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Pioneer Diversified High Income Trust
Form NSAR-A
December 30, 2011

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000 A000000 10/31/2011
000 C000000 1388126
000 D000000 N
000 E000000 NF
000 F000000 Y
000 G000000 N
000 H000000 N
000 I000000 6.1
000 J000000 A
001 A000000 PIONEER DIVERSIFIED HIGH INCOME TRUST
001 B000000 811-22014
001 C000000 6177427825
002 A000000 60 STATE STREET
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002 C000000 MA
002 D010000 02109
003 000000 N
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005 000000 N
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008 D020001 MA
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008 B000002 S
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008 D050002 BERMUDA
010 A000001 PIONEER INVESTMENT MANAGEMENT, INC.
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010 C030001 02109
010 A000002 STATE STREET BANK & TRUST COMPANY, LLC
010 C010002 BOSTON
010 C020002 MA
010 C030002 02101
011 A000001 MERRILL LYNCH & CO.
011 B000001 8-7221
011 C010001 NEW YORK
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011 C030001 10281
011 C040001 1201
011 A000002 UBS INVESTMENT BANK
011 B000002 8-022651
PAGE 2
011 C010002 STAMFORD
011 C020002 CT
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011 A000003 RBC CAPITAL MARKETS CORP.
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011 C010003 MINNEAPOLIS

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011 C020003 MN
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011 A000004 ROBERT W. BAIRD & CO.
011 B000004 8-00497
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011 C040004 0672
011 A000005 JANNEY MONTGOMERY SCOTT, LLC
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011 C010005 PHILADELPHIA
011 C020005 PA
011 C030005 19103
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011 A000006 FERRIS, BAKER WATTS, INC.
011 B000006 8-00000
011 C010006 WASHINGTON
011 C020006 DC
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011 A000007 MORGAN KEEGAN & CO., INC.
011 B000007 8-15001
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011 C020007 TN
011 C030007 38103
012 A000001 PIONEER INVEST. MGT. SHAREHOLDER SVCS., INC.
012 B000001 85-1359
012 C010001 BOSTON
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012 A000002 AMERICAN STOCK TRANSFER & TRUST CO.
012 B000002 85-00000
012 C010002 BROOKLYN
012 C020002 NY
012 C030002 11219
013 A000001 ERNST & YOUNG, LLP
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015 A000001 BROWN BROTHERS HARRIMAN & CO.
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PAGE 3
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015 A000005 NATIONAL AUSTRALIA BANK
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PAGE 4
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015 A000014 BANCA COMMERCIALE ITALIANA
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015 A000017 HONK KONG BANK MALAYSIA

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015 A000021 DEN NORSE BANK
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PAGE 5
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015 A000028 CENTRAL TRUST OF CHINA
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015 C010028 TAIPEI
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015 A000029 HONG KONG AND SHANGHAI BANKING CORPORATION
015 B000029 S

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015 C010029 BANGKOK
015 D010029 THAILAND
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015 A000030 MIDLAND BANK
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PAGE 6

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022 A000002 ZIEGLER SECURITIES
022 B000002 39-1148883
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022 A000003 MESIROW FINANCIAL IN
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025 A000001 BARCLAYS CAPITAL, INC.
 025 B000001 61-0316560
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 025 A000002 BANK OF AMERICA CORP

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SIGNATURE MARK E. BRADLEY
 TITLE TREASURER