer Facilities	
3/3/2022	Lower Colorado River Authority (LCRA)	Transmission Contract Ref Bonds Series 2022	342.63	Negotiated Bid	Lead Manager	NR	A	A+	Public Power	
3/8/2022	Douglas Co Hosp Auth #2	Revenue Bonds Series 2022	42.64	Negotiated Bid	Sole Manager	NR	NR	NR	General Acute Care Hospital	

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3/8/2022	Wyoming Community Dev Authority	Housing Revenue Bonds 2022 Series 1	60.64	Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing	
3/8/2022	Wyoming Community Dev Authority	Housing Revenue Bonds 2022 Series 3	8.80	Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing	
3/9/2022	California	Various Purpose GO & Ref Bonds	1,878.89	Negotiated Bid	Co-Manager	Aa2/Aa2-Aa2/Aa2	AA,AA,AA,AA,AA	AA-,AA-,AA-,AA-,AA-	General Purpose/ Public Imp	
3/9/2022	California	Various Purpose GO Ref Bonds	150.00	Negotiated Bid	Co-Manager	Aa2	AA	AA-	General Purpose/ Public Imp	
3/9/2022	California	Various Purpose GO Ref Bonds	200.00	Negotiated Bid	Co-Manager	Aa2	AA	AA-	General Purpose/ Public Imp	
3/9/2022	Regents of the University of Michigan	General Revenue Bonds Series 2022A	1,700.00	Negotiated Bid	Lead Manager	Aaa	AAA	NR	Higher Education	
3/9/2022	Regents of the University of Michigan	General Revenue Bonds Series 2022B	300.00	Negotiated Bid	Lead Manager	Aaa	AAA	NR	Higher Education	
3/10/2022	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds Fis 2022 Sub D-1	140.53	Negotiated Bid	Co-Manager	Aa1	AAA	AAA	General Purpose/ Public Imp	
3/10/2022	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds Fis 2022 SerE&SubD-1	709.80	Negotiated Bid	Co-Manager	Aa1/Aa1	AAA,AAA	AAA,AAA	General Purpose/ Public Imp	
3/10/2022	Univ of No Texas Sys Bd of Regents	Rev Financing Sys Ref & Imp Bonds Series 2022A	48.33	Negotiated Bid	Lead Manager	Aa2	NR	AA	Higher Education	
3/10/2022	Univ of No Texas Sys Bd of Regents	Rev Financing Sys Ref & Imp Bonds Series 2022A	53.23	Negotiated Bid	Lead Manager	Aa2	NR	AA	Higher Education	
3/15/2022	NYS Dorm Authority	State Personal Inc Tax Rev Bonds Series 2022A	2,422.34	Negotiated Bid	Co-Manager	NR	AA+	AA+	General Purpose/ Public Imp	
3/23/2022	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds 2022 Series A-1&B-1	102.44	Negotiated Bid	Co-Manager	Aa2/Aa2	NR,NR	NR,NR	Multi Family Housing	
3/23/2022	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds 2022 Ser A-2&B-2	217.95	Negotiated Bid	Co-Manager	Aa2/Aa2	NR,NR	NR,NR	Single Family Housing	
3/23/2022	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds 2022 Series C	17.85	Negotiated Bid	Co-Manager	Aa2	NR	NR	Single Family Housing	
3/24/2022	Brevard Co Health Facs Auth	Hospital Revenue Bonds Series 2023A	47.42	Negotiated Bid	Co-Manager	A2	A	NR	General Acute Care Hospital	
3/24/2022	Brevard Co Health Facs Auth	Hospital Revenue Bonds Series 2022A	388.23	Negotiated Bid	Lead Manager	A2/A2/A2/A2	A,A,A,A	NR,NR,NR,NR	General Acute Care Hospital	
3/24/2022	New York City-New York	General Obligation Bonds Fiscal 2022 Ser B&C	900.91	Negotiated Bid	Co-Manager	Aa2/Aa2	AA,AA	AA-,AA-	General Purpose/ Public Imp	3.29
3/25/2022	NYC Housing Dev Corp	Capital Fund Program Rev Bonds Series 2022A	398.27	Negotiated Bid	Co-Manager	NR	AA-	NR	Multi Family Housing	
3/30/2022	Los Angeles Co Reg Financing Au	Lease Revenue Refunding Bonds Series 2022	53.63	Negotiated Bid	Co-Manager	NR	AA+	AA	General Purpose/ Public Imp	
3/31/2022	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds Fiscal 2022 Sub F-1	950.00	Negotiated Bid	Co-Manager	Aa1	AAA	AAA	General Purpose/ Public Imp	
3/31/2022	Idaho Housing & Fin Assoc	Sales Tax Revenue Bonds Series 2022A	184.59	Negotiated Bid	Co-Manager	Aa1	NR	AA+	Toll Roads, Highways & Streets	
4/5/2022	New York Transportation Development Corporation	Special Fac Revenue Bonds Series 2022	1,323.93	Negotiated Bid	Co-Manager	Baa1	NR	BBB	Airports	
4/5/2022	Monroeville Finance Authority	UPMC Revenue Bonds Series 2022B	172.20	Negotiated Bid	Lead Manager	A2	A	A	General Acute Care Hospital	5.51
4/5/2022	Pennsylvania Econ Dev Fin Auth	Revenue Bonds Series 2022A	212.43	Negotiated Bid	Co-Manager	A2/A2/A2	A,A,A	A,A,A	General Acute Care Hospital	
4/5/2022	Regents of the University of Michigan	General Revenue Bonds Series 2022C	413.21	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Higher Education	
4/5/2022	Wisconsin Hlth & Ed Facs Auth (WHEFA)	Refunding Revenue Bonds Series 2022	56.59	Negotiated Bid	Lead Manager	A2	NR	NR	Higher Education	
4/5/2022	Triborough Bridge & Tunnel Auth	Payroll Mobility Tax Ref Bonds Series 2022B	1,000.02	Negotiated Bid	Co-Manager	NR	AA+	AA+	Mass Transportation	
4/6/2022	NYS Environmental Facs Corp	Clean & Drinking Wtr Revolv Bonds Series 2022A	413.01	Negotiated Bid	Co-Manager	Aaa	AAA	AAA	Pollution Control	
4/6/2022	Wyoming Community Dev Authority	Housing Revenue Bonds 2022 Series 2	37.53	Negotiated Bid	Lead Manager;Remarketing Agent	Aa1	AA+	NR	Single Family Housing	
4/7/2022	Missouri Hlth & Ed Facs Authority	Health Facilities Rev Bonds Series 2022A	312.07	Negotiated Bid	Co-Manager	A1	A+	AA-	General Acute Care Hospital	
4/11/2022	University Of Minnesota Regents	General Obligation Bonds Series 2022	500.00	Negotiated Bid	Lead Manager	Aa1	AA	NR	Higher Education	3.37
4/13/2022	California St Public Works Board	Lease Revenue Bonds 2022 Series D	294.99	Competitive Bid	Sole Manager	Aa3	A+	AA-	General Purpose/ Public Imp	
4/13/2022	Kansas City-Missouri	Special Obligation Bonds Series 2022B	34.36	Negotiated Bid	Co-Manager	A2	AA-	NR	General Purpose/ Public Imp	
4/13/2022	Kansas City-Missouri	Special Obligation Bonds Series 2022A	2.92	Negotiated Bid	Co-Manager	A2	AA-	NR	General Purpose/ Public Imp	
4/13/2022	Kansas City-Missouri	Special Oblg Ref & Imp Bonds Series 2022C	167.46	Negotiated Bid	Co-Manager	A2	AA-	NR	Toll Roads, Highways & Streets	
4/20/2022	Massachusetts Dev Finance Agcy	Revenue Bonds Series 2022B	207.83	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Higher Education	3.38
4/20/2022	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Finance Prog Bonds 2022 Ser B Sub B-1	78.03	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Multi Family Housing	
4/20/2022	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Finance Prog Bonds 2022 Ser B Sub B-2	6.36	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Multi Family Housing	
4/21/2022	Iowa Finance Authority	Midwestern Disaster Area Bonds Series 2022	838.75	Negotiated Bid	Co-Manager	Baa3,Baa3,Baa3	BBB-,BBB-,BBB-	BBB-,BBB-,BBB-	General Purpose/ Public Imp	
4/27/2022	Regents of the University of California	Medical Ctr Pooled Rev Bonds 2022 Series Q	1,100.00	Negotiated Bid	Lead Manager	Aa3	AA-	AA-	General Acute Care Hospital	
4/27/2022	Regents of the University of California	Medical Ctr Pooled Rev Bonds 2022 Series Q	1,900.00	Negotiated Bid	Lead Manager	Aa3	AA-	AA-	General Acute Care Hospital	
4/27/2022	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds Series 2022 D-1	48.38	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
4/27/2022	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds Series 2022-139 A	222.03	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
5/3/2022	Ohio	Healthcare Facs Rev Bonds Series 2022	71.81	Negotiated Bid	Sole Manager	NR	NR	BBB+	General Acute Care Hospital	
5/4/2022	Michigan St Hsg Dev Au (MSHDA)	Rental Housing Rev Bonds 2022 Series A	135.05	Negotiated Bid	Co-Manager	NR	AA	NR	Single Family Housing	
5/5/2022	North Carolina	Limited Obligation Bonds Series 2022A	300.00	Negotiated Bid	Co-Manager	Aa1	AA+	AA+	Mass Transportation	
5/5/2022	Triborough Bridge & Tunnel Auth	Payroll Mobility Tax Bonds Series 2022C	927.95	Negotiated Bid	Co-Manager	NR	AA+	AA+	Mass Transportation	
5/10/2022	Pennsylvania State University	Revenue Bonds Series A of 2022	125.45	Negotiated Bid	Lead Manager	Aa1	AA	NR	Higher Education	
5/10/2022	Pennsylvania State University	Revenue Bonds Series B of 2022	26.50	Negotiated Bid	Lead Manager	Aa1	AA	NR	Higher Education	
5/11/2022	San Fran Bay Area Rapid Trans Dt	General Obligation Bonds 2022 Series D-2	13.27	Negotiated Bid	Co-Manager	Aaa	NR	AAA	Mass Transportation	
5/11/2022	San Fran Bay Area Rapid Trans Dt	General Obligation Bonds 2022 Series D-1 & 2	686.73	Negotiated Bid	Co-Manager	Aaa	NR	AAA	Mass Transportation	
5/12/2022	San Francisco City/Co Public Util Comm	Wastewater Revenue Ref Bonds Series 2022 B	137.08	Negotiated Bid	Co-Manager	Aa2	AA	NR	Water & Sewer Facilities	
5/18/2022	Illinois	General Obligation & Ref Bonds Ser of June 2022A&B	1,638.38	Negotiated Bid	Co-Manager	Baa1,Baa1	BBB+,BBB+	BBB+,BBB+	General Purpose/ Public Imp	
5/19/2022	New York City-New York	General Obligation Bonds Fiscal 2022 Sub D-1	950.00	Negotiated Bid	Co-Manager	Aa2	AA	AA-	General Purpose/ Public Imp	
5/19/2022	New York City-New York	General Obligation Bonds Fiscal 2022 Sub D-2	130.00	Negotiated Bid	Co-Manager	Aa2	AA	AA-	General Purpose/ Public Imp	
5/24/2022	Metro Washington Airports Auth	Airport Sys Rev Refunding Bonds Series 2022A	205.28	Negotiated Bid	Co-Manager	Aa3	NR	AA-	Airports	
5/25/2022	Kern Co (Kern) HSD	Refunding GO Bonds 2022 Series	20.57	Negotiated Bid	Sole Manager	Aa2	NR	NR	Primary & Secondary Education	
5/25/2022	Alaska Housing Finance Corp	State Capital Projct Bonds II 2022 Series B	97.70	Negotiated Bid	Lead Manager	Aa2	AA+	NR	Single Family Housing	
5/25/2022	Alaska Housing Finance Corp	State Capital Project Bonds Series A II	200.00	Negotiated Bid	Sole Manager;Remarketing Agent;Credit Enhancer	Aa1	AA+	NR	Single Family Housing	
5/25/2022	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds Series 224	59.40	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
5/26/2022	Connecticut	General Obligation Bonds 2022 Series A-1	138.06	Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Purpose/ Public Imp	1.18
5/26/2022	Connecticut	General Obligation Bonds 2022 Series C-1	5.77	Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Purpose/ Public Imp	0.15
5/26/2022	Connecticut	General Obligation Bonds 2022 Series C-2	117.44	Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Purpose/ Public Imp	3.06
5/26/2022	Connecticut	General Obligation Bonds 2022 Series C-3	10.80	Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Purpose/ Public Imp	0.28
5/26/2022	Connecticut	General Obligation Bonds 2022 Series C-4	16.01	Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Purpose/ Public Imp	0.42
5/26/2022	Connecticut	GO Refunding Bonds 2022 Series D-1	566.69	Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Purpose/ Public Imp	2.30
5/26/2022	Connecticut	GO Refunding Bonds 2022 Series D-2	2.18	Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Purpose/ Public Imp	0.01

5/26/2022	Connecticut	General Obligation Bonds 2022 Series A-2	136.00	Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Purpose/ Public Imp	1.16
5/26/2022	Connecticut	General Obligation Bonds 2022 Series A-3	75.94	Negotiated Bid	Co-Manager	Aa3	A+	AA-	General Purpose/ Public Imp	0.65
6/2/2022	Utah State Board of Regents	General Revenue Bonds Series 2022B	478.43	Negotiated Bid	Lead Manager	Aa1	AA+	NR	Higher Education	
6/2/2022	San Diego Co (South Bay) USD	General Obligation Bonds Series A	18.00	Negotiated Bid	Sole Manager	A1	NR	NR	Primary & Secondary Education Public Power	
6/2/2022	Sacramento MUD (SMUD)	Electric Revenue Ref Bonds 2022 Series J	132.73	Negotiated Bid	Co-Manager	NR	AA	AA		
6/2/2022	Michigan St Hsg Dev Au (MSHDA)	Single Family Mortgage Rev Bonds 2022 Series A	197.12	Negotiated Bid	Lead Manager	Aa2	AA+	NR	Single Family Housing	
6/2/2022	Michigan St Hsg Dev Au (MSHDA)	Single Family Mortgage Rev Bonds 2022 Series B	81.28	Negotiated Bid	Sole Manager;Remarketing Agent;Credit Enhancer	Aa2	AA+	NR	Single Family Housing	
6/2/2022	Michigan St Hsg Dev Au (MSHDA)	Single Family Mortgage Rev Bonds 2022 Series C	55.24	Negotiated Bid	Sole Manager;Remarketing Agent;Credit Enhancer	Aa2	AA+	NR	Single Family Housing	
6/7/2022	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds Series C-1	115.71	Negotiated Bid	Co-Manager	Aa2	AA+	NR	Multi Family Housing	
6/8/2022	Wisconsin Public Finance Auth	Health Care Sys Rev Bonds Series 2022A	198.37	Negotiated Bid	Lead Manager	NR;NR	AA-/AA-	AA;AA	General Acute Care Hospital	
6/8/2022	Massachusetts Housing Fin Agcy	Housing Bonds Series 2022A-1&3	25.84	Negotiated Bid	Co-Manager	Aa2;Aa2	AA;AA	NR;NR	Single Family Housing	
6/8/2022	Massachusetts Housing Fin Agcy	Housing Bonds Series 2022A-2	30.35	Negotiated Bid	Co-Manager	Aa2;Aa2	AA;AA	NR;NR	Single Family Housing	
6/8/2022	Massachusetts Housing Fin Agcy	Housing Bonds Series 2022A-2	18.77	Negotiated Bid	Co-Manager	Aa2;Aa2	AA;AA	NR;NR	Single Family Housing	
6/9/2022	Douglas Co Public Utility Dt #1	Wells Hydroelectric Rev Bonds Series A	36.52	Negotiated Bid	Sole Manager	Aa2	AA	NR	Public Power	
6/9/2022	Douglas Co Public Utility Dt #1	Wells Hydroelectric Rev Bonds Series B	76.03	Negotiated Bid	Sole Manager	Aa2	AA	NR	Public Power	
6/9/2022	Maine State Housing Authority	Mortgage Purchase Bonds 2022 Series D	49.25	Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing	
6/23/2022	Cleveland-Cuyahoga Co Port Auth	Student Hsg Facs Rev Bonds Series 2022A	140.29	Negotiated Bid	Lead Manager	A3	A-	NR	Higher Education	
6/23/2022	Cleveland-Cuyahoga Co Port Auth	Student Hsg Facs Rev Bonds Series 2022B	6.65	Negotiated Bid	Lead Manager	A3	A-	NR	Higher Education	
6/28/2022	University of Maine System	System Revenue Bonds Series 2022	120.33	Negotiated Bid	Co-Manager	NR	AA-	NR	Higher Education	
6/29/2022	Georgia Muni Electric Au (MEAG)	Revenue Bonds Series 2022A	212.01	Negotiated Bid	Lead Manager	A3;A3	A;A	BBB+;BBB+	Public Power	
6/29/2022	Georgia Muni Electric Au (MEAG)	Revenue Bonds Series 2022B	61.57	Negotiated Bid	Lead Manager	Baa2	BBB+	BBB+	Public Power	
6/29/2022	Georgia Muni Electric Au (MEAG)	Revenue Bonds Series 2022A	51.19	Negotiated Bid	Lead Manager	A2;A2	A;A	BBB+;BBB+	Public Power	
6/29/2022	Georgia Muni Electric Au (MEAG)	Revenue Bonds Series 2022A	50.41	Negotiated Bid	Lead Manager	Baa2	BBB+	BBB+	Public Power	
6/30/2022	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds Fis 2023 Sub A-1	950.00	Negotiated Bid	Co-Manager	Aa1	AAA	AAA	General Purpose/ Public Imp	
6/30/2022	Sumter Co Industrial Dev Auth	Exempt Facilities Rev Bonds Series 2022	250.00	Negotiated Bid	Co-Manager	B1	B+	BB-	Industrial Development	
7/12/2022	Colorado	Education Loan Prog Tax & RANs Series 2022A	55.00	Competitive Bid	Sole Manager	NR	NR	NR	Primary & Secondary Education	
7/12/2022	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds 2022 Series E	4.48	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
7/12/2022	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds 2022 Series F	35.52	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
7/12/2022	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds 2022 Series G-1	26.47	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
7/14/2022	Massachusetts Dev Finance Agcy	Revenue Bonds Series 2022	378.51	Negotiated Bid	Lead Manager	A1	NR	NR	Higher Education	
7/14/2022	Colorado Hsg & Fin Auth (CHFA)	Homeownership Bonds Series 2022 BB-1&2	50.00	Negotiated Bid	Co-Manager	Aaa;Aaa	NR;NR	NR;NR	Single Family Housing	
7/20/2022	Nashville-Davidson Co Metro Govt	GO Improvement Bonds Series 2022B	282.57	Competitive Bid	Sole Manager	Aa2;Aa2	AA;AA	NR;NR	General Purpose/ Public Imp	
7/20/2022	Maine State Housing Authority	Mortgage Purchase Bonds Series 2022E	54.18	Negotiated Bid	Lead Manager	Aa1	AA+	NR	Multi Family Housing	
7/20/2022	Yorba Linda Water Dt	Financing Auth Rev Bonds Series 2022A	32.31	Negotiated Bid	Sole Manager	NR	AA+	NR	Water & Sewer Facilities	
7/21/2022	NYC Transitional Finance Auth	Building Aid Revenue Bonds Fis 2023 Sub S-1A	492.30	Negotiated Bid	Co-Manager	Aa2	AA	AA	General Purpose/ Public Imp	
7/22/2022	NYC Housing Dev Corp	Multi-Family Housing Bonds 2022 Series E-1&2	151.34	Negotiated Bid	Lead Manager	Aa2;Aa2	AA+;AA+	NR;NR	Multi Family Housing	
8/4/2022	Tarrant Co Cult Ed Fac Fin Corp	Hospital Revenue Ref Bonds Series 2022 A&B	91.69	Private Bid	Sole Manager;Remarketing Agent	NR	NR	NR	General Acute Care Hospital	
8/4/2022	Georgia Priv College & Univ Auth	Revenue Bonds Series 2022A	212.06	Negotiated Bid	Lead Manager	Aa2	AA	NR	Higher Education	
8/4/2022	Georgia Priv College & Univ Auth	Revenue Bonds Series 2022C-1	110.45	Negotiated Bid	Lead Manager	Aa1	AA+	NR	Higher Education	
8/4/2022	Georgia Priv College & Univ Auth	Revenue Bonds Series 2022C-2	110.45	Negotiated Bid	Lead Manager	Aa1	AA	NR	Higher Education	
8/4/2022	Georgia Priv College & Univ Auth	Revenue Bonds Series 2022	110.38	Negotiated Bid	Lead Manager	Aa1	AA	NR	Higher Education	
8/9/2022	Minnesota	GO State Various Purpose Bonds Series 2022A	123.63	Competitive Bid	Sole Manager	Aaa	AAA	AAA	General Purpose/ Public Imp	
8/11/2022	Triborough Bridge & Tunnel Auth	General Revenue Bonds Series 2022A	400.00	Negotiated Bid	Co-Manager	Aa3	AA-	AA-	Bridges	
8/11/2022	Cook Co-Illinois	GO Refunding Bonds Series 2022A	268.53	Negotiated Bid	Lead Manager	A2	A+	AA-	General Purpose/ Public Imp	
8/11/2022	Cook Co-Illinois	GO Refunding Bonds Series 2022B	9.18	Negotiated Bid	Lead Manager	A2	A+	AA-	General Purpose/ Public Imp	
8/16/2022	Arkansas Development Fin Auth	Environmental Imp Rev Bonds Series 2022	290.00	Negotiated Bid	Co-Manager	NR	BB-	BB	General Purpose/ Public Imp	
8/17/2022	Regents of the University of California	General Revenue Bonds 2022 Series BL	65.24	Negotiated Bid	Co-Manager	Aa2	AA	AA	Higher Education	
8/17/2022	Regents of the University of California	General Revenue Bonds 2022 Series Bk	702.33	Negotiated Bid	Co-Manager	Aa2;Aa2	AA;AA	AA;AA	Higher Education	
8/17/2022	Long Island Power Authority	Electric Sys Gen Rev Bonds Series 2022A	130.36	Negotiated Bid	Co-Manager	A2	A	A	Public Power	
8/17/2022	Long Island Power Authority	Electric Sys Gen Rev Bonds Series 2022 B	100.00	Negotiated Bid	Co-Manager	A2	A	A	Public Power	
8/17/2022	Long Island Power Authority	Electric Sys Gen Rev Bonds Series 2022C	150.00	Negotiated Bid	Co-Manager	A2	A	A	Public Power	
8/18/2022	Oklahoma Dev Finance Auth	Ratepayer-Backed Bonds Series 2022	1,354.20	Negotiated Bid	Co-Manager	Aaa	NR	AAA	Gas	
8/18/2022	New York City-New York	General Obligation Bonds Fiscal 2023 Sub A-1	950.00	Negotiated Bid	Co-Manager	Aa2	AA	AA-	General Purpose/ Public Imp	
8/18/2022	Regents of the University of California	General Revenue Bonds 2023 Series BM	317.96	Negotiated Bid	Co-Manager	Aa2	AA	AA	Higher Education	
8/19/2022	NYS Housing Fin-Mortgage Agcy	Homeowner Mtg Revenue Bonds Series 246	77.03	Negotiated Bid	Lead Manager	Aa1	NR	NR	Single Family Housing	
8/19/2022	NYS Housing Fin-Mortgage Agcy	Homeowner Mtg Revenue Bonds Series 248	17.29	Negotiated Bid	Lead Manager	Aa1	NR	NR	Single Family Housing	
8/19/2022	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds Series 247	79.04	Negotiated Bid	Sole Manager;Remarketing Agent	Aa1	NR	NR	Single Family Housing	
8/19/2022	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds Series 249	18.31	Negotiated Bid	Sole Manager;Remarketing Agent	Aa1	NR	NR	Single Family Housing	
8/23/2022	Minneapolis-St Paul Metro Airports Comm	Sub Airport Revenue Bonds Series 2022A	145.90	Negotiated Bid	Co-Manager	NR	A+	A+	Airports	
8/23/2022	Minneapolis-St Paul Metro Airports Comm	Sub Airport Revenue Bonds Series 2022B	226.79	Negotiated Bid	Co-Manager	NR	A+	A+	Airports	
8/24/2022	AB Won Pat Intl Airport Auth	General Revenue Bonds 2023 Series A	47.08	Negotiated Bid	Lead Manager	Baa2	NR	NR	Airports	
8/25/2022	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds Fis 2023 Sub B-1&C-1	867.47	Negotiated Bid	Co-Manager	Aa1;Aa1	AAA;AAA	AAA;AAA	General Purpose/ Public Imp	
8/25/2022	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds Series 2022-140A	129.69	Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing	
8/25/2022	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds Series 2022-140B	23.27	Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing	
8/30/2022	Illinois Housing Dev Authority	Revenue Bonds 2022 Series E	100.00	Negotiated Bid	Co-Manager	Aaa	NR	NR	Single Family Housing	

8/30/2022	Illinois Housing Dev Authority	Revenue Bonds 2022 Series F	50.00	Negotiated Bid	Lead Manager;Remarketing Agent	Aaa	NR	NR	Single Family Housing
9/8/2022	California	Various Purpose GO Ref Bonds Series 2022	25.00	Negotiated Bid	Lead Manager	Aa2	AA-	AA	General Purpose/ Public Imp
9/8/2022	California	Various Purpose GO & Ref Bonds Series 2022	2,291.69	Negotiated Bid	Lead Manager	Aa2/Aa2	AA-/AA-	AA/AA	General Purpose/ Public Imp
9/12/2022	Univ of Texas Sys Bd of Regents	Permanent Univ Fund Bonds Series 2022A	372.92	Negotiated Bid	Lead Manager	Aaa	AAA	AAA	Higher Education
9/13/2022	Ware Co SD	GO Sales Tax Bonds Series 2022	25.00	Competitive Bid	Sole Manager	A1	NR	NR	Primary & Secondary Education
9/15/2022	San Diego Co (Cajon Valley) USD	GO Refunding Bonds 2022 Series	25.80	Negotiated Bid	Sole Manager	NR	AA-	NR	Primary & Secondary Education
9/15/2022	Texas Dept of Hsg & Comm Affairs	Residential Mtg Rev Bonds Series 2022B	150.00	Negotiated Bid	Co-Manager	Aaa	AA+	NR	Single Family Housing
9/16/2022	NYS Utility Debt Securitization Auth	Restructuring Bonds Series 2022TE-1	787.29	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Public Power
9/16/2022	NYS Utility Debt Securitization Auth	Restructuring Bonds Series 2022TE-2	94.78	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Public Power
9/16/2022	NYS Utility Debt Securitization Auth	Restructuring Bonds Series 2022T	53.59	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Public Power
9/19/2022	New Bedford City-Massachusetts	GO State Qualified Muni Purp Loan Series of 2022	41.12	Competitive Bid	Sole Manager	NR,NR,NR	AA/AA/AA	NR,NR,NR	General Purpose/ Public Imp
9/22/2022	Maine State Housing Authority	Mortgage Purchase Bonds 2022 Series F	60.00	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing
9/28/2022	Clark Co Public Utility Dt #1	Electric System Rev & Ref Bonds Series 2022	52.87	Negotiated Bid	Sole Manager	Aa3	A+	AA	Public Power
9/28/2022	Clark Co Public Utility Dt #1	Generating System Rev Bonds Series 2022	28.80	Negotiated Bid	Sole Manager	Aa3	A+	AA	Water & Sewer Facilities
9/29/2022	San Diego Co (South Bay) USD	General Obligation Bonds Series C	7.08	Negotiated Bid	Sole Manager	A1	NR	NR	Primary & Secondary Education
9/29/2022	San Diego Co (South Bay) USD	General Obligation CABs Series C	4.32	Negotiated Bid	Sole Manager	A1	NR	NR	Primary & Secondary Education
9/29/2022	Lower Colorado River Authority (LCRA)	Transmission Contract Ref Bonds Series 2022A	194.22	Negotiated Bid	Co-Manager	NR	A	A+	Public Power
10/5/2022	New York City-New York Sub B-1	General Obligation Bonds Fis2023 SerB	950.00	Negotiated Bid	Co-Manager	Aa2	AA	AA-	General Purpose/ Public Imp
10/5/2022	Spokane Co-Washington	Limited Tax GO Bonds Series 2022A	14.57	Negotiated Bid	Sole Manager	Aa1	AA+	NR	General Purpose/ Public Imp
10/5/2022	Spokane Co-Washington	Limited Tax GO Bonds Series 2022B	15.05	Negotiated Bid	Sole Manager	Aa1	AA+	NR	General Purpose/ Public Imp
10/5/2022	New York City-New York Sub B-2	General Obligation Bonds Fis2023 SerB	400.00	Negotiated Bid	Co-Manager	Aa2	AA	AA-	Multi Family Housing
10/12/2022	New Jersey Turnpike Authority	Turnpike Revenue Bonds Series 2022 B	700.00	Negotiated Bid	Co-Manager	A1	AA-	A+	Toll Roads, Highways & Streets
10/13/2022	Bergen Co-New Jersey	BANs	36.45	Competitive Bid	Sole Manager	NR	NR	NR	General Purpose/ Public Imp
10/13/2022	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Finance Prog Bonds Ser D Sub D-1	25.17	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing
10/13/2022	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Finance Prog Bonds Ser D Sub D-2	30.03	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing
10/18/2022	Virginia Public School Authority	School Financial Bonds Series 2022B	99.92	Competitive Bid	Sole Manager	Aa1/Aa1;Aa1	AA+/AA+/AA+	AA+/AA+/AA+	Primary & Secondary Education
10/18/2022	Spotsylvania Co-Virginia	Water and Sewer Sys Rev Bonds Series 2022	65.32	Competitive Bid	Sole Manager	Aa2	AA	AA+	Water & Sewer Facilities
10/19/2022	New Jersey Econ Dev Auth	Transportation Project Bonds 2022 Series A	581.12	Negotiated Bid	Lead Manager	A3	BBB+	A-	Bridges
10/19/2022	Wisconsin	GO Refunding Bonds Series 4 of 2022	257.09	Negotiated Bid	Co-Manager	Aa1	AA+	AAA	General Purpose/ Public Imp
10/19/2022	Wisconsin	GO Refunding Bonds Series 5 of 2022	20.59	Negotiated Bid	Co-Manager	Aa1	AA+	NR	General Purpose/ Public Imp
10/19/2022	Massachusetts Housing Fin Agcy	Housing Bonds 2022 Series C-1	65.47	Negotiated Bid	Co-Manager	Aa2	AA+	NR	Single Family Housing
10/19/2022	Massachusetts Housing Fin Agcy	Housing Bonds 2022 Series C-3	73.61	Negotiated Bid	Co-Manager	Aa2	AA+	NR	Single Family Housing
10/21/2022	Rhode Island Hsg & Mtg Fin Corp	Homeownership Opportunity Bonds Series 78-T	15.00	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing
10/21/2022	Rhode Island Hsg & Mtg Fin Corp	Homeownership Opportunity Bonds Series 78-A	113.41	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing
10/25/2022	Peralta Community College Dt	GO & Refunding Bonds 2022 Series & B	151.80	Negotiated Bid	Lead Manager	NR,NR	AA-/AA-	AA-/AA-	Higher Education
10/25/2022	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds Series 225	78.86	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing
10/27/2022	Triborough Bridge & Tunnel Auth	Payroll Mobility Tax & Ref Bonds Series 2022E-2B	300.32	Negotiated Bid	Co-Manager	NR	AA+	AA+	Bridges
10/27/2022	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds Fis 2023 Sub D-1	950.00	Negotiated Bid	Co-Manager	Aa1	AAA	AAA	General Purpose/ Public Imp
10/27/2022	Triborough Bridge & Tunnel Auth	Payroll Mobility Tax & Ref Bonds Series 2022E-1,2B	300.32	Negotiated Bid	Co-Manager	NR,NR	AA+/AA+	AA+/AA+	Mass Transportation
10/27/2022	Triborough Bridge & Tunnel Auth	Payroll Mobility Tax Ref Bonds Series 2022E-2A	99.56	Negotiated Bid	Co-Manager	NR	AA+	AA+	Mass Transportation
10/28/2022	Michigan St Hsg Dev Au (MSHDA)	Single Family Mortgage Rev Bonds 2022 Series D	243.92	Negotiated Bid	Lead Manager	Aa2	AA+	NR	Single Family Housing
10/28/2022	Michigan St Hsg Dev Au (MSHDA)	Single Family Mortgage Rev Bonds 2022 Series E-1	45.16	Negotiated Bid	Lead Manager;Remarketing Agent	Aa2	AA+	NR	Single Family Housing
10/28/2022	Michigan St Hsg Dev Au (MSHDA)	Single Family Mortgage Rev Bonds 2022 Series E-2	50.00	Negotiated Bid	Lead Manager;Remarketing Agent	Aa2	AA+	NR	Single Family Housing
10/28/2022	Bartow Co Development Authority	Solid Waste Disposal Facs Bonds First Series 2022	100.00	Negotiated Bid	Sole Manager;Remarketing Agent	NR	NR	NR	Solid Waste
11/1/2022	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds 2022 Series H-1&2	109.72	Negotiated Bid	Co-Manager	Aaa/Aa3	AAA/AA	NR,NR	Single Family Housing
11/1/2022	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds 2022 Series I-1&2	20.00	Negotiated Bid	Co-Manager	Aaa/Aaa	AAA/AAA	NR,NR	Single Family Housing
11/1/2022	Maine State Housing Authority	Mortgage Purchase Bonds 2022 Series G-1	36.00	Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing
11/2/2022	NYS Environmental Facs Corp	Revolving Funds Revenue Bonds Series 2022 B	326.78	Negotiated Bid	Co-Manager	Aaa	AAA	AAA	General Purpose/ Public Imp
11/3/2022	Denver City and Co-Colorado	Airport System Revenue Bonds Series 2022C	349.18	Negotiated Bid	Lead Manager	Aa3	AA-	AA-	Airports
11/3/2022	Denver City and Co-Colorado	Airport System Revenue Bonds Series 2022D	817.81	Negotiated Bid	Lead Manager	Aa3	AA-	AA-	Airports
11/3/2022	Wisconsin Public Finance Auth	Project Revenue Bonds Series 2022A-1	211.87	Negotiated Bid	Sole Manager	Baa2	NR	NR	Higher Education
11/3/2022	Wisconsin Public Finance Auth	Project Revenue Bonds Series 2022A-2	0.34	Negotiated Bid	Sole Manager	Baa2	NR	NR	Higher Education
11/8/2022	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds 2022 Series J	4.34	Negotiated Bid	Lead Manager	Aaa	AAA	NR	Single Family Housing
11/8/2022	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds 2022 Series K	35.66	Negotiated Bid	Lead Manager	Aaa	AAA	NR	Single Family Housing
11/8/2022	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds 2022 Series L-1	26.47	Negotiated Bid	Lead Manager	Aaa	AAA	NR	Single Family Housing
11/8/2022	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds 2022 Series L-2	33.53	Negotiated Bid	Sole Manager;Remarketing Agent;Tender Agent	Aa2	AA+	NR	Single Family Housing
11/9/2022	SC Pub Svc Au (Santee Cooper)	Revenue Imp & Ref Bonds 2022 Series C&E	426.64	Negotiated Bid	Lead Manager	A3,A3,A3,A3,A3	A-/A-/A-/A-/A-/A-	A-/A-/A-/A-/A-/A-	Public Power
11/9/2022	SC Pub Svc Au (Santee Cooper)	Revenue Imp & Ref Bonds 2022 Series D&F	194.85	Negotiated Bid	Lead Manager	A3,A3,A3,A3	A-/A-/A-/A-	A-/A-/A-/A-	Public Power
11/16/2022	Santa Clara Valley Water Dt	Safe Clean Water Prog Ref Bonds Series 2022A	75.30	Negotiated Bid	Co-Manager	Aa1	NR	AA+	Pollution Control
11/16/2022	Santa Clara Valley Water Dt	Safe Clean Water Prog Bonds Series 2022B	46.45	Negotiated Bid	Co-Manager	Aa1	NR	AA+	Pollution Control
11/16/2022	Duval Co School Board	Certificates of Participation Series 2022A	561.46	Negotiated Bid	Co-Manager	NR,NR	A+/A+	A+/A+	Primary & Secondary Education
11/17/2022	Indianapolis Loc Pub Imp Bond Bank	Revenue Bonds Series 2022I	11.50	Negotiated Bid	Sole Manager	Aaa	NR	NR	General Purpose/ Public Imp
11/17/2022	Indianapolis Loc Pub Imp Bond Bank	Revenue Bonds Series 2022J	12.00	Negotiated Bid	Sole Manager	Aaa	NR	NR	General Purpose/ Public Imp
11/17/2022	Mississippi Business Fin Corp	Exempt Facs Revenue Bonds Series 2022	100.00	Negotiated Bid	Co-Manager	B1	B+	BB-	General Purpose/ Public Imp
11/17/2022	California Municipal Fin Auth	Revenue Bonds Series 2022	132.90	Negotiated Bid	Lead Manager	A3	NR	NR	Higher Education
11/17/2022	Missouri Joint Municipal Electric Utility Comm	Power Supply Sys Rev Bonds Series 2022	43.69	Negotiated Bid	Co-Manager	A2	NR	A	Public Power

8/16/2023

3/3/2023	Michigan St Hsg Dev Au (MSHDA)	Rental Housing Revenue Bonds 2023 Series B	17.91	Negotiated Bid	Co-Manager	NR	AA+	NR	Multi Family Housing	5.27
3/8/2023	California	Various Purpose GO Bonds	1,804.06	Negotiated Bid	Co-Manager	Aa2	AA-	AA	General Purpose/ Public Imp	2.27
3/9/2023	Texas Natural Gas Sec Fin Corp	Customer Rate Relief Bonds Series 2023	3,521.75	Negotiated Bid	Co-Manager	Aaa/Aaa	NR,NR	AAA,AAA	Gas	3.84
3/9/2023	NYC Municipal Water Fin Auth	Wtr&Swr Sys 2nd Gen Rev Rev Bonds 2023 Series DD	1,293.00	Negotiated Bid	Co-Manager	Aa1	AA+	AA+	Water & Sewer Facilities	4.72
3/15/2023	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds Fis 2023 Series F&F1	950.00	Negotiated Bid	Co-Manager	Aa1	AAA	AAA	General Purpose/ Public Imp	5.00
3/15/2023	NYS Housing Fin-Mortgage Agcy	Homeowner Mtg Rev Bonds Series 250	115.86	Negotiated Bid	Co-Manager	Aa1	NR	NR	Single Family Housing	
3/15/2023	NYS Housing Fin-Mortgage Agcy	Homeowner Mtg Rev Bonds Series 251	34.15	Negotiated Bid	Co-Manager	Aa1	NR	NR	Single Family Housing	
3/16/2023	Massachusetts Bay Transport Auth	Senior Sales Tax Bonds 2023 Subseries A-1	509.66	Negotiated Bid	Lead Manager	NR	AA	AAA	Mass Transportation	2.48
3/16/2023	Massachusetts Bay Transport Auth	Senior Sales Tax Bonds 2023 Subseries A-2	108.01	Negotiated Bid	Lead Manager	NR	AA	AAA	Mass Transportation	0.53
3/17/2023	Idaho Housing & Fin Assoc	Single Family Mortgage Bonds Series 2023 B-1	49.61	Negotiated Bid	Lead Manager	Aa1	NR	NR	Single Family Housing	
3/17/2023	Idaho Housing & Fin Assoc	Single Family Mortgage Bonds Series 2023 A	80.29	Negotiated Bid	Lead Manager	Aa1	NR	NR	Single Family Housing	
3/22/2023	NYS Housing Fin-Mortgage Agcy	Affordable Housing Revenue Bonds 2023 Series A-1	111.20	Negotiated Bid	Co-Manager	Aa2	NR	NR	Single Family Housing	
3/22/2023	NYS Housing Fin-Mortgage Agcy	Affordable Housing Revenue Bonds 2023 Series A-2	86.20	Negotiated Bid	Co-Manager	Aa2	NR	NR	Single Family Housing	0.79
3/22/2023	NYS Housing Fin-Mortgage Agcy	Affordable Housing Revenue Bonds 2023 Series A-2	144.72	Negotiated Bid	Co-Manager	Aa2/Aa2	NR,NR	NR,NR	Single Family Housing	1.33
3/22/2023	NYS Housing Fin-Mortgage Agcy	Affordable Housing Revenue Bonds 2023 Series B-1	34.88	Negotiated Bid	Co-Manager	Aa2	NR	NR	Single Family Housing	0.32
3/22/2023	NYS Housing Fin-Mortgage Agcy	Affordable Housing Revenue Bonds 2023 Series B-2	125.73	Negotiated Bid	Co-Manager	Aa2	NR	NR	Single Family Housing	1.15
3/30/2023	New York City-New York	General Obligation Bonds Fis 2023 Series E	950.00	Negotiated Bid	Co-Manager	Aa2	AA	AA	General Purpose/ Public Imp	
3/30/2023	Michigan St Hsg Dev Au (MSHDA)	Single Family Mortgage Rev Bonds Series 2023 A	314.87	Negotiated Bid	Lead Manager	Aa2	AA+	NR	Single Family Housing	7.01
4/4/2023	Pennsylvania Econ Dev Fin Auth	UPMC Revenue Bonds Series 2023B	89.28	Negotiated Bid	Lead Manager	A2	A	A	Economic Development	
4/4/2023	Monroeville Finance Authority	UPMC Revenue Bonds Series 2023C	36.82	Negotiated Bid	Co-Manager	A2	A	A	General Acute Care Hospital	
4/4/2023	Pennsylvania Econ Dev Fin Auth	UPMC Revenue Bonds Series 2023 A	200.00	Negotiated Bid	Co-Manager	A2	A	A	General Acute Care Hospital	2.44
4/4/2023	Pennsylvania Econ Dev Fin Auth	UPMC Revenue Bonds Series 2023 A	245.23	Negotiated Bid	Co-Manager	A2	A	A	General Acute Care Hospital	2.30
4/4/2023	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds 2023 Series F-1 & G	108.98	Negotiated Bid	Co-Manager	Aaa/Aaa/Aaa	AAA,AAA,AAA	NR,NR,NR	Single Family Housing	4.72
4/4/2023	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds 2023 Series F-1	45.87	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	1.99
4/5/2023	California	Various Purpose GO & Ref Bonds Series 2023	2,552.72	Negotiated Bid	Co-Manager	Aa2/Aa2	AA-,AA-	AA-,AA	General Purpose/ Public Imp	2.31
4/5/2023	Colorado Hsg & Fin Auth (CHFA)	Multi-Family/Project Bonds 2023 Series A	16.08	Negotiated Bid	Lead Manager	Aaa	AAA	NR	Multi Family Housing	
4/5/2023	Idaho Housing & Fin Assoc	Single Family Mortgage Bonds 2023 Series B-2	25.61	Negotiated Bid	Sole Manager;Remarketing Agent	Aa1	NR	NR	Single Family Housing	
4/7/2023	Kansas City-Missouri	Special Obligation Bonds Series 2023A&B	62.72	Negotiated Bid	Lead Manager	A1/A2	AA-,AA-	NR,NR	General Purpose/ Public Imp	
4/11/2023	San Diego Co (South Bay) USD	Refunding GO Bonds 2023 Series	10.16	Negotiated Bid	Sole Manager	NR	A+	NR	Primary & Secondary Education	
4/12/2023	Idaho Housing & Fin Assoc	Sales Tax Rev Bonds Series 2023A	349.69	Negotiated Bid	Co-Manager	Aa1	NR	AA+	Toll Roads, Highways & Streets	5.35
4/18/2023	Bay Area Toll Authority (BATA)	Bridge Revenue Bonds 2023 Series F-1	391.06	Negotiated Bid	Co-Manager	Aa3/Aa3/Aa3	AA,AA,AA	AA,AA,AA	Bridges	2.67
4/19/2023	Austin City-Texas	Elec Util Sys Rev Ref & Imp Bonds Series 2023	417.62	Negotiated Bid	Lead Manager	Aa3	AA-	AA-	Public Power	3.53
4/19/2023	Maine State Housing Authority	Mortgage Purchase Bonds 2023 Series C	57.36	Negotiated Bid	Lead Manager	Aa1	AA+	NR	Single Family Housing	
4/19/2023	Massachusetts Wtr Resources Auth	General Rev & Ref Bonds 2023 Series B&C	234.32	Negotiated Bid	Co-Manager	Aa1/Aa1	AA+,AA+	AA+,AA+	Water & Sewer Facilities	
4/20/2023	Ohio State University	General Receipts Bonds Series 2023 A-1	164.41	Negotiated Bid	Sole Manager;Remarketing Agent	NR	AA	AA+	Higher Education	
4/20/2023	New Jersey Econ Dev Auth SSS	School Construction Ref Bonds 2024 Series SSS	281.67	Negotiated Bid	Lead Manager	A2	A-	A	Primary & Secondary Education	3.16
4/20/2023	New Jersey Econ Dev Auth	School Facs Cons Ref Bonds Series 2023 RRR	797.67	Negotiated Bid	Lead Manager	A2	A-	A	Primary & Secondary Education	3.29
4/26/2023	NYS Environmental Facs Corp	Revenue Bonds Series 2023A	150.96	Negotiated Bid	Co-Manager	Aaa	AAA	AAA	General Purpose/ Public Imp	
5/9/2023	Dallas City-Texas	GO Refunding & Imp Bonds Series 2023 & A	436.32	Negotiated Bid	Co-Manager	NR,NR	AA-,AA-	AA,AA	General Purpose/ Public Imp	1.93
5/9/2023	Lower Colorado River Authority (LCRA)	Transmission Contract Ref Bonds Series 2023A	472.57	Negotiated Bid	Lead Manager	NR,NR	A,A	A+,A+	General Purpose/ Public Imp	2.73
5/10/2023	West Virginia Hospital Fin Auth	Hospital Revenue Imp Bonds 2023 Series A	285.93	Negotiated Bid	Co-Manager	A2	A	NR	General Acute Care Hospital	
5/11/2023	Arkansas Development Fin Auth	Environmental Imp Rev Bonds Series 2023	240.00	Negotiated Bid	Co-Manager	NR	BB-	BB	General Purpose/ Public Imp	5.00
5/16/2023	Phoenix City Civic Imp Corp	Senior Lien Airport Rev Ref Bonds Series 2023	96.54	Negotiated Bid	Lead Manager	Aa2	AA-	NR	Airports	
5/23/2023	Houston City-Texas	Combined Utility Sys CP Notes Series B-7	100.00	Negotiated Bid	Lead Manager;Remarketing Agent	NR	NR	NR	Combined Utilities	
5/24/2023	Metro Washington Airports Auth	Airport Sys Rev & Ref Bonds Series 2023 A	436.23	Negotiated Bid	Lead Manager	Aa3	AA-	AA-	Airports	2.63
5/24/2023	San Antonio City-Texas	Electric & Gas Sys Rev Ref Bonds Series 2023	100.34	Negotiated Bid	Sole Manager;Remarketing Agent	Aa3	A+	AA-	Combined Utilities	
5/24/2023	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds Series 2023-142A	388.91	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	6.29
5/24/2023	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds Series 2023-14B	5.07	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
5/25/2023	New Jersey Trans Trust Fund Au	Transportation Program Bonds 2023 Series AA	692.91	Negotiated Bid	Co-Manager	A2	A-	A	Mass Transportation	3.18
6/1/2023	New York City-New York	General Obligation Bonds 2023 Series F	150.70	Negotiated Bid	Co-Manager	Aa2	AA	AA	General Purpose/ Public Imp	4.21
6/1/2023	New York City-New York	General Obligation Bonds 2023 Series F&G&1	1,409.18	Negotiated Bid	Co-Manager	Aa2/Aa2/Aa2	AA,AA,AA	AA,AA,AA	General Purpose/ Public Imp	
6/1/2023	New Jersey Hsg & Mtg Fin Agency	Multi-Family Housing Rev Bonds 2023 Series C	58.24	Negotiated Bid	Lead Manager	NR	AA-	NR	Multi Family Housing	
6/1/2023	New Jersey Hsg & Mtg Fin Agency	Multi-Family Housing Rev Bonds 2023 Series A&B	45.86	Negotiated Bid	Lead Manager	NR,NR	AA-,AA-	NR,NR	Multi Family Housing	
6/1/2023	New Jersey Hsg & Mtg Fin Agency	Multi-Family Housing Rev Bonds 2023 Series D	29.85	Negotiated Bid	Lead Manager	NR	AA-	NR	Multi Family Housing	
6/2/2023	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds 2023 Series H	4.72	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
6/2/2023	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds 2023 Series J	75.00	Negotiated Bid	Co-Manager	Aaa/Aaa/Aaa/Aaa/Aaa	AAA,AAA,AAA,AAA,AAA	NR,NR,NR,NR,NR	Single Family Housing	
6/2/2023	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds 2023 Series I	45.29	Negotiated Bid	Co-Manager	Aa3	AA	NR	Single Family Housing	
6/6/2023	Sacramento MUD (SMUD)	Sub Electric Rev Ref Bonds 2023 Series D	100.00	Negotiated Bid	Lead Manager;Remarketing Agent	NR	AA-	AA	Public Power	
6/6/2023	Sacramento MUD (SMUD)	Electric Revenue Bonds 2023 Series K	200.00	Negotiated Bid	Co-Manager	NR	AA	AA	Public Power	
6/6/2023	Sacramento MUD (SMUD)	Electric Revenue Ref Bonds 2023 Series L	61.12	Negotiated Bid	Lead Manager	NR	AA	AA	Public Power	2.37
6/6/2023	Texas Dept of Hsg & Comm Affairs	Single Family Mortgage Rev Bonds Series 2023B	50.00	Negotiated Bid	Lead Manager	Aaa	AA+	NR	Single Family Housing	
6/6/2023	Texas Dept of Hsg & Comm Affairs	Single Family Mortgage Rev Bonds Series 2023A	200.00	Negotiated Bid	Lead Manager	Aaa	AA+	NR	Single Family Housing	6.95
6/6/2023	So California Metro Water Dt	Water Rev and Ref Bonds 2023 Series A	258.41	Negotiated Bid	Co-Manager	Aa1	AAA	NR	Water & Sewer Facilities	2.03
6/7/2023	Lower Colorado River Authority (LCRA)	Refunding Revenue Bonds Series 2023A	29.44	Negotiated Bid	Sole Manager	NR	A	AA-	General Purpose/ Public Imp	
6/7/2023	Lower Colorado River Authority (LCRA)	Refunding Revenue Bonds Series 2023B	107.93	Negotiated Bid	Sole Manager;Remarketing Agent	NR	A	AA-	General Purpose/ Public Imp	
6/9/2023	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds 2023 Series A-1	172.86	Negotiated Bid	Lead Manager	Aa2	AA+	NR	Multi Family Housing	1.60

6/9/2023	NYC Housing Dev Corp (CHFA)	Multi-Family Housing Rev Bonds 2023 Series A-1	419.87	Negotiated Bid	Lead Manager;Remarketing Agent	Aa2/Aa2	AA+;AA+	NR;NR	Multi Family Housing	4.28
6/13/2023	Sacramento MUD (SMUD)	Sub Electric Rev Ref Bonds Series 2023 C	132.02	Negotiated Bid	Sole Manager;Remarketing Agent	NR	AA	AA-	Public Power	
6/13/2023	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds 2023 Series K-1	159.99	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
6/15/2023	Los Angeles Dept Wtr & Pwr (LADWP)	Power System Demand Rev Bonds 2023 Series C-1 & 2	350.00	Negotiated Bid	Lead Manager;Remarketing Agent	Aa2/Aa2	AA+;AA-	AA+;AA-	Public Power	0.83
6/21/2023	Pennsylvania State University	Bonds Series 2023	203.99	Negotiated Bid	Lead Manager	Aa1	AA	NR	Higher Education	2.90
6/21/2023	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Project Bonds 2023 Series B-1	9.41	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Multi Family Housing	
6/21/2023	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Project Bonds 2023 Series B-2	9.30	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Multi Family Housing	
6/21/2023	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Project Bonds 2023 Series C	3.90	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Multi Family Housing	
6/22/2023	University of South Carolina	Higher Education Rev Ref Bonds Series 2023	20.02	Negotiated Bid	Sole Manager	Aa2	NR	AA	Higher Education	
6/22/2023	NYC Housing Dev Corp	Housing Impact Bonds 2023 Series A	290.73	Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	
6/22/2023	NYC Housing Dev Corp	Housing Impact Bonds 2023 Series A	29.58	Negotiated Bid	Co-Manager	Aa2	NR	NR	Multi Family Housing	0.66
6/27/2023	San Diego Co (San Ysidro) SD	General Obligation Bonds Series B	15.00	Negotiated Bid	Sole Manager	A3	NR	NR	Primary & Secondary Education	
6/27/2023	San Diego Co (San Ysidro) SD	General Obligation Bonds Series B	15.00	Negotiated Bid	Sole Manager	A3	NR	NR	Primary & Secondary Education	
6/28/2023	Triborough Bridge & Tunnel Auth	Payroll Mobility Tx Sr Ln Bonds Series 2023B	175.02	Negotiated Bid	Co-Manager	NR	AA+	AA+	Bridges	
6/28/2023	Triborough Bridge & Tunnel Auth	Payroll Mobility Tx Sr Ln Bonds Series 2023B	212.49	Negotiated Bid	Co-Manager	NR	AA+	AA+	Bridges	
6/28/2023	Triborough Bridge & Tunnel Auth	Payroll Mobility Tx Sr Ln Bonds Series 2023B	212.50	Negotiated Bid	Co-Manager	NR	AA+	AA+	Bridges	
6/28/2023	Massachusetts	GO Cons Loan & Refunding Bonds 2023 Series A&B	1,240.96	Negotiated Bid	Co-Manager	Aa1/Aa1	AA+;AA+	AA+;AA+	General Purpose/ Public Imp	
6/28/2023	Los Angeles Dept Wtr & Pwr (LADWP)	Power Sys Demand Rev Bonds 2023 Ser Sub C-1	200.00	Negotiated Bid	Sole Manager;Remarketing Agent	Aa2	AA-	AA-	Public Power	
6/29/2023	Houston City-Texas	Airport System Rev & Ref Bonds Series 2023A	647.87	Negotiated Bid	Co-Manager	A1	NR	A+	Airports	
6/29/2023	Houston City-Texas	Airport System Rev & Ref Bonds Series 2023B	108.19	Negotiated Bid	Co-Manager	A1	NR	A+	Airports	
6/29/2023	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds Series 254	30.00	Negotiated Bid	Co-Manager	Aa1	NR	NR	Single Family Housing	
6/29/2023	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds Series 252	62.79	Negotiated Bid	Co-Manager	Aa1	NR	NR	Single Family Housing	
6/29/2023	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds Series 253	32.22	Negotiated Bid	Co-Manager	Aa1	NR	NR	Single Family Housing	
7/12/2023	Michigan State Building Auth	Multi-Modal Revenue Bonds 2023 Series I	113.85	Negotiated Bid	Sole Manager;Remarketing Agent	Aa2	NR	AA	Government Buildings	
7/12/2023	Colorado	Educ Loan Prog Tax & RANs Series 2023A	500.00	Competitive Bid	Lead Manager	NR;NR	NR;NR	NR;NR	Student Loans	
7/14/2023	Maine State Housing Authority	Mortgage Purchase Bonds 2023 Series D	45.00	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
7/18/2023	Michigan State Building Auth	Revenue Refunding Bonds 2023 Series II	280.99	Negotiated Bid	Lead Manager	Aa2	AA-	AA	Government Buildings	
7/19/2023	Salt Lake City-Utah	Airport Revenue Bonds Series 2023 A	600.00	Negotiated Bid	Co-Manager	A2	A+	NR	Airports	
7/19/2023	California State Univ Trustees	Systemwide Revenue Bonds Series 2023A	337.16	Negotiated Bid	Lead Manager	Aa2	AA-	NR	Higher Education	
7/19/2023	California State Univ Trustees	Systemwide Revenue Bonds Series 2023B	462.20	Negotiated Bid	Lead Manager	Aa2	AA-	NR	Higher Education	
7/20/2023	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds 2024 Series A-1	950.00	Negotiated Bid	Co-Manager	Aa1	AAA	AAA	General Purpose/ Public Imp	
7/20/2023	Massachusetts Dev Finance Agcy	Revenue Bonds Series N 2023	31.86	Negotiated Bid	Sole Manager	Baa2	BBB-	NR	Higher Education	
7/20/2023	Rhode Island Hsg & Mtg Fin Corp	Homeownership Opp Bonds Series 80-T-1	85.29	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
7/20/2023	Rhode Island Hsg & Mtg Fin Corp	Homeownership Opportunity Bonds Series 80-A	75.00	Negotiated Bid	Co-Manager	Aa1	AA+	NR	Single Family Housing	
8/1/2023	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds 2023 Series L	50.00	Negotiated Bid	Co-Manager	Aa3	AA	NR	Single Family Housing	
8/1/2023	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds 2023 Series M-1	62.50	Negotiated Bid	Co-Manager	Aaa	AAA	NR	Single Family Housing	
8/1/2023	Grand Parkway Transport Corp	Toll Rev Ref Put Bonds Series 2023	263.23	Negotiated Bid	Lead Manager;Remarketing Agent	Aa1	NR	AA	Toll Roads, Highways & Streets	
8/2/2023	Long Island Power Authority	Electric System Gen Rev Bonds Series 2023E	400.00	Negotiated Bid	Co-Manager	A2/A2	A;A	A;A	Public Power	
8/2/2023	Long Island Power Authority	Electric System Gen Rev Bonds Series 2023F	179.31	Negotiated Bid	Co-Manager	A2	A	A	Public Power	
8/2/2023	San Antonio City-Texas	Water Sys Jr Ln Rev&Ref Bonds Series 2023A	289.17	Negotiated Bid	Lead Manager	Aa2	AA+	AA	Water & Sewer Facilities	
8/3/2023	NYS Dorm Authority	State Sales Tax Revenue Bonds Series 2023B	61.29	Negotiated Bid	Co-Manager	Aa1	AA+	NR	General Purpose/ Public Imp	
8/3/2023	NYS Dorm Authority	State Sales Tax Revenue Bonds Series 2023A-1&2	1,303.43	Negotiated Bid	Co-Manager	Aa1/Aa1	AA+;AA+	NR;NR	General Purpose/ Public Imp	
8/3/2023	NYS Dorm Authority	State Sales Tax Revenue Bonds Series 2023A-1&2	379.76	Negotiated Bid	Co-Manager	Aa1/Aa1	AA+;AA+	NR;NR	General Purpose/ Public Imp	
8/4/2023	New Hampshire National Fin Auth	Revenue Bonds Series 2023A	27.90	Negotiated Bid	Co-Manager	NR	NR	BBB+	Assisted Living	
8/4/2023	Pennsylvania Econ Dev Fin Auth	Presbyterian Sr Living Rev Bonds Series 2023B-1&2	131.81	Negotiated Bid	Co-Manager	NR;NR	NR;NR	BBB+;BBB+	Cont Care Retirement Community	
8/8/2023	Massachusetts Dev Finance Agcy	Refunding Revenue Bonds Series 2023 F	46.22	Negotiated Bid	Sole Manager	A2	A	NR	Higher Education	

*Note: Due to the very large number of transactions for which Barclays has served as senior or co-manager within the past 5 years, we are unable to guarantee the accuracy of true interest cost (TIC) data derived from publicly available resources. We would be pleased to provide TIC information for specific transactions upon the County's request.

Summary		
Type of Debt	Number of Issues	Par (\$ m ons)
Airport	85	28,867
Port	5	1,456
Water and Sewer	109	26,957
Convention Center / Convention Center Hotel	5	486
General Obligation	284	138,230
Certificate of Participation	6	821
Special Obligation	8	2,240
Sports Facilities	0	0

Appendix C: Vender Reference Verification Forms

VENDOR REFERENCE VERIFICATION FORM

GEN2126726Q1 Library of Bond Underwriters				
Reference For (hereinafter, "Vendor"):	Barclays			
Reference Date:	August 7, 2023			
Organization/Firm Providing Reference:	City and County of Denver / Denver Intl Airport			
Contact Name:	Mike Nakornkhet			
Contract Title:	EVP / Chief Financial Officer			
Contact Email:	Mike.Nakornkhet@flydenver.com			
Contact Phone:	(720) 882-7991			
Name of Referenced Project:	\$1.2 Billion Airport System Revenue Bonds, Series 2022C/D			
Contract Number:				
Date Range of Services Provide:	Start Date: September 2022	End Date: November 2022		
Project Amount:	\$1,166,990,000			
Vendor's Role in Project:	<input checked="" type="checkbox"/> Prime	<input type="checkbox"/> Subconsultant/Subcontractor		
Would you use this Vendor again?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
If you answered no to the question above, please specify below: (attach additional sheet if needed)				
Description of services provided by Vendor, please specify below: (attach additional sheet if needed)				
Senior managing underwriter for general airport revenue bonds				
Please rate your experience with the referenced Vendor via checkbox:	Needs Improvement	Satisfactory	Excellent	Not Applicable
Vendor's Quality of Service:				
Responsive:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Accuracy:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Deliverables:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Vendor's Organization:				
Staff Expertise:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Professionalism:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Turnover:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Timeliness of:				
Project:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Deliverables:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Project completed within budget:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cooperation with:				
Your Firm:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Subcontractor(s)/Subconsultant(s):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Regulatory Agency(ies):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
All information provided to Broward County is subject to verification. Vendor acknowledges that inaccurate, untruthful, or incorrect statements made in support of this response may be used by the County as a basis for rejection, rescission of the award, or termination of the contract and may also serve as the basis for debarment of Vendor pursuant to the Broward County Procurement Code.				
THE SECTION BELOW IS FOR COUNTY USE ONLY				
Verified via: <input type="checkbox"/> Email <input type="checkbox"/> Verbal	Verified by:	Division:		
		Date:		

VENDOR REFERENCE VERIFICATION FORM

GEN2126726Q1 Library of Bond Underwriters				
Reference For (hereinafter, "Vendor"):	Barclays			
Reference Date:	August 7, 2023			
Organization/Firm Providing Reference:	City and County of Denver / Denver Intl Airport			
Contact Name:	Mike Nakornkhet			
Contract Title:	EVP / Chief Financial Officer			
Contact Email:	Mike.Nakornkhet@flydenver.com			
Contact Phone:	(720) 882-7991			
Name of Referenced Project:	\$1.2 Billion Airport System Revenue Bonds, Series 2022C/D			
Contract Number:				
Date Range of Services Provide:	Start Date: September 2022	End Date: November 2022		
Project Amount:	\$1,166,990,000			
Vendor's Role in Project:	<input checked="" type="checkbox"/> Prime	<input type="checkbox"/> Subconsultant/Subcontractor		
Would you use this Vendor again?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
If you answered no to the question above, please specify below: (attach additional sheet if needed)				
Description of services provided by Vendor, please specify below: (attach additional sheet if needed)				
Senior managing underwriter for general airport revenue bonds				
Please rate your experience with the referenced Vendor via checkbox:	Needs Improvement	Satisfactory	Excellent	Not Applicable
Vendor's Quality of Service:				
Responsive:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Accuracy:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Deliverables:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Vendor's Organization:				
Staff Expertise:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Professionalism:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Turnover:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Timeliness of:				
Project:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Deliverables:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Project completed within budget:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cooperation with:				
Your Firm:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Subcontractor(s)/Subconsultant(s):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Regulatory Agency(ies):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
All information provided to Broward County is subject to verification. Vendor acknowledges that inaccurate, untruthful, or incorrect statements made in support of this response may be used by the County as a basis for rejection, rescission of the award, or termination of the contract and may also serve as the basis for debarment of Vendor pursuant to the Broward County Procurement Code.				
THE SECTION BELOW IS FOR COUNTY USE ONLY				
Verified via: <input type="checkbox"/> Email <input type="checkbox"/> Verbal	Verified by:	Division:		
		Date:		



VENDOR REFERENCE VERIFICATION FORM

GEN2126726Q1 Library of Bond Underwriters				
Reference For (hereinafter, "Vendor"):	Puerto Rico Aqueduct and Sewer Authority			
Reference Date:	Dec 2020 & Aug 2021 & Jun 2022			
Organization/Firm Providing Reference:				
Contact Name:	Omar Rivera Rolon			
Contract Title:	Chief Financial Officer			
Contact Email:	omar.rivera @ acueductos.pr.com			
Contact Phone:	787-620-2277 x.2144			
Name of Referenced Project:	2020, 2021, 2022 Revenue Bonds			
Contract Number:	N/A			
Date Range of Services Provide:	Start Date:	JUNE 2020		End Date: JUNE 2022
Project Amount:	\$3.02 billions			
Vendor's Role in Project:	<input checked="" type="checkbox"/> Prime	<input type="checkbox"/> Subconsultant/Subcontractor		
Would you use this Vendor again?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
If you answered no to the question above, please specify below: (attach additional sheet if needed)				
Description of services provided by Vendor, please specify below: (attach additional sheet if needed)				
Lead Underwriter under the above mentioned transactions				
Please rate your experience with the referenced Vendor via checkbox:	Needs Improvement	Satisfactory	Excellent	Not Applicable
Vendor's Quality of Service:				
Responsive:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Accuracy:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Deliverables:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vendor's Organization:				
Staff Expertise:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Professionalism:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Turnover:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Timeliness of:				
Project:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Deliverables:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Project completed within budget:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cooperation with:				
Your Firm:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Subcontractor(s)/Subconsultant(s):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Regulatory Agency(ies):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All information provided to Broward County is subject to verification. Vendor acknowledges that inaccurate, untruthful, or incorrect statements made in support of this response may be used by the County as a basis for rejection, rescission of the award, or termination of the contract and may also serve as the basis for debarment of Vendor pursuant to the Broward County Procurement Code.				
THE SECTION BELOW IS FOR COUNTY USE ONLY				
Verified via: <input type="checkbox"/> Email	Verified by:		Division:	
<input type="checkbox"/> Verbal			Date:	

Supplier: **Barclays Bank US**

Standard Instructions to Vendors - Request for Proposals, Request for Qualifications, or Request for Letters of Interest

Vendors are instructed to read and follow the instructions carefully, as any misinterpretation or failure to comply with instructions may lead to a Vendor's submittal being rejected.

Vendor **MUST** submit its solicitation response electronically and **MUST** confirm its submittal in Periscope S2G for the response to be deemed valid by the County. Refer to the [Purchasing Division website](#) or contact Periscope S2G for submittal instructions.

A. Responsiveness Criteria:

A Responsive (Vendor) means a vendor who submits a response to a solicitation that the Director of Purchasing determines meets all requirements of the solicitation.

The required information and applicable forms must be submitted with solicitation response, electronically through Periscope SG2 by the solicitation's due date and time. Failure to timely submit may result in Vendor being deemed non-responsive. The County reserves the right to waive minor technicalities or irregularities as is in the best interest of the County in accordance with Section 21.37(b) of the Broward County Procurement Code.

Below are standard responsiveness criteria; refer to **Special Instructions to Vendors** for Additional Responsiveness Criteria requirement(s).

1. Lobbyist Registration Requirement Certification

Refer to **Lobbyist Registration Requirement Certification Form**. The completed form should be submitted with the solicitation response. If not submitted within solicitation response, it must be submitted within three business days of County's written request. Failure to timely submit may result in Vendor being deemed non-responsive.

2. Criminal History Screening Practices Certification

Refer to **Criminal History Screening Practices Certification Form**. The completed form should be submitted with the solicitation response. If not submitted within solicitation response, it must be submitted within three business days of County's written request. Failure to timely submit may result in Vendor being deemed non-responsive.

3. Addenda

The County reserves the right to amend this solicitation prior to the due date and time specified in the solicitation. Any change(s) to this solicitation will be conveyed through the written addenda process. Only written addenda will be binding. Vendor must follow the instructions carefully and submit the required information and applicable forms, or acknowledge addendum, electronically through Periscope S2G. It is the Vendor's sole responsibility to monitor the solicitation for any changing information, prior to submitting their solicitation response.

B. Responsibility Criteria:

A Responsible (Vendor) means a vendor who is determined to have the capability in all respects to perform fully the requirements of a solicitation, as well as the integrity and reliability that will ensure good faith performance.

When making determinations of responsibility, the Director of Purchasing or the Evaluation Committee (as applicable) may request additional information from any vendor on matters that may affect a vendor's responsibility. The failure of a vendor to provide information requested by the County may result in a determination of non-responsibility. In addition, a vendor may submit information regarding its responsibility; provided, however, that such information shall not be considered if it

contradicts or materially alters the information provided by the vendor in its original response to the solicitation.

Failure to provide any of this required information and in the manner required may result in a recommendation by the Director of Purchasing that the Vendor is non-responsible.

Below are standard responsibility criteria; refer to **Special Instructions to Vendors** for Additional Responsibility Criteria requirement(s).

1. **Litigation History**

- a. All Vendors are required to disclose to the County all “material” cases filed, pending, or resolved during the last three (3) years prior to the solicitation response due date, whether such cases were brought by or against the Vendor, any parent or subsidiary of the Vendor, or any predecessor organization. Additionally, all Vendors are required to disclose to the County all “material” cases filed, pending, or resolved against any principal of Vendor, regardless of whether the principal was associated with Vendor at the time of the “material” cases against the principal, during the last three (3) years prior to the solicitation response.

A case is considered to be “material” if it relates, in whole or in part, to any of the following:

- i. A similar type of work that the vendor is seeking to perform for the County under the current solicitation;
 - ii. An allegation of fraud, negligence, error or omissions, or malpractice against the vendor or any of its principals or agents who would be performing work under the current solicitation;
 - iii. A vendor’s default, termination, suspension, failure to perform, or improper performance in connection with any contract;
 - iv. The financial condition of the vendor, including any bankruptcy petition (voluntary and involuntary) or receivership; or
 - v. A criminal proceeding or hearing concerning business-related offenses in which the vendor or its principals (including officers) were/are defendants.
- b. For each material case, the Vendor is required to provide all information identified in the **Litigation History**. Additionally, the Vendor shall provide a copy of any judgment or settlement of any material case during the last three (3) years prior to the solicitation response. Redactions of any confidential portions of the settlement agreement are only permitted upon a certification by the Vendor that all redactions are required under the express terms of a pre-existing confidentiality agreement or provision.
 - c. The County will consider a Vendor’s litigation history information in its review and determination of responsibility.
 - d. If the Vendor is a joint venture, the information provided should encompass the joint venture and each of the entities forming the joint venture.
 - e. A vendor is required to disclose to the County any and all cases(s) that exist between the County and any of the Vendor’s subcontractors/subconsultants proposed to work on this project during the last five (5) years prior to the solicitation response.
 - f. Failure to disclose any material case, including all requested information in connection with each such case, as well as failure to disclose the Vendor’s subcontractors/subconsultants litigation history against the County, may result in the Vendor being deemed non-responsive.

2. **Financial Information**

- a. All Vendors are required to submit the Vendor’s financial statements by the due date and time specified in the solicitation, in order to demonstrate the Vendor’s financial capabilities. If not submitted with solicitation response, it must be submitted within three business days of County’s written request.

- b. Each Vendor shall submit its most recent two years of financial statements for review. The financial statements are not required to be audited financial statements. The annual financial statements shall be in the form of:
 - i. Balance sheets, income statements and annual reports; or
 - ii. Tax returns; or
 - iii. SEC filings.

If tax returns are submitted, ensure it does not include any personal information (as defined under Section 501.171, Florida Statutes), such as social security numbers, bank account or credit card numbers, or any personal pin numbers. If any personal information data is part of financial statements, redact information prior to submitting a response the County.

- c. If a Vendor has been in business for less than the number of years of required financial statements, then the Vendor must disclose all years that the Vendor has been in business, including any partial year-to-date financial statements.
- d. The County may consider the unavailability of the most recent year's financial statements and whether the Vendor acted in good faith in disclosing the financial documents in its evaluation.
- e. Any claim of confidentiality on financial statements should be asserted at the time of submittal. Refer to Standard Instructions to Vendors, Confidential Material/Public Records and Exemptions for instructions on submitting confidential financial statements. The Vendor's failure to provide the information as instructed may lead to the information becoming public.
- f. Although the review of a Vendor's financial information is an issue of responsibility, the failure to either provide the financial documentation or correctly assert a confidentiality

claim pursuant the Florida Public Records Law and the solicitation requirements (Confidential Material/ Public Records and Exemptions section) may result in a recommendation of non-responsiveness by the Director of Purchasing.

3. **Authority to Conduct Business in Florida**

- a. A Vendor must have the authority to transact business in the State of Florida and be in good standing with the Florida Secretary of State. For further information, contact the Florida Department of State, Division of Corporations.
- b. The County will review the Vendor's business status based on the information submitted with the solicitation response.
- c. It is the Vendor's sole responsibility to comply with all state and local business requirements.
- d. Vendor should list its active Florida Department of State Division of Corporations Document Number (or Registration No. for fictitious names) in the **Vendor Questionnaire**, Question No. 10.
- e. If a Vendor is an out-of-state or foreign corporation or partnership, the Vendor must obtain the authority to transact business in the State of Florida or show evidence of application for the authority to transact business in the State of Florida, upon request of the County.
- f. A Vendor that is not in good standing with the Florida Secretary of State at the time of a submission to this solicitation may be deemed non-responsible.
- g. If successful in obtaining a contract award under this solicitation, the Vendor must remain in good standing throughout the contractual period of performance.

4. **Affiliated Entities of the Principal(s)**

- a. All Vendors are required to disclose the names of “affiliated entities” of the Vendor’s principal(s) over the last five (5) years (from the solicitation opening deadline) that have acted as a prime Vendor with the County. The Vendor is required to provide all information required on the **Affiliated Entities of the Principal(s) Certification** form.
- b. The County will review all affiliated entities of the Vendor’s principal(s) for contract performance evaluations and the compliance history with the County’s Small Business Program, including CBE, DBE and SBE goal attainment requirements. “Affiliated entities” of the principal(s) are those entities related to the Vendor by the sharing of stock or other means of control, including but not limited to a subsidiary, parent or sibling entity.
- c. The County will consider the contract performance evaluations and the compliance history of the affiliated entities of the Vendor’s principals in its review and determination of responsibility.

5. Insurance Requirements

The **Insurance Requirement Form** reflects the insurance requirements deemed necessary for this project. While it is not necessary to have this level of insurance in effect at the time of solicitation response, all Vendors are required to either submit insurance certificates indicating that the Vendor currently carries the level insurance coverages or submit a letter from the insurance carrier indicating Vendor can obtain the required insurance coverages.

C. Additional Information and Certifications

The following forms and supporting information (if applicable) should be completed and submitted with the solicitation response. If not submitted with solicitation response, it must be submitted within three business days of County’s written request. Failure to timely submit may affect Vendor’s evaluation.

1. Vendor Questionnaire and Standard Certifications

Vendors are required to submit detailed information on their firm and certify to the below requirements. Refer to the **Vendor Questionnaire and Standard Certification** and submit as instructed.

- a. Drug-Free Workplace Certification
- b. Non-Collusion Certification
- c. Public Entities Crimes Certification
- d. Scrutinized Companies List Certification

2. Subcontractors/Subconsultants/Suppliers Requirement

If the Subcontractors/Subconsultants/Suppliers Information Form is included in the solicitation, the Vendor shall submit a listing of all subcontractors, subconsultants, and major material suppliers, if any, and the portion of the contract they will perform. Vendors must follow the instructions included on the **Subcontractors/Subconsultants/Suppliers Information Requirement** form and submit as instructed.

D. Standard Agreement Language Requirements

The acceptance of or any exceptions taken to the terms and conditions of the County’s Agreement shall be considered a part of a Vendor’s solicitation response and will be considered by the Evaluation Committee.

1. The applicable Agreement terms and conditions for this solicitation are indicated in the **Special Instructions to Vendors**.
2. Vendors are required to review the applicable terms and conditions and submit the **Agreement Exception Form**. The completed form should be submitted with the solicitation response. If not submitted with solicitation response, it shall be deemed an affirmation by the Vendor that it accepts the contract terms and conditions stated in the solicitation.

- b. If exceptions are taken, the Vendor must specifically identify each term and condition with which it is taking an exception. Any exception not specifically listed is deemed waived. Simply identifying a section or article number is not sufficient to state an exception. Provide either a redlined version of the specific change(s) or specific proposed alternative language. Additionally, a brief justification specifically addressing each provision to which an exception

is taken should be provided.

- c. Submission of any exceptions to the Agreement does not denote acceptance by the County. Furthermore, taking exceptions to the County's terms and conditions may be viewed unfavorably by the Evaluation Committee and ultimately may impact the overall evaluation of a Vendor's submittal.

E. Cone of Silence

1. The Board of County Commissioners updated provisions of the Cone of Silence Ordinance, Section 1-266, of the Broward County Code of Ordinances, effective as of April 1, 2022.
2. The County's Cone of Silence Ordinance prohibits all communications, oral or written, relating to a competitive solicitation among vendors/vendor representatives, County Staff, and Commissioner Offices while the Cone is in effect. Communications with Purchasing Division employees, the solicitation's designated Project Manager(s) or designee(s), the Office of Economic and Small Business Development (OESBD) Small Business Development Specialist Supervisor (954) 357-6400, and others as specifically identified in the Cone of Silence Ordinance are permitted. Additionally, communication is permitted at pre-bid conferences and negotiation meetings, as applicable.
3. The Cone of Silence begins upon the advertisement of an ITB, RFP, RFQ, or RLI. The Cone of Silence terminates when the solicitation is awarded, all responses are rejected, or the Board takes other action which ends the solicitation.
4. Any violations of the Code of Silence Ordinance by any vendor/vendor representative, may be reported to the County's Professional Standards/Human Rights Section. If the County's Professional Standards/Human Rights Section determines that a violation has occurred, a fine shall be imposed as provided in the Broward County Code of Ordinances. At the sole discretion of the Broward County Board of County Commissioners, a violation may void an award of the applicable competitive solicitation.
5. Review the Cone of Silence Ordinance, [Section 1-266](#) of the Broward County Code of Ordinances, for more detailed information.

F. Evaluation Criteria

1. The Evaluation Committee will evaluate Vendors as per the **Evaluation Criteria**. The County reserves the right to obtain additional information from a Vendor.
2. Unless the Evaluation Criteria is identified in the solicitation as an Additional Responsiveness or Responsibility Requirement (i.e., Special Instructions to Vendors, e.g., pricing, certifications, etc.), a Vendor's failure to respond to evaluation criteria will not be considered a matter of responsiveness or responsibility. Vendors that fail to submit any information and/or documentation required by an evaluation criteria will not be evaluated or scored for the corresponding evaluation criteria.
3. The County is not required to request, consider, or analyze Vendor's Evaluation Criteria responses received after the solicitation response due date; however, the County reserves the right to obtain clarifying information from a Vendor in writing for the Evaluation Committee.
4. For Request for Proposals - the following shall apply:
 - a. The Director of Purchasing may recommend to the Evaluation Committee to short list the most qualified firms prior to the Final Evaluation.

- b. The Evaluation Criteria identifies points available; a total of 100 points is available.
 - c. If the Evaluation Criteria includes a request for pricing, the total points awarded for price is determined by applying the following formula:
$$\frac{(\text{Lowest Proposed Price}/\text{Vendor's Price}) \times (\text{Maximum Number of Points for Price})}{1} = \text{Price Score}$$
 - d. After completion of scoring, the County may negotiate pricing as in its best interest.
5. For Requests for Letters of Interest or Request for Qualifications - the following shall apply:
- a. The Evaluation Committee will create a short list of the most qualified firms.
 - b. The Evaluation Committee will either:
 - i. Rank shortlisted firms; or
 - ii. If the solicitation is part of a two-step procurement, shortlisted firms will be requested to submit a response to the Step Two procurement.

G. Demonstrations

Refer to **Special Instructions to Vendors** if Demonstrations are applicable. Vendors determined to be both responsive and responsible to the requirements of the solicitation and/or shortlisted (if applicable), will be required to demonstrate the nature of their offered solution. After receipt of solicitation responses, all Vendors will receive a description of, and arrangements for, the desired demonstration. All Vendors will have equal time for demonstrations, but the question-and-answer time may vary.

In accordance with Section 286.0113, Florida Statutes, and pursuant to the direction of the Broward County Board of Commissioners, demonstrations are closed to only the Vendor's team and County staff.

H. Presentations

Vendors that are determined to be both responsive and responsible to the requirements of the solicitation and/or shortlisted (if applicable) will have an opportunity to make an oral presentation to the Evaluation Committee on the Vendor's approach to this project and the Vendor's ability to perform. The committee may provide a list of subject matter for the discussion. All Vendor's will have equal time to present but the question-and-answer time may vary.

In accordance with Section 286.0113 of the Florida Statutes, and the direction of the Broward County Board of Commissioners, presentations during Evaluation Committee Meetings are closed. Only the Evaluation Committee members, County staff and the vendor and their team scheduled for that presentation will be present in the meeting during the presentation and subsequent question and answer period. Subconsultants partnering with multiple prime vendors may only be present during one presentation/question and answer session.

I. Public Art and Design Program

If indicated in Special Instructions to Vendors, Public Art and Design Program, Section 1-88, Broward County Code of Ordinances, applies to this project. It is the intent of the County to functionally integrate art, when applicable, into capital projects and integrate artists' design concepts into this improvement project. The Vendor may be required to collaborate with the artist(s) on design development within the scope of this request. Artist(s) shall be selected by

Broward County through an independent process. For additional information, contact the Broward County Cultural Division.

J. Evaluation Committee Meetings

Evaluation Committee Meetings are posted on Broward County's [Sunshine Meetings](#) website.

K. Committee Appointment

The committee members appointed for this solicitation are available on the Purchasing Division's website under [Committee Appointment](#).

L. Committee Questions, Request for Clarifications, Additional Information

1. At any committee meeting, the Evaluation Committee members may ask questions, request clarification, or require additional information of any Vendor's submittal or proposal. It is highly recommended Vendors attend to answer any committee questions (if requested), including a Vendor representative that has the authority to bind.
2. Vendor's answers may impact evaluation (and scoring, if applicable). Upon written request to the Purchasing Agent prior to the meeting, a conference call number will be made available for Vendor participation via teleconference. Only Vendors that are found to be both responsive and responsible to the requirements of the solicitation and/or shortlisted (if applicable) are requested to participate in a final (or presentation) Evaluation Committee meeting.

M. Vendor Questions

The County provides a specified time for Vendors to ask questions and seek clarification regarding solicitation requirements. All questions or clarification inquiries must be submitted electronically through Periscope S2G by the Question & Answer due date and time specified in the solicitation document (including any addenda). The County will respond to questions electronically through Periscope S2G.

N. Confidential Material/ Public Records and Exemptions

1. Broward County is a public agency subject to Chapter 119, Florida Statutes. Upon receipt, all submittals become "public records" and shall be subject to public disclosure consistent with Chapter 119, Florida Statutes. Submittals may be posted on the County's public website or included in a public records request response unless there is a declaration of "confidentiality" pursuant to the public records law and in accordance with the procedures in this section.
2. Any confidential material(s) the Vendor asserts is exempt from public disclosure under Florida Statutes must be labeled as "Confidential" and marked with the specific statute and subsection asserting exemption from Public Records. Electronic media, including flash drives, must also comply with this requirement and separate any files claimed to be confidential.
3. To submit confidential material, at least one copy (in print or electronic format) must be submitted in a sealed envelope, labeled "Confidential Matter" with the solicitation number, title, date and the time of solicitation opening to:

Broward County Purchasing Division 115
South Andrews Avenue, Room 212 Fort
Lauderdale, FL 33301

4. Any materials that the Vendor claims to be confidential and exempt from public records must be marked and separated from the submittal. If the Vendor does not comply with these instructions, the Vendor's claim for confidentiality will be deemed as waived.
5. Submitting confidential material may impact full discussion of your submittal by the Evaluation Committee because the Committee will be unable to discuss the details contained in the documents cloaked as confidential at the publicly noticed Committee meeting.

O. Copyrighted Materials

Copyrighted material is not exempt from the Public Records Law, Chapter 119, Florida Statutes. Submission of copyrighted material in response to any solicitation will constitute a license and permission for the County to use, reproduce, and publish (including both hard copy and electronic copies) as reasonably necessary for the evaluation of the solicitation response by County staff and agents, as well as to make the materials available for inspection or production pursuant to Public Records Law, Chapter 119, Florida Statutes.

P. State and Local Preferences

If the solicitation involves a federally funded project where the fund requirements prohibit the use of state and/or local preferences, such preferences contained in the Local Preference Ordinance and Broward County Procurement Code will not be applied in the procurement process.

Q. Local Preference

The following local preference provisions shall apply except where otherwise prohibited by federal or state law or other funding source restrictions.

For all competitive solicitations in which objective factors used to evaluate the responses from vendors are assigned point totals:

- a. Five percent (5%) of the available points (for example, five points of a total 100 points) shall be awarded to each locally based business and to each joint venture composed solely of locally based businesses, as applicable;
- b. Three percent (3%) of the available points shall be awarded to each locally based subsidiary and to each joint venture that is composed solely of locally based subsidiaries, as applicable; and
- c. For any other joint venture, points shall be awarded based upon the respective proportion of locally based businesses and locally based subsidiaries' equity interests in the joint venture.

If, upon the completion of final rankings (technical and price combined, if applicable) by the Evaluation Committee, a nonlocal vendor is the highest ranked vendor and one or more Local Businesses (as defined by Section 1-74 of the Broward County Code of Ordinances) are within five percent (5%) of the total points obtained by the nonlocal vendor, the highest ranked Local Business shall be deemed to be the highest ranked vendor overall, and the County shall

proceed to negotiations with that vendor. If impasse is reached, the County shall next proceed to negotiations with the next highest ranked Local Business that was within five percent (5%) of the total points obtained by the nonlocal vendor, if any.

Refer to Section 1-75 of the Broward County Local Preference Ordinance and the **Location Certification Form** for further information.

R. Tiebreaker Criteria

In accordance with Section 21.42(d) of the Broward County Procurement Code, the tiebreaker criteria shall be applied based upon the information provided in the Vendor's response to the solicitation.

In order to receive credit for any tiebreaker criterion, complete and accurate information must be contained in the Vendor's submittal.

1. Location Certification Form;
2. Domestic Partnership Act Certification;
3. Tiebreaker Criteria Form: Volume of Payments Over Five Years

S. Posting of Solicitation Results and Recommendations

The Broward County Purchasing Division's website is the location for the County's posting of all solicitations and recommendation for award and recommendation of rankings. It is the obligation of each Vendor to monitor the website in order to obtain complete and timely information.

T. Review and Evaluation of Responses

An Evaluation Committee is responsible for recommending the most qualified Vendor(s). The process for this procurement may proceed in the following manner:

1. The Purchasing Division delivers the solicitation submittals to agency staff for summarization for the committee members. Agency staff prepares a report, including a matrix of responses submitted by the Vendors. This may include a technical review, if applicable. If a demonstration is required, County will appoint a Technical Review Team ("TRT") to view all Vendor demonstrations. The TRT will be comprised of County staff with specific subject matter expertise. The TRT will review all Vendor demonstrations for compliance with the Demonstration Script. The Project Manager will compile the results of each Vendor's demonstration into a final

TRT Report. The TRT Report will be distributed to the Evaluation Committee members prior to the Final Evaluation Meeting.

2. A solicitation may only be awarded to a vendor whose submission is responsive to the requirements of the solicitation. The Director of Purchasing shall determine whether submissions are responsive. For solicitations in which an Evaluation Committee has been appointed, the Director of Purchasing's determination regarding responsiveness is not binding on the Evaluation Committee, which may accept or reject such determination but must state with specificity the basis for any rejection thereof.
3. The Evaluation Committee, with assistance of the Purchasing Division and based on information provided by the applicable County Agencies and the Office of the County

Attorney, shall determine whether vendors who have submitted responsive submissions are responsible. Notwithstanding the foregoing, the awarding authority for a solicitation shall have the ultimate authority to determine whether vendors who have submitted responsive submissions are responsible. When making determinations of responsibility, the Director of Purchasing or the Evaluation Committee (as applicable) may request additional information from any vendor on matters that may affect a vendor's responsibility. The failure of a vendor to provide information requested by the County may result in a determination of non-responsibility. In addition, a vendor may submit information regarding its responsibility; provided, however, that such information shall not be considered if it contradicts or materially alters the information provided by the vendor in its original response to the solicitation.

U. Vendor Protest

Part X of the Broward County Procurement Code sets forth procedural requirements that apply if a Vendor intends to protest a solicitation or proposed award of a contract and states in part the following:

1. Any written protest concerning the specifications or requirements of a solicitation (or of any addenda thereto) must be received by the Director of Purchasing within five (5) business days after the applicable solicitation (or addenda) is posted on the Purchasing Division's website.
2. Any written protest concerning a proposed award or ranking must be received by the Director of Purchasing within five (5) business days after the proposed award or ranking is posted on the Purchasing Division's website.
3. Calculation of Days. Unless otherwise expressly stated, all references to "days" mean calendar days between the hours of 8:30 a.m. and 5:00 p.m., excluding days that are County holidays. All references to "business days" mean Monday through Friday between the hours of 8:30 a.m. and 5:00 p.m., excluding days that are County holidays. In calculating time periods, the day of the event that triggers the time period shall be excluded from the calculation (for example, objections to a ranking must be filed within three (3) business days after the ranking is posted, so an objection to a ranking posted on a Monday must be filed no later than 5:00 p.m. on Thursday). Failure to file a written protest so that it is received by the Director of Purchasing within the timeframes set forth in Part X of the Broward County Procurement Code shall constitute a waiver of the right to protest. A protest submitted to anyone other than the Director of Purchasing shall not be a valid protest.
4. Except as to any protest of the specifications or requirements of a solicitation, as a condition of initiating any protest, the protestor must, concurrently with filing the protest, pay a filing fee for the purpose of defraying the costs in administering the protest in accordance with the scheduled provided below. The filing fee shall be refunded if the protestor prevails in the protest. Failure to timely pay the required filing fee shall render the protest invalid.

<u>Estimated Contract Amount</u>	<u>Filing Fee</u>
Mandatory Bid Amount up to \$250,000	\$500
\$250,000 - \$500,00	\$1,000
\$500,001 - \$5 million	\$3,000

Over \$5 million

\$5,000

The estimated contract amount shall be the total bid amount offered by the protesting vendor in its response to the solicitation, inclusive of any contract renewals or extensions. If no bid amount was submitted by the protestor, the estimated contract amount shall be the County's estimated contract price for the procurement. The County will accept a filing fee in the of a money order, certified check, or cashier's check, payable to "Broward County," or other manner of payment approved by the Director of Purchasing.

V. Right To Appeal

The protestor may appeal the Director of Purchasing's denial of the protest with respect to the proposed award of a solicitation in accordance with Part XII of the Broward County Procurement Code. Decisions by the Director of Purchasing with respect to the specifications or requirements of a solicitation may only be appealed to the County Administrator or their designee, who shall determine the method, timing, and process of the appeal and whose decision shall be final.

1. The appeal must be received by the Director of Purchasing within ten (10) days after the date of the determination being appealed.
2. The appeal must be accompanied by an appeal bond by a Vendor having standing to protest and must comply with all other requirements of Part XII of the Broward County Procurement Code.
3. Except as otherwise provided by law, the filing of an appeal is an administrative remedy that must be exhausted prior to the filing of any civil action against the County concerning any subject matter that, had an appeal been filed, could have been addressed as part of the appeal.

W. Rejection of Responses

The Director of Purchasing may reject all responses to a solicitation, even when only one response is received, if the Director of Purchasing determines that doing so would be in the best interest of the County; provided, however, that only the Board may reject all responses to a solicitation where the issuance of the solicitation was approved by the Board.

X. Negotiations

Once a ranking is deemed final, the County shall commence contract negotiations with the top-ranked vendor (or, if provided in the solicitation, with multiple top-ranked vendors simultaneously). If the negotiation does not result in mutually satisfactory contract terms within a reasonable time, as determined by the Director of Purchasing, then the Director of Purchasing may terminate negotiations with the applicable vendor and commence (or continue, if the solicitation provided for negotiation with multiple top-ranked vendors) negotiations with the next- ranked vendor(s) or issue a new solicitation, as the Director of Purchasing determines to be in the best interest of the County.

Y. Submittal Instructions:

1. Broward County does not require any personal information (as defined under Section 501.171, Florida Statutes), such as social security numbers, driver license numbers, passport, military ID, bank account or credit card numbers, or any personal pin numbers, in order to submit a response for ANY Broward County solicitation. DO NOT INCLUDE any personal information data in any document submitted to the County. If any

personal information data is part of a submittal, this information must be redacted prior to submitting a response to the County.

2. Vendor MUST submit its solicitation response electronically through Periscope S2G and MUST confirm its solicitation response in order for the County to receive a valid response through Periscope S2G. It is the Vendor's sole responsibility to assure its response is submitted and received through Periscope S2G by the date and time specified in the solicitation.

3. The County will not consider solicitation responses received by other means. Vendors are encouraged to submit their responses in advance of the due date and the time specified in the solicitation. In the event that the Vendor is having difficulty submitting the solicitation response electronically through Periscope S2G, immediately notify the Purchasing Agent and then contact Periscope S2G for technical assistance.
4. Vendor must view, submit, and/or accept each of the documents in Periscope S2G. Web-fillable forms can be filled out and submitted through Periscope S2G.
5. After all documents are viewed, submitted, and/or accepted in Periscope S2G, the Vendor must upload additional information requested by the solicitation (i.e. Evaluation Criteria and Financial Statements) in the Item Response Form in Periscope S2G, under line one (regardless if pricing requested). Evaluation Criteria responses should be non-locked file format.
6. If the Vendor is declaring any material confidential and exempt from Public Records, refer to Confidential Material/ Public Records and Exemptions for instructions on submitting confidential material.
7. After all files are uploaded, Vendor must submit and CONFIRM its offer (by entering password) for offer to be received electronically through Periscope S2G.
8. If a solicitation requires an original Proposal Bond (per Special Instructions to Vendors), Vendor must submit in a sealed envelope, labeled with the solicitation number, title, date and the time of solicitation opening to:

Broward County Purchasing Division 115
South Andrews Avenue, Room 212 Fort
Lauderdale, FL 33301

9. A copy of the Proposal Bond should also be uploaded into Periscope S2G; this does not replace the requirement to have an original proposal bond. Vendors must submit the original Proposal Bond, by the due date and time specified in the solicitation.

Revised June 15, 2023

Supplier: **Barclays Bank US**

**Procurement Preferences for
Broward County Small Business Enterprises and County Business Enterprises**

This should be returned with the Vendor's submittal and will be used for informational purposes.

In accordance with Broward County Ordinance, Section 1.81, non-reserved solicitations (for certified Small Business Enterprises (SBEs) or County Business Enterprises (CBEs) and solicitations without any assigned CBE goals, a responding Broward County certified SBE or CBE may be eligible for a procurement preference, in accordance with below:

For Invitations to Bid and Quotation Requests:

If a responsive, responsible bid is received from a certified CBE or SBE that is within ten percent (10%) of the lowest responsive, responsible bid received from a non-certified (SBE or CBE) firm, the SBE or CBE (as applicable) shall be offered the opportunity to match the lowest responsive, responsible bid. If the SBE or CBE firm (as applicable) is responsive and responsible, and matches the lowest responsive, responsible bid, the CBE or SBE firm shall be recommended for award.

For Request for Proposals:

If upon the completion of final rankings by the Evaluation Committee, a non-certified proposer is the highest-ranked proposer, and a responsive, responsible SBE or CBE proposer receives a score that is within five percent (5%) of the score obtained by the non-certified proposer, the highest-ranked responsive, responsible SBE or CBE proposer shall be considered the highest-ranked proposer and shall have the opportunity to proceed to negotiations with the County for award of the contract.

Vendor should indicate below if the firm is a currently certified Broward County SBE and/or CBE firm. If the firm does not indicate it is an SBE or CBE, preference may not be applied based on information received but certification will be verified in the Broward County OESBD [Certified Firm Directory](#). Vendor must be certified at time of solicitation opening (due date).

This does not substitute for certification or application for certification.

- ☐ Firm is a Broward County certified SBE.
- ☐ Firm is a Broward County certified CBE
- ☒ Firm is not a Broward County certified SBE or CBE

Vendor Name **Barclays Capital Inc.**

For questions regarding the Broward County SBE and CBE certifications, please contact Office of Economic and Small Business Development at 954-357-6400.

Revised May 1, 2021

Supplier: Barclays Bank US**VENDOR QUESTIONNAIRE AND STANDARD CERTIFICATIONS**
Request for Proposals, Request for Qualifications, or Request for Letters of Interest

The completed form, including acknowledgment of the standard certifications and should be submitted with the solicitation response. If not submitted with solicitation response, it must be submitted within three business days of County's written request. Failure to timely submit may affect Vendor's evaluation.

If a response requires additional information, the Vendor should upload a written detailed response with submittal; each response should be numbered to match the question number. The completed questionnaire and attached responses will become part of the procurement record. It is imperative that the person completing the Vendor Questionnaire be knowledgeable about the proposing Vendor's business and operations.

1. Legal business name: **Barclays Capital Inc.**
2. Doing Business As/ Fictitious Name (if applicable): **N/A**
3. Federal Employer I.D. no. (FEIN): **061031656**
4. Dun and Bradstreet No.: **186430021**
5. Website address (if applicable): **<https://www.cib.barclays/>**
6. Principal place of business address: **745 Seventh Avenue, New York NY 10019, United States**
7. Office location responsible for this project: **745 Seventh Avenue, New York NY 10019, United States**
8. Telephone no.: **3057895674** Fax no.:
9. Type of business (check appropriate box):

Corporation (specify the state of incorporation:	<input checked="" type="checkbox"/> CT
Sole Proprietor	<input type="checkbox"/>
Limited Liability Company (LLC)	<input type="checkbox"/>
Limited Partnership	<input type="checkbox"/>
General Partnership (State and County Filed In)	<input type="checkbox"/>
Other – Specify	<input type="checkbox"/>
10. List [Florida Department of State, Division of Corporations](#) document number (or registration number if fictitious name):
847836
11. List name and title of each principal, owner, officer, and major shareholder:
 - a) **<https://brokercheck.finra.org/firm/summary/19714>**
 - b)
 - c)

d)

12. AUTHORIZED CONTACT(S) FOR YOUR FIRM:

Name: **Luis Alfaro**

Title: **Managing Director**

E-mail: **luis.alfaro@barclays.com**

Telephone No.: **3057895674**

Name:

Title:

E-mail:

Telephone No.:

13. Has your firm, its principals, officers or predecessor organization(s) been debarred or suspended by any government entity within the last three years? If yes, specify details in an attached written response. ☐ Yes ☒ No
14. Has your firm, its principals, officers or predecessor organization(s) ever been debarred or suspended by any government entity? If yes, specify details in an attached written response, including the reinstatement date, if granted. ☐ Yes ☒ No
15. Has your firm ever failed to complete any services and/or delivery of products during the last three (3) years? If yes, specify details in an attached written response. ☐ Yes ☒ No
16. Is your firm or any of its principals or officers currently principals or officers of another organization? If yes, specify details in an attached written response. ☐ Yes ☒ No
17. Have any voluntary or involuntary bankruptcy petitions been filed by or against your firm, its parent or subsidiaries or predecessor organizations during the last three years? If yes, specify details in an attached written response. ☐ Yes ☒ No
18. Has your firm's surety ever intervened to assist in the completion of a contract of have Performance and/or Payment Bond claims been made to your firm or its predecessor's sureties during the last three years? If yes, specify details in an attached written response, including contact information for owner and surety. ☐ Yes ☒ No
19. Has your firm ever failed to complete any work awarded to you, services and/or delivery of products during the last three (3) years? If yes, specify details in an attached written response. ☐ Yes ☒ No
20. Has your ever been terminated from a contract within the last three years? If yes, specify details in an attached written response. ☐ Yes ☒ No
21. Living Wage solicitations only: In determining what, if any, fiscal impact(s) are a result of the Ordinance for this solicitation, provide the following for informational purposes only. Response is not considered in determining the award of this contract.
Living Wage had an effect on the pricing. ☐ Yes ☐ No ☐ N/A
If yes, Living Wage increased the pricing by: %.
22. Participation in Solicitation Development:

☒ I have not participated in the preparation or drafting of any language, scope, or specification that would provide my firm or any affiliate an unfair advantage of securing this solicitation that has been let on behalf of Broward County Board of County Commissioners.

☐ I have provided information regarding the specifications and/or products listed in this solicitation that has been let on behalf of Broward County Board of County Commissioners.

If this box is checked, provide the following: Name of Person the information was provided:

Title:

Date information provided:

For what purpose was the information provided?

Drug-Free Workplace Requirements Certification:

Section 21.23(f) of the Broward County Procurement Code requires awards of all competitive solicitations requiring Board award be made only to firms certifying the establishment of a drug free workplace program.

- ☒ The Vendor hereby certifies that it has established a drug free workplace program in accordance with the requirements of Section 1-71, et. Seq., of the Broward County Code of Ordinances (Procurement From Businesses With Drug-Free Workplace Program).

Non-Collusion Certification:

Vendor shall disclose, to their best knowledge, any Broward County officer or employee, or any relative of any such officer or employee as defined in Section 112.3135 (1) (c), Florida Statutes, who is an officer or director of, or has a material interest in, the Vendor's business, who is in a position to influence this procurement. Any Broward County officer or employee who has any input into the writing of specifications or requirements, solicitation of offers, decision to award, evaluation of offers, or any other activity pertinent to this procurement is presumed, for purposes hereof, to be in a position to influence this procurement. Failure of a Vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the Broward County Procurement Code.

The Vendor hereby certifies that: (select one)

- ☒ The Vendor certifies that this offer is made independently and free from collusion; or
- ☐ The Vendor is disclosing names of officers or employees who have a material interest in this procurement and is in a position to influence this procurement. Vendor must include a list of name(s), and relationship(s) with its submittal.

Public Entities Crimes Certification:

In accordance with Public Entity Crimes, Section 287.133, Florida Statutes, a person or affiliate placed on the convicted vendor list following a conviction for a public entity crime may not submit on a contract: to provide any goods or services; for construction or repair of a public building or public work; for leases of real property to a public entity; and may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in s. 287.017 for Category Two for a period of 36 months following the date of being placed on the convicted vendor list.

The Vendor hereby certifies that: (check box)

- ☒ The Vendor certifies that no person or affiliates of the Vendor are currently on the convicted vendor list and/or has not been found to commit a public entity crime, as described in the statutes.

Scrutinized Companies List Certification:

Any company, principals, or owners on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List is prohibited from submitting a response to a solicitation for goods or services in an amount equal to or greater than \$1 million.

The Vendor hereby certifies that: (check each box)

- ☒ The Vendor, owners, or principals are aware of the requirements of Sections 287.135, 215.473, and 215.4275, Florida Statutes, regarding Companies on the Scrutinized Companies with Activities in Sudan List the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List; and
- ☒ The Vendor, owners, or principals, are eligible to participate in this solicitation and are not listed on either the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List; and
- ☒ If awarded the Contract, the Vendor, owners, or principals will immediately notify the County in writing if any of its principals are placed on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List.

I hereby certify the information provided in the Vendor Questionnaire and Standard Certifications:

Luis Alfaro
*AUTHORIZED SIGNATURE/NAME

Managing Director
TITLE

8/10/23
DATE

Vendor Name: **Barclays Capital Inc**

* I certify that I am authorized to sign this solicitation response on behalf of the Vendor as indicated in Certificate as to Corporate Principal, designation letter by Director/Corporate Officer, or other business authorization to bind on behalf of the Vendor. As the Vendor's authorized representative, I attest that any and all statements, oral, written or otherwise, made in support of the Vendor's response, are accurate, true and correct. I also acknowledge that inaccurate, untruthful, or incorrect statements made in support of the Vendor's response may be used by the County as a basis for rejection, rescission of the award, or termination of the contract and may also serve as the basis for debarment of Vendor pursuant to PART XI of the Broward County Procurement Code. I certify that the Vendor's response is made without prior understanding, agreement, or connection with any corporation, firm or person submitting a response for the same items/services, and is in all respects fair and without collusion or fraud. I also certify that the Vendor agrees to abide by all terms and conditions of this solicitation, acknowledge and accept all of the solicitation pages as well as any special instructions sheet(s).

Supplier: **Barclays Bank US**

LOBBYIST REGISTRATION REQUIREMENT CERTIFICATION

The completed should be submitted with the solicitation response but must be submitted within three business days of County's request. Vendor may be deemed non-responsive for failure to fully comply within stated timeframes.

The Vendor certifies that it understands if it has retained a lobbyist(s) to lobby in connection with a competitive solicitation, it shall be deemed non-responsive unless the firm, in responding to the competitive solicitation, certifies that each lobbyist retained has timely filed the registration or amended registration required under Broward County Lobbyist Registration Act, Section 1-262, Broward County Code of Ordinances; and it understands that if, after awarding a contract in connection with the solicitation, the County learns that the certification was erroneous, and upon investigation determines that the error was willful or intentional on the part of the Vendor, the County may, on that basis, exercise any contractual right to terminate the contract for convenience.

The Vendor hereby certifies that: (select one)

- ☒ It has not retained a lobbyist(s) to lobby in connection with this competitive solicitation; however, if retained after the solicitation, the County will be notified.
- ☐ It has retained a lobbyist(s) to lobby in connection with this competitive solicitation and certified that each lobbyist retained has timely filed the registration or amended registration required under Broward County Lobbyist Registration Act, Section 1-262, Broward County Code of Ordinances.

It is a requirement of this solicitation that the names of any and all lobbyists retained to lobby in connection with this solicitation be listed below:

Name of Lobbyist:

Lobbyist's Firm:

Phone:

E-mail:

Name of Lobbyist:

Lobbyist's Firm:

Phone:

E-mail:

Authorized Signature/Name

TITLE

Vendor Name

DATE

Revised May 1, 2021

Supplier: **Barclays Bank US**

DOMESTIC PARTNERSHIP ACT CERTIFICATION

The Domestic Partnership Act, Sections 16 ½ - 150 through 16 ½ -165, Broward County Code of Ordinances (the "Act") requires any Vendors contracting with the County, in an amount over \$100,000 provide benefits to registered domestic partners of its employees, on the same basis as it provides benefits to employees' spouses, with certain exceptions as provided by the Act.

Refer to applicable section below based on solicitation type. Failure to submit this form by stated timeframes will deem the Vendor nonresponsive to the solicitation or ineligible for the Domestic Partnership tiebreaker, as applicable.

For Invitation for Bids:

The completed and signed form should be returned with the Vendor's submittal. If not provided with the submittal, the Vendor must submit this form within three business days after County's request. A Vendor shall be deemed non-responsive for failure to fully comply within stated timeframes.

For Request for Proposals (RFPs), Request for Letters of Interest (RLIs), or Request for Qualifications (RFQs):

For the solicitation types referenced in this section, this form can be used for multiple purposes. For solicitations that contain Competitive Consultants' Negotiation Act (CCNA) requirements, this form will be used for tiebreaker criterion only.

1. Domestic Partnership Responsiveness Requirement

If Domestic Partnership is a requirement of the solicitation (refer to Special Instructions to Vendors), this completed and signed form should be returned with the Vendor's submittal. If not provided with the submittal, the Vendor must submit this form within three business days after County's request. A Vendor shall be deemed non-responsive for failure to fully comply within stated timeframes.

2. Domestic Partnership Tiebreaker

To be eligible for the Domestic Partnership tiebreaker, **the Vendor must currently offer the Domestic Partnership benefit and the completed and signed form must be returned at the time of solicitation submittal.** Vendors who fail to comply with this submittal deadline will not be eligible for the Domestic Partnership tiebreaker.

For all submittals over \$100,000.00, the Vendor, by virtue of the signature below, certifies that it is aware of the requirements of Broward County's Domestic Partnership Act, Sections 16-½ -150 through 16 ½ - 165, Broward County Code of Ordinances; and certifies the following: (check only one below).

- ☒ 1. The Vendor currently complies with the requirements of the County's Domestic Partnership Act and provides benefits to Domestic Partners (as defined in the Act) of its employees on the same basis as it provides benefits to employees' spouses.
- ☐ 2. The Vendor will comply with the requirements of the County's Domestic Partnership Act at time of contract award and for the duration of the contract by providing benefits to Domestic Partners (as defined in the Act) of its employees on the same basis as it provides benefits to employees' spouses.
- ☐ 3. The Vendor will not comply with the requirements of the County's Domestic Partnership Act at time of award.

- ☐ 4. The Vendor does not need to comply with the requirements of the County's Domestic Partnership Act at time of award because the following exception(s) applies: **(check only one below)**.
- ☐ The Vendor employs less than five (5) employees.
 - ☐ The Vendor does not provide benefits to employees' spouses.
 - ☐ The Vendor is a governmental entity.
 - ☐ The Vendor is a religious organization, association, society, or any non-profit charitable or educational institution or organization operated, supervised, or controlled by or in conjunction with a religious organization, association, or society.
 - ☐ The Vendor provides an employee the cash equivalent of benefits. (Attach an affidavit in compliance with the Act stating the efforts taken to provide such benefits and the amount of the cash equivalent).
 - ☐ The Vendor cannot comply with the provisions of the Domestic Partnership Act because it would violate the laws, rules or regulations of federal or state law or would violate or be inconsistent with the terms or conditions of a grant or contract with the United States or State of Florida. (Indicate the law, statute or regulation and attach explanation of its applicability).

Luis Alfaro

Managing Director

Barclays
Capital Inc

8/10/23

Authorized Signature/Name

Title

Vendor

Date

Revised January 24, 2023

Supplier: **Barclays Bank US****LITIGATION HISTORY FORM**

The completed form(s) should be returned with the Vendor's submittal. If not provided with submittal, the Vendor must submit within three business days of County's request. Vendor may be deemed non-responsive for failure to fully comply within stated timeframes.

- ☒ There are no material cases for this Vendor; or
☐ Material Case(s) are disclosed below:

Is this for a: (check type) <input type="checkbox"/> Parent, <input type="checkbox"/> Subsidiary, or <input type="checkbox"/> Predecessor Firm?	If Yes, name of Parent/Subsidiary/Predecessor: Or No <input type="checkbox"/>
Party	
Case Number, Name, and Date Filed	
Name of Court or other tribunal	
Type of Case	Bankruptcy <input type="checkbox"/> Civil <input type="checkbox"/> Criminal <input type="checkbox"/> Administrative/Regulatory <input type="checkbox"/>
Claim or Cause of Action and Brief description of each Count	
Brief description of the Subject Matter and Project Involved	
Disposition of Case (Attach copy of any applicable Judgment, Settlement Agreement and Satisfaction of Judgment.)	Pending <input type="checkbox"/> Settled <input type="checkbox"/> Dismissed <input type="checkbox"/> Judgment Vendor's Favor <input type="checkbox"/> Judgment Against Vendor <input type="checkbox"/> If Judgment Against, is Judgment Satisfied? <input type="checkbox"/> Yes <input type="checkbox"/> No
Opposing Counsel	Name: Email: Telephone Number:

Vendor Name:

Revised May 1, 2021

Supplier: **Barclays Bank US**

CRIMINAL HISTORY SCREENING PRACTICES CERTIFICATION FORM

The completed and signed form should be returned with Vendor's submittal. If Vendor does not provide it with the submittal, Vendor must submit the completed and signed form within three business days after County's request. Vendor shall be deemed nonresponsive for failure to fully comply within stated timeframes.

Section 26-125(d) of the Broward County Code of Ordinances ("Criminal History Screening Practices") requires that a Vendor seeking a contract in the amount of \$100,000 or more with Broward County shall certify that it has implemented, or will implement upon award of the contract, policies, practices, and procedures regarding inquiry into the criminal history of an applicant for employment, including a criminal history background check of any such person, that preclude inquiry into an applicant's criminal history until the applicant is selected as a finalist and interviewed for the position. The requirement in the preceding sentence shall apply only to positions located within the United States that will foreseeably perform work under a contract with Broward County. The failure of Vendor to comply with Section 26-125(d) at any time during the contract term shall constitute a material breach of the contract, entitling Broward County to pursue any remedy permitted under the contract and any other remedy provided under applicable law. If Vendor fails to comply with Section 26-125(d) at any time during the contract term, Broward County may, in addition to all other available remedies, terminate the contract and Vendor may be subject to debarment or suspension proceedings consistent with the procedures in Chapter 21 of the Broward County Administrative Code.

By signing below, Vendor certifies that it is aware of the requirements of Section 26-125(d), Broward County Code of Ordinances, and certifies the following: (check only one below).

☒ Vendor certifies that, for positions located within the United States that will foreseeably perform work under a contract with Broward County, it has implemented, or will implement upon award of the contract, policies, practices, and procedures regarding inquiry into the criminal history of an applicant for employment, including a criminal history background check of any such person, that preclude inquiry into an applicant's criminal history until the applicant is selected as a finalist and interviewed for the position.

☐ Vendor is exempt from the requirements of Section 26-125(d) of the Broward County Code of Ordinances because Vendor is required by applicable federal, state, or local law to conduct a criminal history background check in connection with potential employment at a time or in a manner that would otherwise be prohibited by this section, or because Vendor is a governmental agency.

AUTHORIZED SIGNATURE/ NAME: **Luis Alfaro**

VENDOR NAME: **Barclays Capital Inc**

TITLE: **Managing Director**

DATE: **8/10/23**

Revised June 17, 2022

Supplier: Barclays Bank US**AGREEMENT EXCEPTION FORM**

The completed form(s) should be submitted with the solicitation response. If not submitted with solicitation response, it shall be deemed an affirmation by the Vendor that it accepts contract terms and conditions stated in the solicitation.

The Vendor must provide on the form below, any and all exceptions it takes to the contract terms and conditions stated in the solicitation, including all proposed modifications to the contract terms and conditions or proposed additional terms and conditions. Additionally, a brief justification specifically addressing each provision to which an exception is taken should be provided.

There are no exceptions to the contract terms and conditions state in this solicitation; or



The following exceptions are taken to the contract terms and conditions state in this solicitation:
(use additional forms as needed; separate each Article/ Section number)



Term or Condition Article / Section	Insert proposed modifications to the contract terms and conditions or proposed additional terms and condition	Provide brief justification for proposed modifications

Vendor Name: Barclays Capital Inc

Revised May 1, 2021

Supplier: **Barclays Bank US**

AFFILIATED ENTITIES OF THE PRINCIPAL(S) CERTIFICATION

The completed form should be submitted with the solicitation response. If not submitted with solicitation response, it must be submitted within three business days of County's request. Failure to timely submit may result in Vendor being deemed non-responsive.

- a. All Vendors are required to disclose the names and addresses of "affiliated entities" of the Vendor's principal(s) over the last five (5) years (from the solicitation opening deadline) that have acted as a prime Vendor with the County.
- b. The County will review all affiliated entities of the Vendor's principal(s) for contract performance evaluations and the compliance history with the County's Small Business Development Program, including County Business Enterprise (CBE), Disadvantaged Business Enterprise (DBE) and Small Business Enterprise (SBE) goal attainment requirements. "Affiliated entities" of the principal(s) are those entities related to the Vendor by the sharing of stock or other means of control, including but not limited to a subsidiary, parent or sibling entity.
- c. The County will consider the contract performance evaluations and the compliance history of the affiliated entities of the Vendor's principals in its review and determination of responsibility.

The Vendor hereby certifies that: (select one)

- ☒ No principal of the proposing Vendor has prior affiliations that meet the criteria defined as "Affiliated entities"
- ☐ Principal(s) listed below have prior affiliations that meet the criteria defined as "Affiliated entities"

Principal's Name:

Names of Affiliated Entities:

Principal's Name:

Names of Affiliated Entities:

Principal's Name:

Names of Affiliated Entities:

Authorized Signature Name:

Title:

Vendor Name:

Date:

Revised 11/24/2021

Supplier: Barclays Bank US**LOCATION CERTIFICATION**

Refer to applicable sections for submittal instructions. Failure to submit required forms or information by stated timeframes will deem vendor ineligible for local preference or location tiebreaker.

Broward County [Code of Ordinances, Section 1-74](#), et seq., provides certain preferences to Local Businesses, Locally Based Businesses, and Locally Based Subsidiaries, and the [Broward County Procurement Code](#) provides location as the first tiebreaker criteria. Refer to the ordinance for additional information regarding eligibility for local preference.

For Invitation for Bids:

To be eligible for the Local Preference best and final offer ("BAFO") and location tiebreaker, the Vendor **must** submit this fully completed form and a copy of its Broward County local business tax receipt **at the same time it submits its bid. Vendors who fail to comply with this submittal deadline will not be eligible for either the BAFO or the location tiebreaker.**

For Request for Proposals (RFPs), Request for Letters of Interest (RLIs), or Request for Qualifications (RFQs):

For Local Preference eligibility, the Vendor **should** submit this fully **completed form** and **all Required Supporting Documentation** (as indicated below) at the time Vendor submits its response to the procurement solicitation. If not provided with submittal, the Vendor **must** submit within three business days after County's written request. Failure to submit required forms or information by stated timeframes will deem the Vendor ineligible for local preference.

To be eligible for the location tiebreaker, **the Vendor must submit this fully completed form and a copy of its Broward County local business tax receipt at the same time it submits its response.** Vendors who fail to comply with this submittal deadline will not be eligible for the location tiebreaker.

The undersigned Vendor hereby certifies that (check the box for only one option below):

- ☐ **Option 1:** The Vendor is a **Local Business**, but does not qualify as a **Locally Based Business** or a **Locally Based Subsidiary**, as each term is defined by [Section 1-74, Broward County Code of Ordinances](#). The Vendor further certifies that:

- A. It has continuously maintained, for at least the one (1) year period immediately preceding the bid posting date (i.e., the date on which the solicitation was advertised),
- a physical business address located within the limits of Broward County, listed on the Vendor's valid business tax receipt issued by Broward County (unless exempt from business tax receipt requirements),
 - in an area zoned for the conduct of such business,
 - that the Vendor owns or has the legal right to use, and
 - from which the Vendor operates and performs on a day-to-day basis business that is a substantial component of the goods or services being offered to Broward County in connection with the applicable competitive solicitation (as so defined, the "Local Business Location").

If Option 1 selected, indicate **Local Business Location**:

- ☐ **Option 2:** The Vendor is both a **Local Business** and a **Locally Based Business** as each term is defined by Section 1-74, Broward County Code of Ordinances. The Vendor further certifies that:

- A. The Vendor has continuously maintained, for at least the one (1) year period immediately preceding the bid posting date (i.e., the date on which the solicitation was advertised),

- i. a physical business address located within the limits of Broward County, listed on the Vendor's valid business tax receipt issued by Broward County (unless exempt from business tax receipt requirements),
 - ii. in an area zoned for the conduct of such business,
 - iii. that the Vendor owns or has the legal right to use, and
 - iv. from which the Vendor operates and performs on a day-to-day basis business that is a substantial component of the goods or services being offered to Broward County in connection with the applicable competitive solicitation as so defined, the "Local Business Location";
- B. The Local Business Location is the primary business address of the majority of the Vendor's employees as of the bid posting date, and/or the majority of the work under the solicitation, if awarded to the Vendor, will be performed by employees of the Vendor whose primary business address is the Local Business Location;
- C. The Vendor's management directs, controls, and coordinates all or substantially all of the day-to-day activities of the entity (such as marketing, finance, accounting, human resources, payroll, and operations) from the Local Business Location;
- D. The Vendor has not claimed any other location as its principal place of business within the one (1) year period immediately preceding the bid posting date; and
- E. Less than fifty percent (50%) of the total equity interests in the business are owned, directly or indirectly, by one or more entities with a principal place of business located outside of Broward County. The Vendor certifies that the total equity interests in the owned, directly or indirectly, by one or more entities with a principal place of business Vendor located outside of Broward County is .

If Option 2 selected, indicate **Local Business Location**:

☐ **Option 3:** The Vendor is both a **Local Business** and a **Locally Based Subsidiary** as each term is defined by Section 1-74, Broward County Code of Ordinances. The Vendor further certifies that:

- A. The Vendor has continuously maintained:
- i. for at least the one (1) year period immediately preceding the bid posting date (i.e., the date on which the solicitation was advertised),
 - ii. a physical business address located within the limits of Broward County, listed on the Vendor's valid business tax receipt issued by Broward County (unless exempt from business tax receipt requirements),
 - iii. in an area zoned for the conduct of such business,
 - iv. that the Vendor owns or has the legal right to use, and
 - v. from which the Vendor operates and performs on a day-to-day basis business that is a substantial component of the goods or services being offered to Broward County in connection with the applicable competitive solicitation (as so defined, the "Local Business Location");
- B. The Local Business Location is the primary business address of the majority of the Vendor's employees as of the bid posting date, and/or the majority of the work under the solicitation, if awarded to the Vendor, will be performed by employees of the Vendor whose primary business address is the Local Business Location;
- C. The Vendor's management directs, controls, and coordinates all or substantially all of the day-to-day activities of the entity (such as marketing, finance, accounting, human resources, payroll, and operations) from the Local Business Location;
- D. The Vendor has not claimed any other location as its principal place of business within the one (1) year period immediately preceding the bid posting date; and
- E. At least fifty percent (50%) of the total equity interests in the business are owned, directly or indirectly, by one or more entities with a principal place of business located outside of Broward County. The Vendor certifies that the total equity interests in the Vendor owned, directly or indirectly, by one or more entities with a principal place of business located outside of Broward County is .

If Option 3 selected, indicate **Local Business Location**:

- ☐ **Option 4:** The Vendor is a **joint venture** composed of one or more Local Businesses, Locally Based Businesses, or Locally Based Subsidiaries, as each term is defined by Section 1-74, Broward County Code of Ordinances. Fill in blanks with percentage equity interest or list "N/A" if section does not apply. The Vendor further certifies that:

- A. The proportion of equity interests in the joint venture owned by **Local Business(es)** (each Local Business must comply with all of the requirements stated in Option 1) is % of the total equity interests in the joint venture; and/or
- B. The proportion of equity interests in the joint venture owned by **Locally Based Business(es)** (each Locally Based Business must comply with all of the requirements stated in Option 2) is % of the total equity interests in the joint venture; and/or
- C. The proportion of equity interests in the joint venture owned by **Locally Based Subsidiary(ies)** (each Locally Based Subsidiary must comply with all of the requirements stated in Option 3) is % of the total equity interests in the joint venture.

If Option 4 selected, indicate the Local Business Location(s) (es) on separate sheet.

- ☒ **Option 5:** Vendor is not a Local Business, a Locally Based Business, or a Locally Based Subsidiary, as each term is defined by Section 1-74, Broward County Code of Ordinances.

Required Supporting Documentation (in addition to this form): Option 1 or 2 (**Local Business or Locally Based Business**):

1. Broward County local business tax receipt.

Option 3 (Locally Based Subsidiary)

1. Broward County local business tax receipt.
2. Documentation identifying the Vendor's vertical corporate organization and names of parent entities if the Vendor is a Locally Based Subsidiary.

Option 4 (joint venture) composed of one or more Local Business(es), Locally Based Business(es), or Locally Based Subsidiary(ies):

1. Broward County local business tax receipt(s) for each Local Business(es), Locally Based Business(es), and/or Locally Based Subsidiary(ies).
2. Executed joint venture agreement, if the Vendor is a joint venture.
3. If joint venture is comprised of one or more Locally Based Subsidiary(ies), submit documentation identifying the vertical corporate organization and parent entities name(s) of each Locally Based Subsidiary.

If requested by County (any option):

1. Written proof of the Vendor's ownership or right to use the real property at the Local Business Location.
2. Additional documentation relating to the parent entities of the Vendor.
3. Additional documentation demonstrating the applicable percentage of equity interests in the joint venture, if not shown in the joint venture agreement.
4. Any other documentation requested by County regarding the location from which the activities of the Vendor are directed, controlled, and coordinated.

By submitting this form, the Vendor certifies that if awarded a contract, it is the intent of the Vendor to remain at the Local Business Location address listed below (or another qualifying Local Business Location within Broward County) for the duration of the contract term, including any renewals or extensions. (If nonlocal Vendor, leave Local Business Location blank.)

Indicate Local Business Location:

True and Correct Attestations:

Any misleading, inaccurate, or false information or documentation submitted by any party affiliated with this procurement may lead to suspension and/or debarment from doing business with Broward County as authorized by

the Broward County Procurement Code. The Vendor understands that, if after contract award, the County learns that any of the information provided by the Vendor on this was false, and the County determines, upon investigation, that the Vendor's provision of such false information was willful or intentional, the County may exercise any contractual right to terminate the contract. The provision of false or fraudulent information or documentation by a Vendor may subject the Vendor to civil and criminal penalties.

AUTHORIZED SIGNATURE/NAME: **Luis Alfaro**

TITLE: **Managing Director**

VENDOR NAME: **Barclays Capital Inc**

DATE: **8/10/23**

Revised May 1, 2021

Supplier: Barclays Bank US**VOLUME OF PREVIOUS PAYMENTS ATTESTATION
FORM**

The completed and signed form should be returned with the Vendor's submittal. If not provided with submittal, the Vendor must submit within three business days of County's request. Failure to timely submit this form and supporting documentation may affect the Vendor's evaluation.

This completed form MUST be included with the Vendor's submittal at the time of the opening deadline to be considered for a Tie Breaker criterion (if applicable).

Points assigned for Volume of Previous Payments will be based on the amount paid-to-date by the County to a prime Vendor **MINUS** the Vendor's confirmed payments paid-to-date to approved certified County Business Enterprise (CBE) firms performing services as Vendor's subcontractor/subconsultant to obtain the CBE goal commitment as confirmed by County's Office of Economic and Small Business Development. Reporting must be within five (5) years of the current solicitation's opening date.

Vendor must list all received payments paid-to-date by contract as a prime vendor from Broward County Board of County Commissioners. Reporting must be within five (5) years of the current solicitation's opening date.

Vendor must also list all total confirmed payments paid-to-date by contract, to approved certified CBE firms utilized to obtain the contract's CBE goal commitment. Reporting must be within five (5) years of the current solicitation's opening date.

In accordance with Section 21.41(h)(4) and 21.42(d)(3) of the Broward County Procurement Code, the Vendor with the lowest dollar volume of payments previously paid by the County over a five-year period from the date of the submittal opening will receive the Tie Breaker.

The Vendor attests to the following:

Item No.	Project Title	Contract No.	Department/ Division	Date Awarded	Prime: Paid to Date	CBE: Paid to Date
1.						
2.						
3.						
4.						
5.						
6.						
7.						

Grand Total

Has the Vendor been a member/partner of a Joint Venture firm that was awarded a contract by the County?

Yes ☐ No ☒

If Yes, Vendor must submit a **Joint Vendor Volume of Work Attestation Form**.

Vendor Name: Barclays Capital Inc

Luis Alfaro
Authorized Signature/Name

Managing Director
Title

8/10/23
Date

**VOLUME OF PREVIOUS PAYMENTS ATTESTATION
FORM FOR JOINT VENTURE**

If applicable, this form and additional required documentation should be submitted with the Vendor's submittal. If not provided with submittal, the Vendor must submit within three business days of County's request. Failure to timely submit this form and supporting documentation may affect the Vendor's evaluation.

If a Joint Venture, the payments paid-to-date by contract provided must encompass the Joint Venture and each of the entities forming the Joint Venture.

Points assigned for Volume of Previous Payments will be based on the amount paid-to-date by contract to the Joint Venture firm **MINUS** all confirmed payments paid-to-date to approved certified CBE firms utilized to obtain the CBE goal commitment. Reporting must be within five (5) years of the current solicitation's opening date. Amount will then be multiplied by the member firm's equity percentage.

In accordance with Section 21.41(h)(4) and 21.42(d)(3) of the Broward County Procurement Code, the Vendor with the lowest dollar volume of payments previously paid by the County over a five-year period from the date of the submittal opening will receive the Tie Breaker.

The Vendor attests to the following:

Item No.	Project Title	Contract No.	Department/ Division	Date Awarded	JV Equity Percent	Prime: Paid to Date	CBE: Paid to Date
1.							
2.							
3.							
4.							
5.							
6.							
7.							
8.							

Grand Total

Vendor is required to submit an executed Joint Venture agreement(s) and any amendments for each project listed above. Each agreement must be executed prior to the opening date of this solicitation.

Vendor Name:**Authorized Signature/Name****Title****Date**

Revised May 1, 2021

Supplier: Barclays Bank US

Summary of Vendor Rights Regarding Broward County Competitive Solicitations

The purpose of this document is to provide vendors with a summary of their rights to object to or protest a proposed award or recommended ranking of vendors in connection with Broward County competitive solicitations. These rights are fully set forth in the Broward County Procurement Code, available here: <https://www.broward.org/purchasing>.

1. Right to Object

For Requests for Proposals (RFP), Requests for Qualifications (RFQ) or Requests for Letters of Interest (RLI), vendors may object in writing to a proposed recommendation of ranking made by an Evaluation Committee. Objections must be filed within three (3) business days after the proposed recommendation of ranking (if applicable) is posted on the Purchasing Division's website. The written objection must comply with the requirements stated in Section 21.42(h) of the Procurement Code. Failure to timely and fully meet any requirement will result in the loss of a right to object.

2. Right to Protest

For Invitations to Bid (ITBs), RFP, RFQ, and RLIs, vendors may protest the specifications or requirements of a solicitation (or of any addenda). Protests must be received in writing by the Director of Purchasing within five (5) business days after the applicable solicitation (or addenda) is posted on the Purchasing Division's website.

For ITBs, vendors may protest a recommendation for award made by the Broward County Purchasing Division. For RFPs, RFQs, and RLIs, vendors may protest a final recommendation of ranking made by an Evaluation Committee. In all cases, protests must be filed in writing within five (5) business days after a recommended ranking or recommendation for award is posted on the Purchasing Division's website.

Any protest must comply with requirements stated in Part X of the Procurement Code, including a filing fee (if applicable). Failure to timely and fully meet any requirement will result in a loss of protest rights.

Vendors may appeal the denial of a protest. Section 21.81 of the Procurement Code identifies all other matters that may be appealed. Appeals may require payment of an appeal bond. Appeals must comply with requirements stated in Part XII of the Procurement Code. Failure to timely and fully meet any requirement will result in a loss of appeal rights.

Cone of Silence:

The Board of County Commissioners recently updated provisions of the Cone of Silence Ordinance, Section 1-266, of the Broward County Code of Ordinances, effective as of April 1, 2022.

The County's Cone of Silence Ordinance prohibits all communications, oral or written, relating to a competitive solicitation among vendors/vendor representatives, County Staff, and Commissioner Offices while the cone is in effect. Communications with Purchasing Division employees, the solicitation's designated Project Manager(s) or designee(s), the Office of Economic and Small Business (OESBD) Small Business Development Specialist Supervisor (954-357-6400), and others as specifically identified in the Cone of Silence Ordinance are permitted. Additionally, communication is permitted at pre-bid conferences and negotiation meetings, as applicable.

The Cone of Silence begins upon the advertisement of an ITB, RFP, RFQ, or RLI. The Cone of Silence terminates when the solicitation is awarded, all responses are rejected, or the Board takes other action which ends the solicitation.

Any violations of the Code of Silence Ordinance by any vendor/vendor representative, may be reported to the County's Professional Standards/Human Rights Section. If the County's Professional Standards/Human Rights Section determines that a violation has occurred, a fine shall be imposed as provided in the Broward County Code of Ordinances. At the sole discretion of the Broward County Board of County Commissioners, a violation may void an award of the applicable competitive solicitation.

Review the Cone of Silence Ordinance, Section 1-266 of the Broward County Code of Ordinances, for more detailed information.

Updated: April 1, 2022