



City of Quincy, Massachusetts

OFFICE OF THE COUNCIL

—
MICHAEL E. MCFARLAND
COUNCILLOR AT LARGE

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To: All Members of the Finance Committee of the Quincy City Council
From: Councillor Michael E. McFarland, Chairman

The Finance Committee of the Quincy City Council will meet on Monday, October 20nd at 6:45 pm in the City Hall Council Chambers relative to the following item pending in the Finance Committee including:

- 2014 – 208 - Bond Authorization - Sterling Middle School Feasibility Funding
- 2014 – 209 - Bond Refinancing - Honeywell Lease

Copy to- All Councillors
Mayor Thomas P. Koch
Joseph P. Shea – City Clerk
James Fatseas – Mayors Chief of Staff
James Timmins - Solicitor
Susan O'Connor – Auditor
Deborah Coughlin – Treasurer

Patriot Ledger
Quincy Sun
Quincy Access Television

INTRODUCED BY Mayor, Thomas P. Koch

**CITY OF QUINCY
IN COUNCIL**

ORDER NO. 2014 - 208

ORDERED:

October 6, 2014

Be it ordained by the City Council of the city of Quincy does hereby appropriate the amount of Six hundred thousand and 00/100 (\$ 600,000.00) Dollars for the purpose of paying costs of a study to review potential solutions to the problems identified in the Sterling Middle School Statement of Interest. The study shall determine the feasibility of implementation of such solutions, including consideration of renovation, addition/renovation, as well as new construction (replacement) in regard to the Sterling Middle School, now located at 444 Granite Street, Quincy MA 02169, including the payment of all costs incidental or related thereto, and for which the city of Quincy may be eligible for a grant from the Massachusetts School Building Authority ("MSBA"), said amount to be expended under the direction of the Sterling Middle School Building Committee. To meet this appropriation the City Council, with the approval of his honor the Mayor, is authorized to borrow said amount under and pursuant to M.G.L. Chapter 44, and/or any other enabling authority. The city of Quincy acknowledges that the MSBA's grant program is a non-entitlement, discretionary program based on need, as determined by the MSBA, and any costs the city of Quincy incurs in excess of any grant approved by and received from the MSBA shall be the sole responsibility of the city of Quincy, and that the amount of borrowing authorized pursuant to this vote shall be reduced by any grant amount set forth in the Feasibility Study Agreement that may be executed between the city of Quincy and the MSBA.

STERLING MIDDLE SCHOOL FEASIBILITY FUNDING

TO BE PASSED AT A LATER DATE

INTRODUCED BY Mayor, Thomas P. Koch

**CITY OF QUINCY
IN COUNCIL**

ORDER NO. 2014 - 209

ORDERED:

October 6, 2014

It is Ordered that the aggregate amount of \$24,000,000 is appropriated to pay costs of paying the remaining costs of energy efficiency improvements to various City facilities, presently the subject of a municipal lease purchase agreement with Honeywell, and for the payment of all other costs incidental or related thereto, in order to produce interest rate savings; that to meet this appropriation the Collector-Treasurer with the approval of the Mayor is authorized to borrow \$24,000,000 under G.L. c.44, s. 7(38) or any other enabling authority; that the Mayor is authorized to take any other action necessary or convenient to carry out these projects; and that the Collector-Treasurer is authorized to file an application to qualify under G.L. c. 44A any or all of the bonds and to provide such information and execute such documents as may be required for these purposes.

Richard A. Manley, Jr.
+1 617 239 0384
fax +1 866 658 1046
rmanley@edwardswildman.com

July 23, 2014

Ms. Cynthia F. McNerney, Managing Director
First Southwest Company
54 Canal Street
Boston, Massachusetts

Dear Cinder: (City of Quincy Bonds)

As requested, I suggest the following form of loan order to purchase the energy conservation equipment and other improvements presently the subject of the Honeywell lease:

Ordered: that the aggregate amount of \$24,000,000 is appropriated to pay costs of paying the remaining costs of energy efficiency improvements to various City facilities, presently the subject of a municipal lease purchase agreement with Honeywell, and for the payment of all other costs incidental or related thereto, in order to produce interest rate savings; that to meet this appropriation the Collector-Treasurer with the approval of the Mayor is authorized to borrow \$24,000,000 under G.L. c.44, s. 7(3B) or any other enabling authority; that the Mayor is authorized to take any other action necessary or convenient to carry out these projects; and that the Collector-Treasurer is authorized to file an application to qualify under G.L. c. 44A any or all of the bonds and to provide such information and execute such documents as may be required for these purposes.

The order must be published at least 10 days prior to final passage and requires at least a two-thirds vote of all members of the City Council, as in the case of any other loan order for bonds. Please call me if there are any questions about the suggested proceedings. If any funds are to be advanced for these purposes and reimbursed from bond proceeds, please note the requirements of G.L. c.44 §20A and the guidelines issued by the Director of the Bureau of Accounts.

Sincerely,



Richard A. Manley, Jr.

AM 35352962.1

From: "Lisa Driscoll" <Lisa.Driscoll@firstsw.com>
To: "Deb Coughlin" <dcoughlin@mail.quincyma.gov>
Cc: "Cinder McNerney" <Cinder.McNerney@firstsw.com>
Subject: Quincy updated analysis of Honeywell Lease refunding
Date: 9/26/2014 5:14:12 PM

Hi Deb. Attached please find an updated analysis of the Honeywell lease refunding based on an estimate of market rates as of 9/24/2014. The refunding is still looking good: \$2,616,158 present value savings, which is 11.34% of the amount refunded.

Have a great weekend! Thanks.

Lisa Driscoll
Vice President
FirstSouthwest

direct 617.619.4405 fax 617.619.4411
54 Canal Street, Suite 320, Boston, MA 02114

Neither First Southwest Company nor any of its affiliates (collectively, "First Southwest") is responsible for any recommendation, solicitation, offer or agreement or any information about any transactions, customer account or account activity in this communication. Confidential or time-sensitive security-related communications should not be transmitted to First Southwest via the Internet as there can be no assurance of actual or timely delivery, receipt and/or confidentiality. Neither can there be any assurance that messages transmitted by electronic mail will not be corrupted, lost, deleted or modified. First Southwest reserves the right to refrain from processing or executing electronic mail until verification of the information is obtained in another format acceptable to First Southwest.

From: "Cinder McNerney" <Cinder.McNerney@firstsw.com>
To: "Mark Cavanagh" <mcavanagh@quincyma.gov>, "Deborah Coughlin" <dcoughlin@mail.quincyma.gov>, "Jim Fatseas (jfatseas@quincyma.gov)" <jfatseas@quincyma.gov>
Cc: "Lisa Driscoll" <Lisa.Driscoll@firstsw.com>
Subject: Loan Order for City of Quincy re taking out the Honeywell Lease for savings
Date: 7/28/2014 10:03:26 AM

Hi Mark, Deb, and Jim. Attached is the loan order I said I'd send regarding authorizing bonds to prepay the Honeywell lease, which when we sent you the analysis, would save the City **\$2.8 million in interest expense based on then current market rates**. The percent savings was so far over any normal threshold, we'd encourage the City to move quickly to take advantage of this opportunity. Let me know if you have any questions. Thanks

Cinder McNerney
Managing Director
FirstSouthwest

direct 617.619.4408 fax 617.619.4411
54 Canal Street, Suite 320, Boston, MA 02114

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SAVINGS

City of Quincy, Massachusetts
 General Obligation Refunding Bonds
 Refunding of Honeywell Lease
 Estimated Market Rates as of 9/24/2014

Date	Prior Debt Service	Refunding Debt Service	Refunding Adjustments	Refunding Net Cash Flow	Savings	Annual Savings
11/18/2014	1,295,323.13	-	806,170.28	806,170.28	489,152.85	-
03/01/2015	-	278,944.58	-	278,944.58	(278,944.58)	-
05/18/2015	1,295,323.13	-	-	-	1,295,323.13	-
06/30/2015	-	-	-	-	-	1,505,531.40
09/01/2015	-	2,089,225.00	-	2,089,225.00	(2,089,225.00)	-
11/18/2015	1,295,323.13	-	-	-	1,295,323.13	-
03/01/2016	-	372,225.00	-	372,225.00	(372,225.00)	-
05/18/2016	1,295,323.13	-	-	-	1,295,323.13	-
06/30/2016	-	-	-	-	-	129,196.26
09/01/2016	-	2,072,225.00	-	2,072,225.00	(2,072,225.00)	-
11/18/2016	1,295,323.13	-	-	-	1,295,323.13	-
03/01/2017	-	346,725.00	-	346,725.00	(346,725.00)	-
05/18/2017	1,255,209.03	-	-	-	1,255,209.03	-
06/30/2017	-	-	-	-	-	131,582.16
09/01/2017	-	2,056,725.00	-	2,056,725.00	(2,056,725.00)	-
11/18/2017	1,255,209.03	-	-	-	1,255,209.03	-
03/01/2018	-	321,075.00	-	321,075.00	(321,075.00)	-
05/18/2018	1,255,209.04	-	-	-	1,255,209.04	-
06/30/2018	-	-	-	-	-	132,618.07
09/01/2018	-	2,086,075.00	-	2,086,075.00	(2,086,075.00)	-
11/18/2018	1,255,209.04	-	-	-	1,255,209.04	-
03/01/2019	-	294,600.00	-	294,600.00	(294,600.00)	-
05/18/2019	1,255,209.04	-	-	-	1,255,209.04	-
06/30/2019	-	-	-	-	-	129,743.08
09/01/2019	-	2,124,600.00	-	2,124,600.00	(2,124,600.00)	-
11/18/2019	1,255,209.03	-	-	-	1,255,209.03	-
03/01/2020	-	258,000.00	-	258,000.00	(258,000.00)	-
05/18/2020	1,255,209.04	-	-	-	1,255,209.04	-
06/30/2020	-	-	-	-	-	127,818.07
09/01/2020	-	2,158,000.00	-	2,158,000.00	(2,158,000.00)	-
11/18/2020	1,255,209.03	-	-	-	1,255,209.03	-
03/01/2021	-	220,000.00	-	220,000.00	(220,000.00)	-
05/18/2021	1,255,209.04	-	-	-	1,255,209.04	-
06/30/2021	-	-	-	-	-	132,418.07
09/01/2021	-	2,120,000.00	-	2,120,000.00	(2,120,000.00)	-
11/18/2021	1,255,209.03	-	-	-	1,255,209.03	-
03/01/2022	-	182,000.00	-	182,000.00	(182,000.00)	-
05/18/2022	1,177,824.16	-	-	-	1,177,824.16	-
06/30/2022	-	-	-	-	-	131,033.19
09/01/2022	-	2,082,000.00	-	2,082,000.00	(2,082,000.00)	-
11/18/2022	1,177,824.16	-	-	-	1,177,824.16	-
03/01/2023	-	144,000.00	-	144,000.00	(144,000.00)	-
05/18/2023	1,177,824.16	-	-	-	1,177,824.16	-
06/30/2023	-	-	-	-	-	129,648.32
09/01/2023	-	2,119,000.00	-	2,119,000.00	(2,119,000.00)	-
11/18/2023	1,177,824.16	-	-	-	1,177,824.16	-
03/01/2024	-	104,500.00	-	104,500.00	(104,500.00)	-
05/18/2024	1,177,824.15	-	-	-	1,177,824.15	-
06/30/2024	-	-	-	-	-	132,148.31
09/01/2024	-	2,164,500.00	-	2,164,500.00	(2,164,500.00)	-
11/18/2024	1,177,824.16	-	-	-	1,177,824.16	-
03/01/2025	-	63,300.00	-	63,300.00	(63,300.00)	-
05/18/2025	1,177,824.16	-	-	-	1,177,824.16	-
06/30/2025	-	-	-	-	-	127,848.32
09/01/2025	-	2,203,300.00	-	2,203,300.00	(2,203,300.00)	-
11/18/2025	1,177,824.15	-	-	-	1,177,824.15	-
03/01/2026	-	20,500.00	-	20,500.00	(20,500.00)	-
05/18/2026	1,177,824.16	-	-	-	1,177,824.16	-
06/30/2026	-	-	-	-	-	131,848.31
09/01/2026	-	1,045,500.00	-	1,045,500.00	(1,045,500.00)	-
11/18/2026	1,177,824.15	-	-	-	1,177,824.15	-
06/30/2027	-	-	-	-	-	132,324.15
	30,806,947.57	26,927,019.58	806,170.28	27,733,189.86	3,073,757.71	3,073,757.71

Savings Summary

Savings PV date	10/22/2014
Savings PV rate	2.330268%
PV of savings from cash flow	2,614,829.31
Plus: Refunding funds on hand	1,328.77
Net PV Savings	2,616,158.08

ATTACHMENT 2 TO SCHEDULE NO. 1

RENTAL PAYMENT SCHEDULE

Commencement Date: The date on which sufficient monies to purchase the Equipment are deposited for that purpose with the escrow agent (Massachusetts Municipal Depository Trust).

Equipment Cost: \$32,738,892.00.

Due date of first Rental Payment: November 18, 2007.

Interest Rate: 4.2435%

Rental Payments shall be paid semi-annually on the same day of each consecutive period in accordance with the Rental Payment Schedule set forth below.

The Interest Rate indicated above, and used to calculate the Lease Payment, is valid for funding through May 21, 2007. If the transaction closes after that date, the Interest Rate will be indexed to the Ten (10) Year US Treasury Constant Maturity of 4.67% as of May 9, 2007 (the "Indexed Rate"). In that event, the Interest Rate shall be increased (or decreased) by sixty-five hundredths of a basis point (0.0065%) for each basis point (0.01%) increase (or decrease) in the Index Rate in effect 3 business days prior to funding, and fixed on the Commencement Date, and the Lease Payments shall be calculated using such adjusted Interest Rate. The US Treasury Constant maturities are published in the Federal Reserve H-15 Statistical Release which can be found at: <http://www.bloomberg.com/markets/rates/index.html>

The Equipment listed in this Schedule may be purchased only as provided and at such times as set forth in Section 22 of the Master Lease.

<u>Payment Number</u>	<u>Due Date</u>	<u>Rental Payment</u>	<u>Interest Portion</u>	<u>Principal Portion</u>	<u>Termination Amount</u>
1	11/18/07 ^{Pd}	\$ 694,637.44	\$ 694,637.44	\$ 0.00	\$ 33,393,669.84
2	05/18/08 ^{Pd}	\$ 694,637.44	\$ 694,637.44	\$ 0.00	\$ 33,393,669.84
3	11/18/08	\$ 1,389,852.94	\$ 694,637.44	\$ 695,215.50	\$ 32,684,550.03
4	05/18/09	\$ 1,389,852.94	\$ 679,886.71	\$ 709,966.24	\$ 31,960,384.47
5	11/18/09	\$ 1,389,852.94	\$ 664,823.00	\$ 725,029.95	\$ 31,220,853.92
6	05/18/10	\$ 1,389,852.94	\$ 649,439.67	\$ 740,413.27	\$ 30,465,632.39
7	11/18/10	\$ 1,389,852.94	\$ 633,729.96	\$ 756,122.99	\$ 29,694,386.94
8	05/18/11	\$ 1,389,852.94	\$ 617,686.92	\$ 772,166.03	\$ 28,906,777.59
9	11/18/11	\$ 1,389,852.94	\$ 601,303.48	\$ 788,549.46	\$ 28,102,457.15
10	05/18/12	\$ 1,295,323.13	\$ 584,572.44	\$ 710,750.70	\$ 27,377,491.43
11	11/18/12	\$ 1,295,323.13	\$ 569,492.08	\$ 725,831.05	\$ 26,637,143.76
12	05/18/13	\$ 1,295,323.13	\$ 554,091.76	\$ 741,231.37	\$ 25,881,087.76
13	11/18/13	\$ 1,295,323.13	\$ 538,364.69	\$ 756,958.45	\$ 25,108,990.15
14	05/18/14	\$ 1,295,323.13	\$ 522,303.92	\$ 773,019.21	\$ 24,320,510.55
15	11/18/14	\$ 1,295,323.13	\$ 505,902.38	\$ 789,420.75	\$ 23,515,301.38
16	05/18/15	\$ 1,295,323.13	\$ 489,152.85	\$ 806,170.28	\$ 22,693,007.69
17	11/18/15	\$ 1,295,323.13	\$ 472,047.93	\$ 823,275.20	\$ 21,853,266.99
18	05/18/16	\$ 1,295,323.13	\$ 454,580.09	\$ 840,743.04	\$ 20,995,709.09
19	11/18/16	\$ 1,295,323.13	\$ 436,741.63	\$ 858,581.51	\$ 20,119,955.95
20	05/18/17	\$ 1,255,209.04	\$ 418,524.67	\$ 836,684.36	\$ 19,266,537.89
21	11/18/17	\$ 1,255,209.04	\$ 400,772.32	\$ 854,436.71	\$ 18,214,669.19
22	05/18/18	\$ 1,255,209.04	\$ 382,643.31	\$ 872,565.73	\$ 17,333,377.80
23	11/18/18	\$ 1,255,209.04	\$ 364,129.65	\$ 891,079.39	\$ 16,433,387.62
24	05/18/19	\$ 1,255,209.04	\$ 345,223.17	\$ 909,985.87	\$ 15,514,301.89
25	11/18/19	\$ 1,255,209.04	\$ 325,915.54	\$ 929,293.49	\$ 14,575,715.47
26	05/18/20	\$ 1,255,209.04	\$ 306,198.26	\$ 949,010.78	\$ 13,617,214.58
27	11/18/20	\$ 1,255,209.04	\$ 286,062.62	\$ 969,146.41	\$ 12,638,376.71
28	05/18/21	\$ 1,255,209.04	\$ 265,499.76	\$ 989,709.28	\$ 11,638,770.34
29	11/18/21	\$ 1,255,209.04	\$ 244,500.60	\$ 1,010,708.43	\$ 10,617,954.82

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 Refunding of Honeywell Lease
 Estimated Market Rates as of 9/24/2014

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SOURCES AND USES OF FUNDS

City of Quincy, Massachusetts
 General Obligation Refunding Bonds
 Refunding of Honeywell Lease
 Estimated Market Rates as of 9/24/2014

Dated Date 10/22/2014
 Delivery Date 10/22/2014

Sources:

Bond Proceeds:	
Par Amount	21,605,000.00
Premium	2,249,930.15
	23,854,930.15

Uses:

Refunding Escrow Deposits:	
Bond Proceeds	23,515,301.38
Delivery Date Expenses:	
Cost of Issuance	122,250.00
Underwriter's Discount	216,050.00
	338,300.00
Other Uses of Funds:	
Additional Proceeds	1,328.77
	23,854,930.15

BOND SUMMARY STATISTICS

City of Quincy, Massachusetts
 General Obligation Refunding Bonds
 Refunding of Honeywell Lease
 Estimated Market Rates as of 9/24/2014

Dated Date	10/22/2014
Delivery Date	10/22/2014
Last Maturity	09/01/2026
Arbitrage Yield	2.029507%
True Interest Cost (TIC)	2.238626%
Net Interest Cost (NIC)	2.391473%
All-In TIC	2.330268%
Average Coupon	3.870720%
Average Life (years)	6.364
Weighted Average Maturity (years)	6.457
Duration of Issue (years)	5.727
Par Amount	21,605,000.00
Bond Proceeds	23,854,930.15
Total Interest	5,322,019.58
Net Interest	3,288,139.43
Total Debt Service	26,927,019.58
Maximum Annual Debt Service	2,461,450.00
Average Annual Debt Service	2,270,725.47
Underwriter's Fees (per \$1000)	
Average Takedown	-
Other Fee	10.000000
Total Underwriter's Discount	10.000000
Bid Price	109.413933

Bond Component	Par Value	Price	Average Coupon	Average Life
Bond Component	21,605,000.00	110.414	3.871%	6.364
	21,605,000.00			6.364

	TIC	All-In TIC	Arbitrage Yield
Par Value	21,605,000.00	21,605,000.00	21,605,000.00
+ Accrued Interest	-	-	-
+ Premium (Discount)	2,249,930.15	2,249,930.15	2,249,930.15
- Underwriter's Discount	(216,050.00)	(216,050.00)	
- Cost of Issuance Expense		(122,250.00)	
- Other Amounts	-	-	-
Target Value	23,638,880.15	23,516,630.15	23,854,930.15
Target Date	10/22/2014	10/22/2014	10/22/2014
Yield	2.238626%	2.330268%	2.029507%

SUMMARY OF REFUNDING RESULTS

City of Quincy, Massachusetts
 General Obligation Refunding Bonds
 Refunding of Honeywell Lease
 Estimated Market Rates as of 9/24/2014

Dated Date	10/22/2014
Delivery Date	10/22/2014
Arbitrage yield	2.029507%
Escrow yield	1.658568%
Value of Negative Arbitrage	6,241.37
Bond Par Amount	21,605,000.00
True Interest Cost	2.238626%
Net Interest Cost	2.391473%
All-In TIC	2.330268%
Average Coupon	3.870720%
Average Life	6.364
Weighted Average Maturity	6.457
Par amount of refunded bonds	23,054,217.03
Average coupon of refunded bonds	4.243500%
Average life of refunded bonds	6.673
Remaining weighted average maturity of refunded bonds	6.673
PV of prior debt to 10/22/2014 @ 2.330268%	26,131,459.46
Net PV Savings	2,616,158.08
Percentage savings of refunded bonds	11.347850%
Percentage savings of refunding bonds	12.109040%

SAVINGS

City of Quincy, Massachusetts
 General Obligation Refunding Bonds
 Refunding of Honeywell Lease
 Estimated Market Rates as of 9/24/2014

Date	Prior Debt Service	Refunding Debt Service	Refunding Adjustments	Refunding Net Cash Flow	Savings	Annual Savings
11/18/2014	1,295,323.13	-	806,170.28	806,170.28	489,152.85	-
03/01/2015	-	278,944.58	-	278,944.58	(278,944.58)	-
05/18/2015	1,295,323.13	-	-	-	1,295,323.13	-
06/30/2015	-	-	-	-	-	1,505,531.40
09/01/2015	-	2,089,225.00	-	2,089,225.00	(2,089,225.00)	-
11/18/2015	1,295,323.13	-	-	-	1,295,323.13	-
03/01/2016	-	372,225.00	-	372,225.00	(372,225.00)	-
05/18/2016	1,295,323.13	-	-	-	1,295,323.13	-
06/30/2016	-	-	-	-	-	129,196.26
09/01/2016	-	2,072,225.00	-	2,072,225.00	(2,072,225.00)	-
11/18/2016	1,295,323.13	-	-	-	1,295,323.13	-
03/01/2017	-	346,725.00	-	346,725.00	(346,725.00)	-
05/18/2017	1,255,209.03	-	-	-	1,255,209.03	-
06/30/2017	-	-	-	-	-	131,582.16
09/01/2017	-	2,056,725.00	-	2,056,725.00	(2,056,725.00)	-
11/18/2017	1,255,209.03	-	-	-	1,255,209.03	-
03/01/2018	-	321,075.00	-	321,075.00	(321,075.00)	-
05/18/2018	1,255,209.04	-	-	-	1,255,209.04	-
06/30/2018	-	-	-	-	-	132,618.07
09/01/2018	-	2,086,075.00	-	2,086,075.00	(2,086,075.00)	-
11/18/2018	1,255,209.04	-	-	-	1,255,209.04	-
03/01/2019	-	294,600.00	-	294,600.00	(294,600.00)	-
05/18/2019	1,255,209.04	-	-	-	1,255,209.04	-
06/30/2019	-	-	-	-	-	129,743.08
09/01/2019	-	2,124,600.00	-	2,124,600.00	(2,124,600.00)	-
11/18/2019	1,255,209.03	-	-	-	1,255,209.03	-
03/01/2020	-	258,000.00	-	258,000.00	(258,000.00)	-
05/18/2020	1,255,209.04	-	-	-	1,255,209.04	-
06/30/2020	-	-	-	-	-	127,818.07
09/01/2020	-	2,158,000.00	-	2,158,000.00	(2,158,000.00)	-
11/18/2020	1,255,209.03	-	-	-	1,255,209.03	-
03/01/2021	-	220,000.00	-	220,000.00	(220,000.00)	-
05/18/2021	1,255,209.04	-	-	-	1,255,209.04	-
06/30/2021	-	-	-	-	-	132,418.07
09/01/2021	-	2,120,000.00	-	2,120,000.00	(2,120,000.00)	-
11/18/2021	1,255,209.03	-	-	-	1,255,209.03	-
03/01/2022	-	182,000.00	-	182,000.00	(182,000.00)	-
05/18/2022	1,177,824.16	-	-	-	1,177,824.16	-
06/30/2022	-	-	-	-	-	131,033.19
09/01/2022	-	2,082,000.00	-	2,082,000.00	(2,082,000.00)	-
11/18/2022	1,177,824.16	-	-	-	1,177,824.16	-
03/01/2023	-	144,000.00	-	144,000.00	(144,000.00)	-
05/18/2023	1,177,824.16	-	-	-	1,177,824.16	-
06/30/2023	-	-	-	-	-	129,648.32
09/01/2023	-	2,119,000.00	-	2,119,000.00	(2,119,000.00)	-
11/18/2023	1,177,824.16	-	-	-	1,177,824.16	-
03/01/2024	-	104,500.00	-	104,500.00	(104,500.00)	-
05/18/2024	1,177,824.15	-	-	-	1,177,824.15	-
06/30/2024	-	-	-	-	-	132,148.31
09/01/2024	-	2,164,500.00	-	2,164,500.00	(2,164,500.00)	-
11/18/2024	1,177,824.16	-	-	-	1,177,824.16	-
03/01/2025	-	63,300.00	-	63,300.00	(63,300.00)	-
05/18/2025	1,177,824.16	-	-	-	1,177,824.16	-
06/30/2025	-	-	-	-	-	127,848.32
09/01/2025	-	2,203,300.00	-	2,203,300.00	(2,203,300.00)	-
11/18/2025	1,177,824.15	-	-	-	1,177,824.15	-
03/01/2026	-	20,500.00	-	20,500.00	(20,500.00)	-
05/18/2026	1,177,824.16	-	-	-	1,177,824.16	-
06/30/2026	-	-	-	-	-	131,848.31
09/01/2026	-	1,045,500.00	-	1,045,500.00	(1,045,500.00)	-
11/18/2026	1,177,824.15	-	-	-	1,177,824.15	-
06/30/2027	-	-	-	-	-	132,324.15
	30,806,947.57	26,927,019.58	806,170.28	27,733,189.86	3,073,757.71	3,073,757.71

Savings Summary

Savings PV date	10/22/2014
Savings PV rate	2.330268%
PV of savings from cash flow	2,614,829.31
Plus: Refunding funds on hand	1,328.77
Net PV Savings	2,616,158.08

BOND PRICING

City of Quincy, Massachusetts
 General Obligation Refunding Bonds
 Refunding of Honeywell Lease
 Estimated Market Rates as of 9/24/2014

Bond Component	Maturity Date	Amount	Rate	Yield	Price
Bond Component:					
	09/01/2015	1,700,000.00	2.000%	0.210%	101.534
	09/01/2016	1,700,000.00	3.000%	0.440%	104.732
	09/01/2017	1,710,000.00	3.000%	0.720%	106.438
	09/01/2018	1,765,000.00	3.000%	1.020%	107.471
	09/01/2019	1,830,000.00	4.000%	1.330%	112.519
	09/01/2020	1,900,000.00	4.000%	1.640%	113.129
	09/01/2021	1,900,000.00	4.000%	1.910%	113.373
	09/01/2022	1,900,000.00	4.000%	2.160%	113.231
	09/01/2023	1,975,000.00	4.000%	2.330%	113.294
	09/01/2024	2,060,000.00	4.000%	2.410%	113.875
	09/01/2025	2,140,000.00	4.000%	2.590%	112.195 C
	09/01/2026	1,025,000.00	4.000%	2.770%	110.544 C
		21,605,000.00			

Dated Date	10/22/2014	
Delivery Date	10/22/2014	
First Coupon	03/01/2015	
Par Amount	21,605,000.00	
Premium	2,249,930.15	
Production	23,854,930.15	110.413933%
Underwriter's Discount	(216,050.00)	(1.000000%)
Purchase Price	23,638,880.15	109.413933%
Accrued Interest	-	
Net Proceeds	23,638,880.15	

BOND DEBT SERVICE

City of Quincy, Massachusetts
 General Obligation Refunding Bonds
 Refunding of Honeywell Lease
 Estimated Market Rates as of 9/24/2014

Dated Date 10/22/2014
 Delivery Date 10/22/2014

Period Ending	Principal	Coupon	Interest	Debt Service	Annual Debt Service
03/01/2015	-	-	278,944.58	278,944.58	-
06/30/2015	-	-	-	-	278,944.58
09/01/2015	1,700,000.00	2.000%	389,225.00	2,089,225.00	-
03/01/2016	-	-	372,225.00	372,225.00	-
06/30/2016	-	-	-	-	2,461,450.00
09/01/2016	1,700,000.00	3.000%	372,225.00	2,072,225.00	-
03/01/2017	-	-	346,725.00	346,725.00	-
06/30/2017	-	-	-	-	2,418,950.00
09/01/2017	1,710,000.00	3.000%	346,725.00	2,056,725.00	-
03/01/2018	-	-	321,075.00	321,075.00	-
06/30/2018	-	-	-	-	2,377,800.00
09/01/2018	1,765,000.00	3.000%	321,075.00	2,086,075.00	-
03/01/2019	-	-	294,600.00	294,600.00	-
06/30/2019	-	-	-	-	2,380,675.00
09/01/2019	1,830,000.00	4.000%	294,600.00	2,124,600.00	-
03/01/2020	-	-	258,000.00	258,000.00	-
06/30/2020	-	-	-	-	2,382,600.00
09/01/2020	1,900,000.00	4.000%	258,000.00	2,158,000.00	-
03/01/2021	-	-	220,000.00	220,000.00	-
06/30/2021	-	-	-	-	2,378,000.00
09/01/2021	1,900,000.00	4.000%	220,000.00	2,120,000.00	-
03/01/2022	-	-	182,000.00	182,000.00	-
06/30/2022	-	-	-	-	2,302,000.00
09/01/2022	1,900,000.00	4.000%	182,000.00	2,082,000.00	-
03/01/2023	-	-	144,000.00	144,000.00	-
06/30/2023	-	-	-	-	2,226,000.00
09/01/2023	1,975,000.00	4.000%	144,000.00	2,119,000.00	-
03/01/2024	-	-	104,500.00	104,500.00	-
06/30/2024	-	-	-	-	2,223,500.00
09/01/2024	2,060,000.00	4.000%	104,500.00	2,164,500.00	-
03/01/2025	-	-	63,300.00	63,300.00	-
06/30/2025	-	-	-	-	2,227,800.00
09/01/2025	2,140,000.00	4.000%	63,300.00	2,203,300.00	-
03/01/2026	-	-	20,500.00	20,500.00	-
06/30/2026	-	-	-	-	2,223,800.00
09/01/2026	1,025,000.00	4.000%	20,500.00	1,045,500.00	-
06/30/2027	-	-	-	-	1,045,500.00
	21,605,000.00		5,322,019.58	26,927,019.58	26,927,019.58

PROOF OF ARBITRAGE YIELD

City of Quincy, Massachusetts
 General Obligation Refunding Bonds
 Refunding of Honeywell Lease
 Estimated Market Rates as of 9/24/2014

Date	Debt Service	Present Value to 10/22/2014 @ 2.0295069551%
03/01/2015	278,944.58	276,933.49
09/01/2015	2,089,225.00	2,053,326.25
03/01/2016	372,225.00	362,154.16
09/01/2016	2,072,225.00	1,995,905.79
03/01/2017	346,725.00	330,600.48
09/01/2017	2,056,725.00	1,941,376.37
03/01/2018	321,075.00	300,023.45
09/01/2018	2,086,075.00	1,929,717.85
03/01/2019	294,600.00	269,781.29
09/01/2019	2,124,600.00	1,926,067.29
03/01/2020	258,000.00	231,541.68
09/01/2020	2,158,000.00	1,917,238.33
03/01/2021	220,000.00	193,491.79
09/01/2021	2,120,000.00	1,845,826.63
03/01/2022	182,000.00	156,870.62
09/01/2022	2,082,000.00	1,776,503.86
03/01/2023	144,000.00	121,636.28
09/01/2023	2,119,000.00	1,771,930.85
03/01/2024	104,500.00	86,506.21
09/01/2024	5,329,500.00	4,367,497.48
	26,759,419.58	23,854,930.15

Proceeds Summary

Delivery date	10/22/2014
Par Value	21,605,000.00
Premium (Discount)	2,249,930.15
Target for yield calculation	23,854,930.15

PROOF OF ARBITRAGE YIELD

City of Quincy, Massachusetts
 General Obligation Refunding Bonds
 Refunding of Honeywell Lease
 Estimated Market Rates as of 9/24/2014

Assumed Call/Computation Dates for Premium Bonds

Bond Component	Maturity Date	Rate	Yield	Call Date	Call Price	Net Present Value (NPV) to 10/22/2014 @ 2.0295069551%
BOND	09/01/2025	4.000%	2.590%	09/01/2024	100.000000	114,119.47
BOND	09/01/2026	4.000%	2.770%	09/01/2024	100.000000	71,582.78

Rejected Call/Computation Dates for Premium Bonds

Bond Component	Maturity Date	Rate	Yield	Call Date	Call Price	Net Present Value (NPV) to 10/22/2014 @ 2.0295069551%	Increase to NPV
BOND	09/01/2025	4.000%	2.590%	-	-	148,157.41	34,037.94
BOND	09/01/2026	4.000%	2.770%	-	-	103,863.30	32,280.52

ESCROW DESCRIPTIONS

City of Quincy, Massachusetts
 General Obligation Refunding Bonds
 Refunding of Honeywell Lease
 Estimated Market Rates as of 9/24/2014

Type of Security	Maturity Date	Par Amount	Rate	Total Cost
-:				
Cashflow	-	23,515,301.38	-	23,515,301.38
		23,515,301.38		23,515,301.38

ESCROW COST

City of Quincy, Massachusetts
 General Obligation Refunding Bonds
 Refunding of Honeywell Lease
 Estimated Market Rates as of 9/24/2014

Type of Security	Maturity Date	Par Amount	Rate	Total Cost
Cashflow	-	23,515,301.38	-	23,515,301.38
		23,515,301.38		23,515,301.38

Purchase Date	Cost of Securities	Cash Deposit	Total Escrow Cost	Yield
10/22/2014	23,515,301.38	-	23,515,301.38	1.658568%
	23,515,301.38	0.00	23,515,301.38	

ESCROW CASH FLOW

City of Quincy, Massachusetts
 General Obligation Refunding Bonds
 Refunding of Honeywell Lease
 Estimated Market Rates as of 9/24/2014

Date	Other Cash Flows	Net Escrow Receipts	Present Value to 10/22/2014 @ 1.6585681%
11/18/2014	23,543,369.88	23,543,369.88	23,515,301.38
	23,543,369.88	23,543,369.88	23,515,301.38

Escrow Cost Summary

Purchase date	10/22/2014
Purchase cost of securities	23,515,301.38
Target for yield calculation	23,515,301.38

ESCROW SUFFICIENCY

City of Quincy, Massachusetts
General Obligation Refunding Bonds
Refunding of Honeywell Lease
Estimated Market Rates as of 9/24/2014

Date	Escrow Requirement	Net Escrow Receipts	Excess Receipts	Excess Balance
11/18/2014	23,543,369.88	23,543,369.88	-	-
	23,543,369.88	23,543,369.88	0.00	

ESCROW STATISTICS

City of Quincy, Massachusetts
 General Obligation Refunding Bonds
 Refunding of Honeywell Lease
 Estimated Market Rates as of 9/24/2014

Total Escrow Cost	Modified Duration (years)	Yield to Receipt Date	Yield to Disbursement Date	Perfect Escrow Cost	Value of Negative Arbitrage	Cost of Dead Time
23,515,301.38	0.072	1.658568%	1.658568%	23,509,060.01	6,241.37	-
23,515,301.38				23,509,060.01	6,241.37	0.00

Delivery date 10/22/2014
 Arbitrage yield 2.029507%

PROOF OF COMPOSITE ESCROW YIELD

City of Quincy, Massachusetts
 General Obligation Refunding Bonds
 Refunding of Honeywell Lease
 Estimated Market Rates as of 9/24/2014

All restricted escrows funded by bond proceeds

Date	Security Receipts	Present Value to 10/22/2014 @ 1.6585681447%
11/18/2014	23,543,369.88	23,515,301.38
	23,543,369.88	23,515,301.38

Escrow Cost Summary

Purchase date	10/22/2014
Purchase cost of securities	23,515,301.38
Target for yield calculation	23,515,301.38

SUMMARY OF BONDS REFUNDED

City of Quincy, Massachusetts
 General Obligation Refunding Bonds
 Refunding of Honeywell Lease
 Estimated Market Rates as of 9/24/2014

Bond	Maturity Date	Interest Rate	Par Amount	Call Date	Call Price
Honeywell Lease dated November 2007, LEASE:					
Bond Component, BOND	05/18/2015	4.244%	806,170.28	11/18/2014	100.000
	11/18/2015	4.244%	823,275.20	11/18/2014	100.000
	05/18/2016	4.244%	840,743.04	11/18/2014	100.000
	11/18/2016	4.244%	858,581.51	11/18/2014	100.000
	05/18/2017	4.244%	836,684.36	11/18/2014	100.000
	11/18/2017	4.244%	854,436.71	11/18/2014	100.000
	05/18/2018	4.244%	872,565.73	11/18/2014	100.000
	11/18/2018	4.244%	891,079.39	11/18/2014	100.000
	05/18/2019	4.244%	909,985.87	11/18/2014	100.000
	11/18/2019	4.244%	929,293.49	11/18/2014	100.000
	05/18/2020	4.244%	949,010.78	11/18/2014	100.000
	11/18/2020	4.244%	969,146.41	11/18/2014	100.000
	05/18/2021	4.244%	989,709.28	11/18/2014	100.000
	11/18/2021	4.244%	1,010,708.43	11/18/2014	100.000
	05/18/2022	4.244%	954,768.26	11/18/2014	100.000
	11/18/2022	4.244%	975,026.06	11/18/2014	100.000
	05/18/2023	4.244%	995,713.67	11/18/2014	100.000
	11/18/2023	4.244%	1,016,840.23	11/18/2014	100.000
	05/18/2024	4.244%	1,038,415.03	11/18/2014	100.000
	11/18/2024	4.244%	1,060,447.61	11/18/2014	100.000
	05/18/2025	4.244%	1,082,947.65	11/18/2014	100.000
	11/18/2025	4.244%	1,105,925.09	11/18/2014	100.000
	05/18/2026	4.244%	1,129,390.06	11/18/2014	100.000
	11/18/2026	4.244%	1,153,352.89	11/18/2014	100.000
			23,054,217.03		