

PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST
Form N-PX
August 19, 2011

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM N-PX
ANNUAL REPORT OF PROXY VOTING RECORD OF REGISTERED
MANAGEMENT INVESTMENT COMPANIES

Investment Company Act file number 811-21409

Pioneer Municipal High Income Advantage Trust

(Exact name of registrant as specified in charter)

60 State Street Boston, MA 02109

(Address of principal executive offices)

Terrence J. Cullen
60 State Street
Boston, MA 02109

(Name and address of agent for service)

Registrant's telephone number, including area code: (617) 742-7825

Date of fiscal year end: March 31

Date of reporting period: July 1, 2010 to June 30, 2011

SIGNATURES

Pursuant to the requirements of the Investment Company Act of 1940, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

(Registrant) Pioneer Municipal High Income Advantage Trust

By (Signature and Title) /s/ John F. Cogan, Jr.

John F. Cogan, Jr., Chairman and President

Date August 19, 2011

===== PIONEER MUNI HIGH INCOME ADVANTAGE TRUST =====

CONNECTOR 2000 ASSN INC S C TOLL RD REV

Ticker: Security ID: 20786LAB7
 Meeting Date: MAR 04, 2011 Meeting Type: Written Consent
 Record Date: JAN 05, 2011

| # | Proposal | Mgt Rec | Vote Cast | Sponsor |
|---|---|---------|-----------|------------|
| 1 | To Accept The Plan, As Further Described In The Consentsolicitation Package | For | For | Management |

 DELTA AIR LINES, INC.

Ticker: DAL Security ID: 247361702
 Meeting Date: JUN 30, 2011 Meeting Type: Annual
 Record Date: MAY 02, 2011

| # | Proposal | Mgt Rec | Vote Cast | Sponsor |
|----|--|----------|-----------|-------------|
| 1 | Elect Director Richard H. Anderson | For | For | Management |
| 2 | Elect Director Edward H. Bastian | For | For | Management |
| 3 | Elect Director Roy J. Bostock | For | For | Management |
| 4 | Elect Director John S. Brinzo | For | For | Management |
| 5 | Elect Director Daniel A. Carp | For | For | Management |
| 6 | Elect Director John M. Engler | For | For | Management |
| 7 | Elect Director Mickey P. Foret | For | For | Management |
| 8 | Elect Director David R. Goode | For | For | Management |
| 9 | Elect Director Paula Rosput Reynolds | For | For | Management |
| 10 | Elect Director Kenneth C. Rogers | For | For | Management |
| 11 | Elect Director Kenneth B. Woodrow | For | For | Management |
| 12 | Advisory Vote to Ratify Named Executive Officers' Compensation | For | For | Management |
| 13 | Advisory Vote on Say on Pay Frequency | One Year | One Year | Management |
| 14 | Ratify Auditors | For | For | Management |
| 15 | Provide for Cumulative Voting | Against | For | Shareholder |

===== END NPX REPORT