

NUVEEN MUNICIPAL HIGH INCOME OPPORTUNITY FUND

Form NSAR-A

June 28, 2007

PAGE 1  
000 A000000 04/30/2007  
000 C000000 0001266585  
000 D000000 N  
000 E000000 NF  
000 F000000 Y  
000 G000000 N  
000 H000000 N  
000 I000000 6.1  
000 J000000 A  
001 A000000 NUVEEN MUNICIPAL HIGH INCOME OPPORTUNITY FUND  
001 B000000 811-21449  
001 C000000 3129178200  
002 A000000 333 WEST WACKER DRIVE  
002 B000000 CHICAGO  
002 C000000 IL  
002 D010000 60606  
002 D020000 1286  
003 000000 N  
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007 C010800 8  
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008 A000001 NUVEEN ASSET MANAGEMENT  
008 B000001 A  
008 C000001 801-14147  
008 D010001 CHICAGO  
008 D020001 IL  
008 D030001 60606  
008 D040001 1286  
012 A000001 EQUISERVE INC.  
012 B000001 84-05925  
012 C010001 PROVIDENCE  
012 C020001 RI  
012 C030001 02940  
013 A000001 ERNST & YOUNG LLP  
013 B010001 CHICAGO  
013 B020001 IL  
013 B030001 60606  
014 A000001 NUVEEN INVESTMENTS, LLC  
014 B000001 8-13464  
PAGE 2  
015 A000001 STATE STREET BANK AND TRUST COMPANY  
015 B000001 C  
015 C010001 BOSTON  
015 C020001 MA  
015 C030001 02110  
015 E010001 X

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022 A000002 MORGAN STANLEY  
022 B000002 13-2655998  
022 C000002 15651  
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022 A000003 RYAN, BECK & CO  
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058 A000000 N  
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PAGE 6

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070 R010000 N  
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 071 A000000 43882  
 071 B000000 24373  
 071 C000000 540417

PAGE 7

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074 N000000 551006  
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| 088       | B000000           | N            |
| 088       | C000000           | N            |
| 088       | D000000           | Y            |
| SIGNATURE | STEPHEN D. FOY    |              |
| TITLE     | V.P. & CONTROLLER |              |