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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-A

December 22, 2006

PAGE 1  
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000 D000000 N  
000 E000000 NF  
000 F000000 Y  
000 G000000 N  
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001 C000000 6177427825  
002 A000000 60 STATE STREET  
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002 C000000 MA  
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010 A000002 PRINCETON ADMINISTRATORS, LLC  
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.  
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011 C020001 MA  
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011 A000002 UBS WARBURG  
011 B000002 8-022651  
011 C010002 STAMFORD  
011 C020002 CT

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011 A000004 ADVEST, INC.  
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011 A000005 JANNEY MONTGOMERY SCOTT LLC  
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011 A000006 MCDONALD INVESTMENTS INC.  
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011 C010006 CLEVELAND  
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011 A000007 STIFEL, NICOLAUS & COMPANY INCORPORATED  
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013 A000001 ERNST & YOUNG LLP  
PAGE 3  
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| SIGNATURE | MARY KELLERMANN    |                            |
| TITLE     | ACCOUNTING MANAGER |                            |