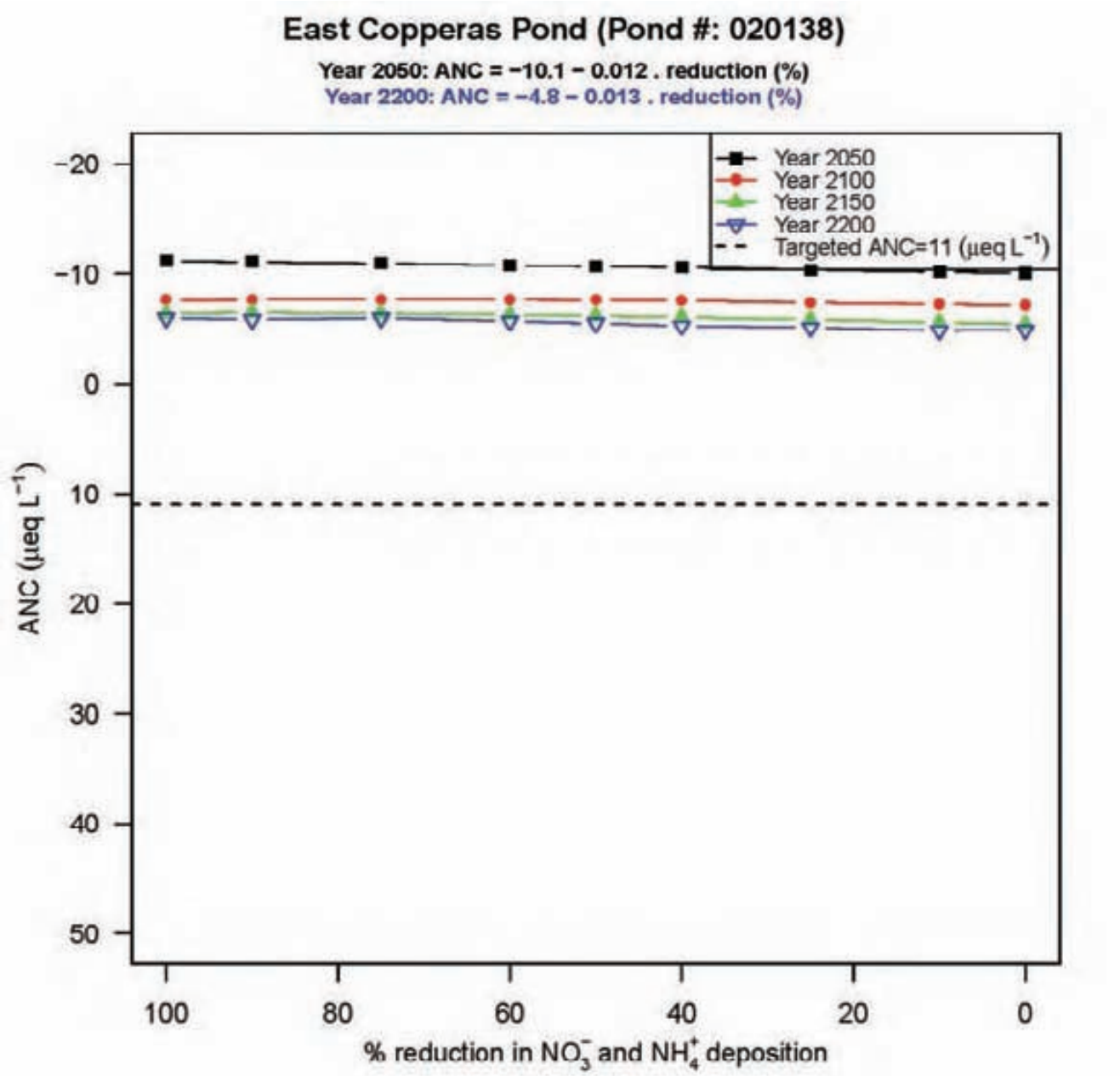
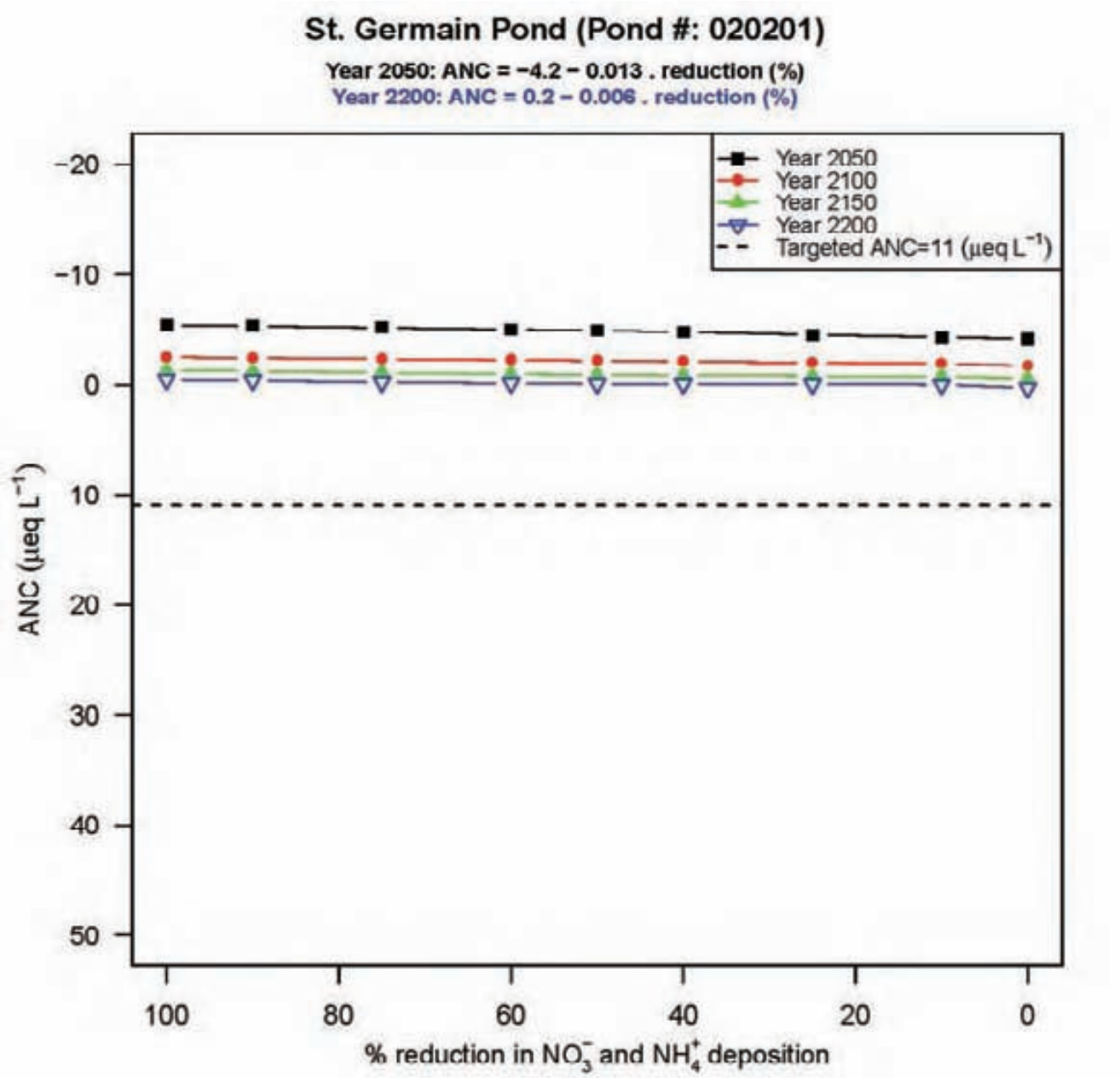
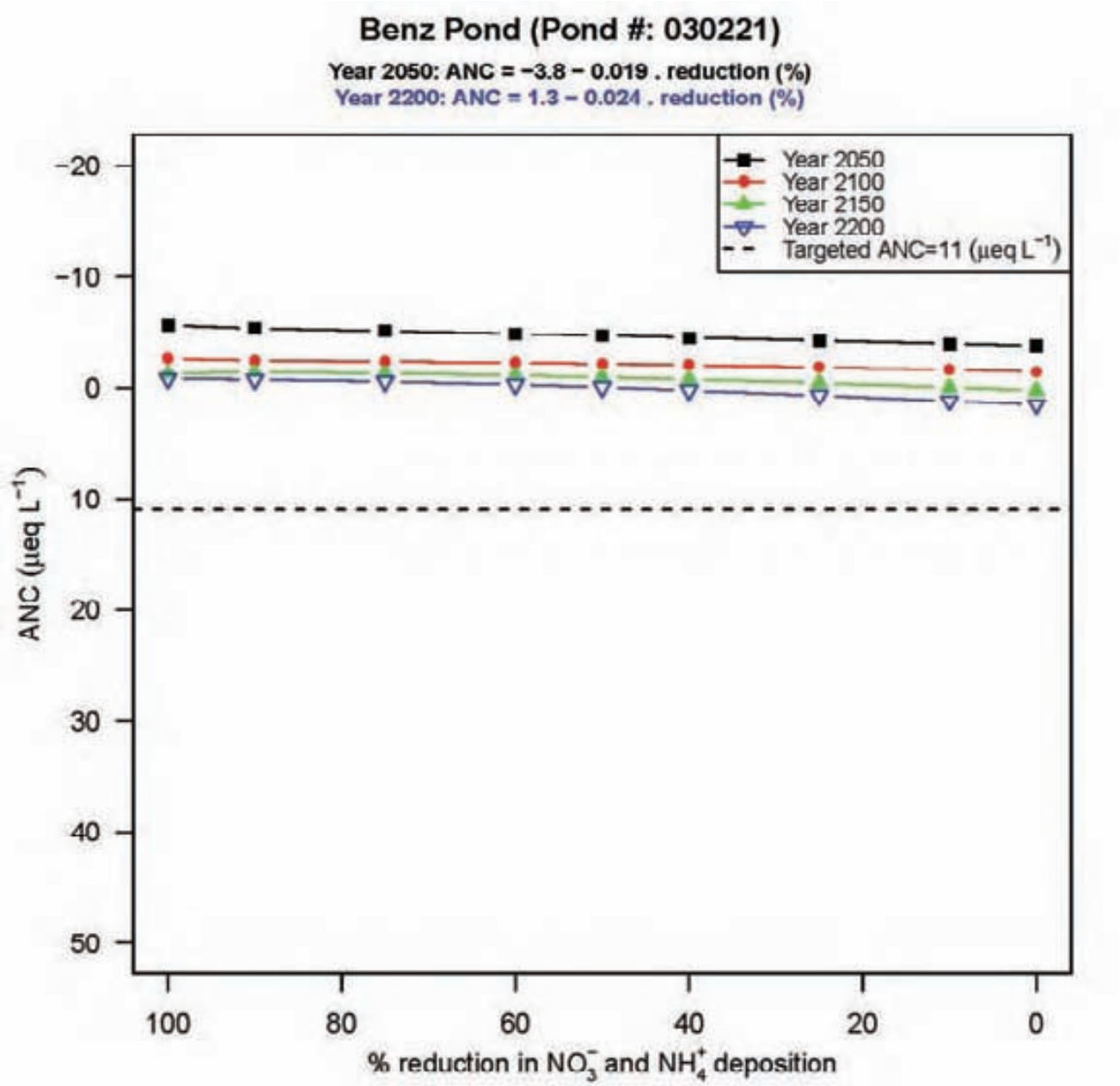
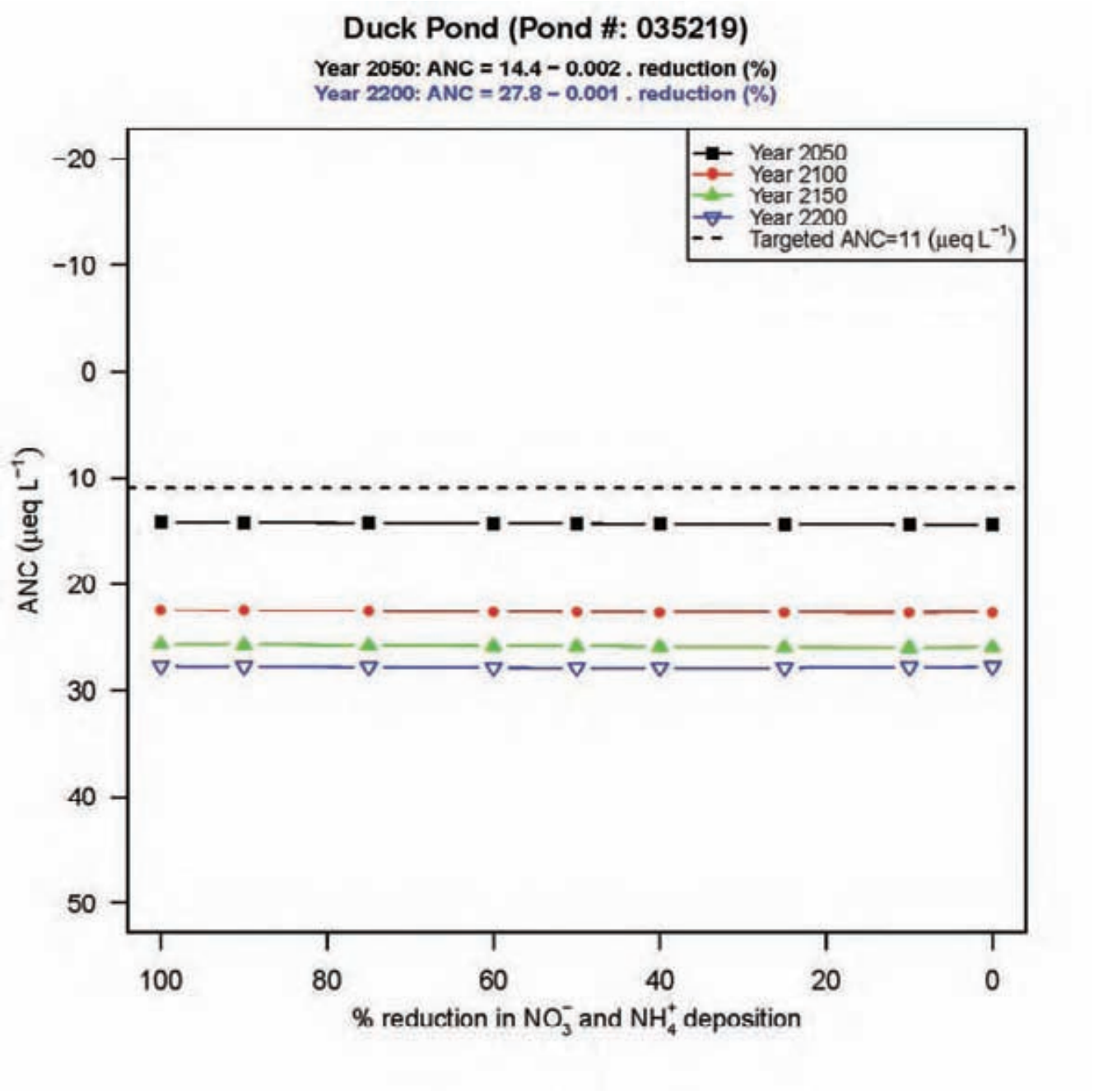
Appendix 6
Load-response plots for scenarios involving reductions in atmospheric $NO_3^- + NH_4^+$ deposition

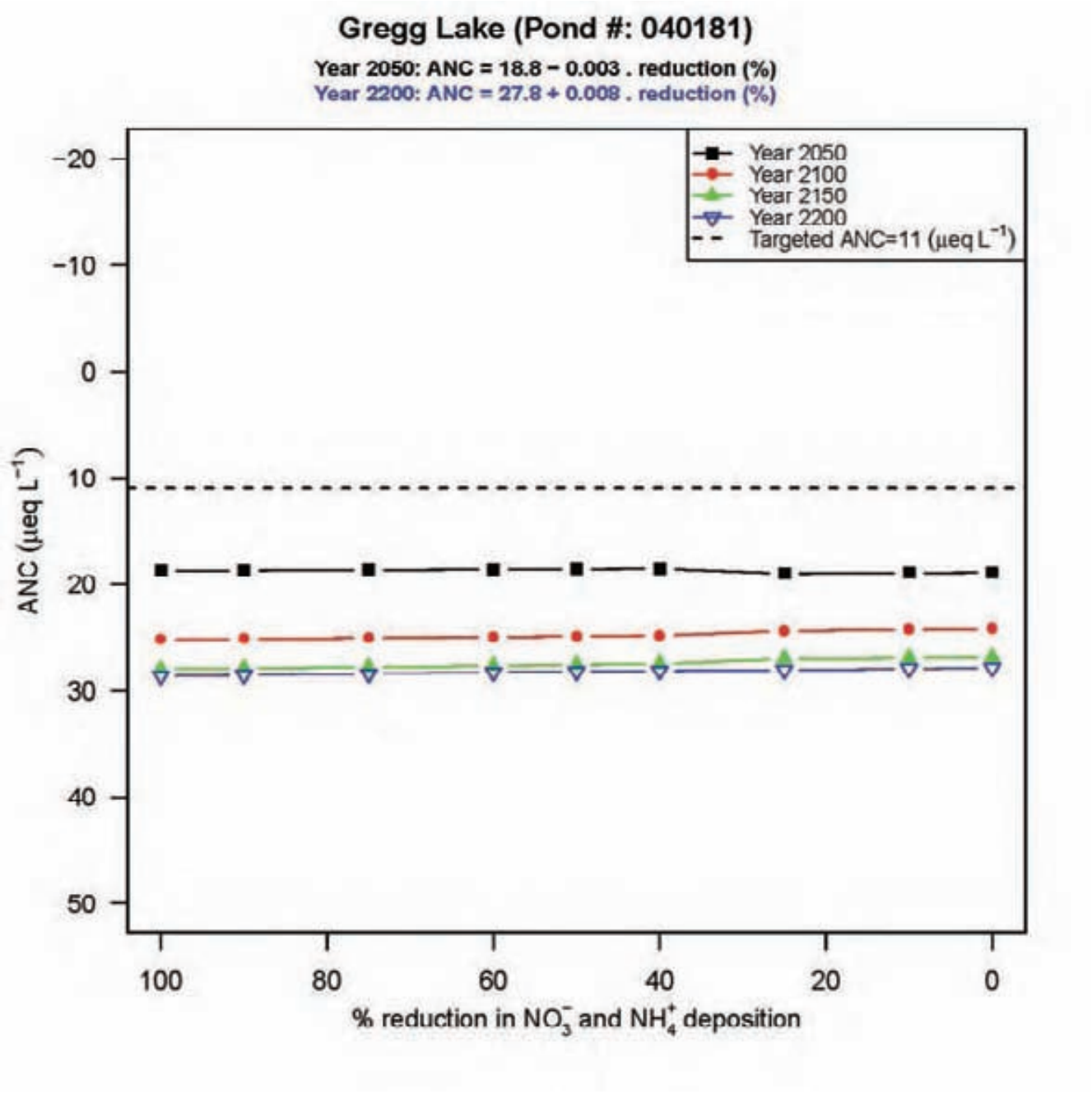
Load-response plots for scenarios involving reductions in atmospheric $NO_3^- + NH_4^+$ deposition. The percent reduction in atmospheric loading is along the x-axis and the corresponding model simulated ANC is along the y-axis. Results are shown for the years 2050, 2100, 2150 and 2200. For each lake, linear regression models were developed for 2050 and 2200 ANC values as a function of percent load reduction as follows: ANC = [intercept] ± [slope * reduction (%)].

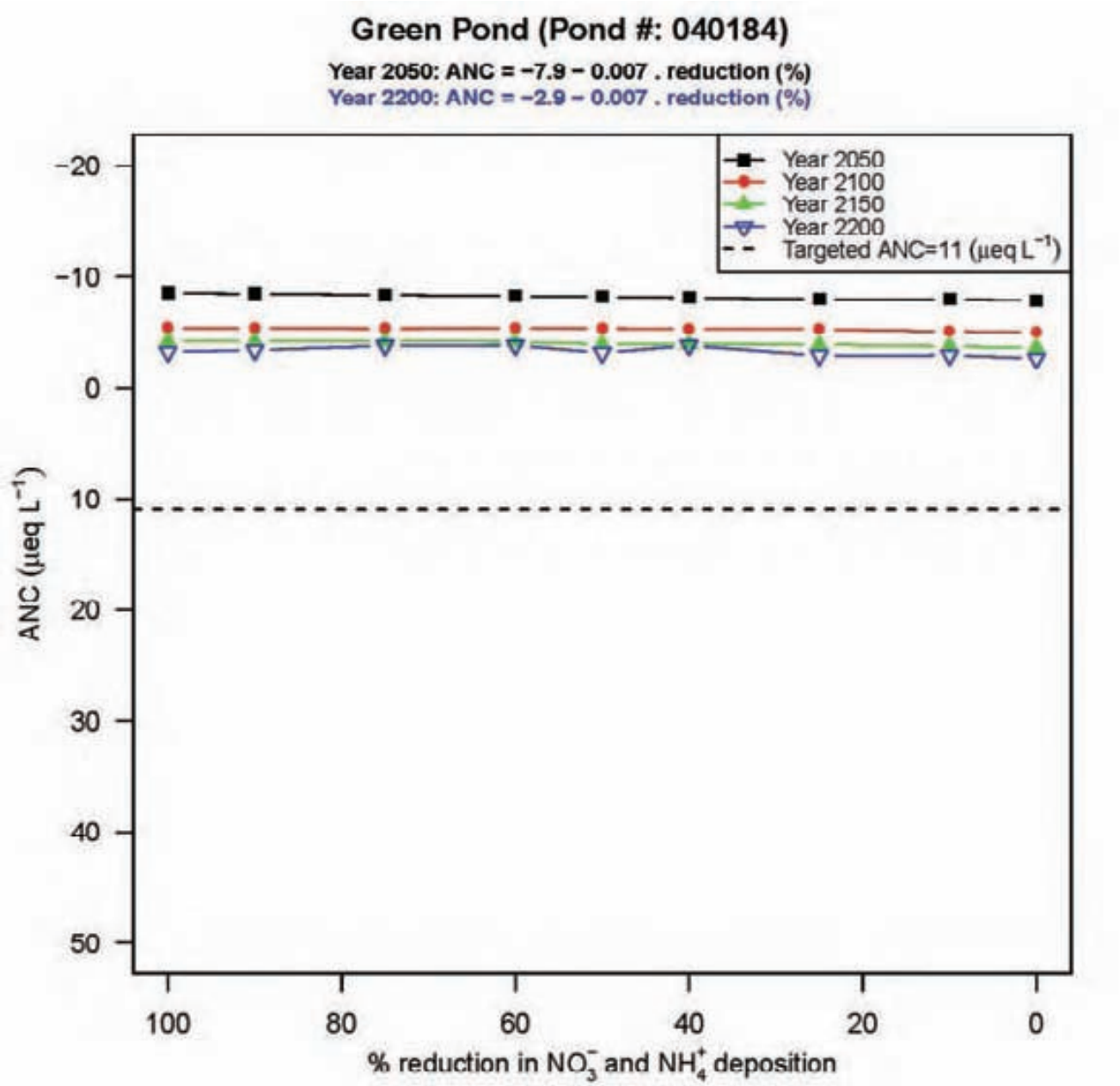

East Copperas Pond (Pond #: 020138)
Year 2050: ANC = −10.1 − 0.012 . reduction (%)
Year 2200: ANC = −4.8 − 0.013 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

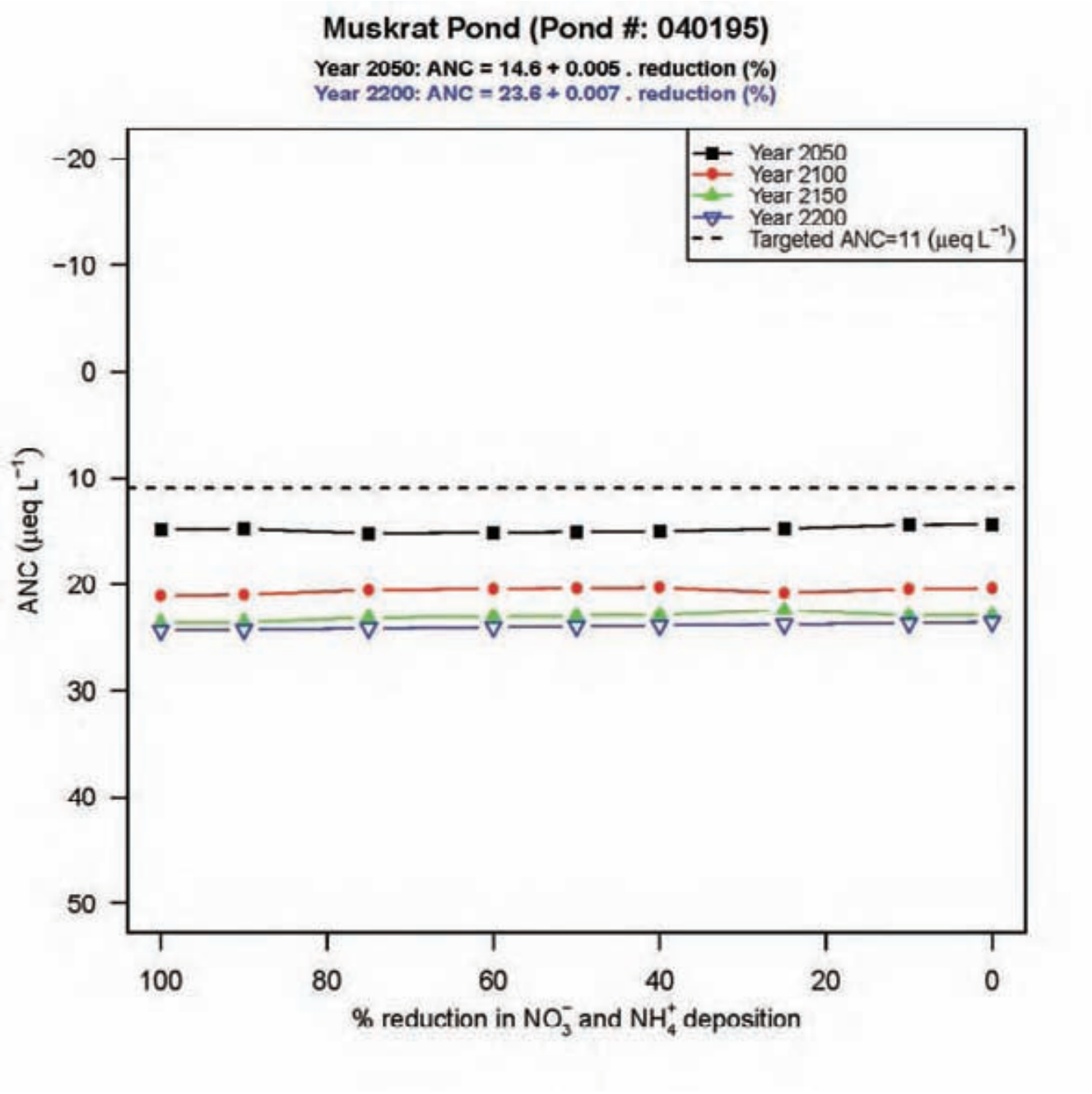

St. Germain Pond (Pond #: 020201)
Year 2050: ANC = −4.2 − 0.013 . reduction (%)
Year 2200: ANC = 0.2 − 0.006 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

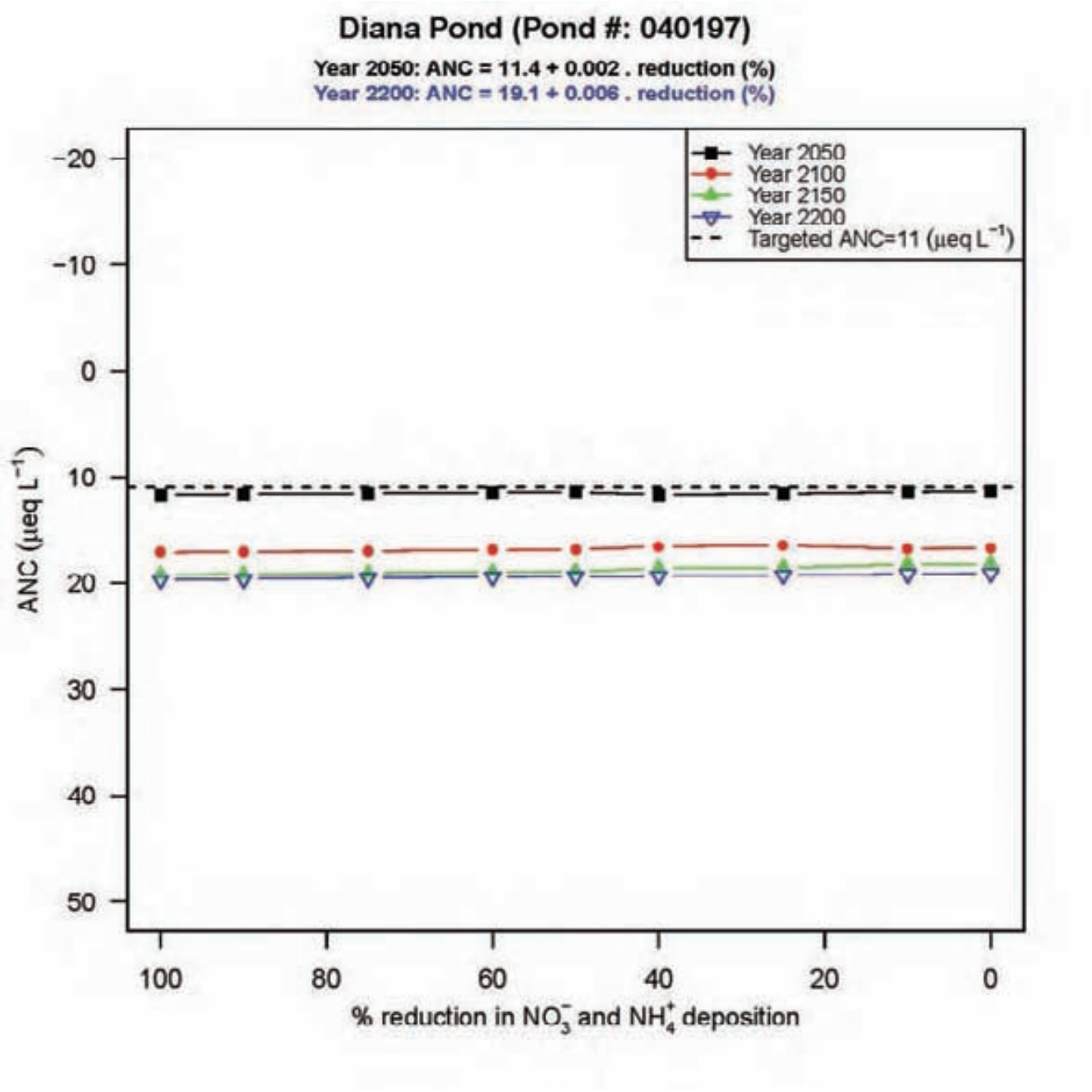

Benz Pond (Pond #: 030221)
Year 2050: ANC = −3.8 − 0.019 . reduction (%)
Year 2200: ANC = 1.3 − 0.024 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

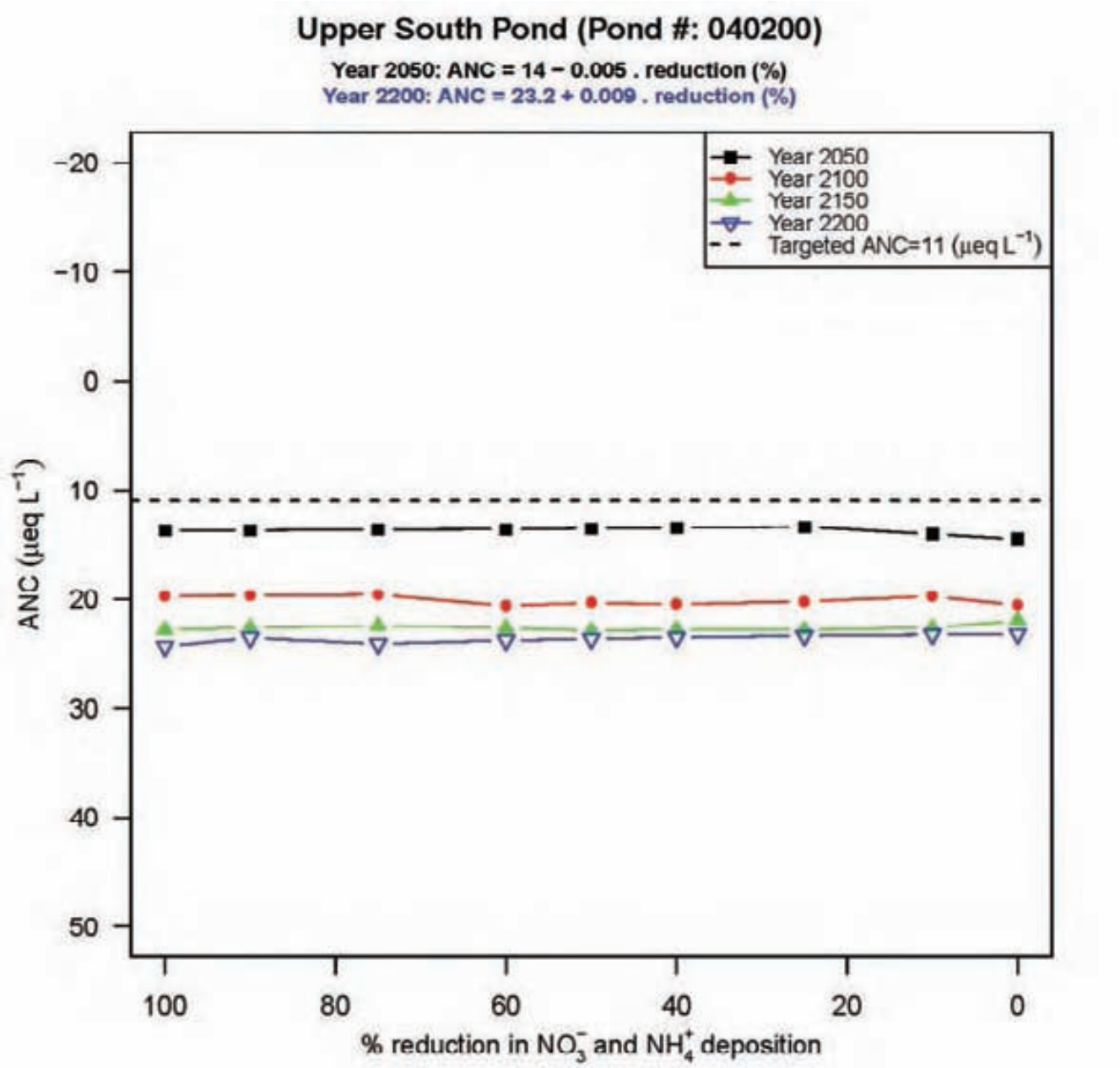

Duck Pond (Pond #: 035219)
Year 2050: ANC = 14.4 − 0.002 . reduction (%)
Year 2200: ANC = 27.8 − 0.001 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

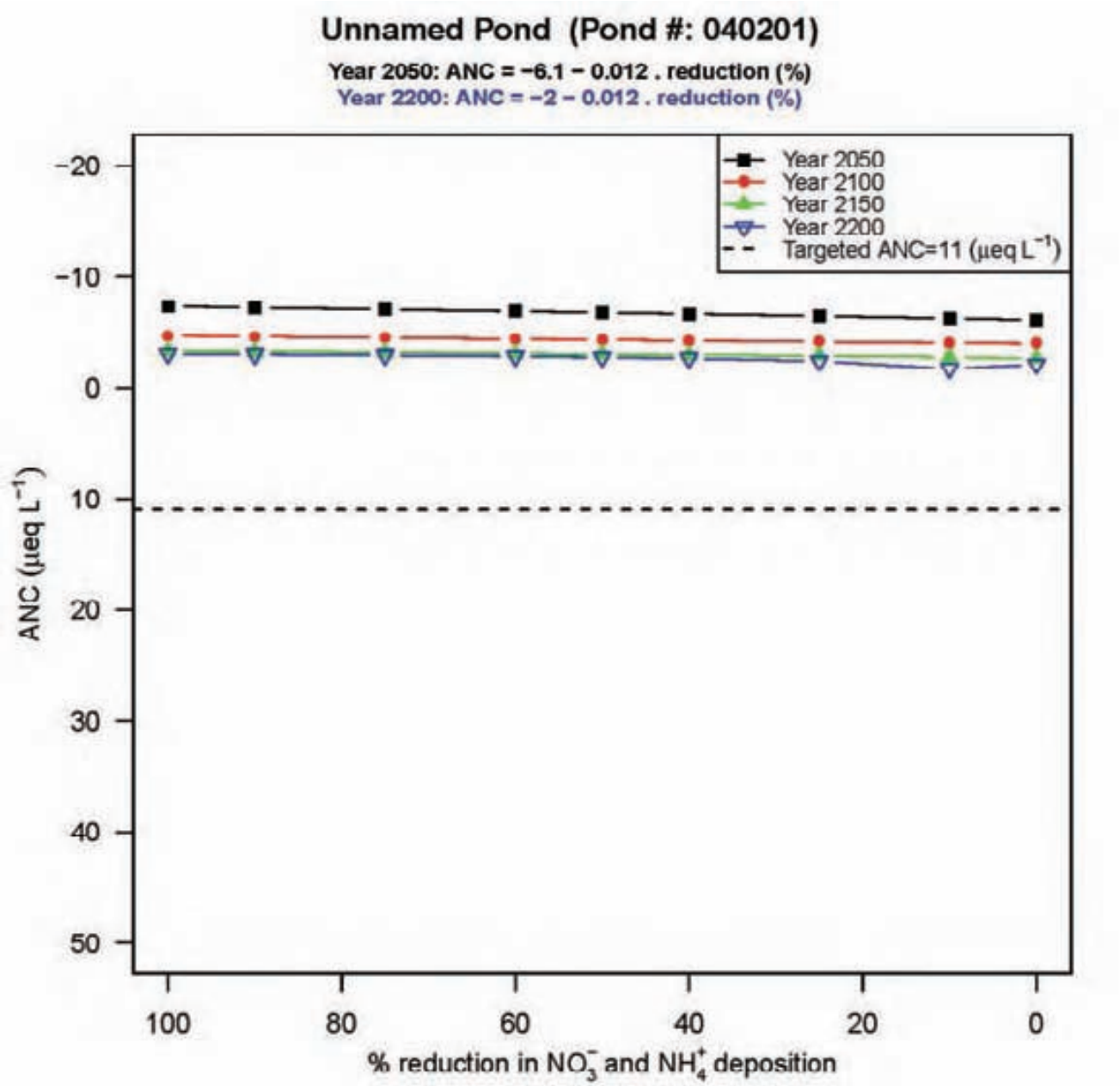

Gregg Lake (Pond #: 040181)
Year 2050: ANC = 18.8 − 0.003 . reduction (%)
Year 2200: ANC = 27.8 + 0.008 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

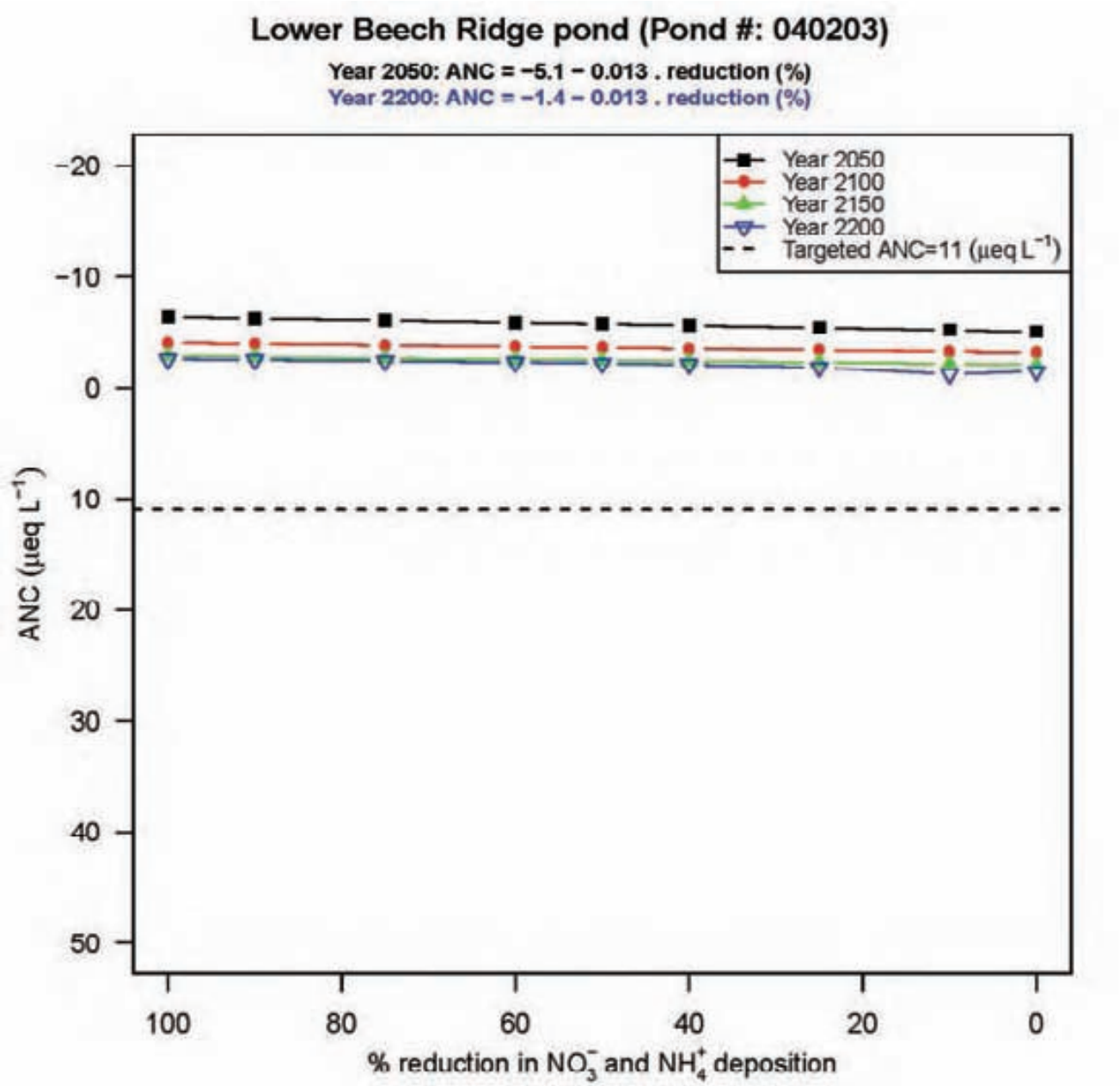

Green Pond (Pond #: 040184)
Year 2050: ANC = −7.9 − 0.007 . reduction (%)
Year 2200: ANC = −2.9 − 0.007 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

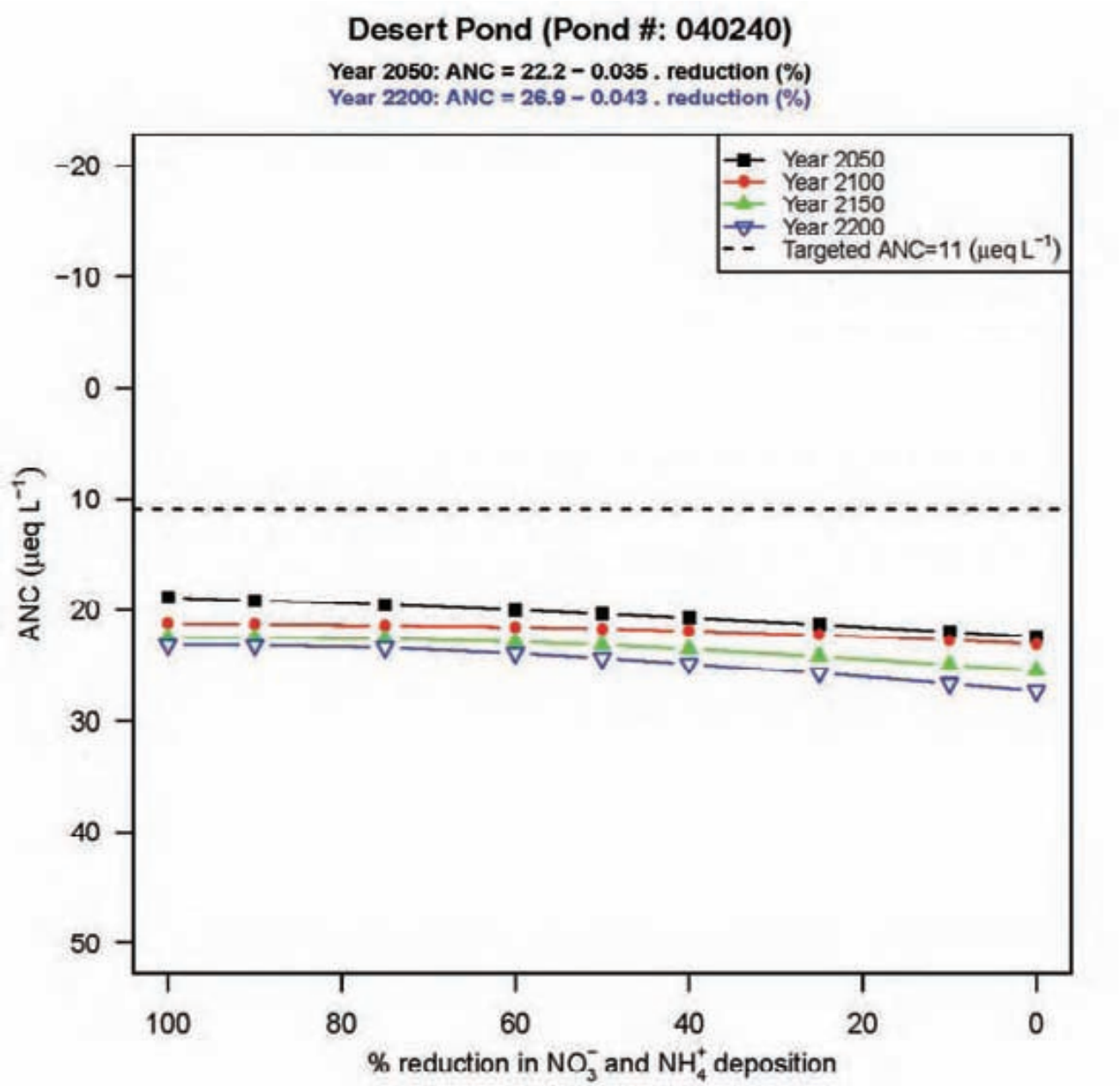

Muskrat Pond (Pond #: 040195)
Year 2050: ANC = 14.6 + 0.005 . reduction (%)
Year 2200: ANC = 23.6 + 0.007 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
-20
-10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

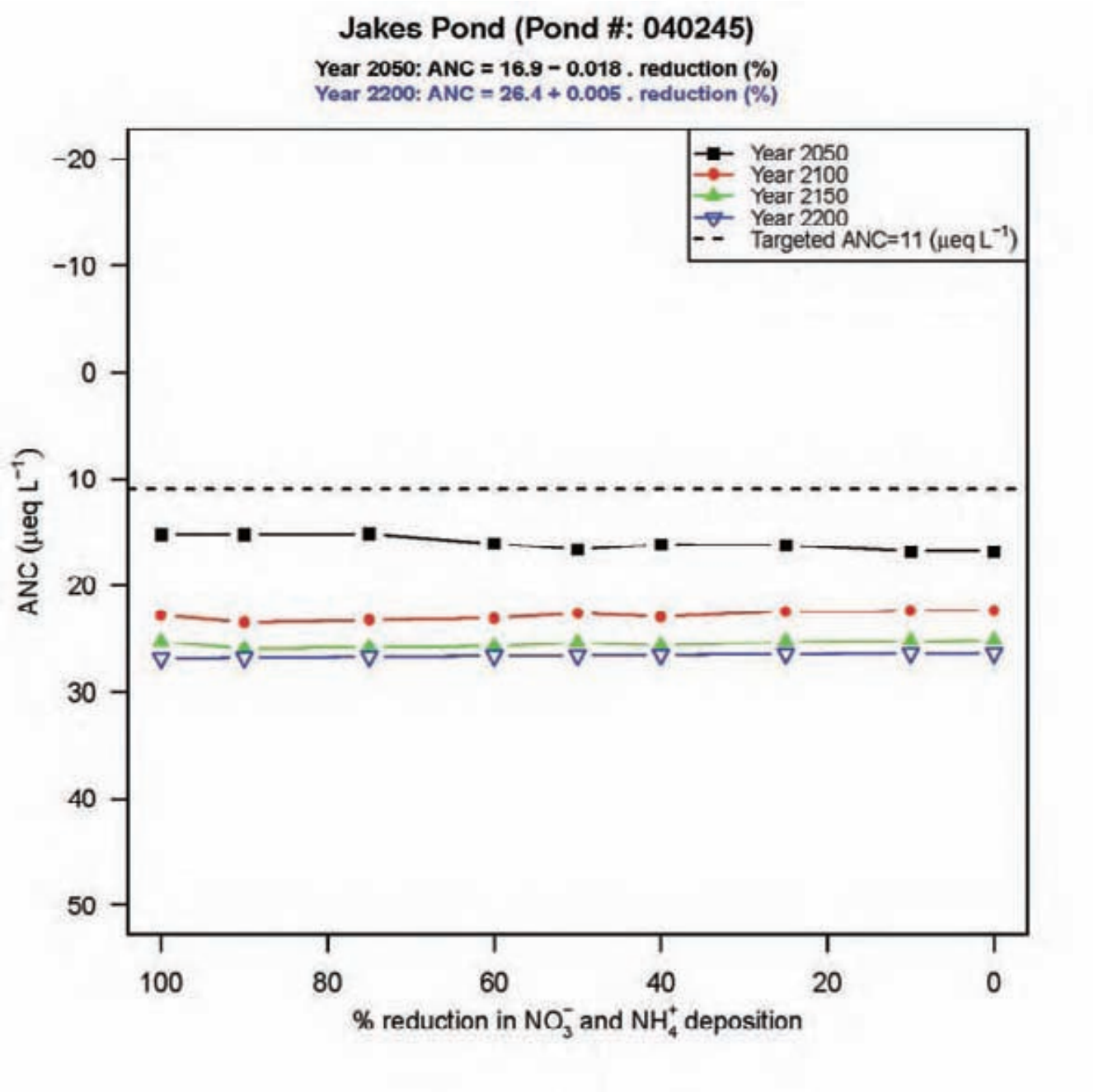

Diana Pond (Pond #: 040197)
Year 2050: ANC = 11.4 + 0.002 . reduction (%)
Year 2200: ANC = 19.1 + 0.006 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
-20
-10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

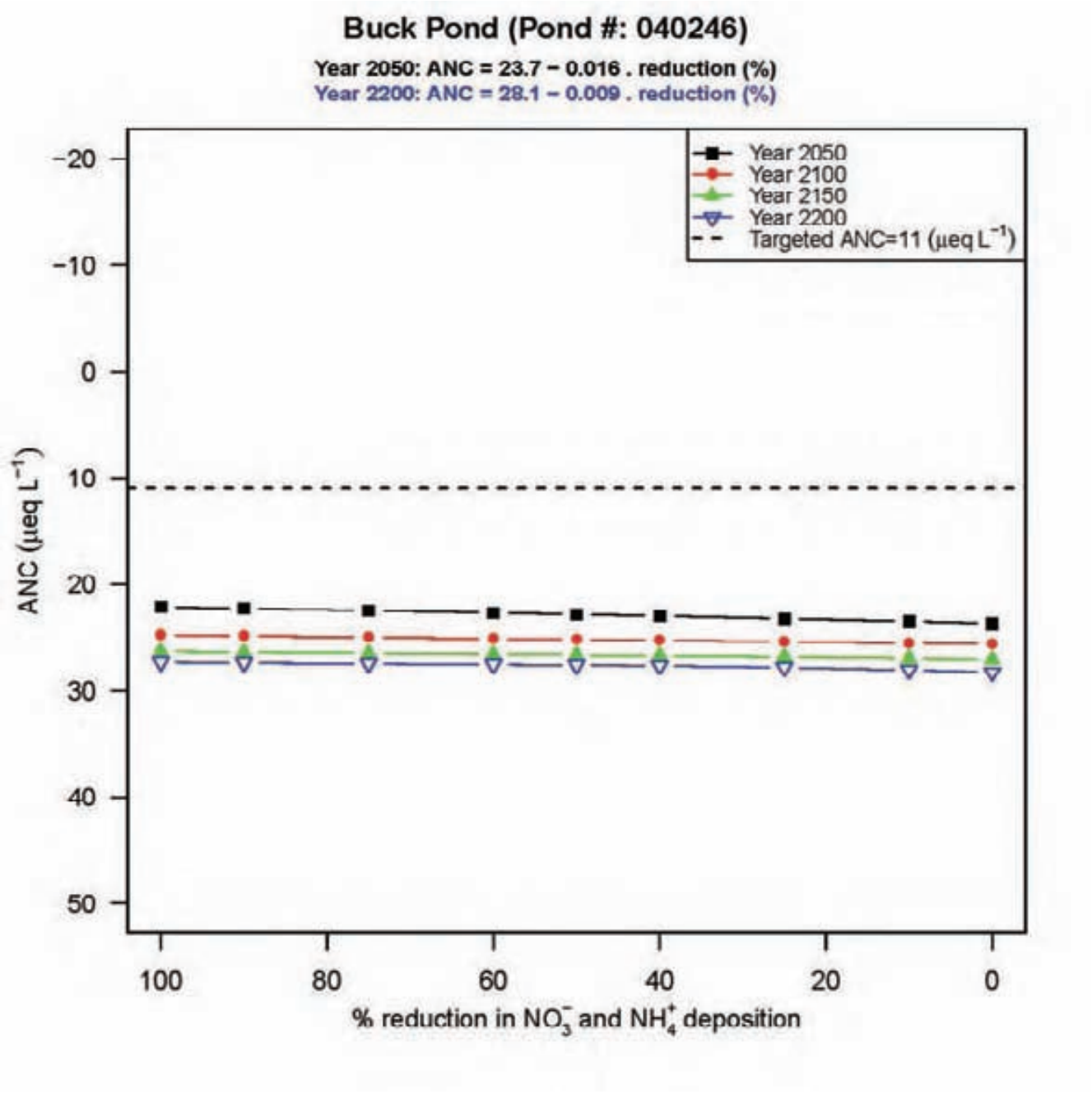

Upper South Pond (Pond #: 040200)
Year 2050: ANC = 14 − 0.005 . reduction (%)
Year 2200: ANC = 23.2 + 0.009 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

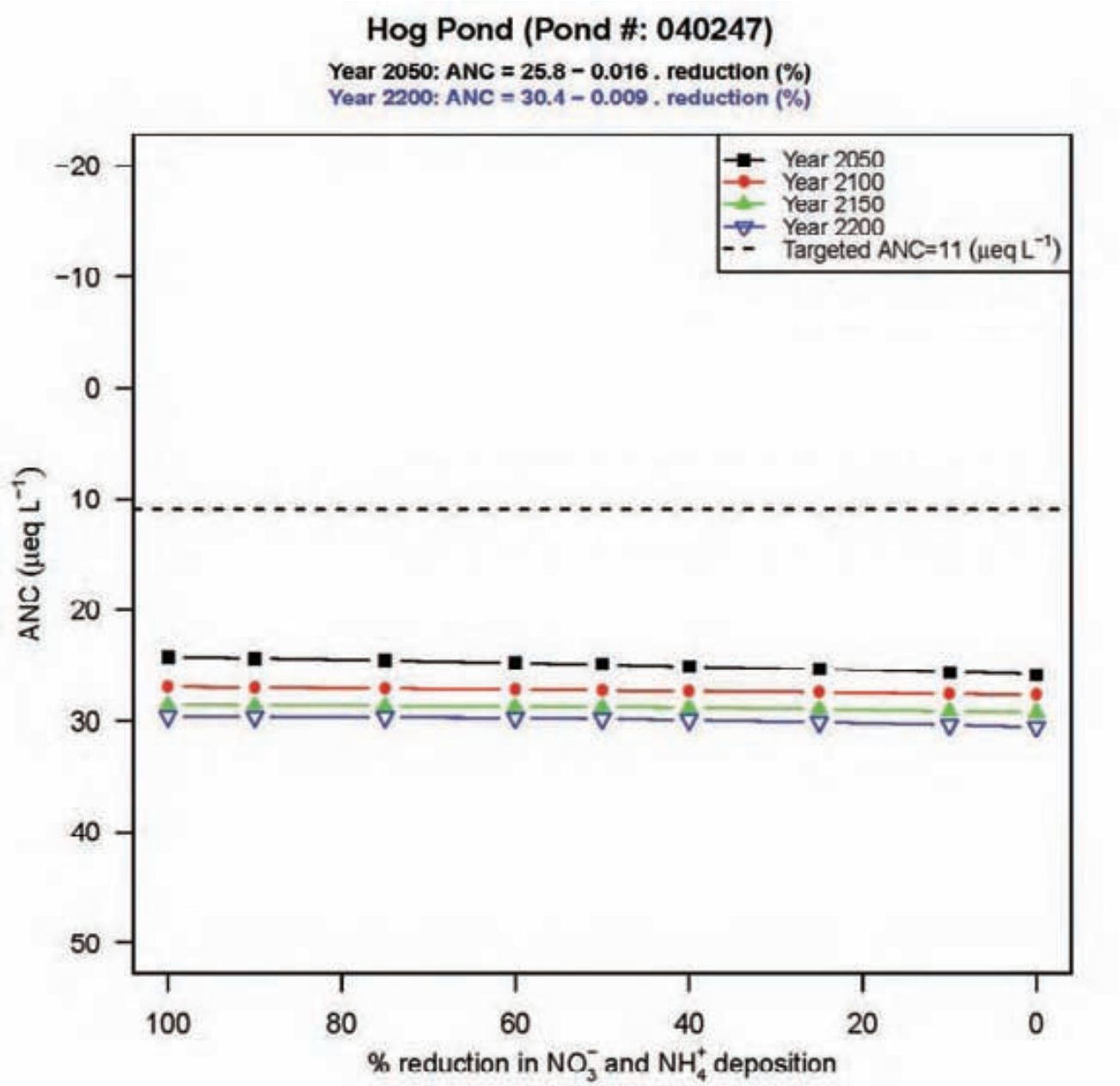

Unnamed Pond (Pond #: 040201)
Year 2050: ANC = −6.1 − 0.012 . reduction (%)
Year 2200: ANC = −2 − 0.012 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

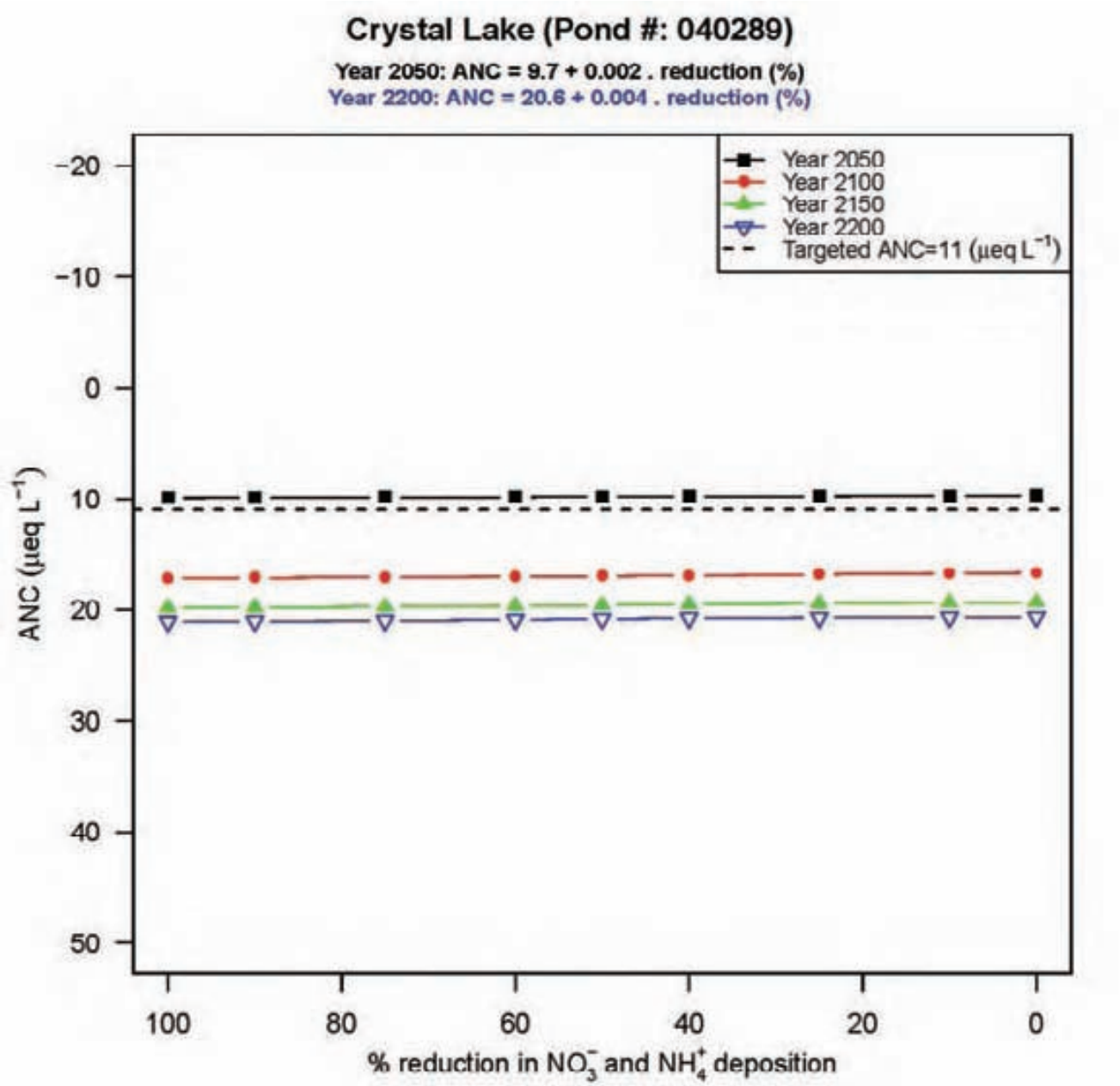

Lower Beech Ridge pond (Pond #: 040203)
Year 2050: ANC = −5.1 − 0.013 . reduction (%)
Year 2200: ANC = −1.4 − 0.013 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

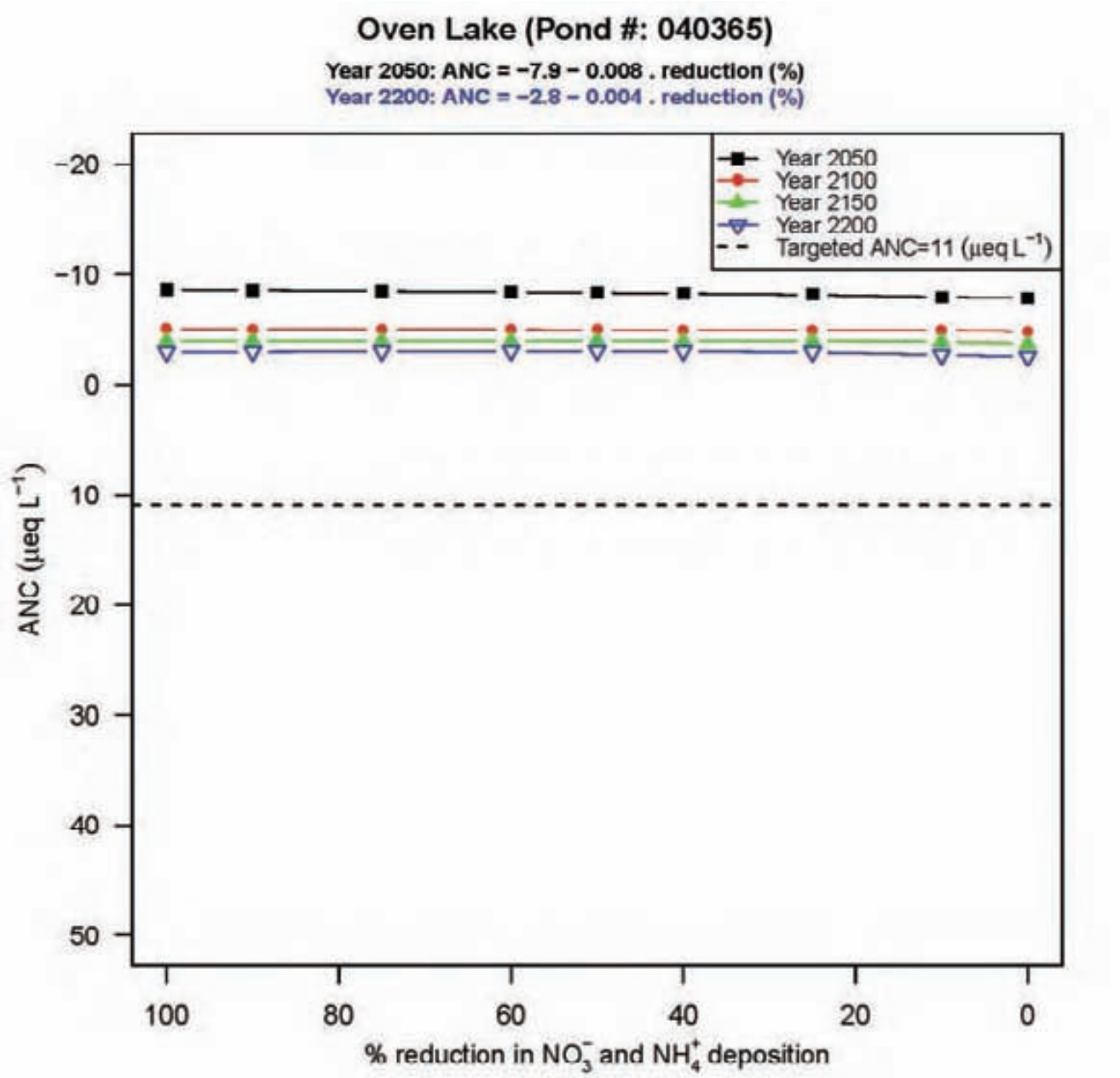

Desert Pond (Pond #: 040240)
Year 2050: ANC = 22.2 − 0.035 . reduction (%)
Year 2200: ANC = 26.9 − 0.043 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

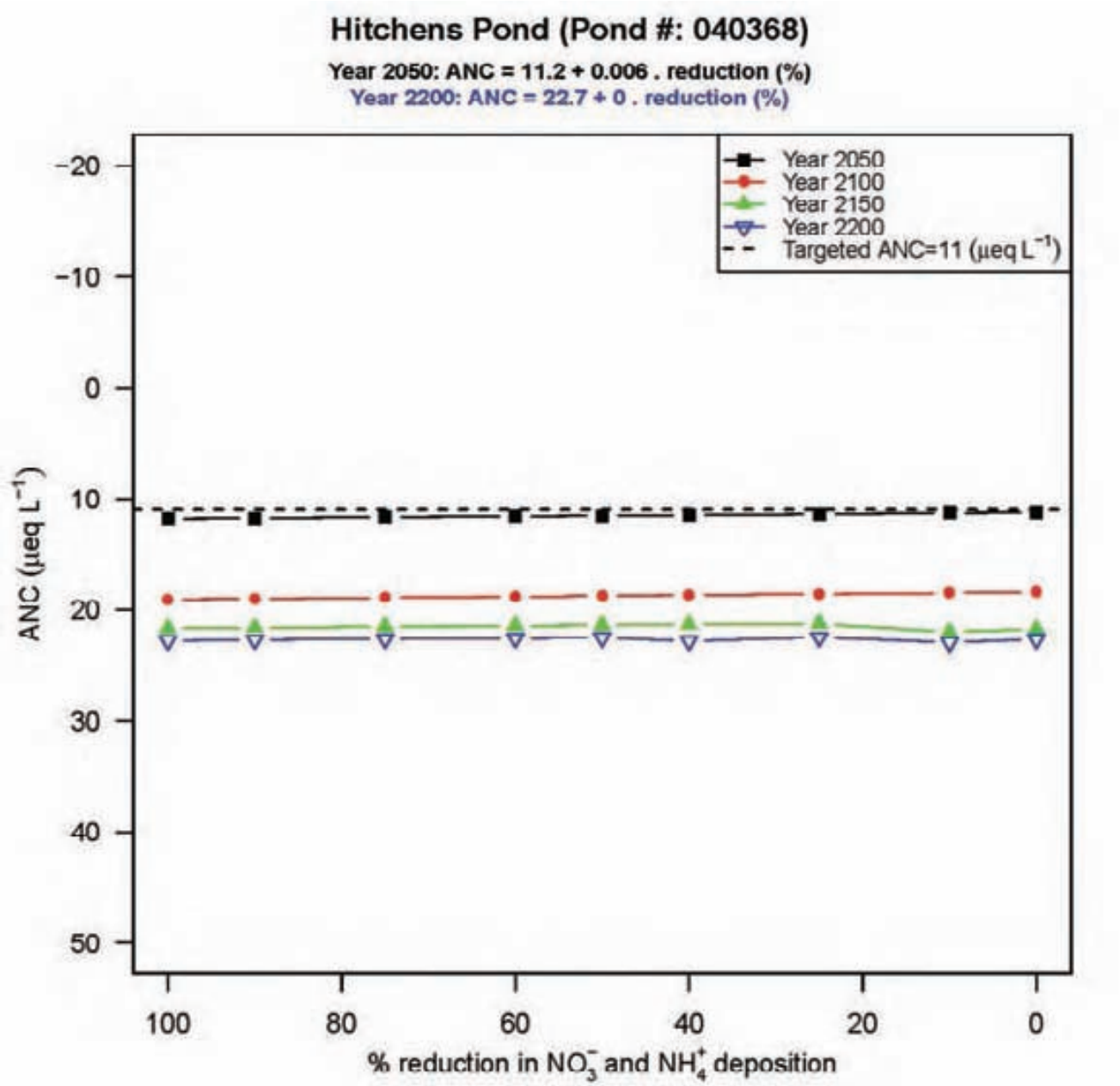

Jakes Pond (Pond #: 040245)
Year 2050: ANC = 16.9 − 0.018 . reduction (%)
Year 2200: ANC = 26.4 + 0.005 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

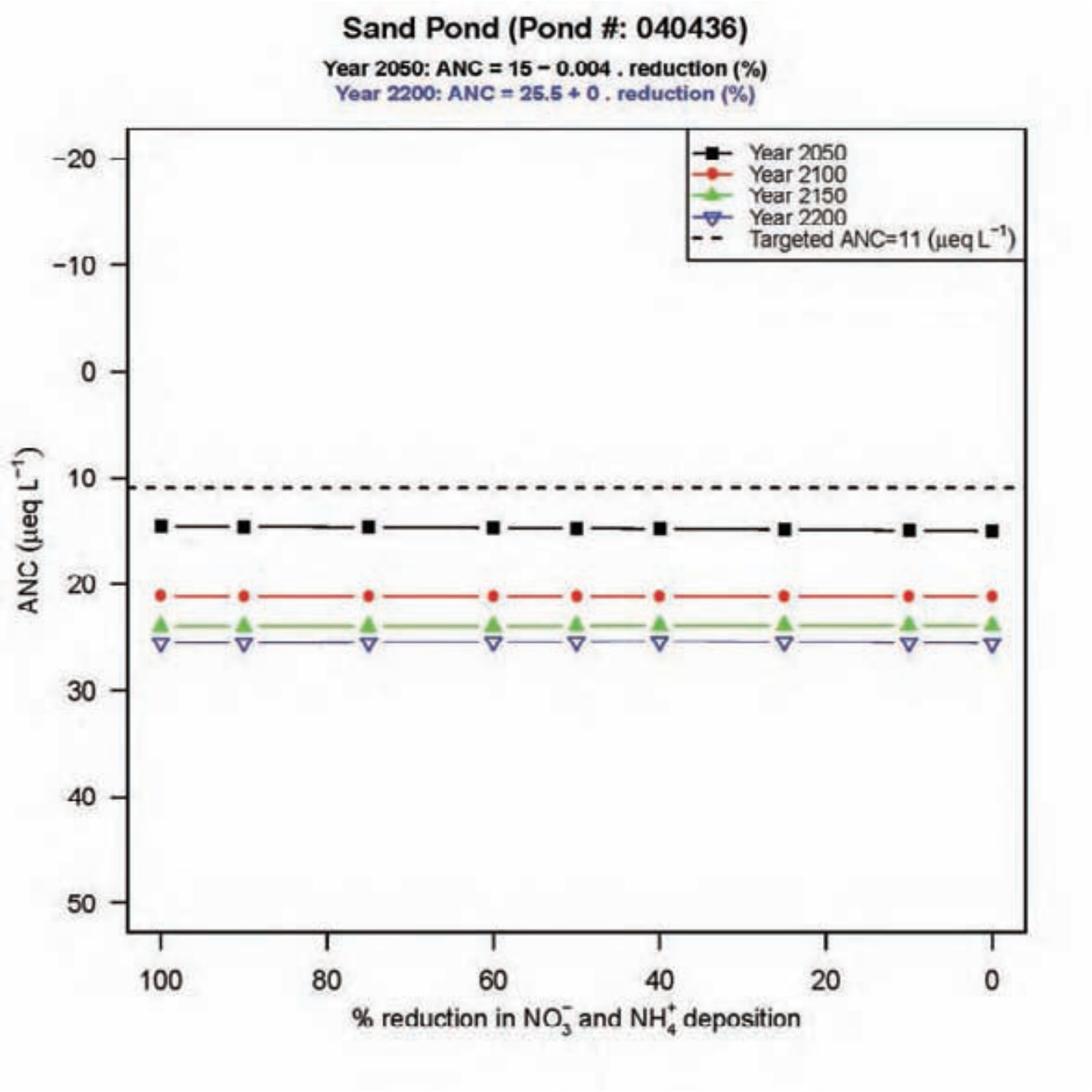

Buck Pond (Pond #: 040246)
Year 2050: ANC = 23.7 − 0.016 . reduction (%)
Year 2200: ANC = 28.1 − 0.009 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

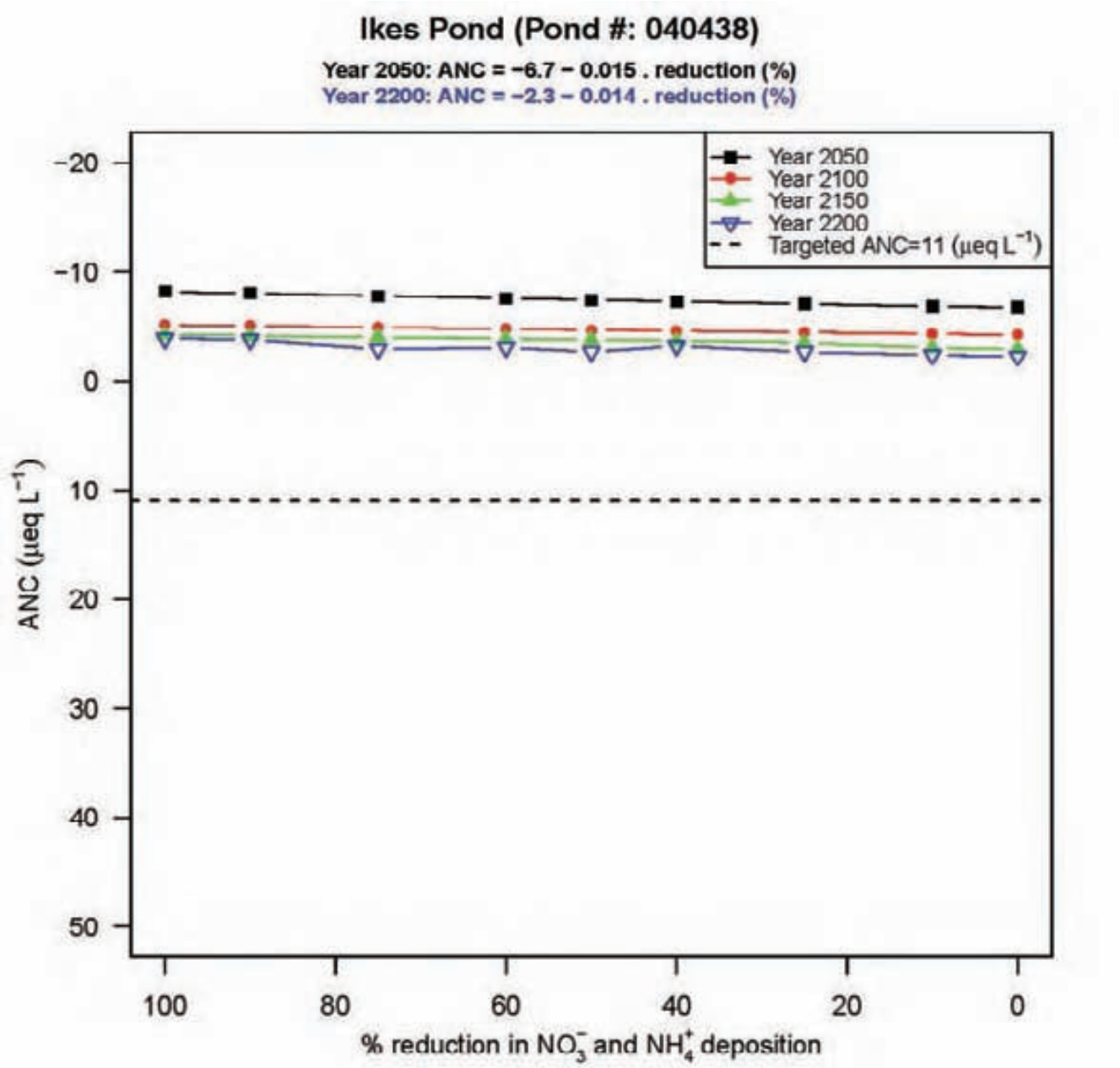

Hog Pond (Pond #: 040247)
Year 2050: ANC = 25.8 − 0.016 . reduction (%)
Year 2200: ANC = 30.4 − 0.009 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

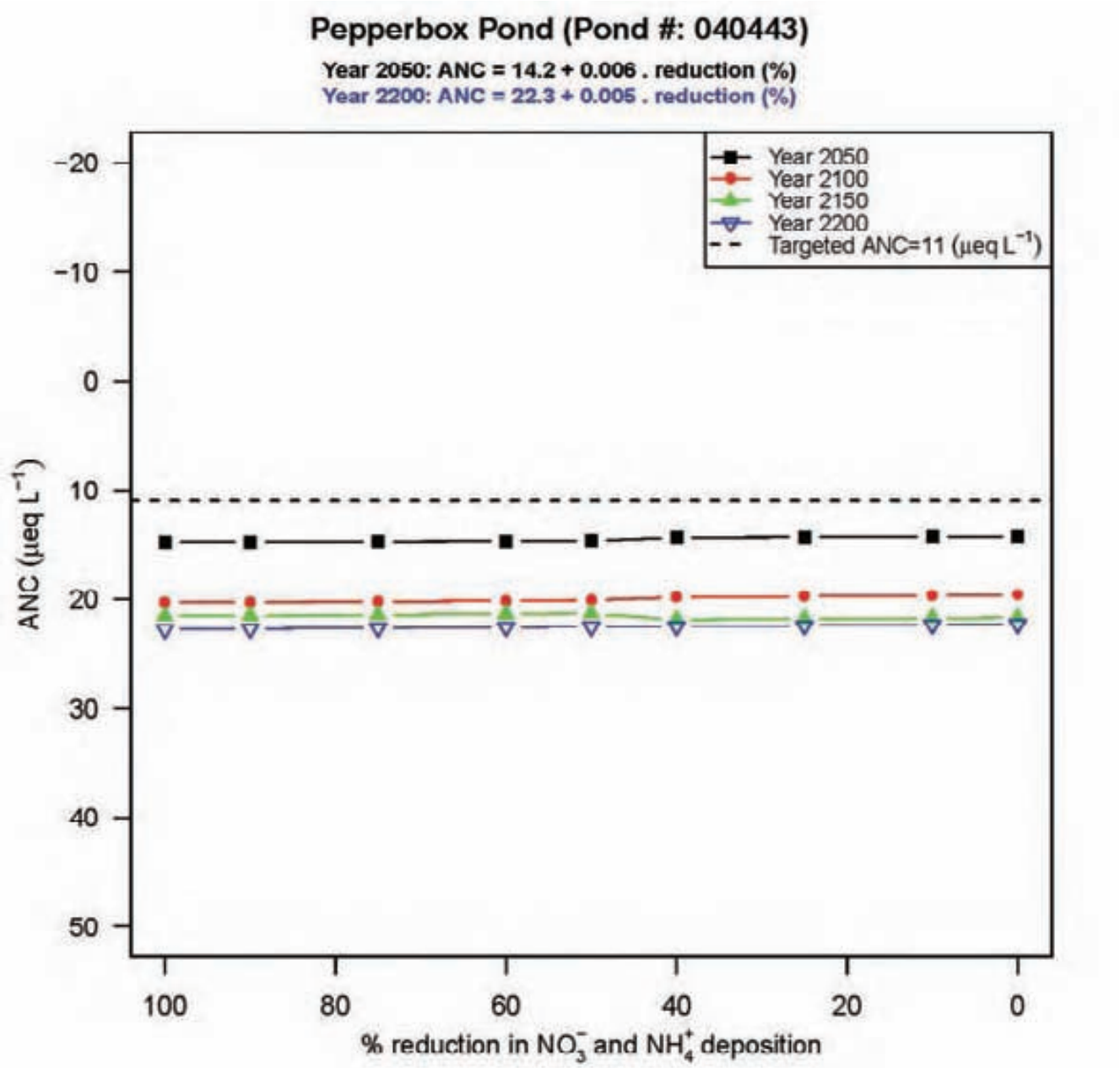

Crystal Lake (Pond #: 040289)
Year 2050: ANC = 9.7 + 0.002 . reduction (%)
Year 2200: ANC = 20.6 + 0.004 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
-20
-10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

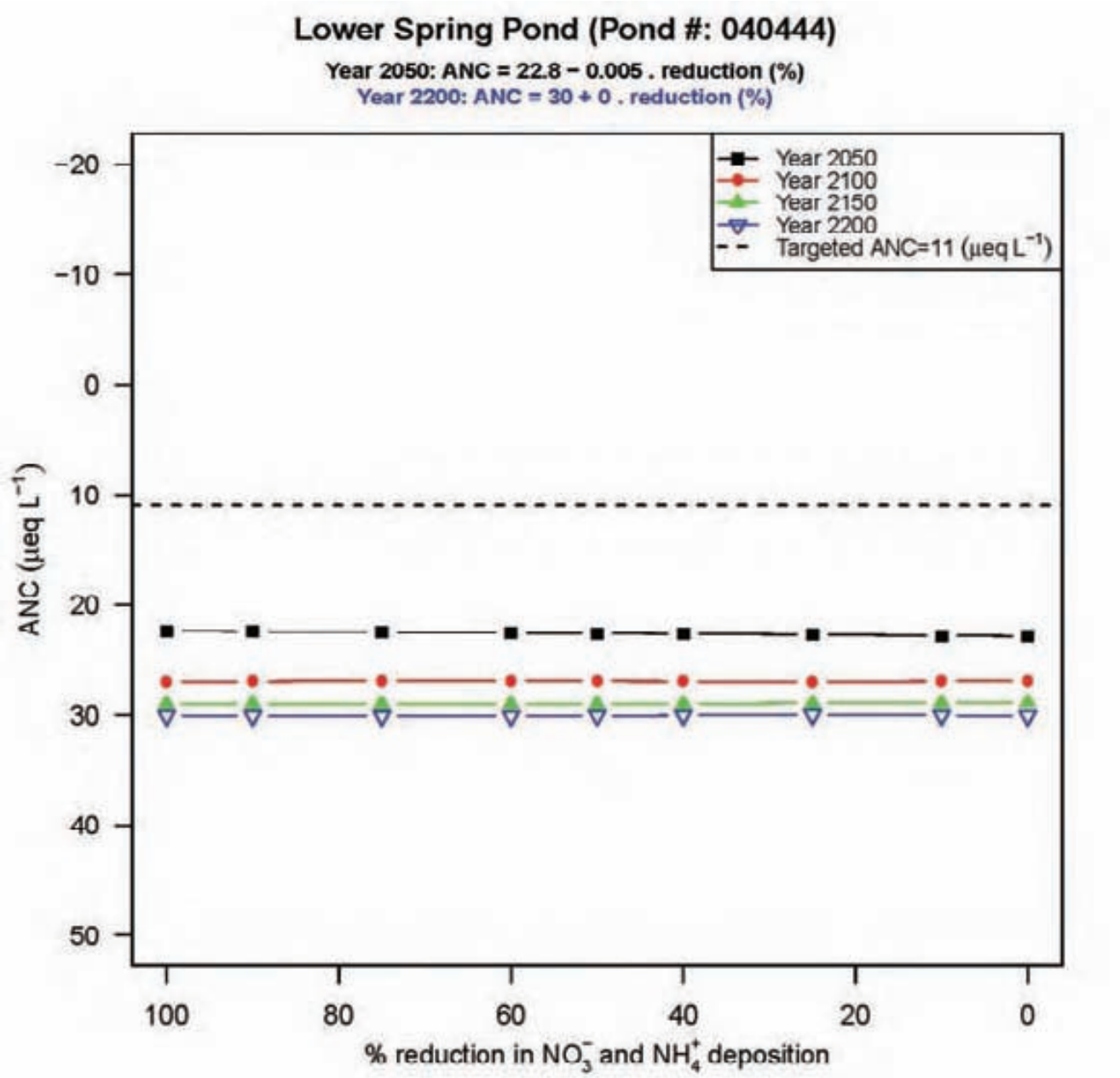

Oven Lake (Pond #: 040365)
Year 2050: ANC = −7.9 − 0.008 . reduction (%)
Year 2200: ANC = −2.8 − 0.004 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

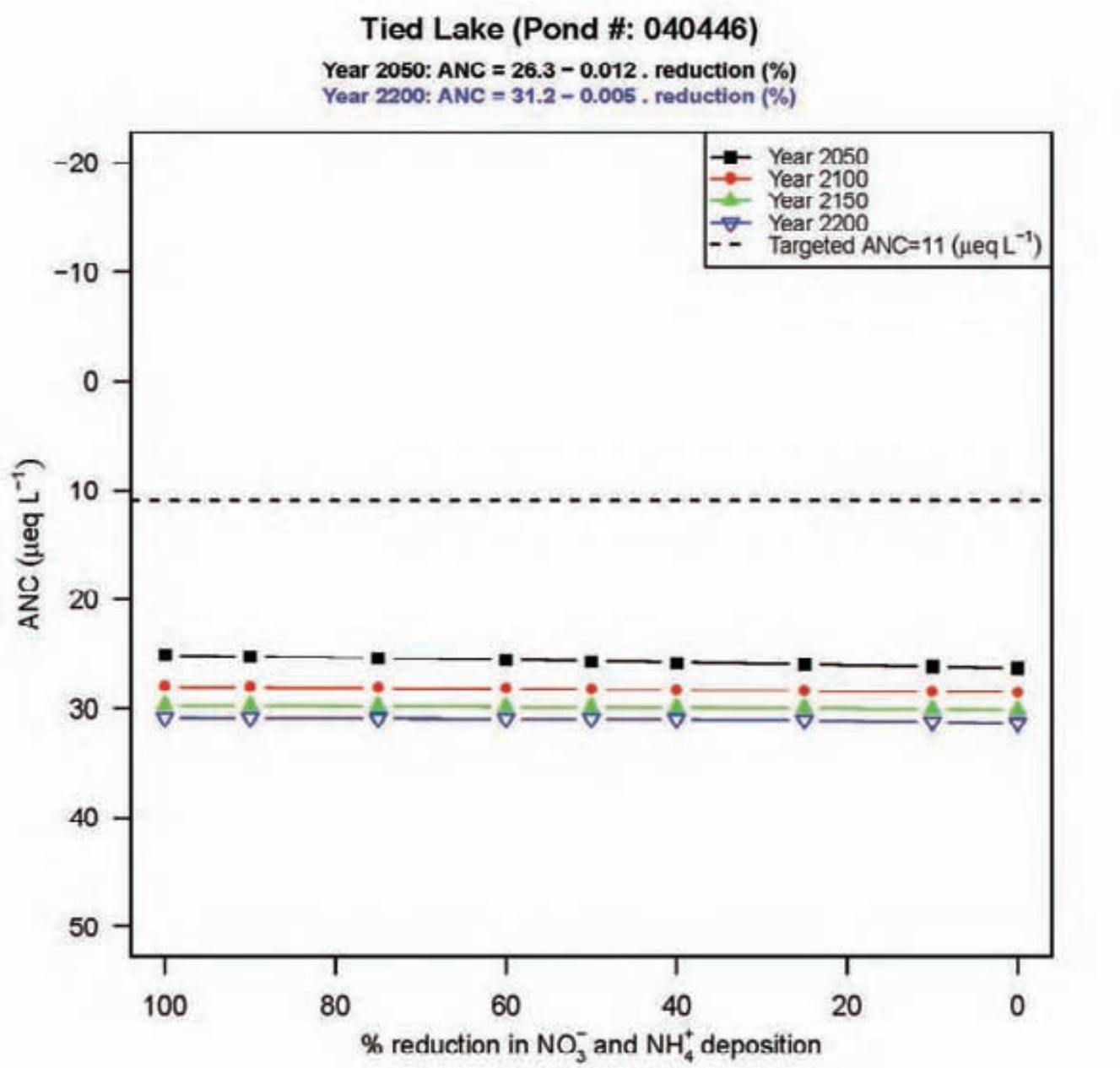

Hitchens Pond (Pond #: 040368)
Year 2050: ANC = 11.2 + 0.006 . reduction (%)
Year 2200: ANC = 22.7 + 0 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
-20
-10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

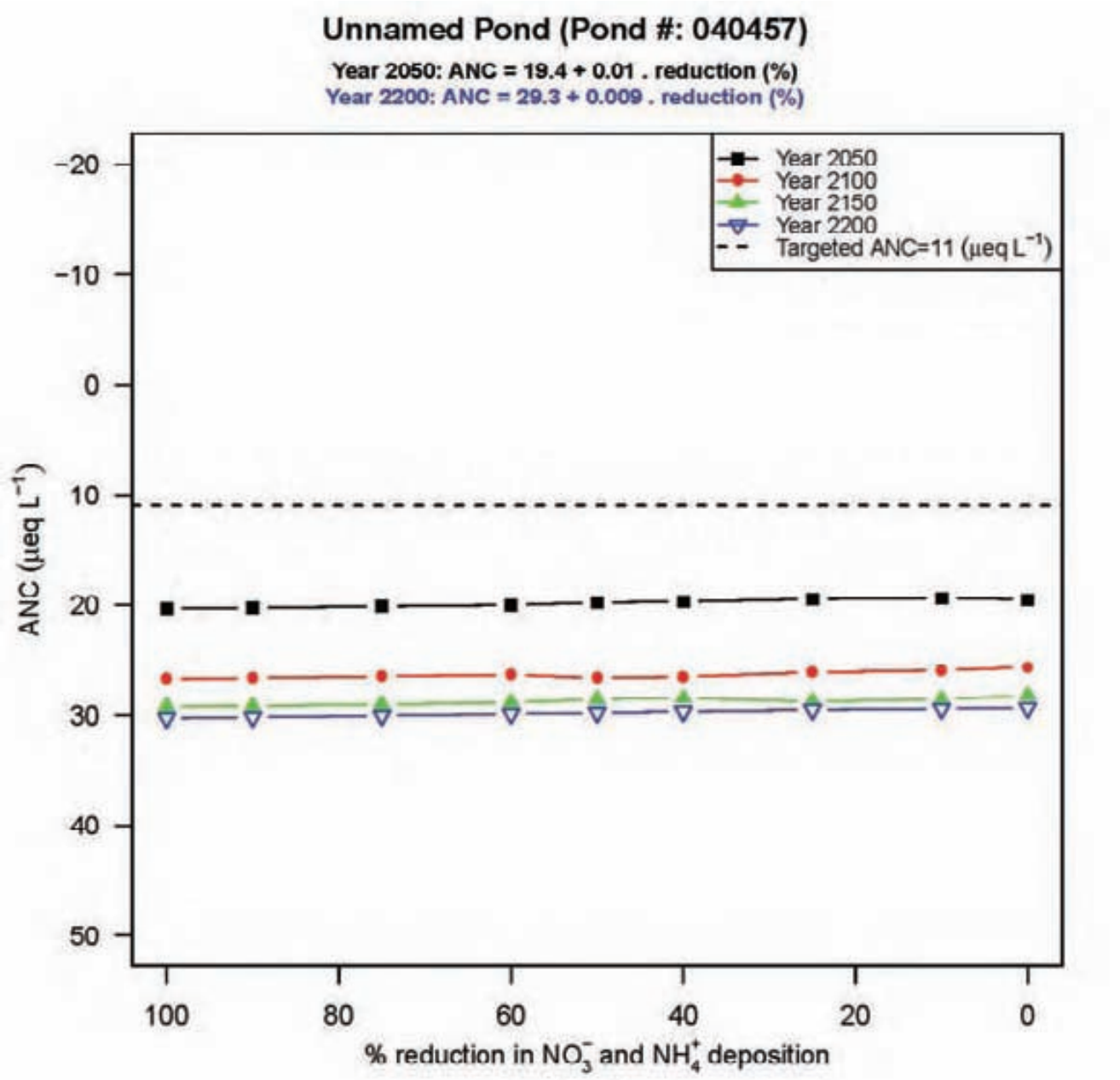

Sand Pond (Pond #: 040436)
Year 2050: ANC = 15 − 0.004 . reduction (%)
Year 2200: ANC = 25.5 + 0 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

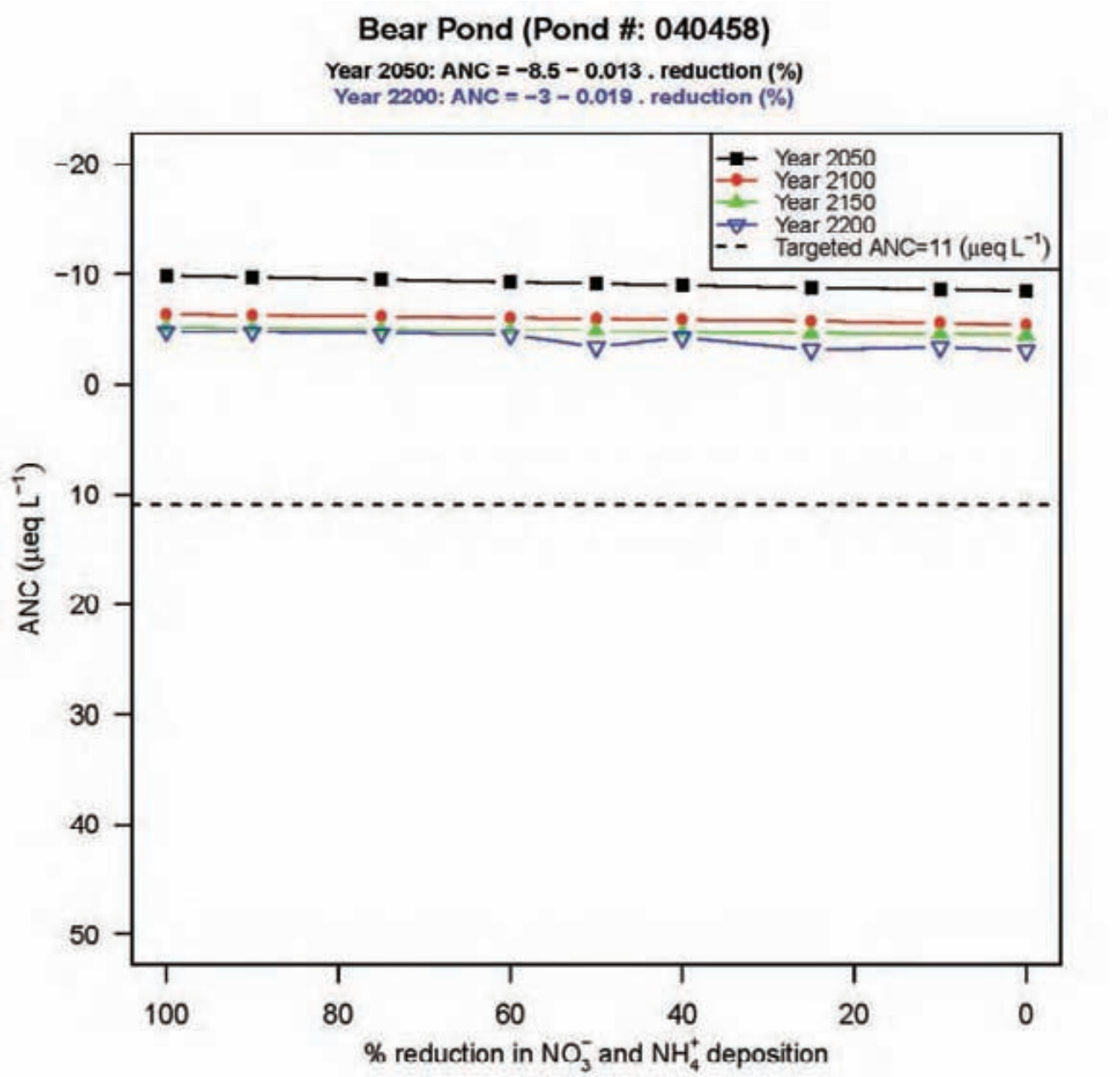

Ikes Pond (Pond #: 040438)
Year 2050: ANC = −6.7 − 0.015 . reduction (%)
Year 2200: ANC = −2.3 − 0.014 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

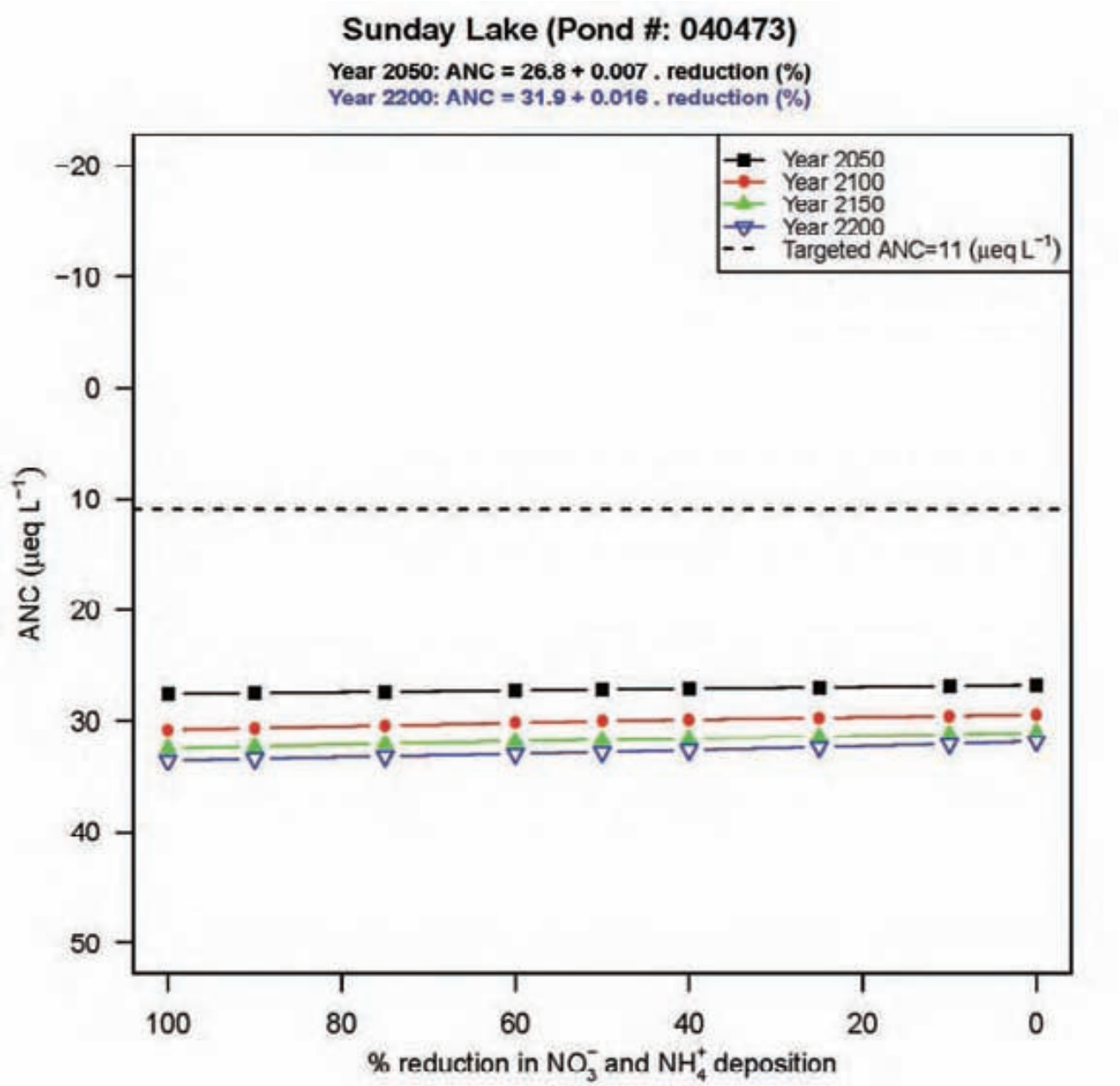

Pepperbox Pond (Pond #: 040443)
Year 2050: ANC = 14.2 + 0.006 . reduction (%)
Year 2200: ANC = 22.3 + 0.005 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
-20
-10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

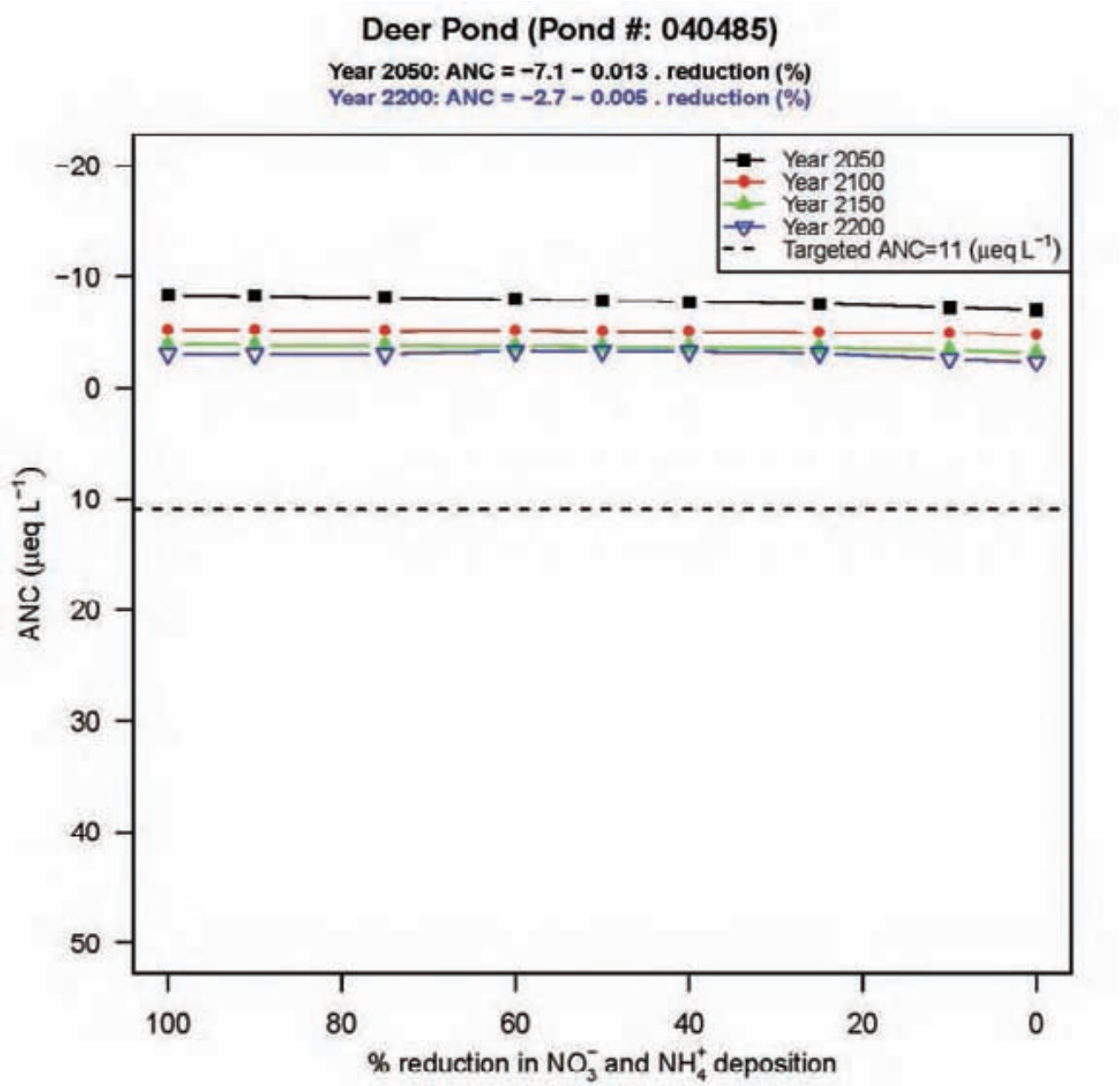

Lower Spring Pond (Pond #: 040444)
Year 2050: ANC = 22.8 − 0.005 . reduction (%)
Year 2200: ANC = 30 + 0 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

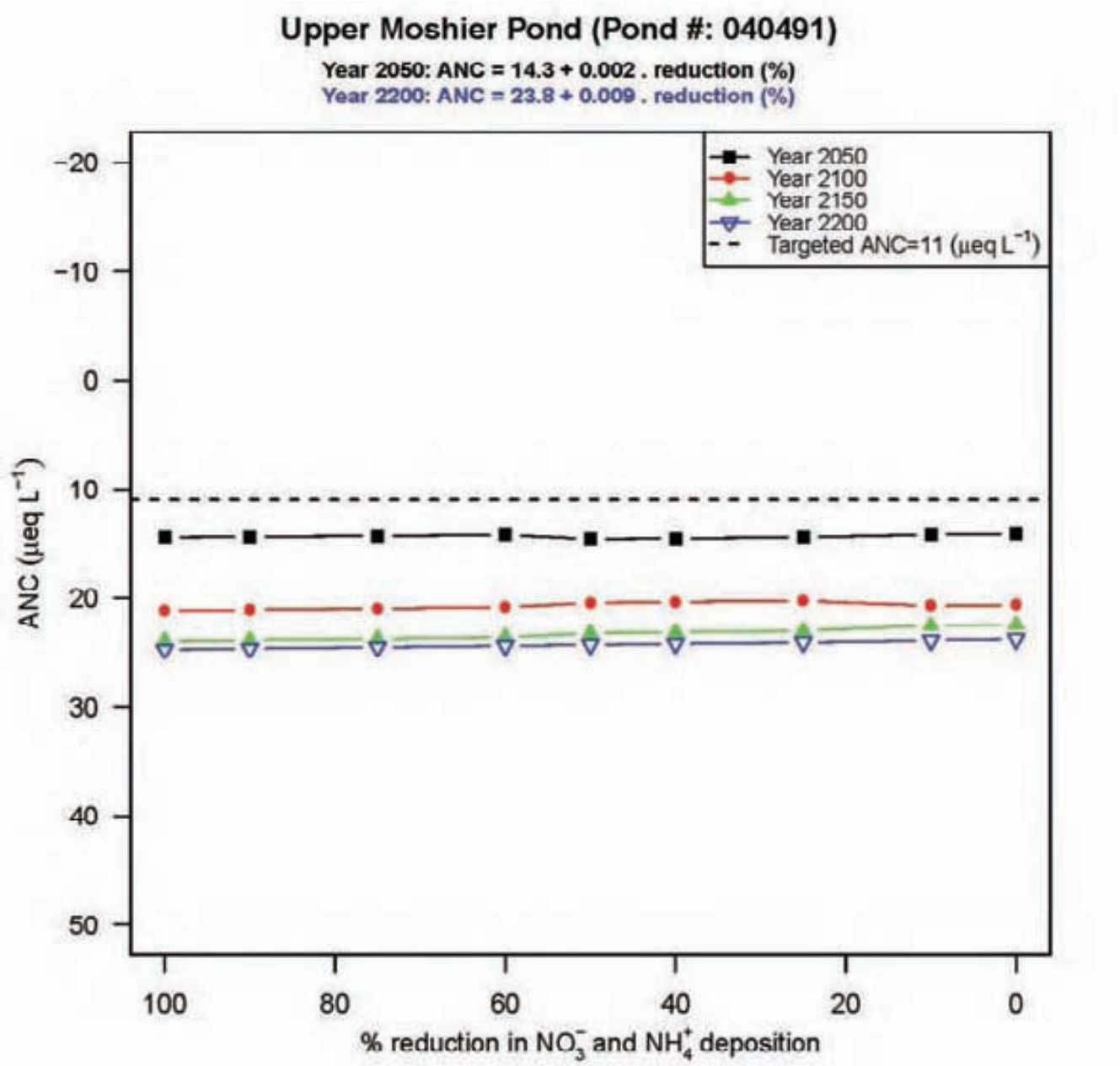

Tied Lake (Pond #: 040446)
Year 2050: ANC = 26.3 − 0.012 . reduction (%)
Year 2200: ANC = 31.2 − 0.005 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

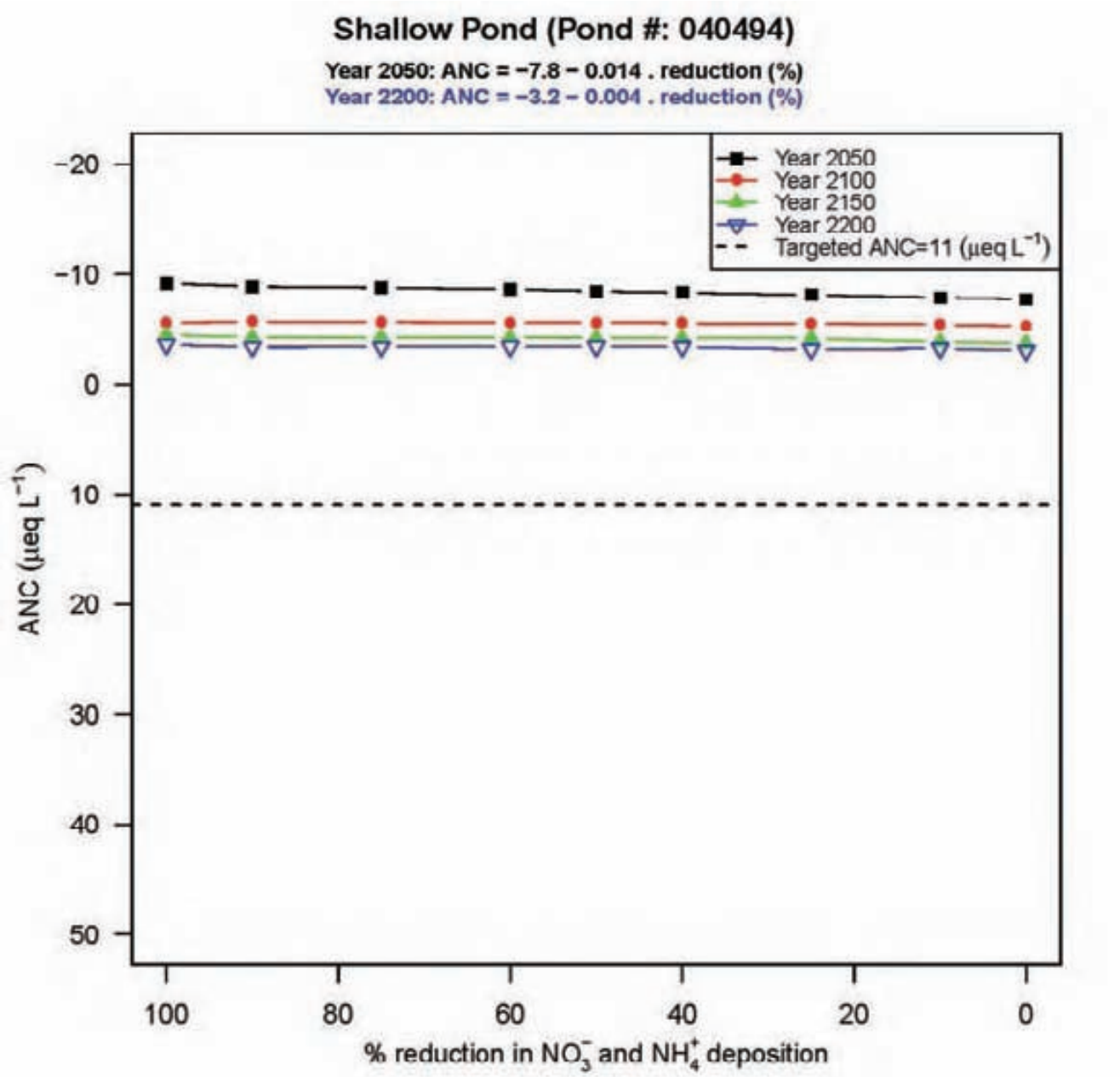

Unnamed Pond (Pond #: 040457)
Year 2050: ANC = 19.4 + 0.01 . reduction (%)
Year 2200: ANC = 29.3 + 0.009 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
-20
-10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

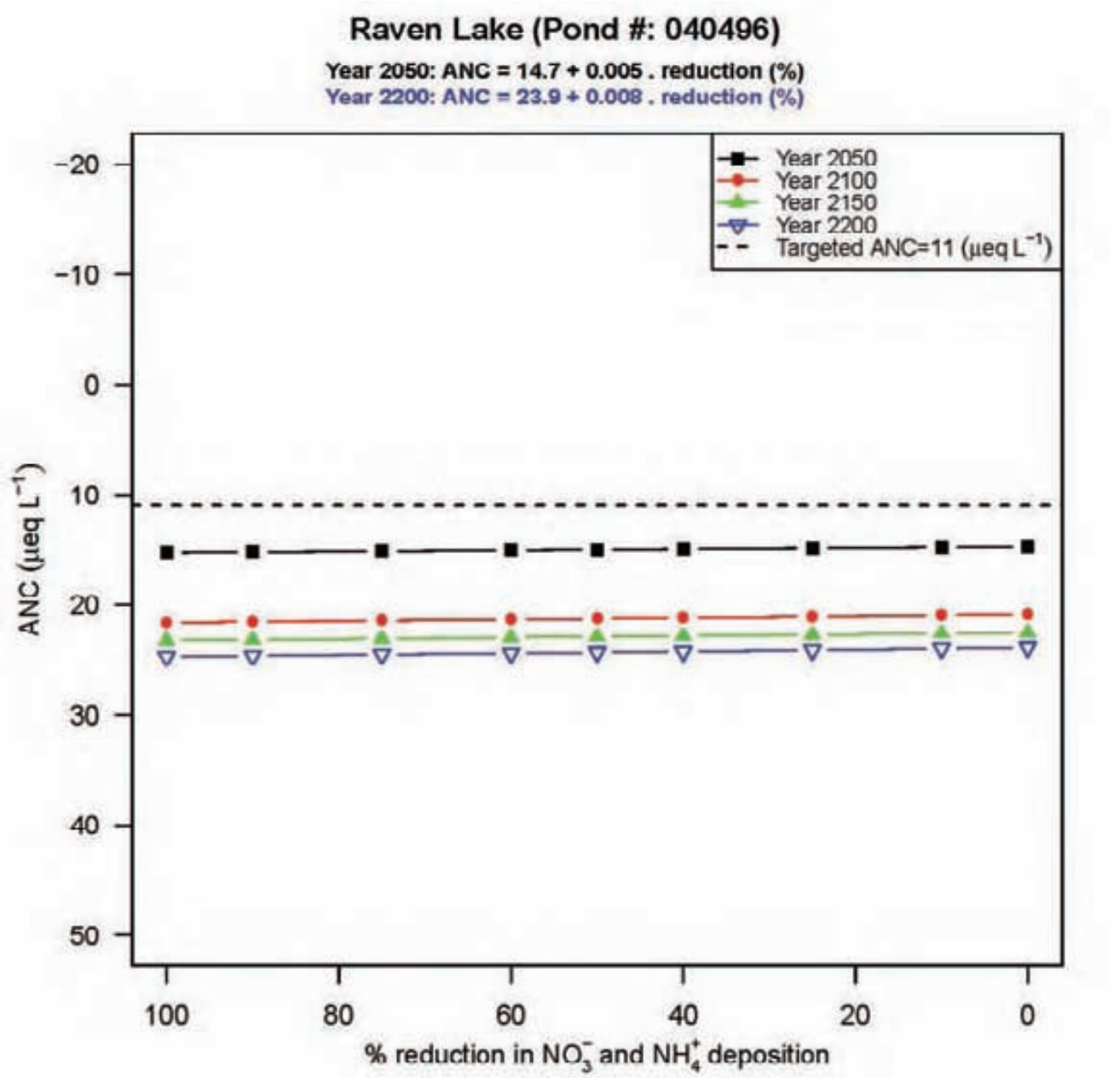

Bear Pond (Pond #: 040458)
Year 2050: ANC = −8.5 − 0.013 . reduction (%)
Year 2200: ANC = −3 − 0.019 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

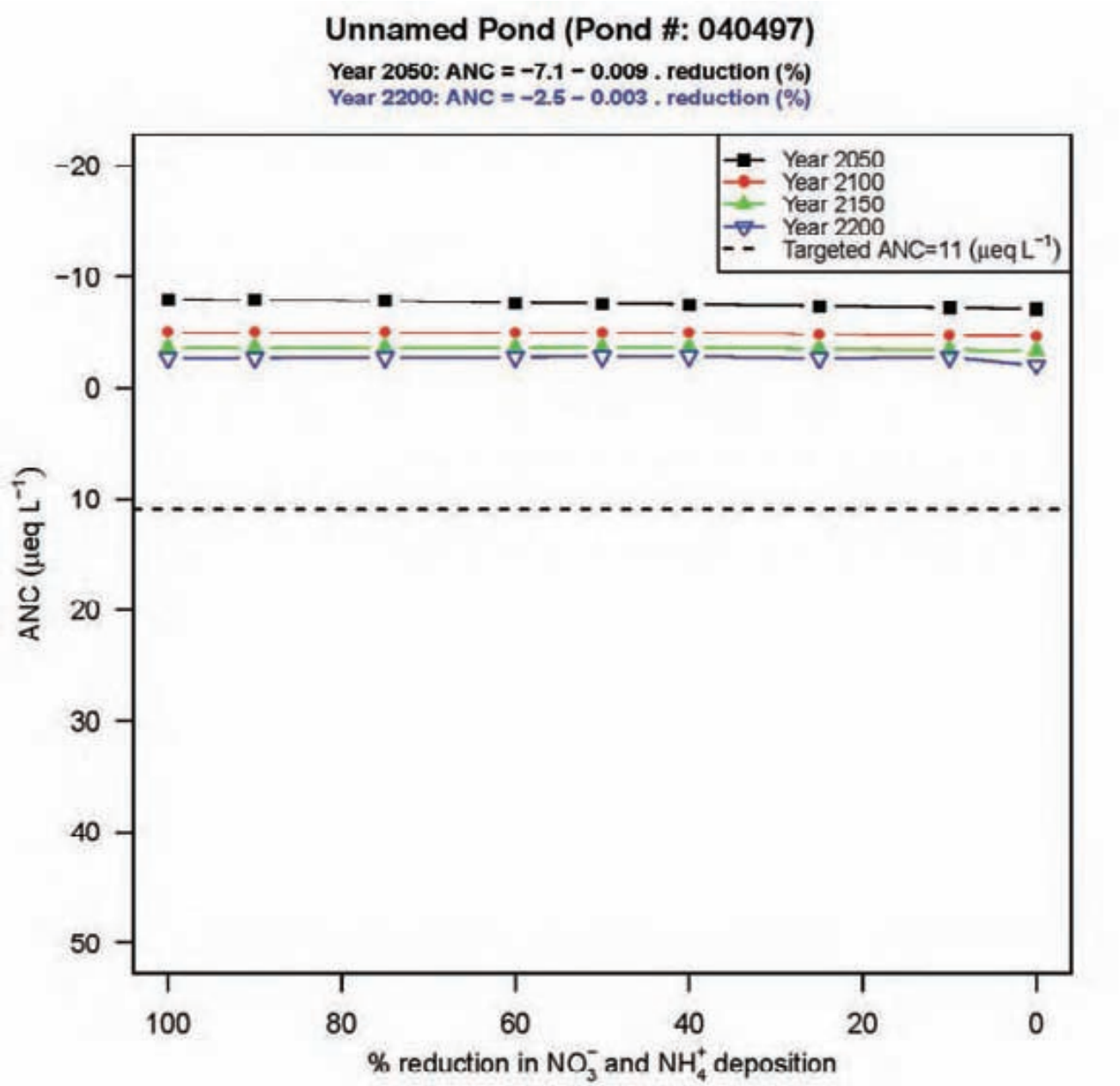

Sunday Lake (Pond #: 040473)
Year 2050: ANC = 26.8 + 0.007 . reduction (%)
Year 2200: ANC = 31.9 + 0.016 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
-20
-10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

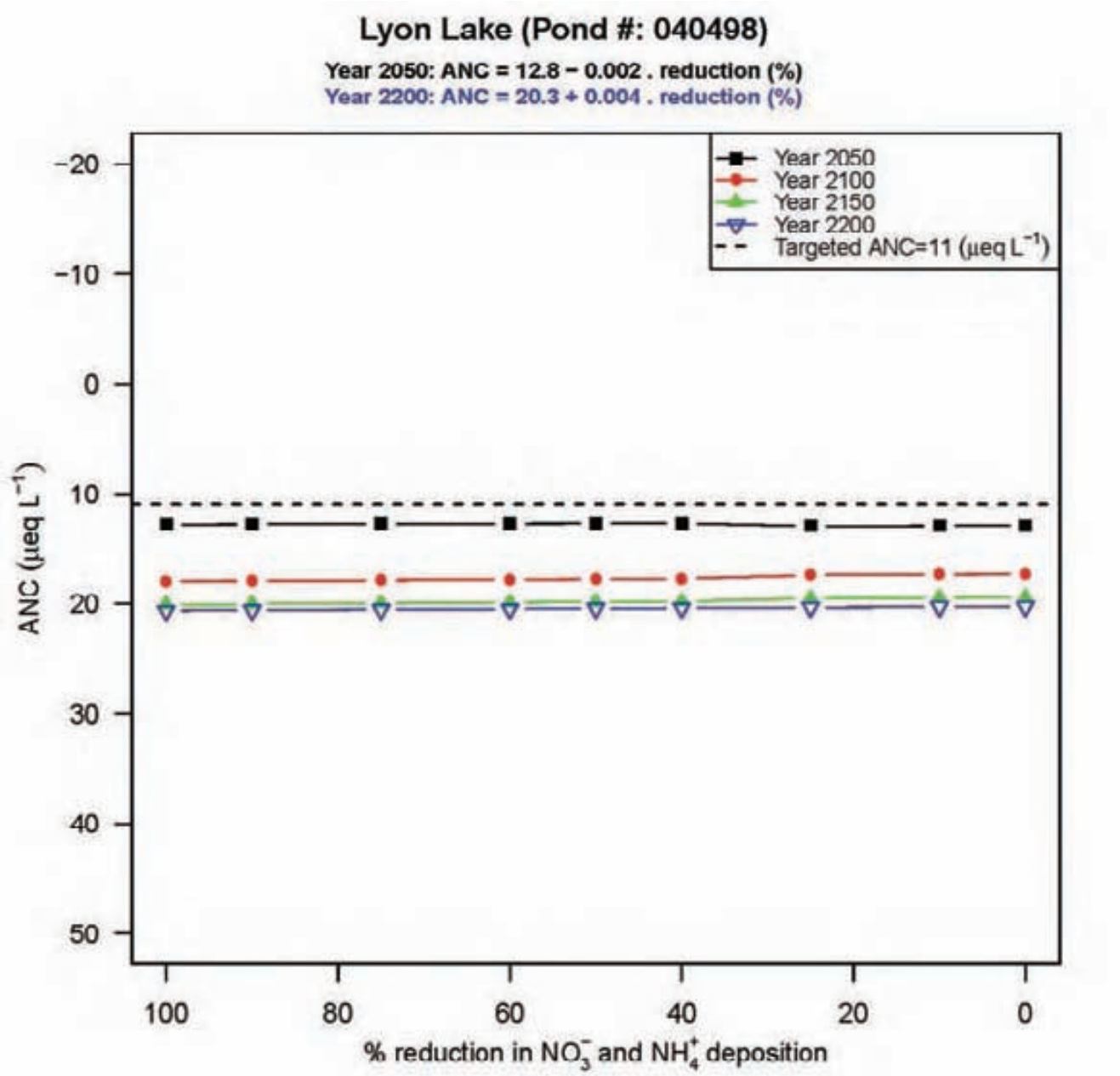

Deer Pond (Pond #: 040485)
Year 2050: ANC = −7.1 − 0.013 . reduction (%)
Year 2200: ANC = −2.7 − 0.005 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

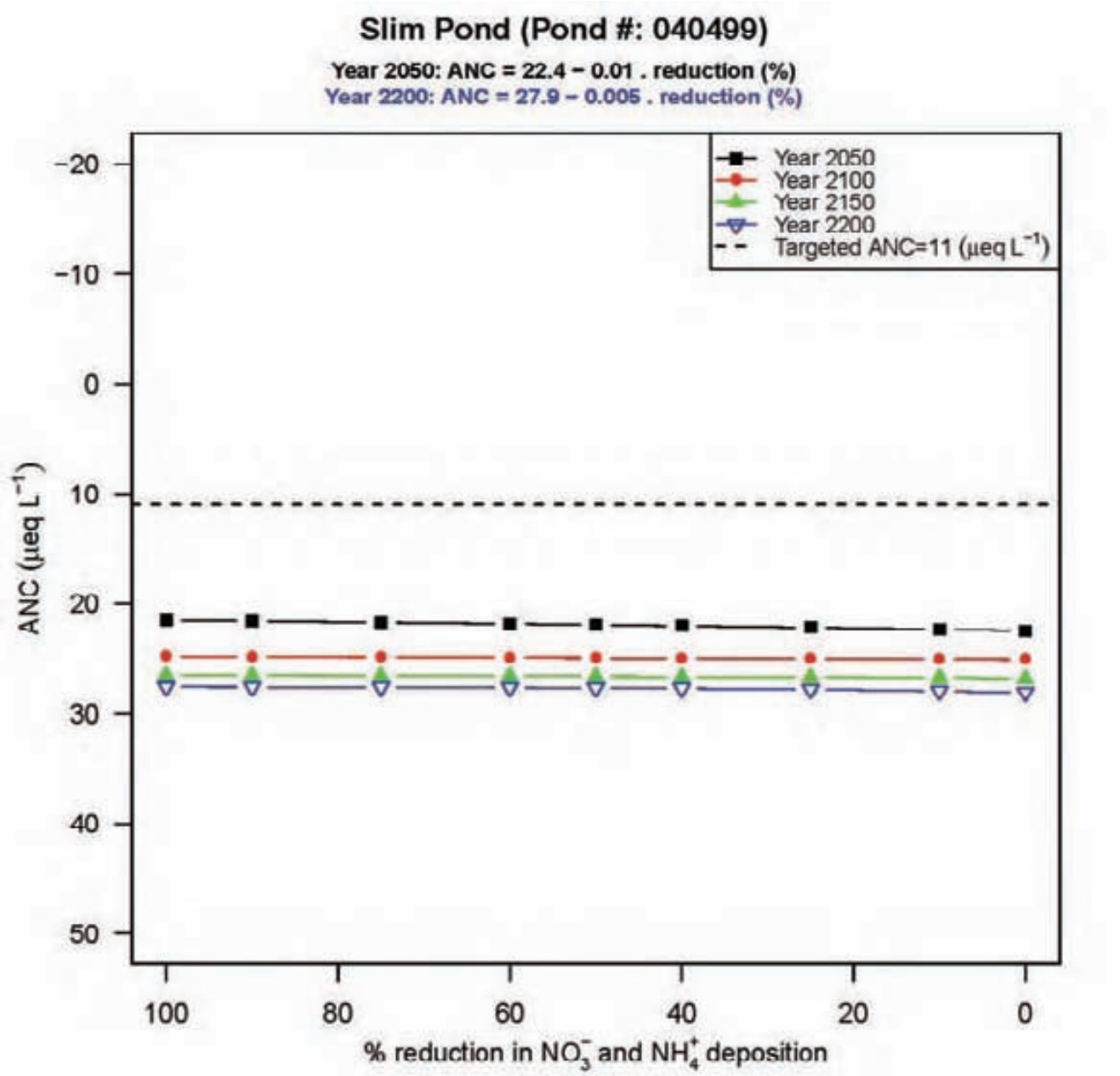

Upper Moshier Pond (Pond #: 040491)
Year 2050: ANC = 14.3 + 0.002 . reduction (%)
Year 2200: ANC = 23.8 + 0.009 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
-20
-10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

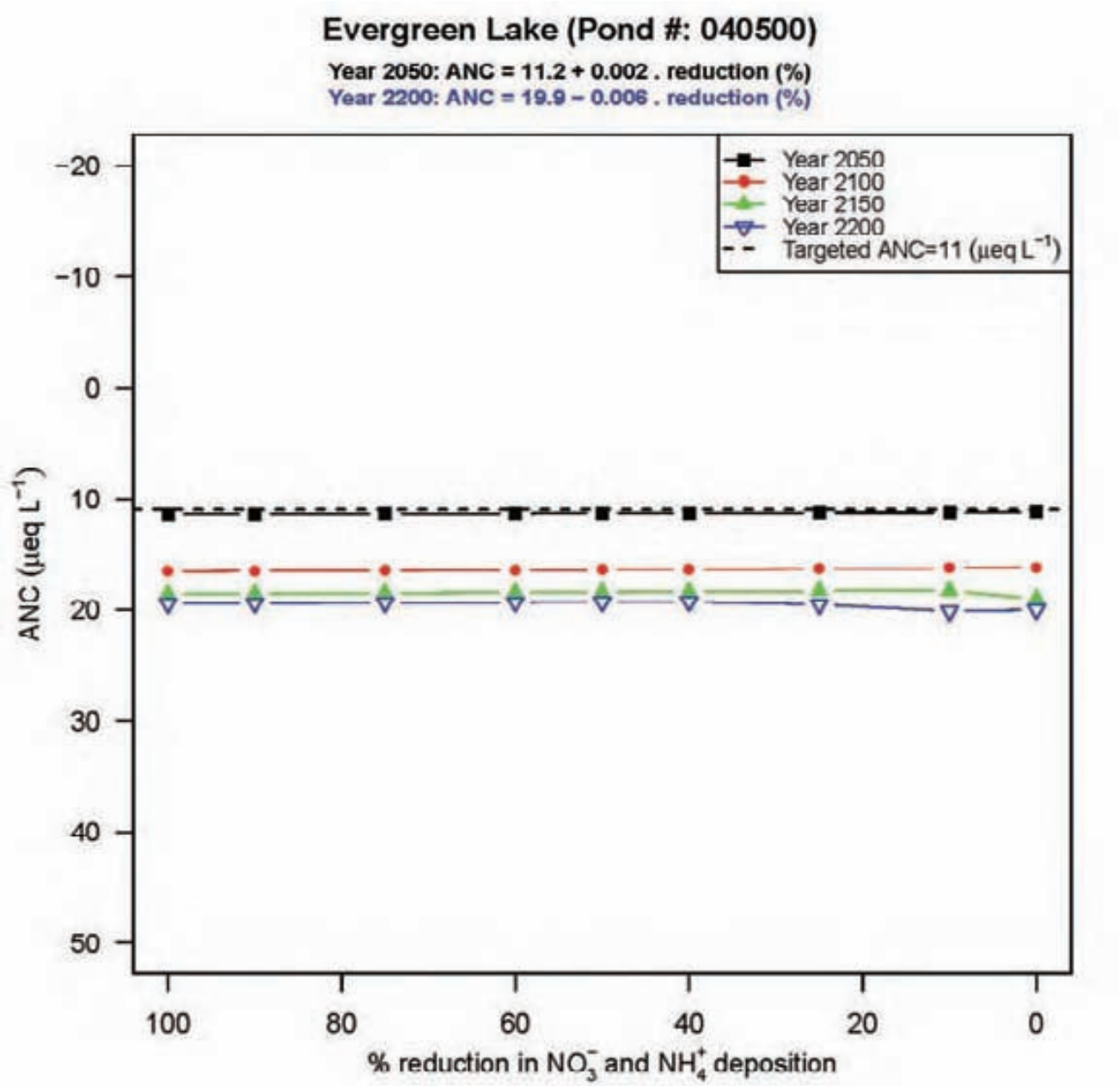

Shallow Pond (Pond #: 040494)
Year 2050: ANC = −7.8 − 0.014 . reduction (%)
Year 2200: ANC = −3.2 − 0.004 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

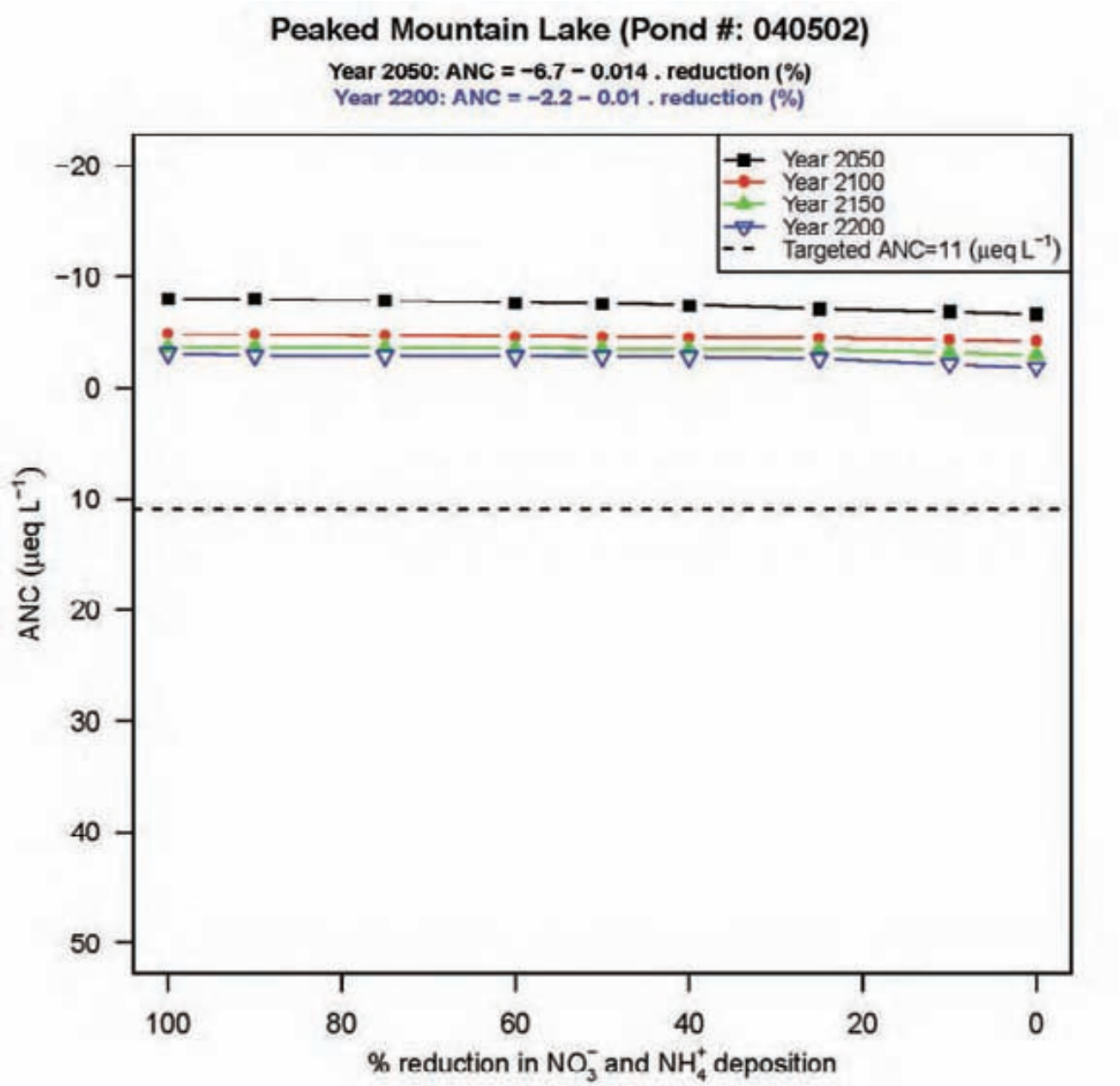

Raven Lake (Pond #: 040496)
Year 2050: ANC = 14.7 + 0.005 . reduction (%)
Year 2200: ANC = 23.9 + 0.008 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
-20
-10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

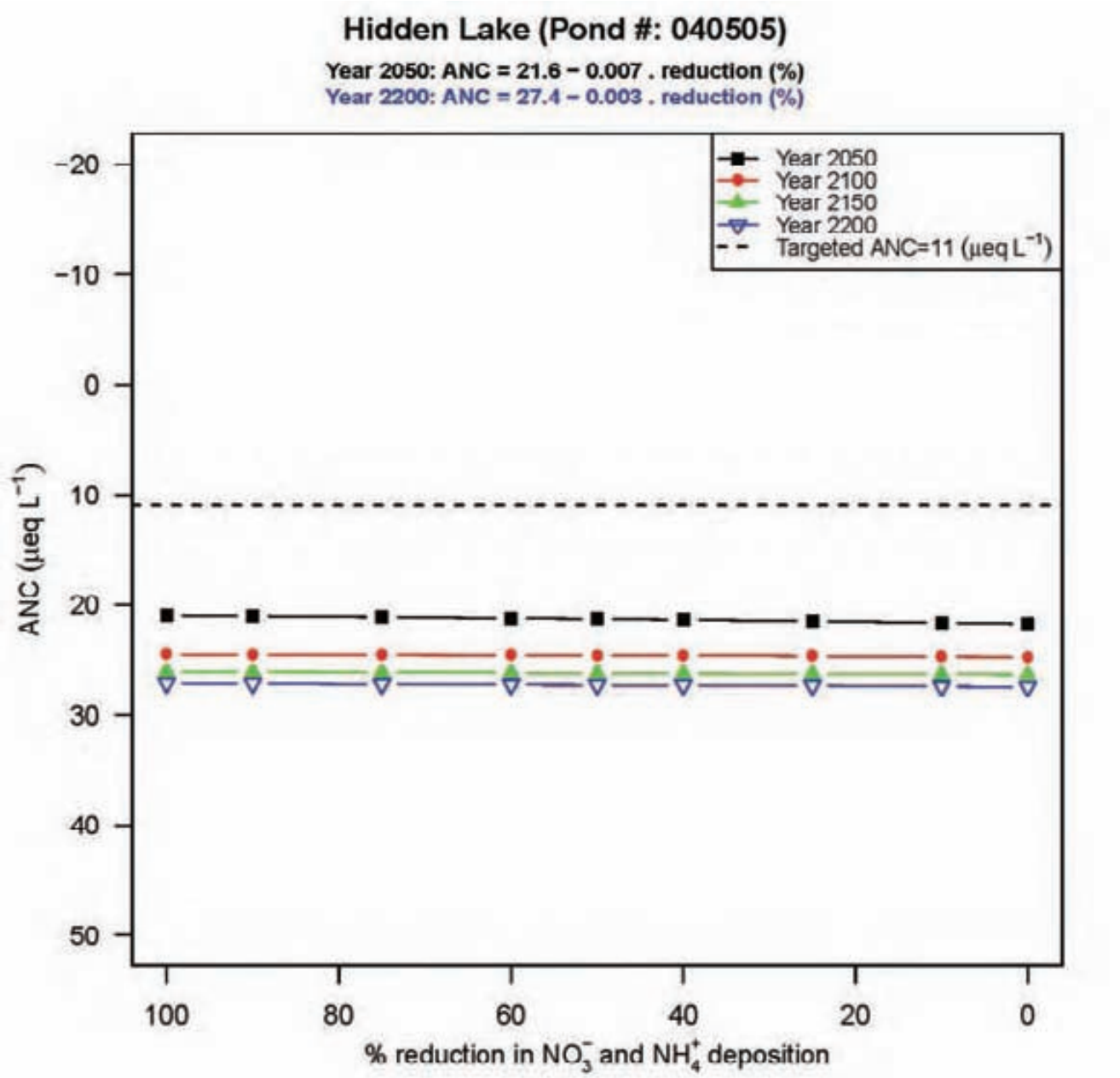

Unnamed Pond (Pond #: 040497)
Year 2050: ANC = −7.1 − 0.009 . reduction (%)
Year 2200: ANC = −2.5 − 0.003 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

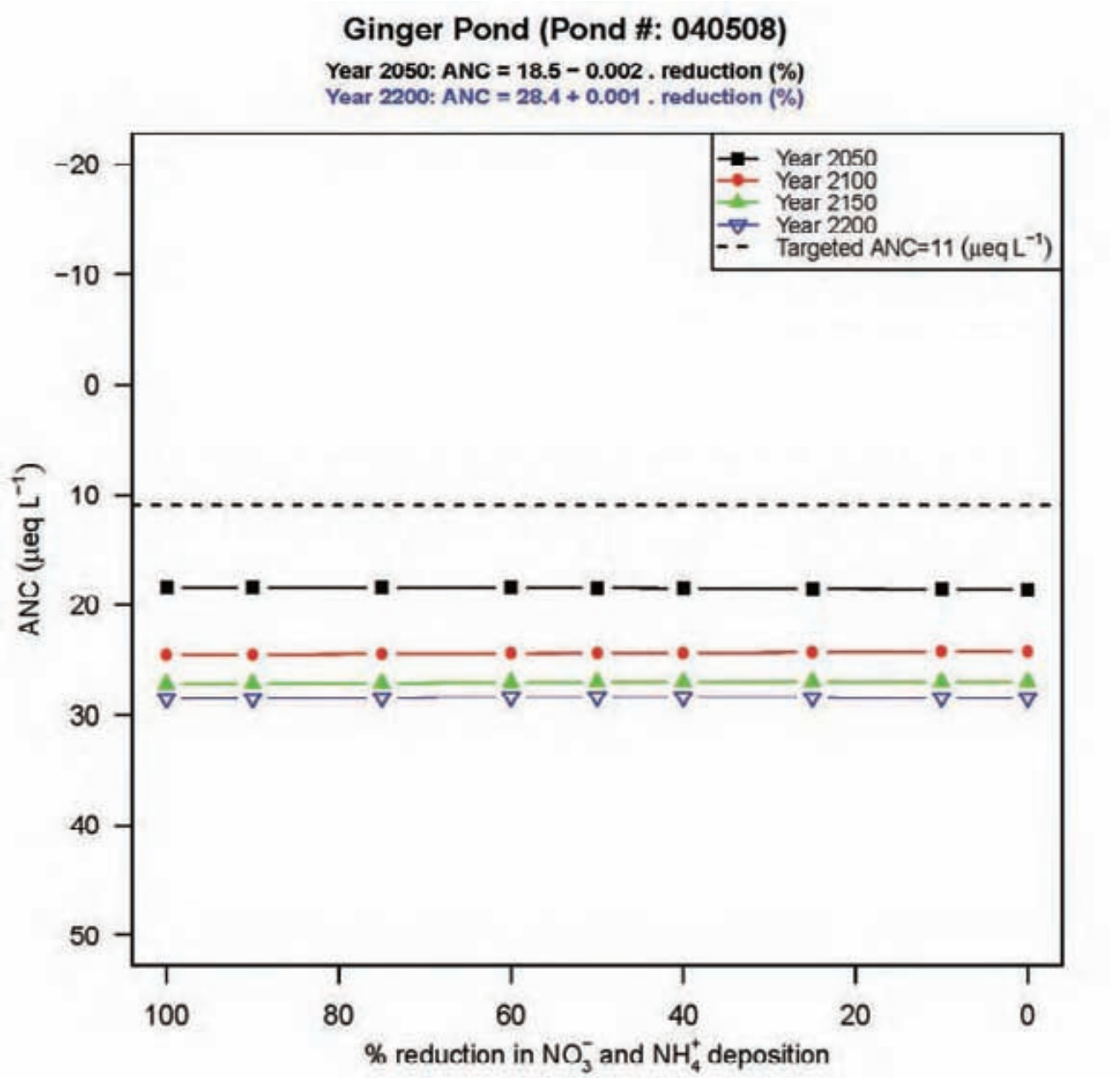

Lyon Lake (Pond #: 040498)
Year 2050: ANC = 12.8 − 0.002 . reduction (%)
Year 2200: ANC = 20.3 + 0.004 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

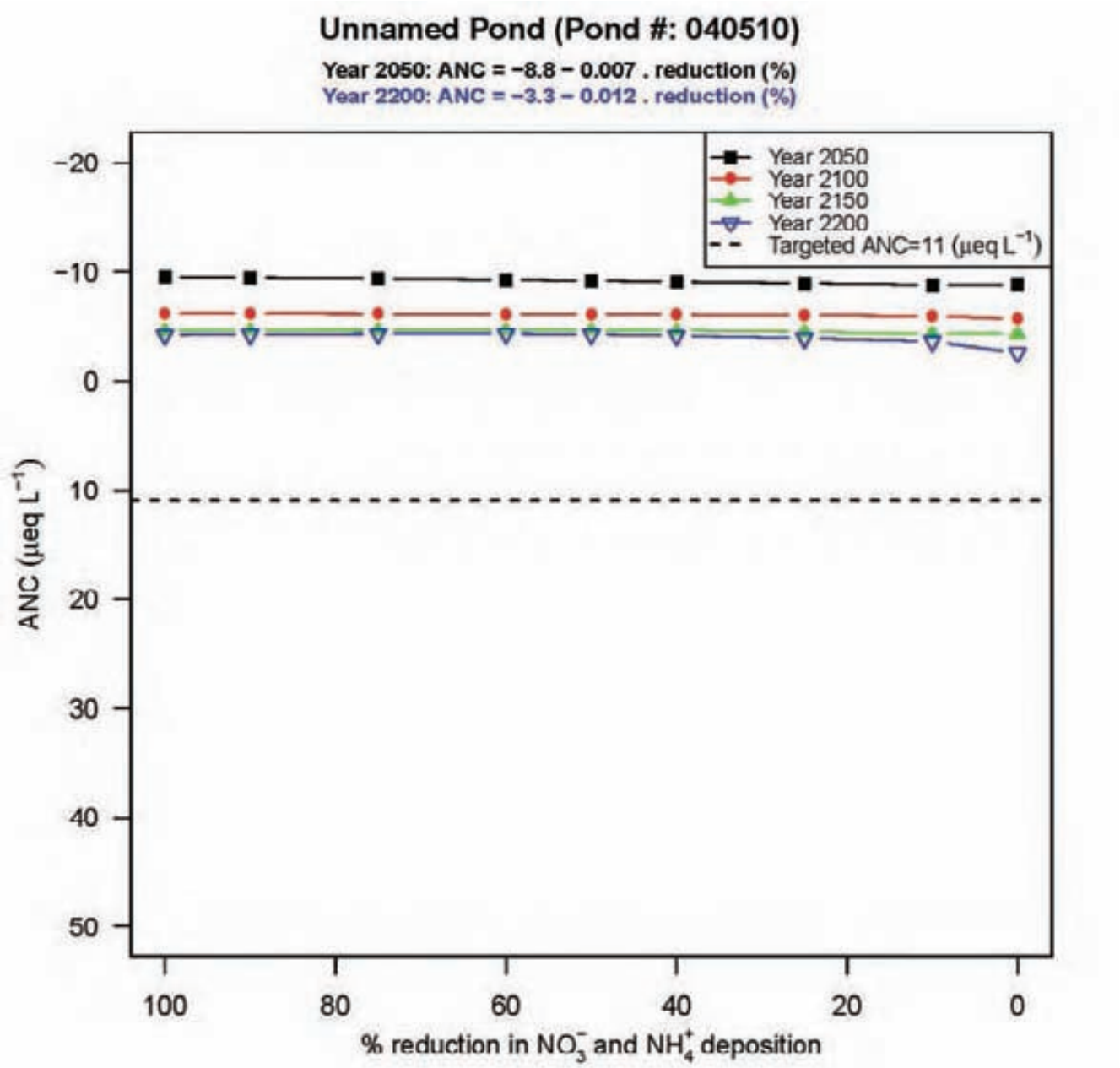

Slim Pond (Pond #: 040499)
Year 2050: ANC = 22.4 − 0.01 . reduction (%)
Year 2200: ANC = 27.9 − 0.005 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

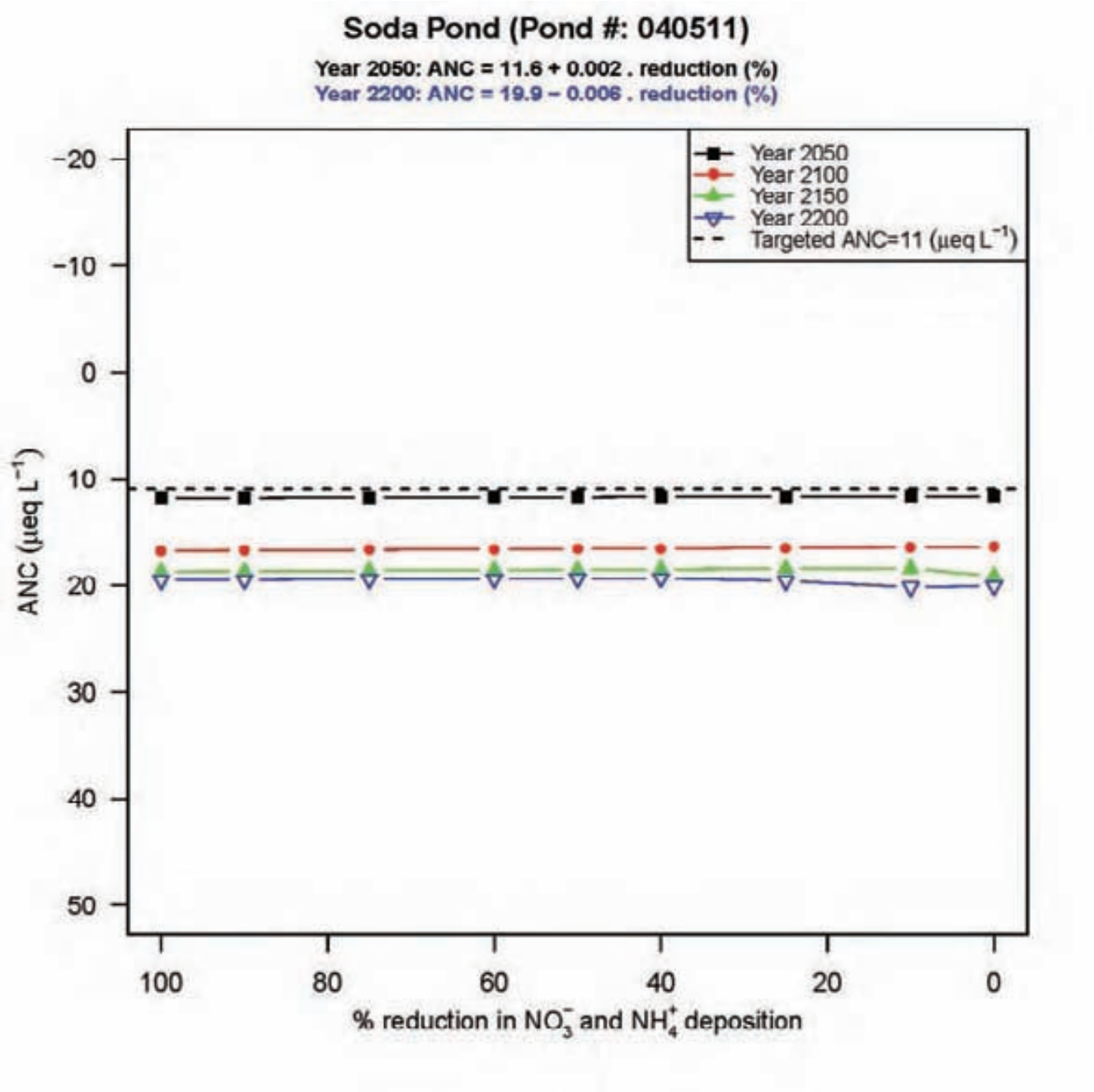

Evergreen Lake (Pond #: 040500)
Year 2050: ANC = 11.2 + 0.002 . reduction (%)
Year 2200: ANC = 19.9 – 0.006 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
-20
-10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

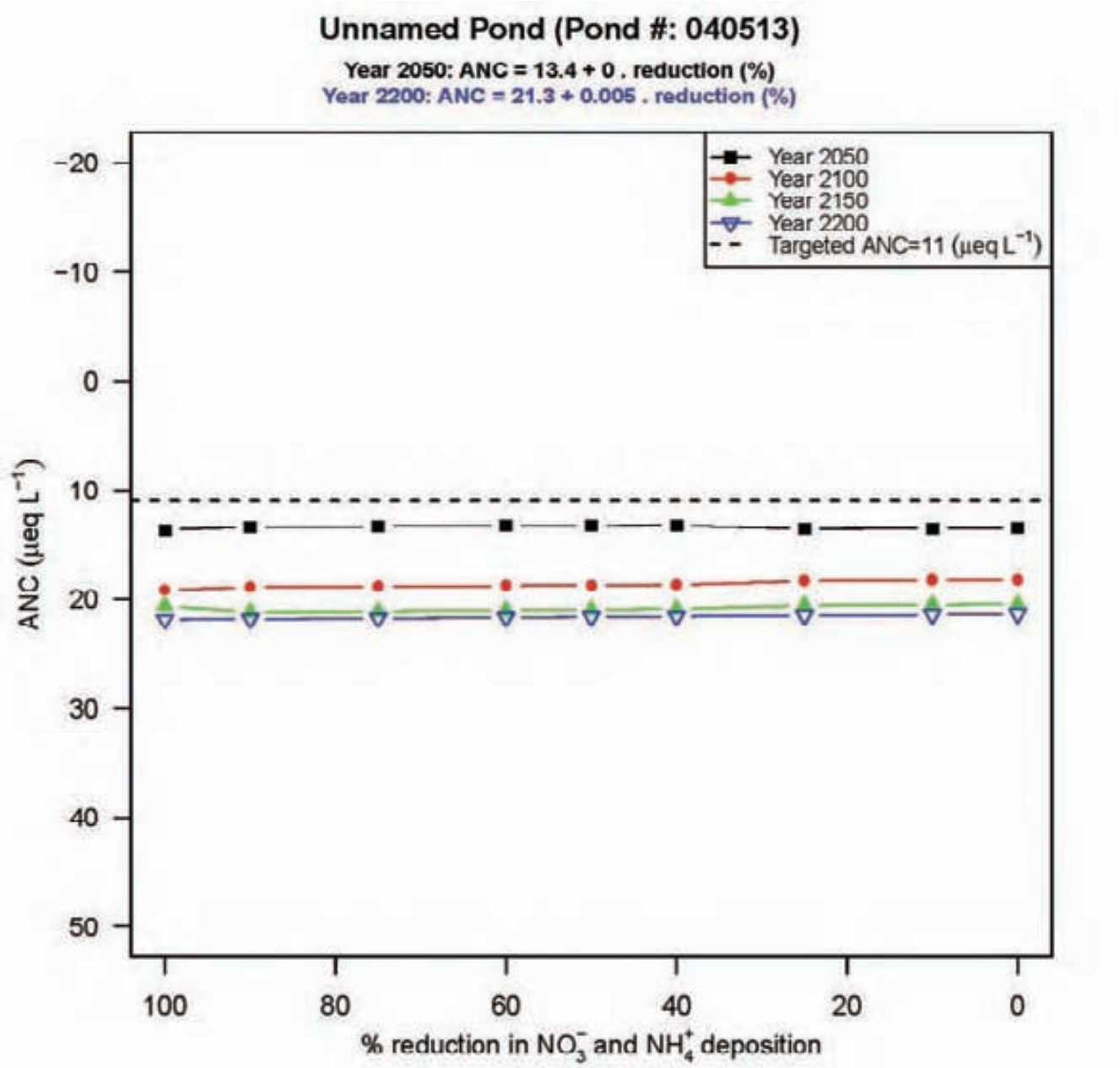

Peaked Mountain Lake (Pond #: 040502)
Year 2050: ANC = −6.7 − 0.014 . reduction (%)
Year 2200: ANC = −2.2 − 0.01 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

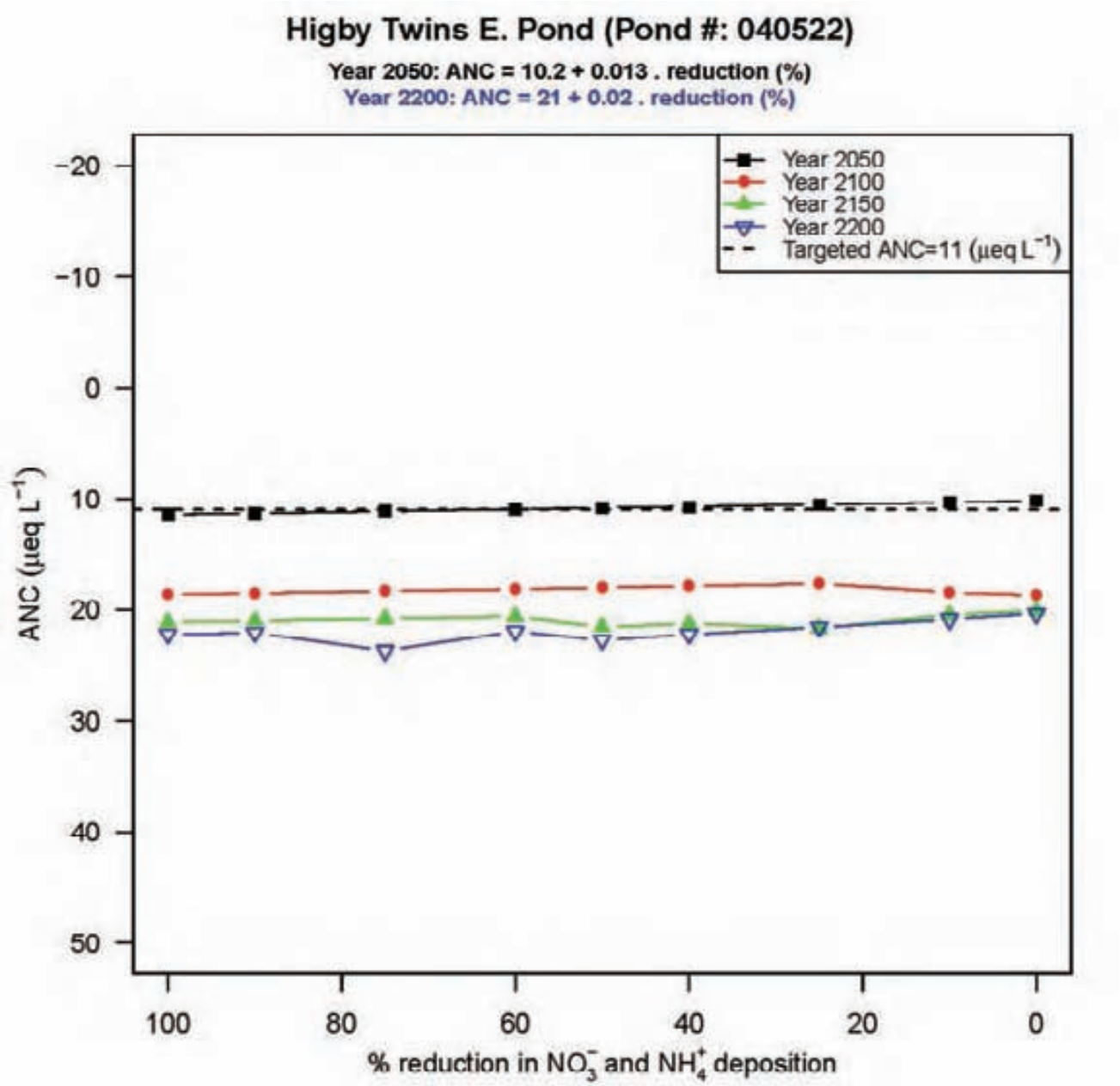

Hidden Lake (Pond #: 040505)
Year 2050: ANC = 21.6 − 0.007 . reduction (%)
Year 2200: ANC = 27.4 − 0.003 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

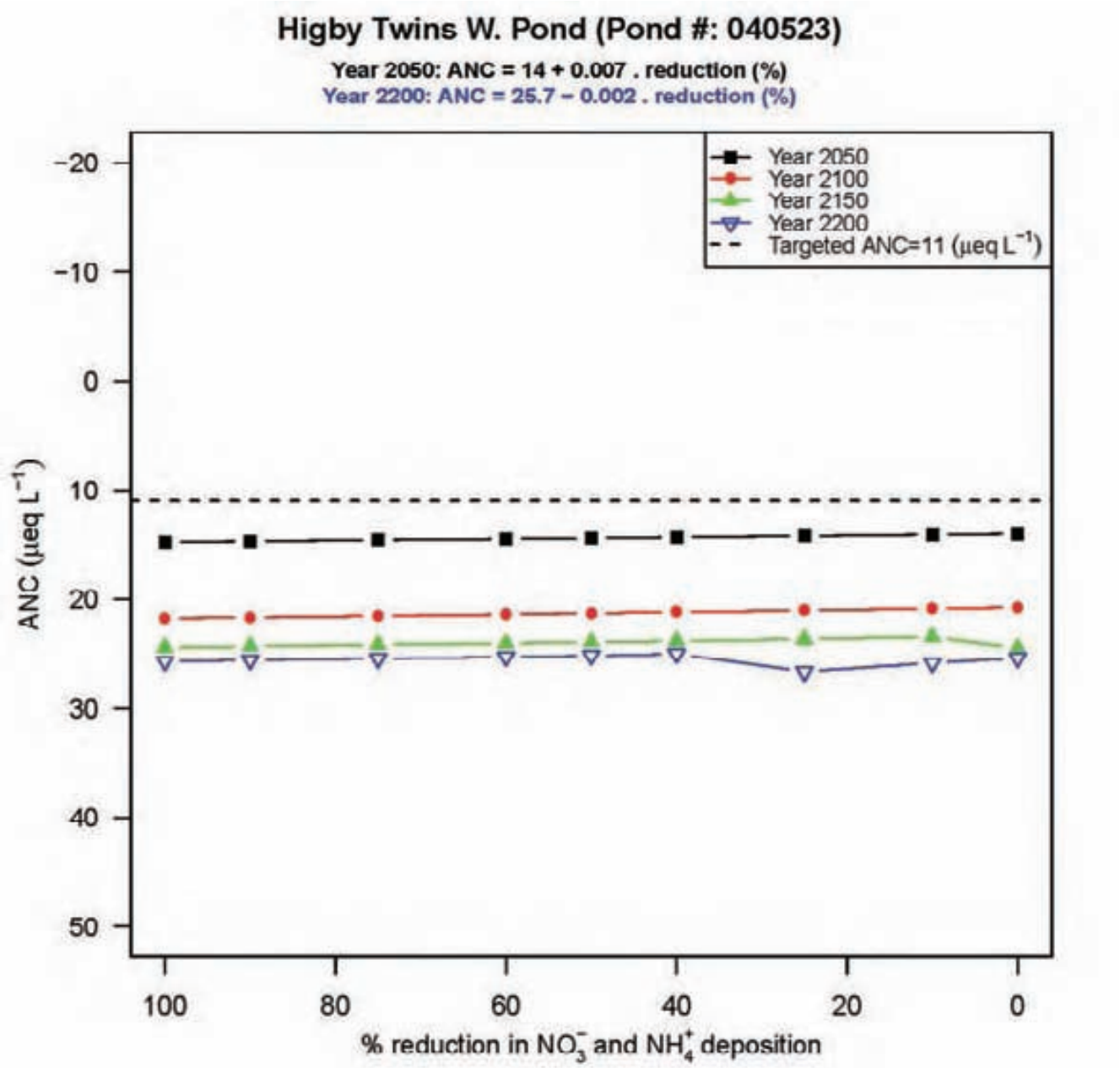

Ginger Pond (Pond #: 040508)
Year 2050: ANC = 18.5 − 0.002 . reduction (%)
Year 2200: ANC = 28.4 + 0.001 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

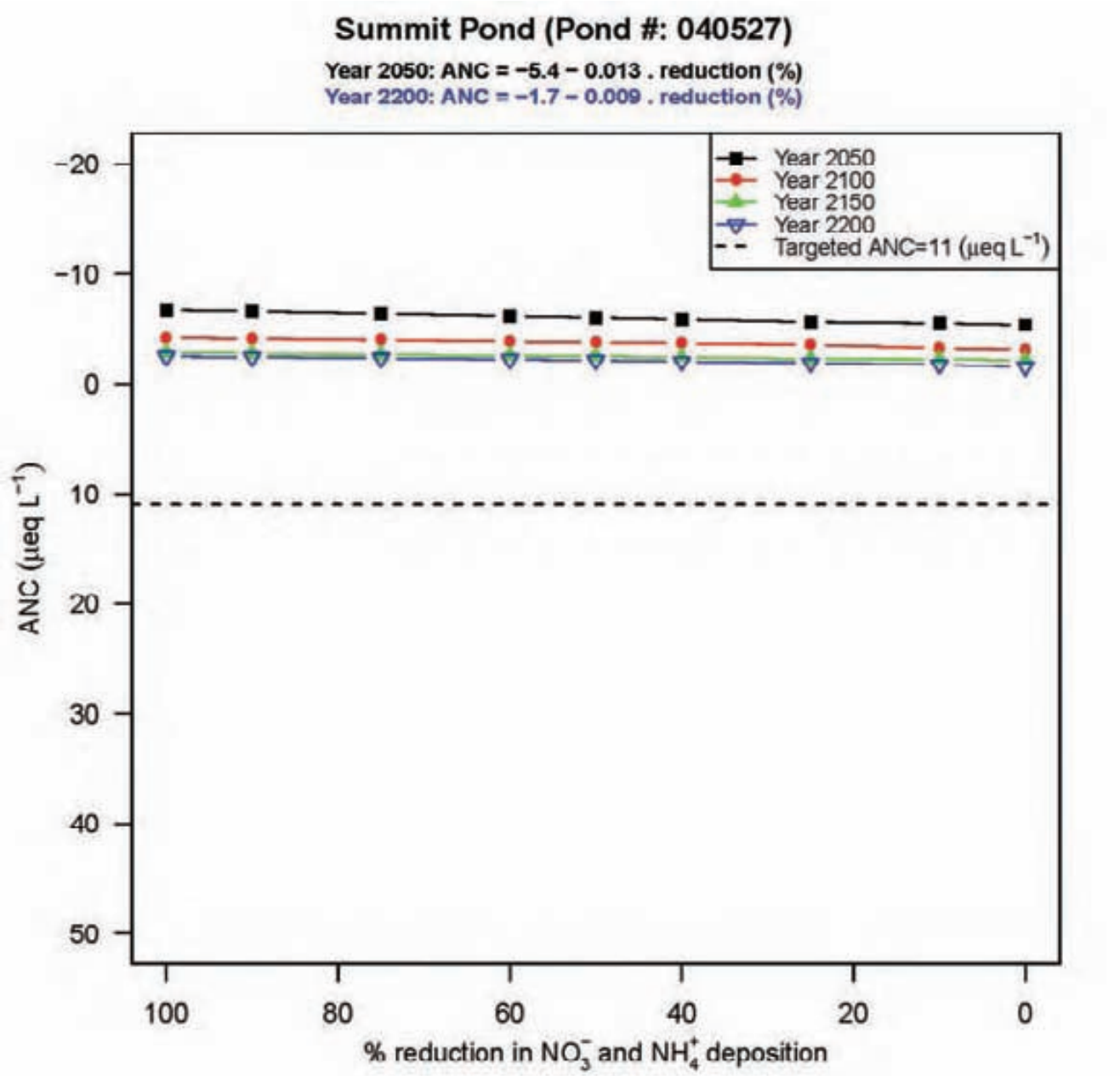

Unnamed Pond (Pond #: 040510)
Year 2050: ANC = −8.8 − 0.007 . reduction (%)
Year 2200: ANC = −3.3 − 0.012 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

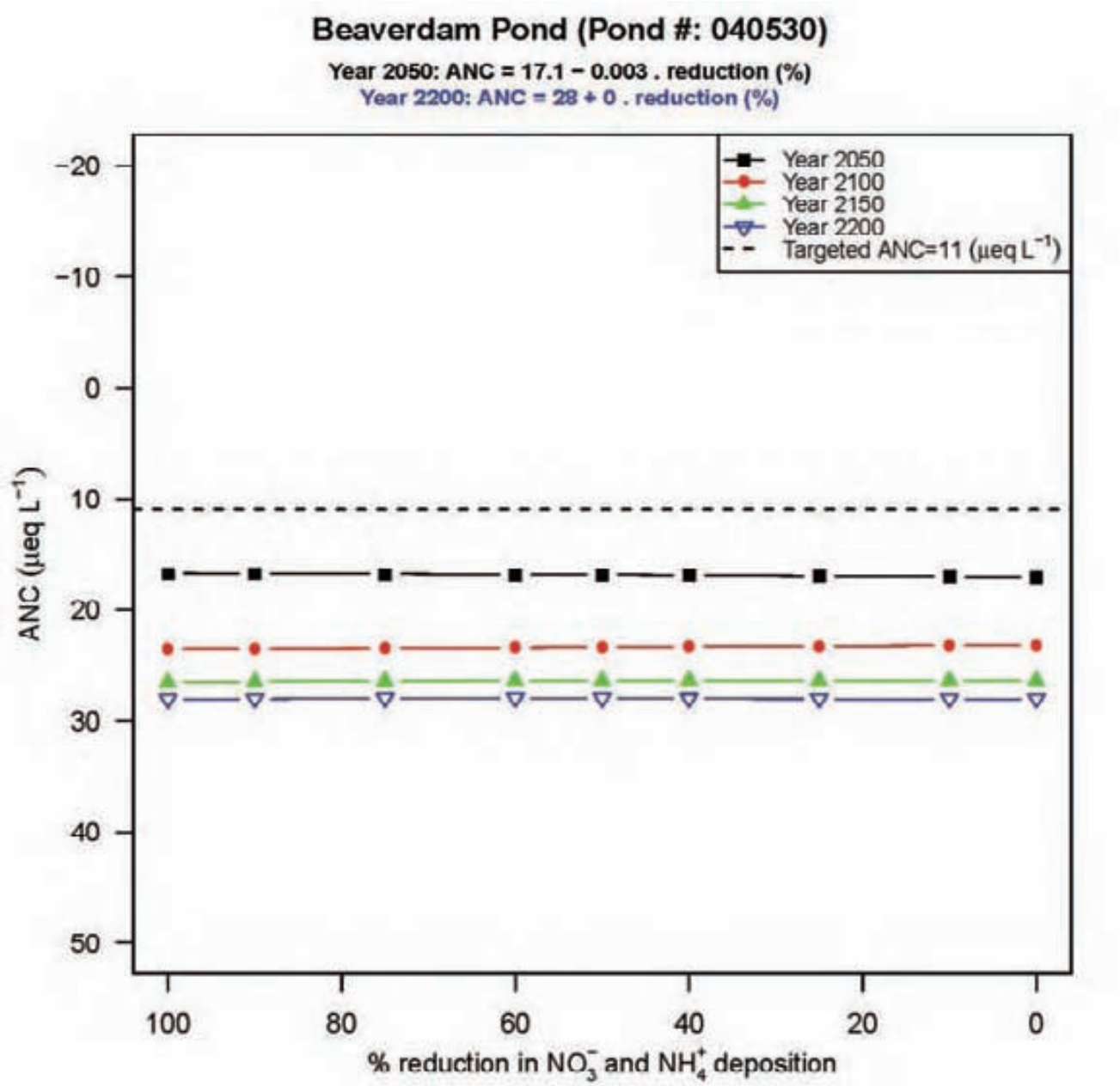

Soda Pond (Pond #: 040511)
Year 2050: ANC = 11.6 + 0.002 . reduction (%)
Year 2200: ANC = 19.9 – 0.006 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
-20
-10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

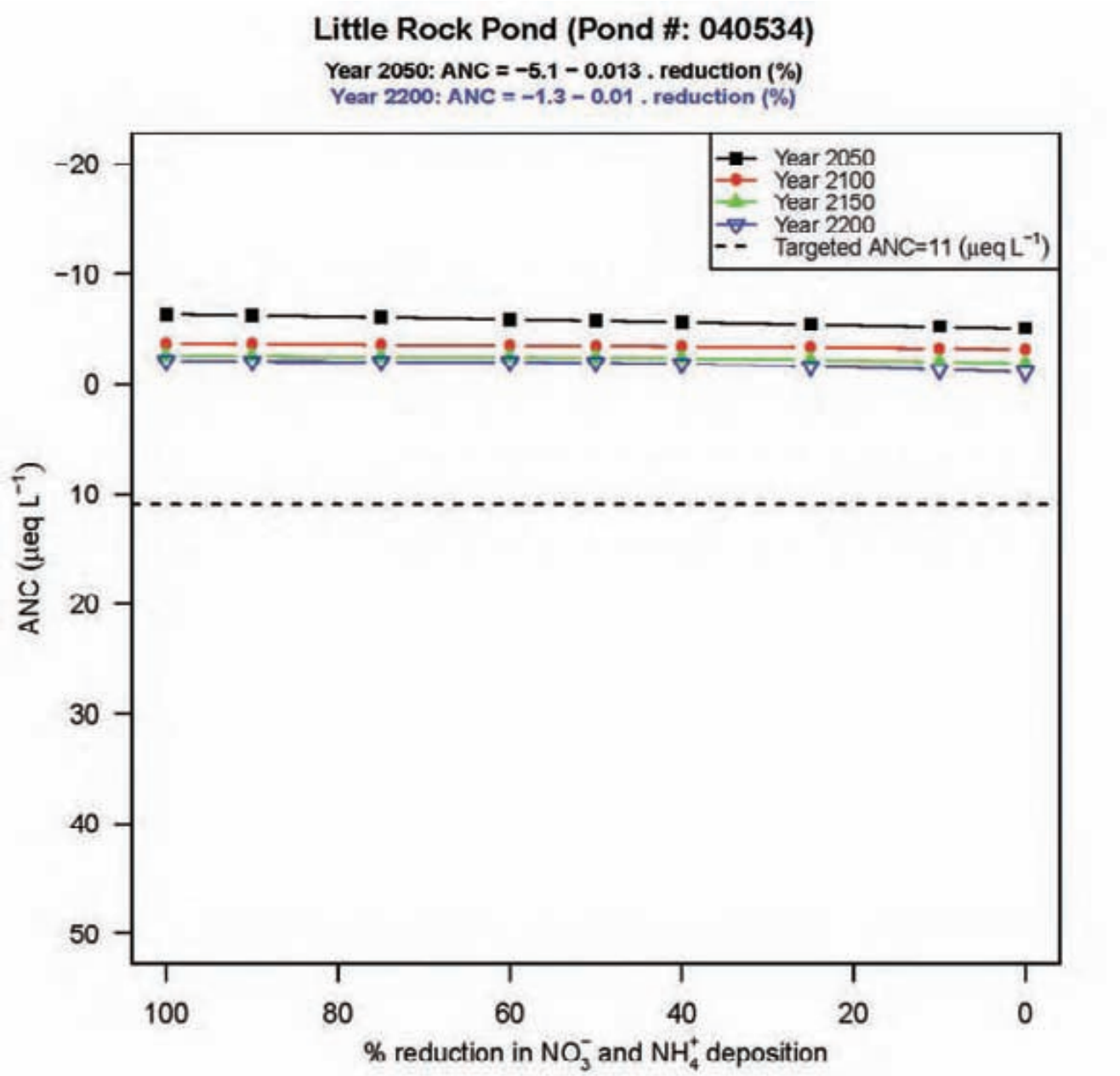

Unnamed Pond (Pond #: 040513)
Year 2050: ANC = 13.4 + 0 . reduction (%)
Year 2200: ANC = 21.3 + 0.005 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
-20
-10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

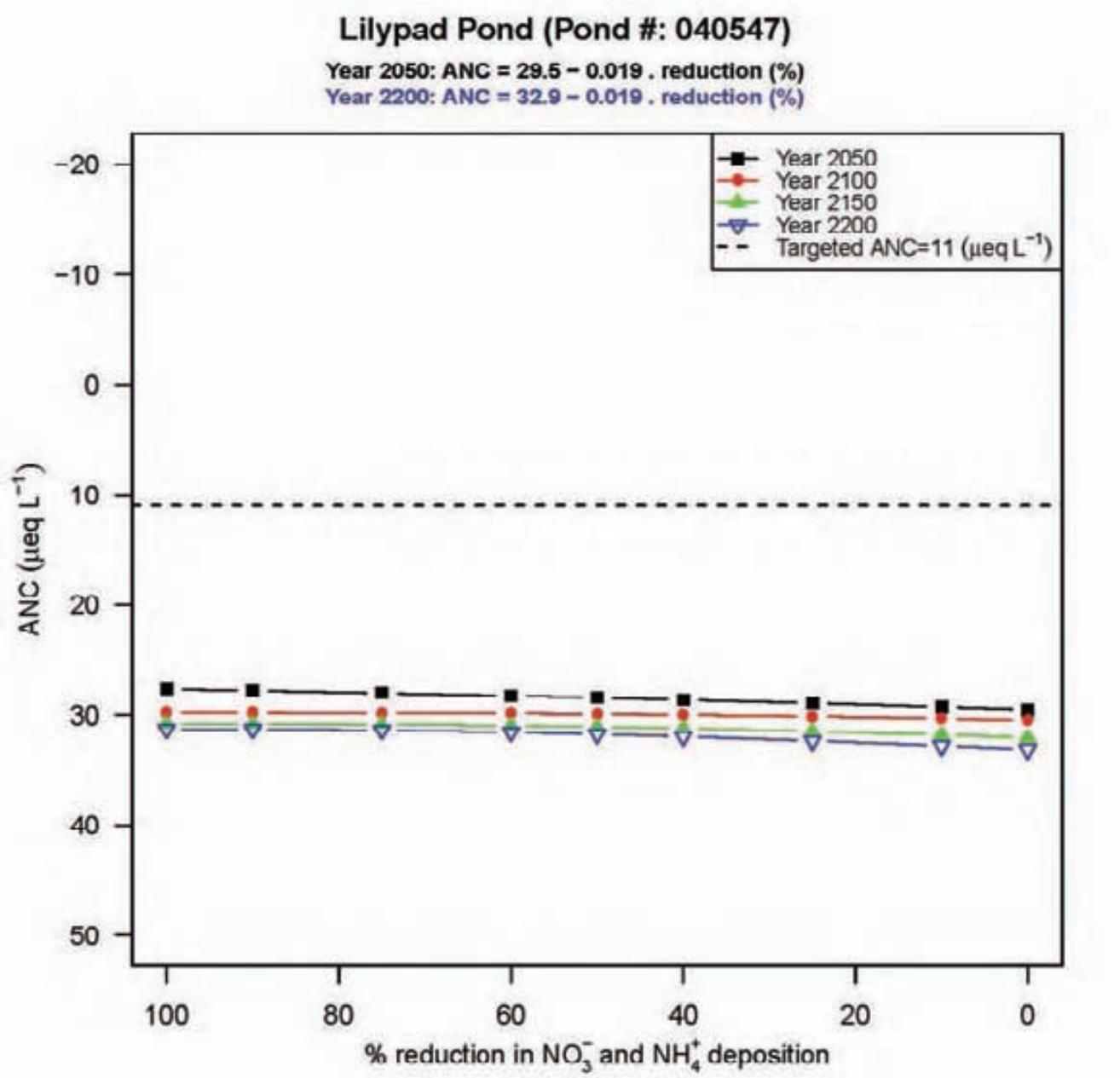

Higby Twins E. Pond (Pond #: 040522)
Year 2050: ANC = 10.2 + 0.013 . reduction (%)
Year 2200: ANC = 21 + 0.02 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
-20
-10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

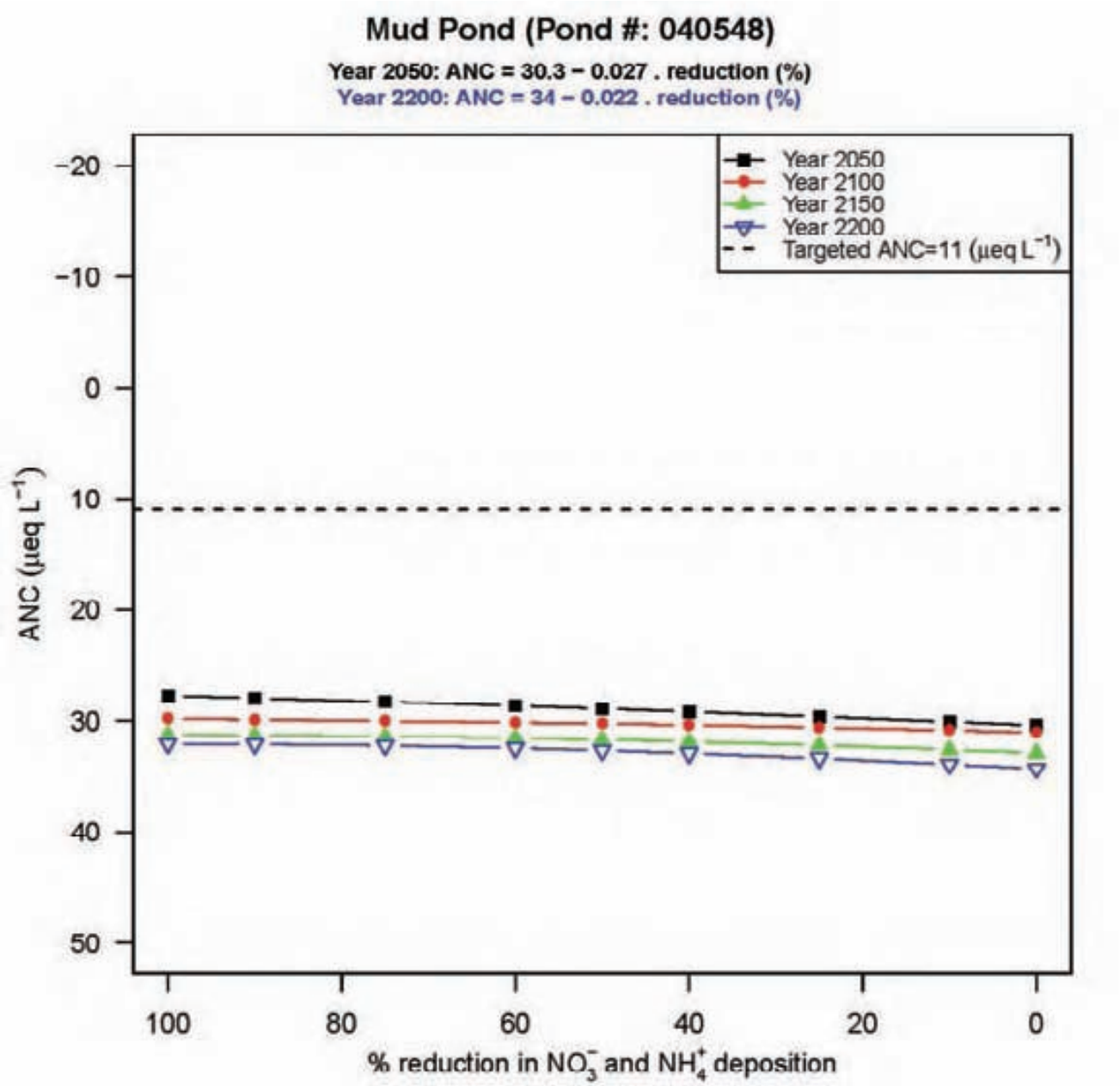

Higby Twins W. Pond (Pond #: 040523)
Year 2050: ANC = 14 + 0.007 . reduction (%)
Year 2200: ANC = 25.7 − 0.002 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

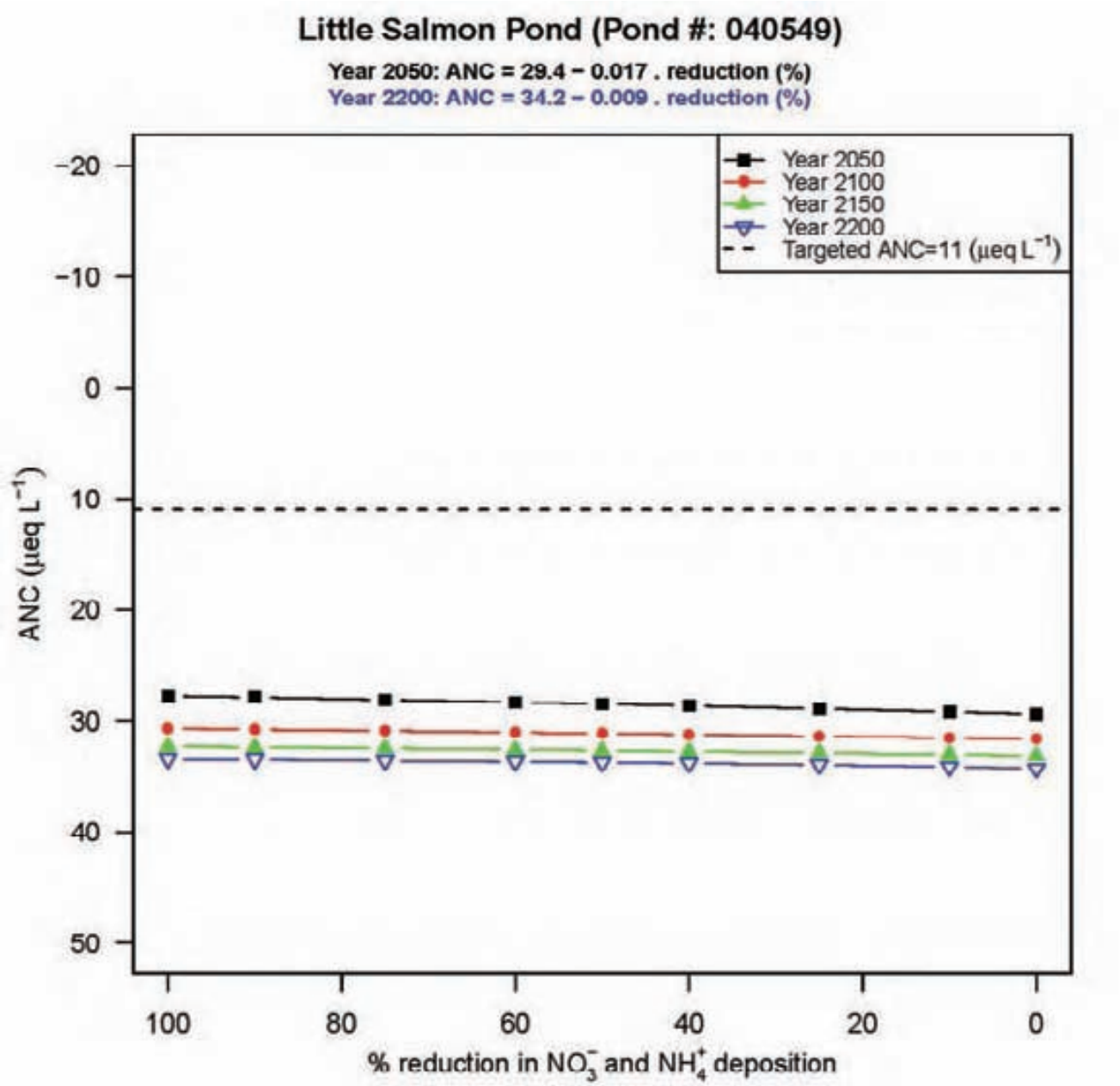

Summit Pond (Pond #: 040527)
Year 2050: ANC = −5.4 − 0.013 . reduction (%)
Year 2200: ANC = −1.7 − 0.009 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

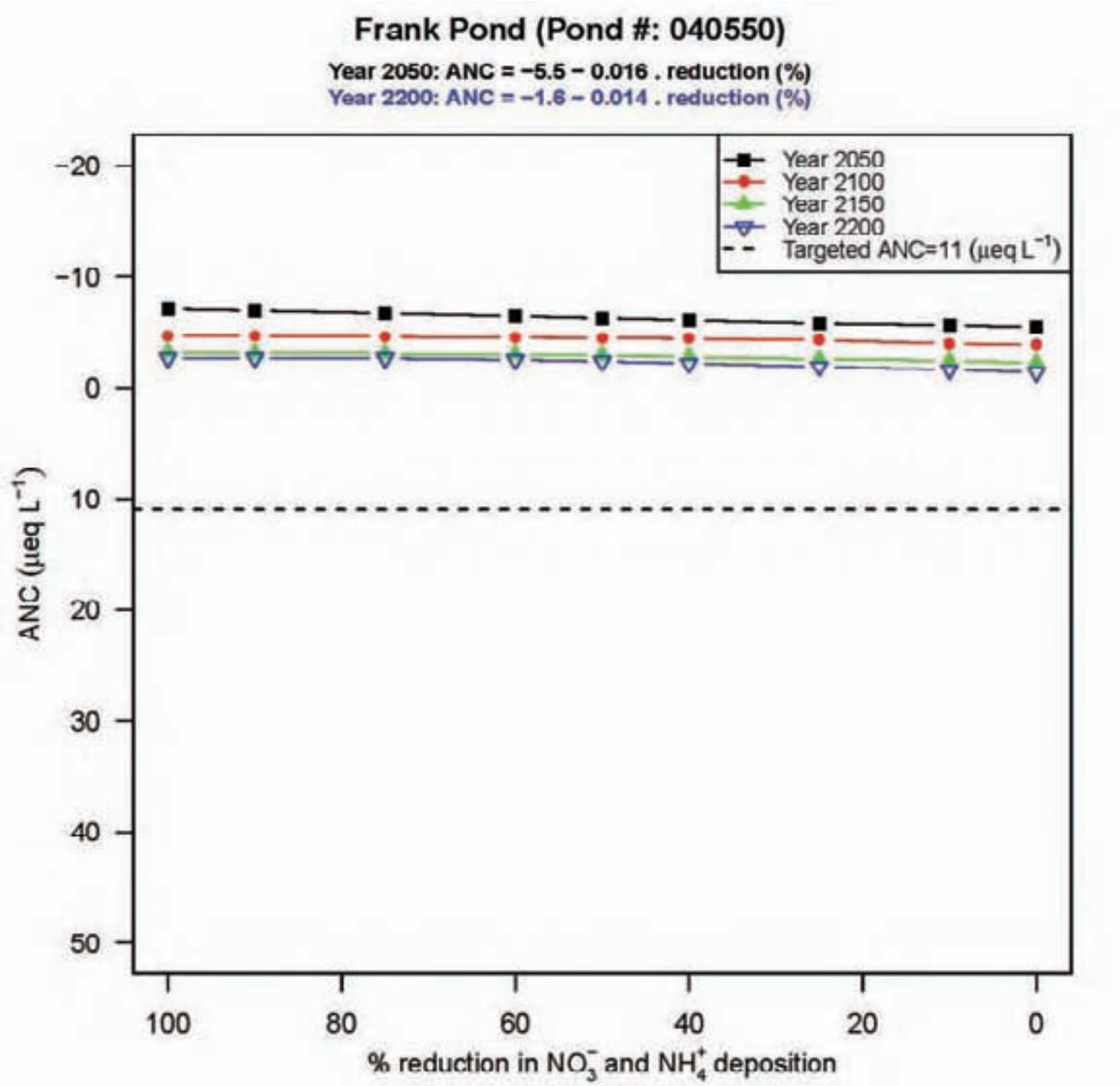

Beaverdam Pond (Pond #: 040530)
Year 2050: ANC = 17.1 − 0.003 . reduction (%)
Year 2200: ANC = 28 + 0 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

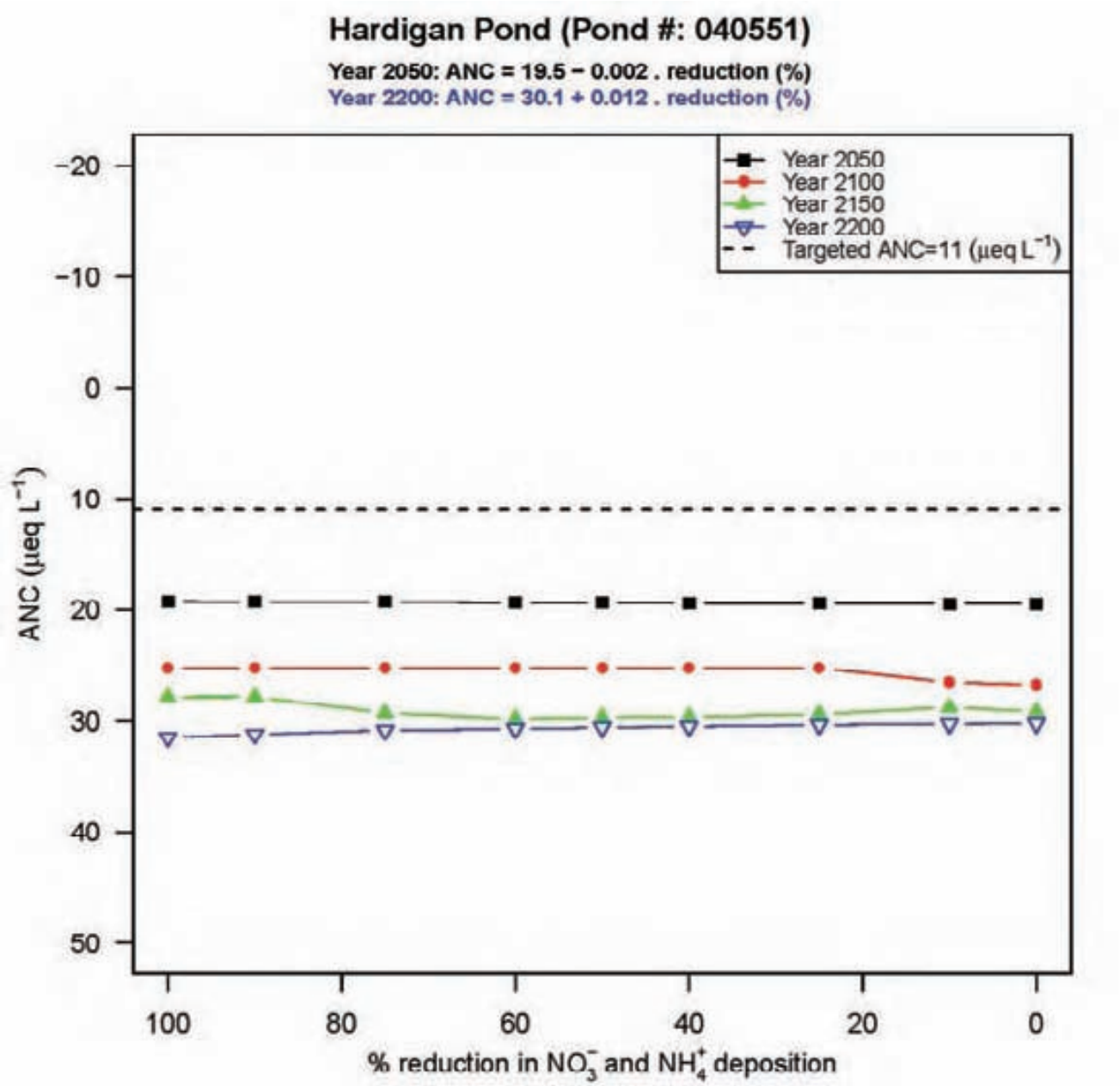

Little Rock Pond (Pond #: 040534)
Year 2050: ANC = −5.1 − 0.013 . reduction (%)
Year 2200: ANC = −1.3 − 0.01 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

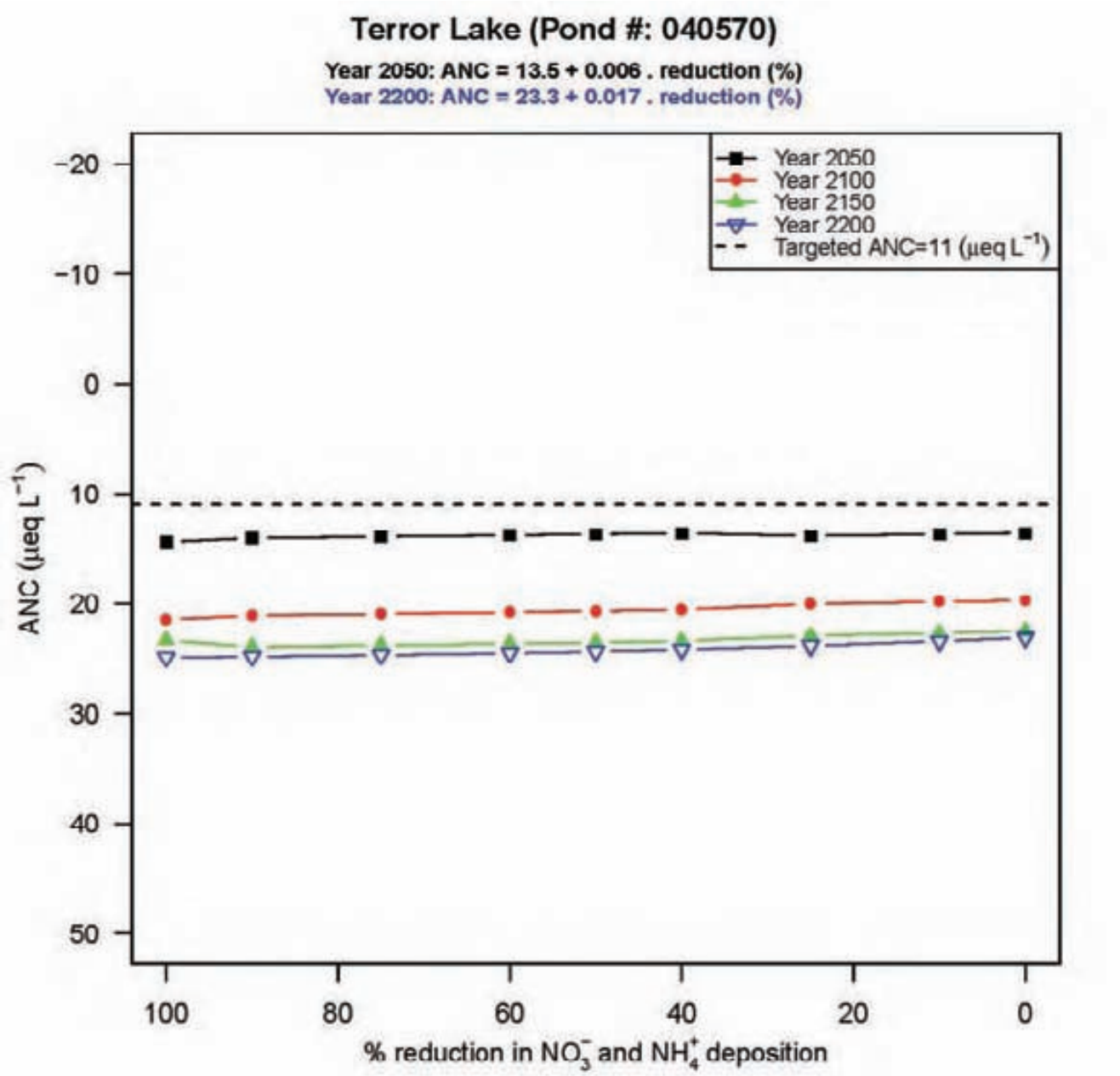

Lilypad Pond (Pond #: 040547)
Year 2050: ANC = 29.5 − 0.019 . reduction (%)
Year 2200: ANC = 32.9 − 0.019 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

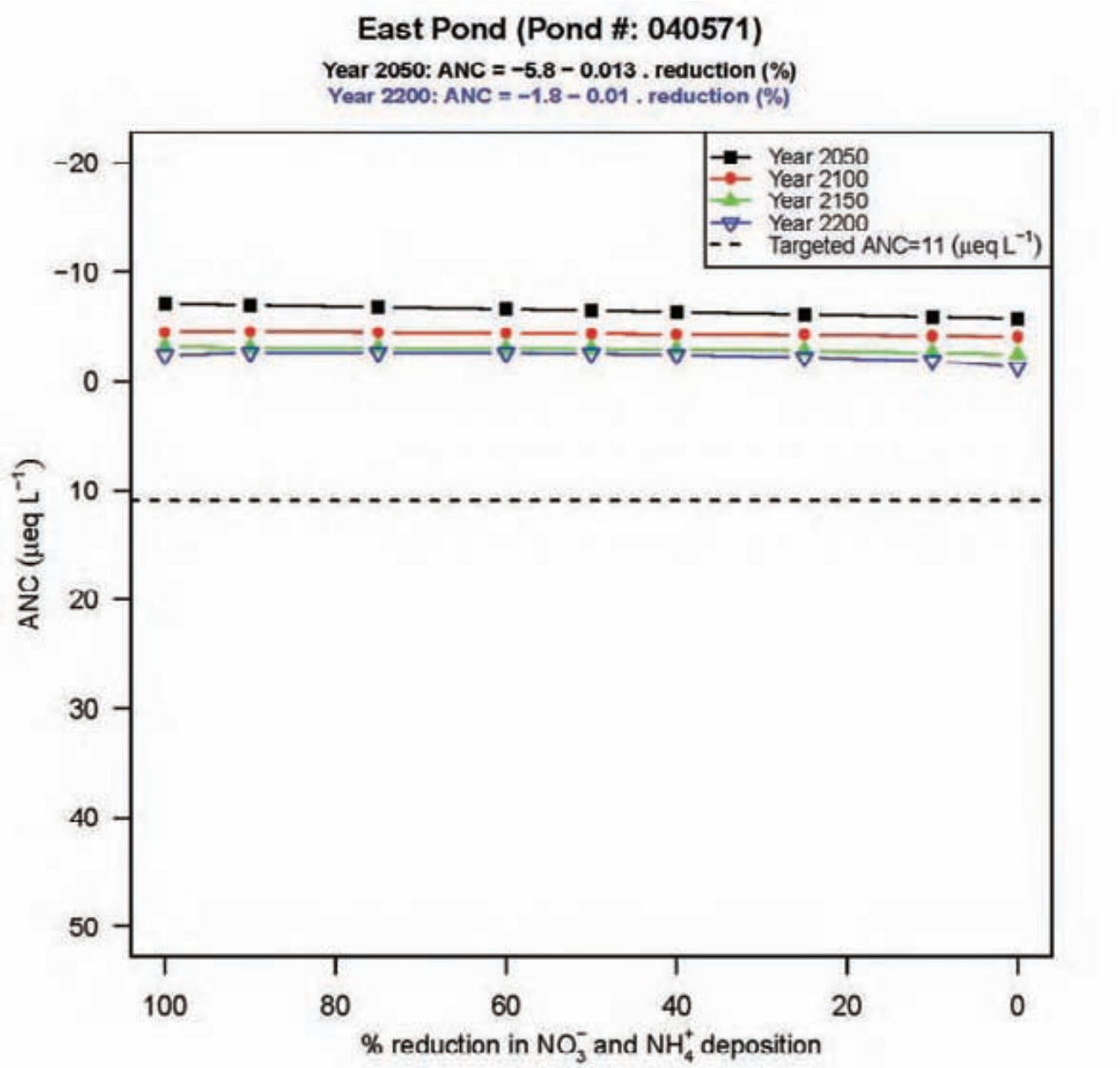

Mud Pond (Pond #: 040548)
Year 2050: ANC = 30.3 − 0.027 . reduction (%)
Year 2200: ANC = 34 − 0.022 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

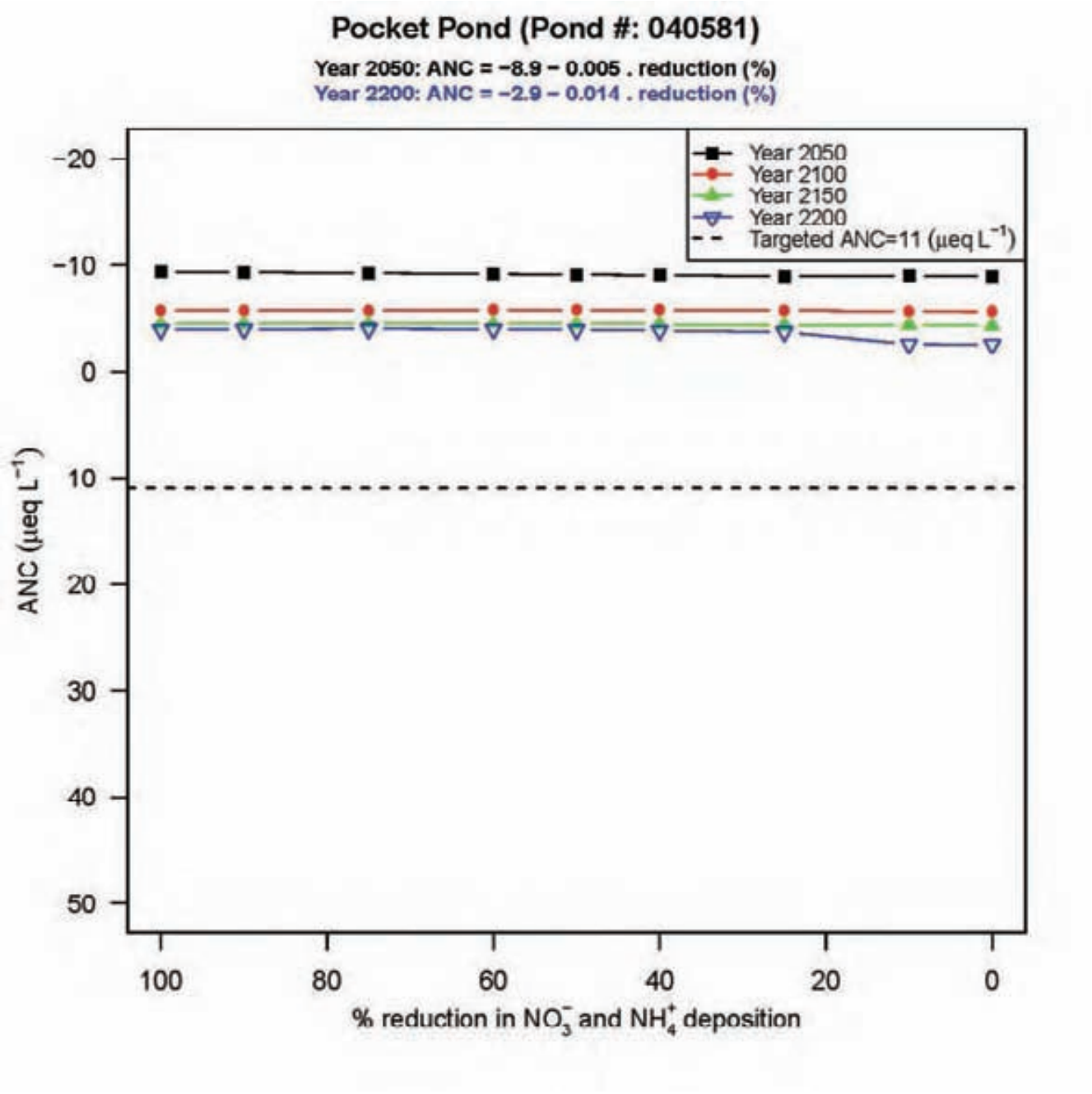

Little Salmon Pond (Pond #: 040549)
Year 2050: ANC = 29.4 − 0.017 . reduction (%)
Year 2200: ANC = 34.2 − 0.009 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

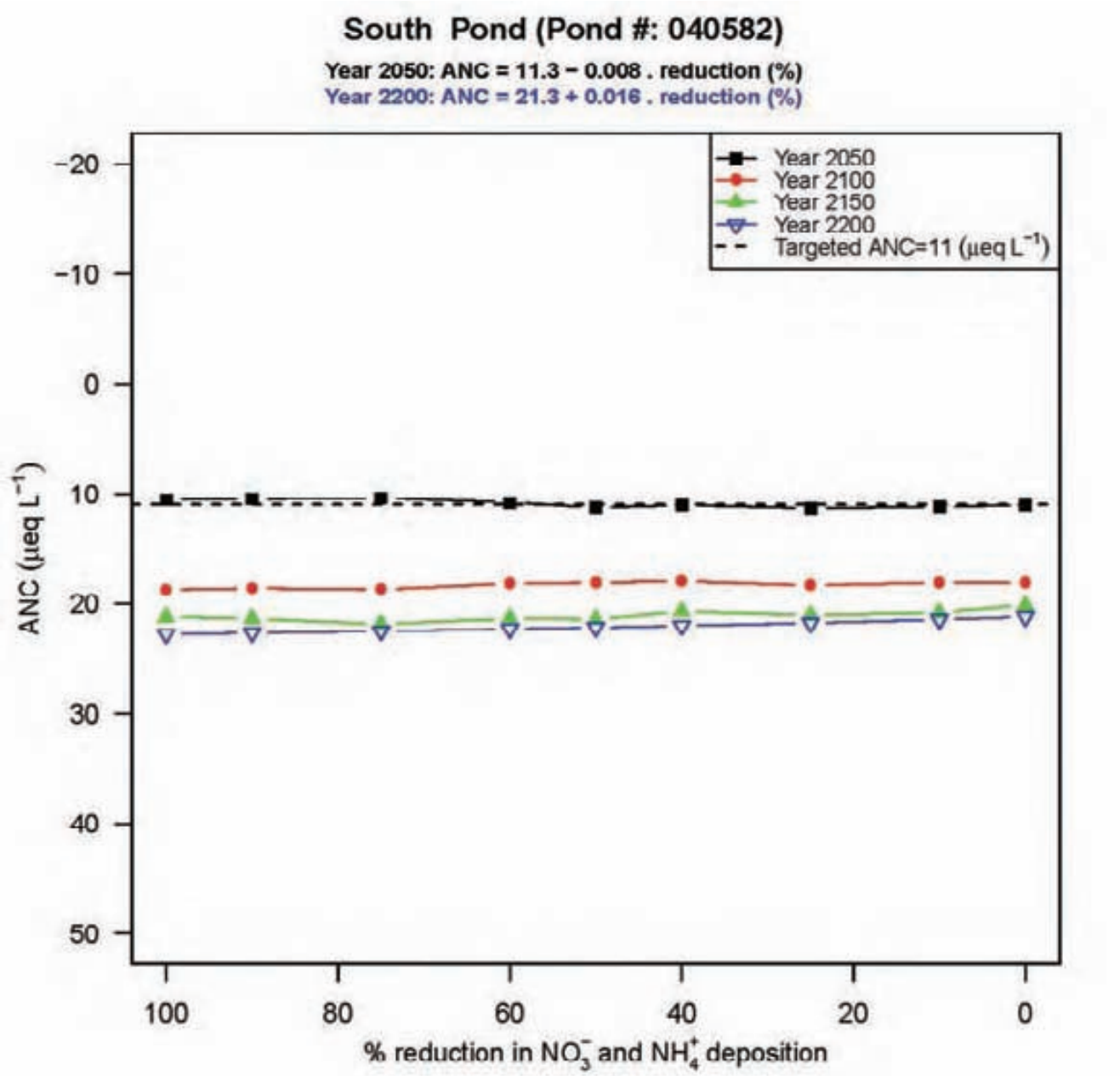

Frank Pond (Pond #: 040550)
Year 2050: ANC = −5.5 − 0.016 . reduction (%)
Year 2200: ANC = −1.6 − 0.014 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

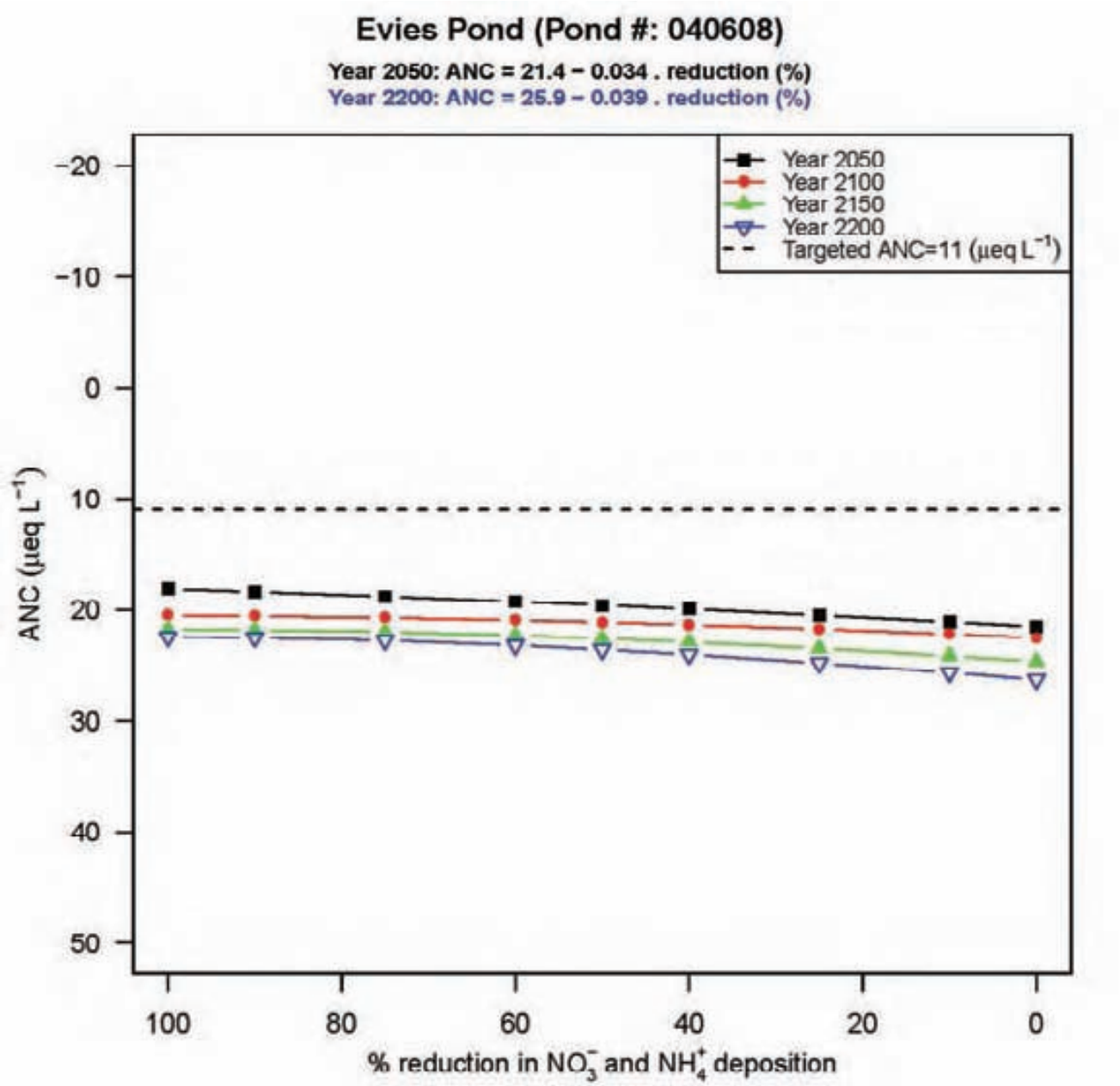

Hardigan Pond (Pond #: 040551)
Year 2050: ANC = 19.5 − 0.002 . reduction (%)
Year 2200: ANC = 30.1 + 0.012 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

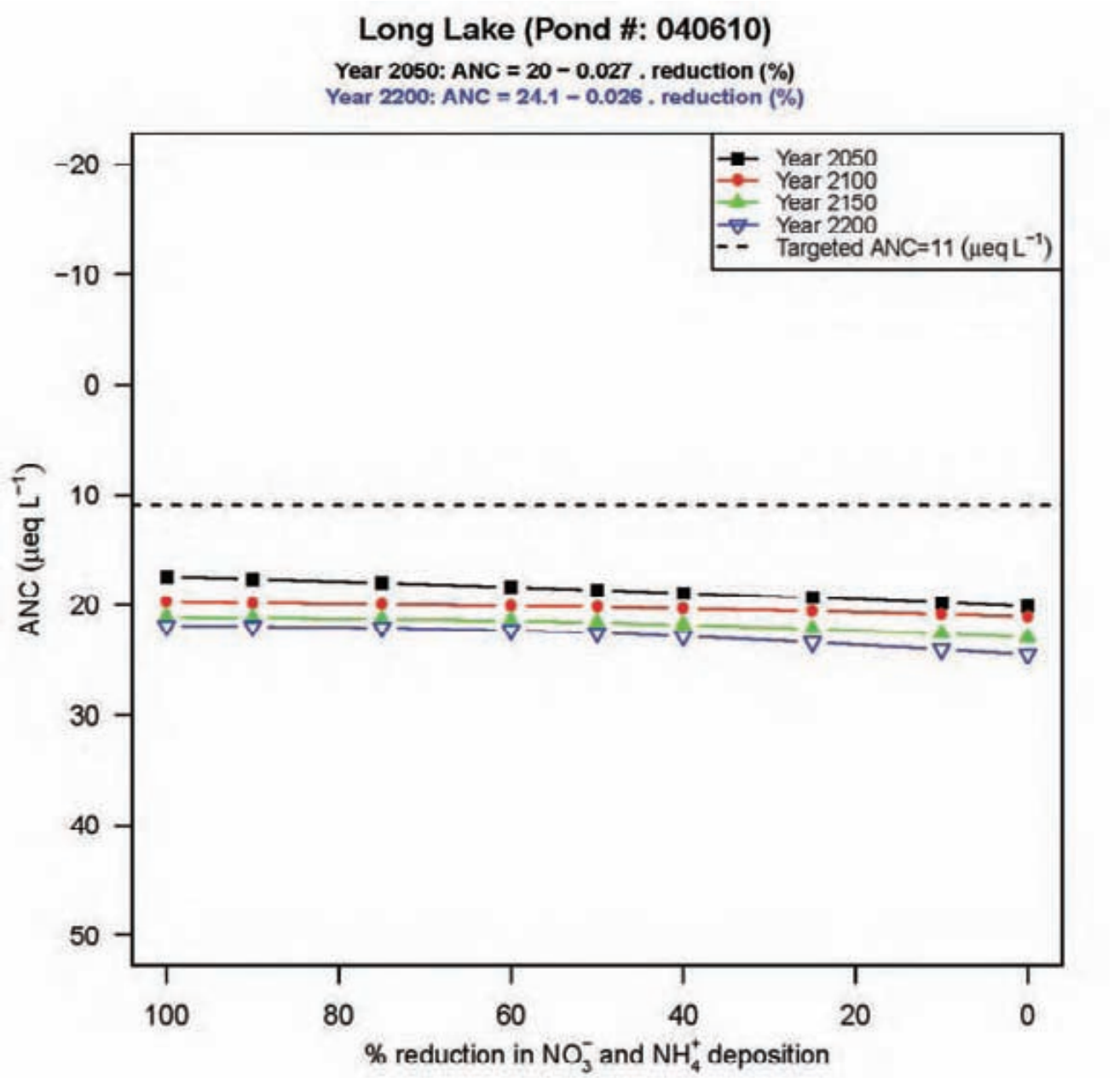

Terror Lake (Pond #: 040570)
Year 2050: ANC = 13.5 + 0.006 . reduction (%)
Year 2200: ANC = 23.3 + 0.017 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
-20
-10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

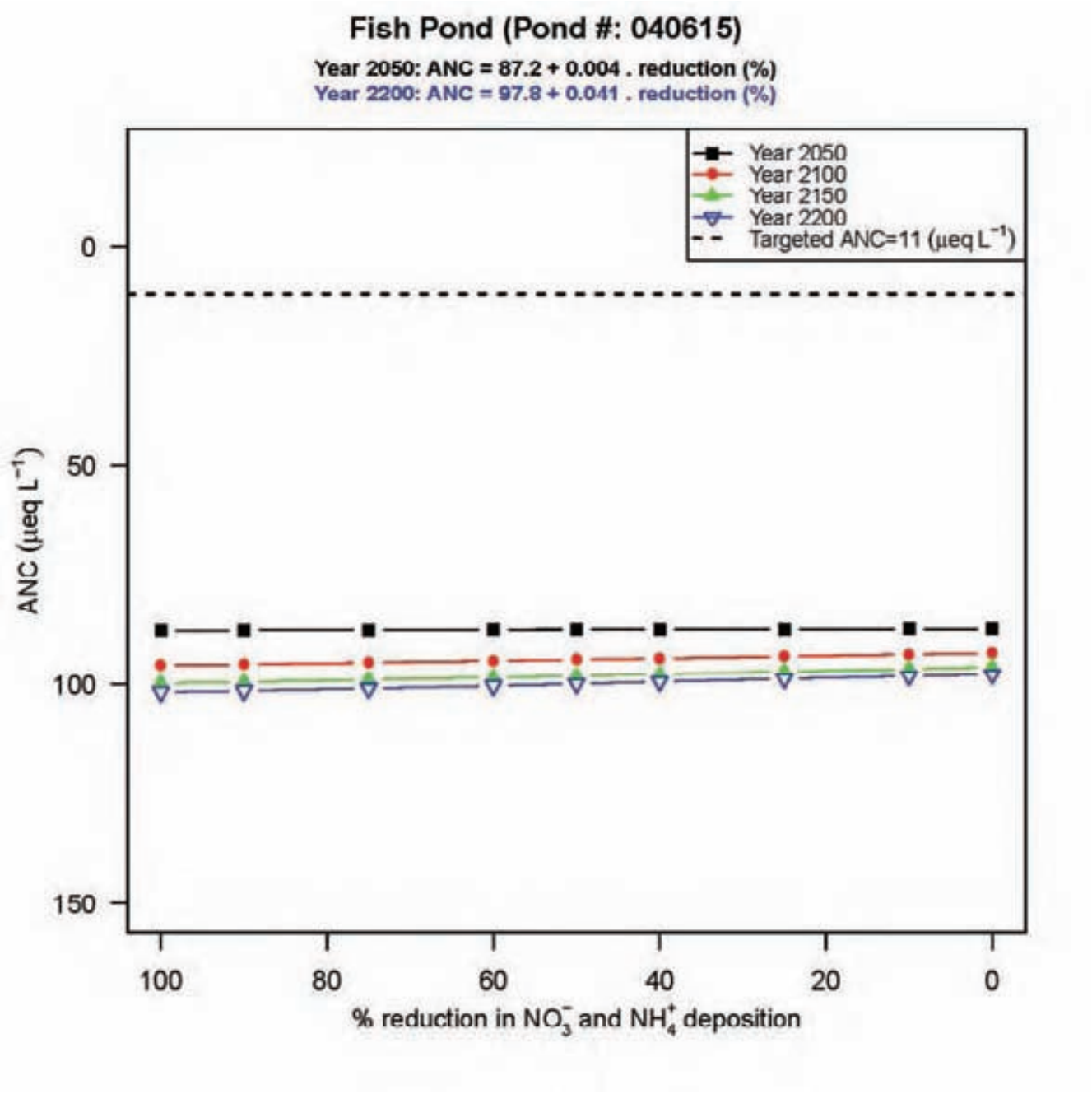

East Pond (Pond #: 040571)
Year 2050: ANC = −5.8 − 0.013 . reduction (%)
Year 2200: ANC = −1.8 − 0.01 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

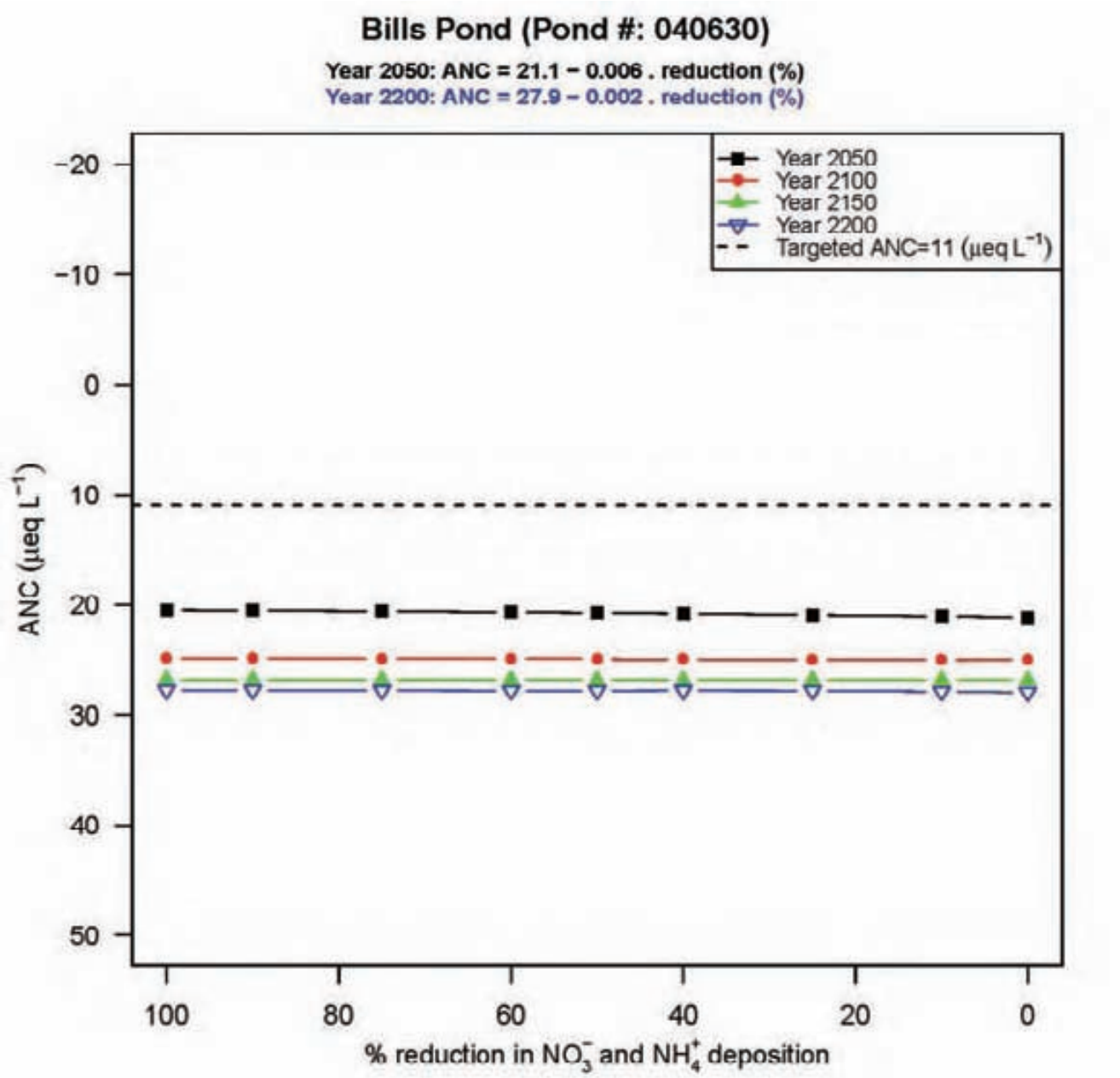

Pocket Pond (Pond #: 040581)
Year 2050: ANC = −8.9 − 0.005 . reduction (%)
Year 2200: ANC = −2.9 − 0.014 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

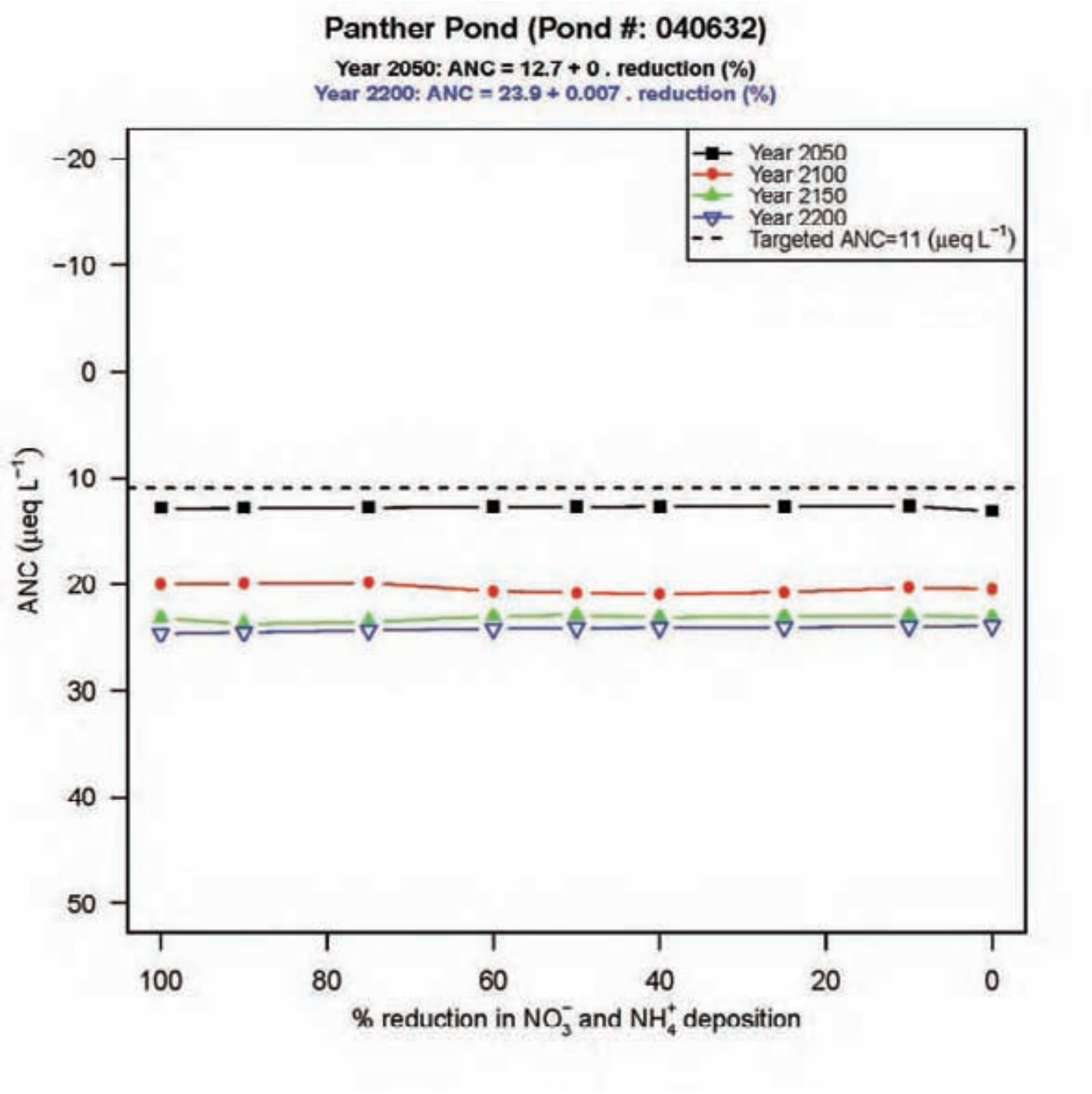

South Pond (Pond #: 040582)
Year 2050: ANC = 11.3 − 0.008 . reduction (%)
Year 2200: ANC = 21.3 + 0.016 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

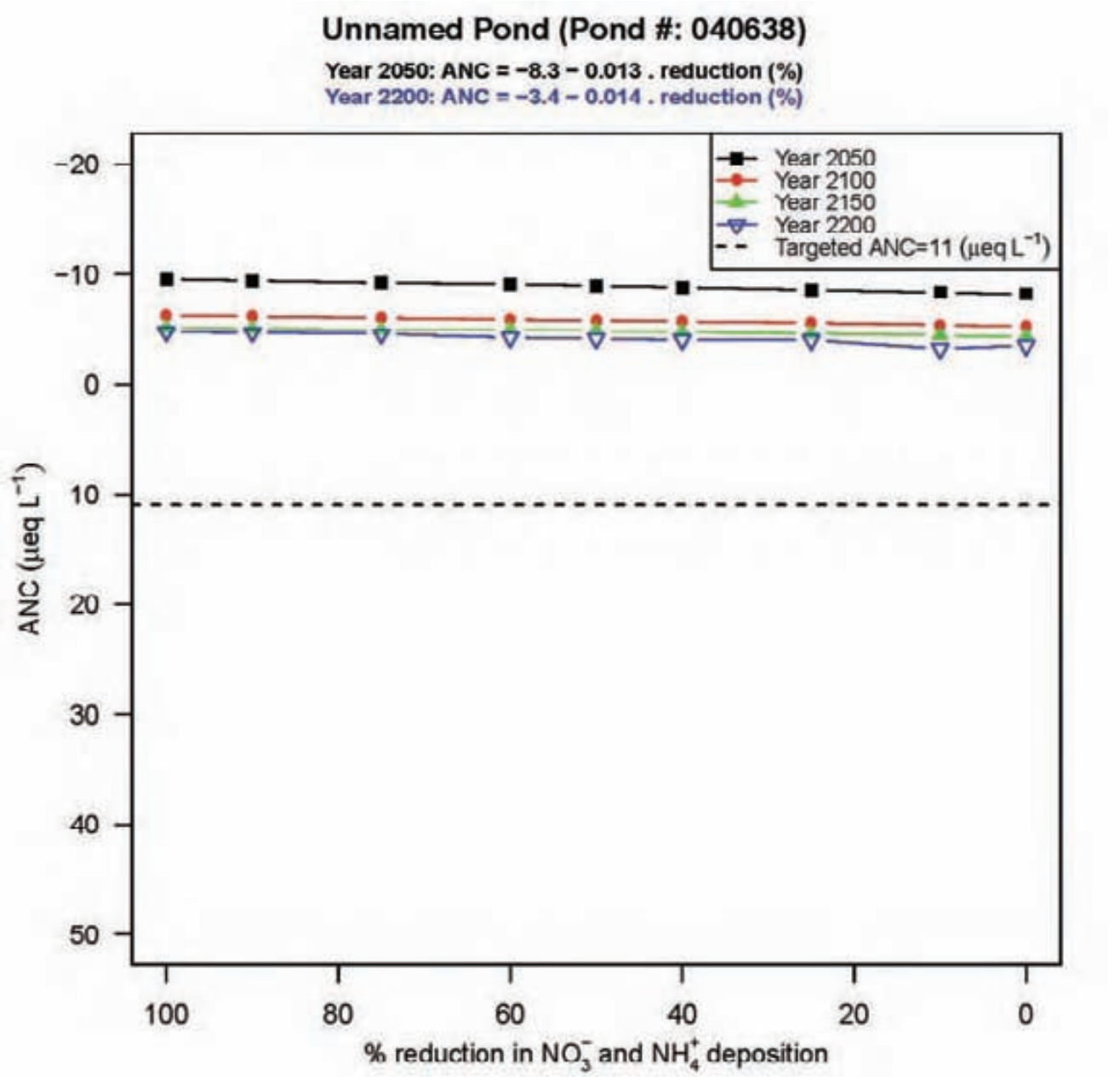

Evies Pond (Pond #: 040608)
Year 2050: ANC = 21.4 − 0.034 . reduction (%)
Year 2200: ANC = 25.9 − 0.039 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

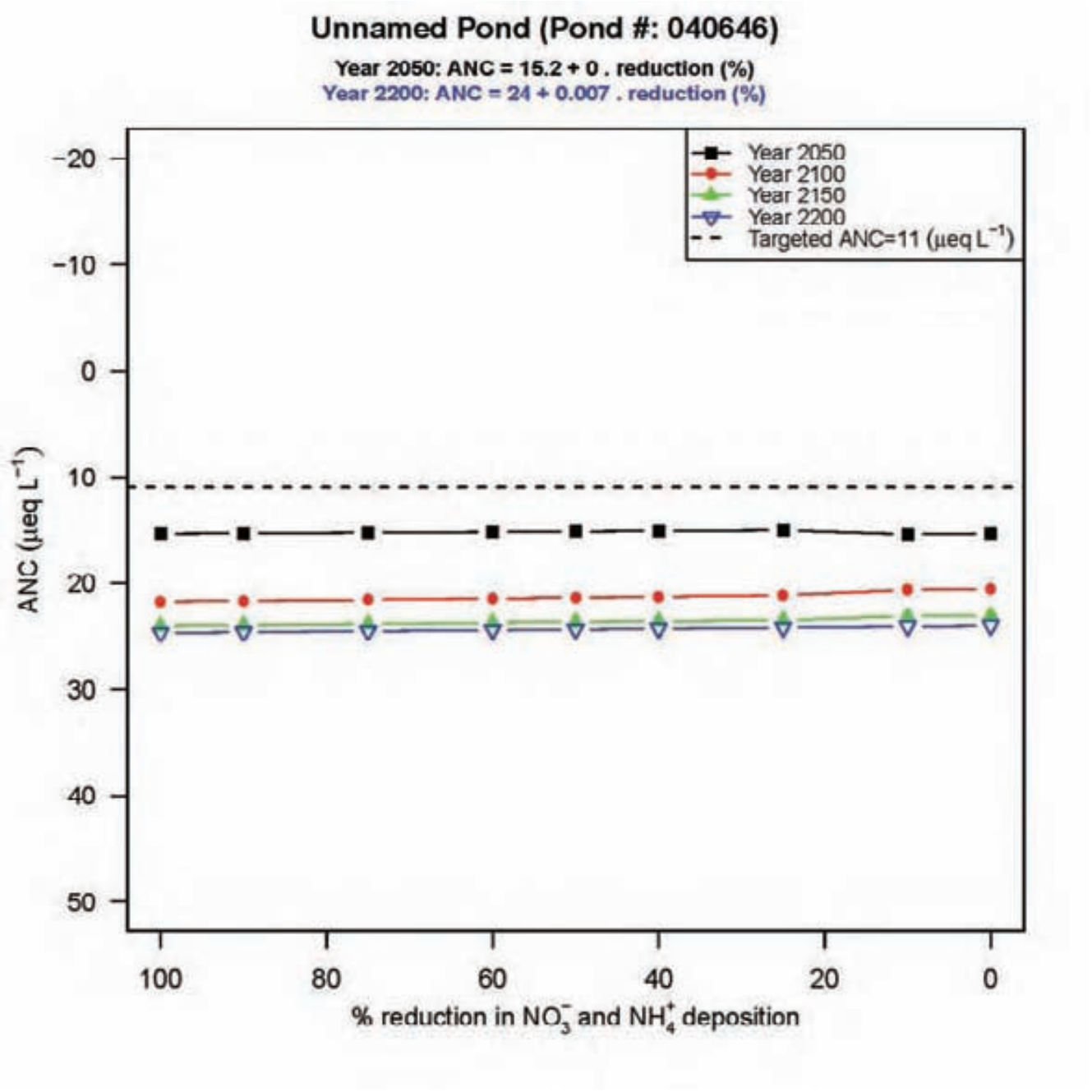

Long Lake (Pond #: 040610)
Year 2050: ANC = 20 − 0.027 . reduction (%)
Year 2200: ANC = 24.1 − 0.026 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

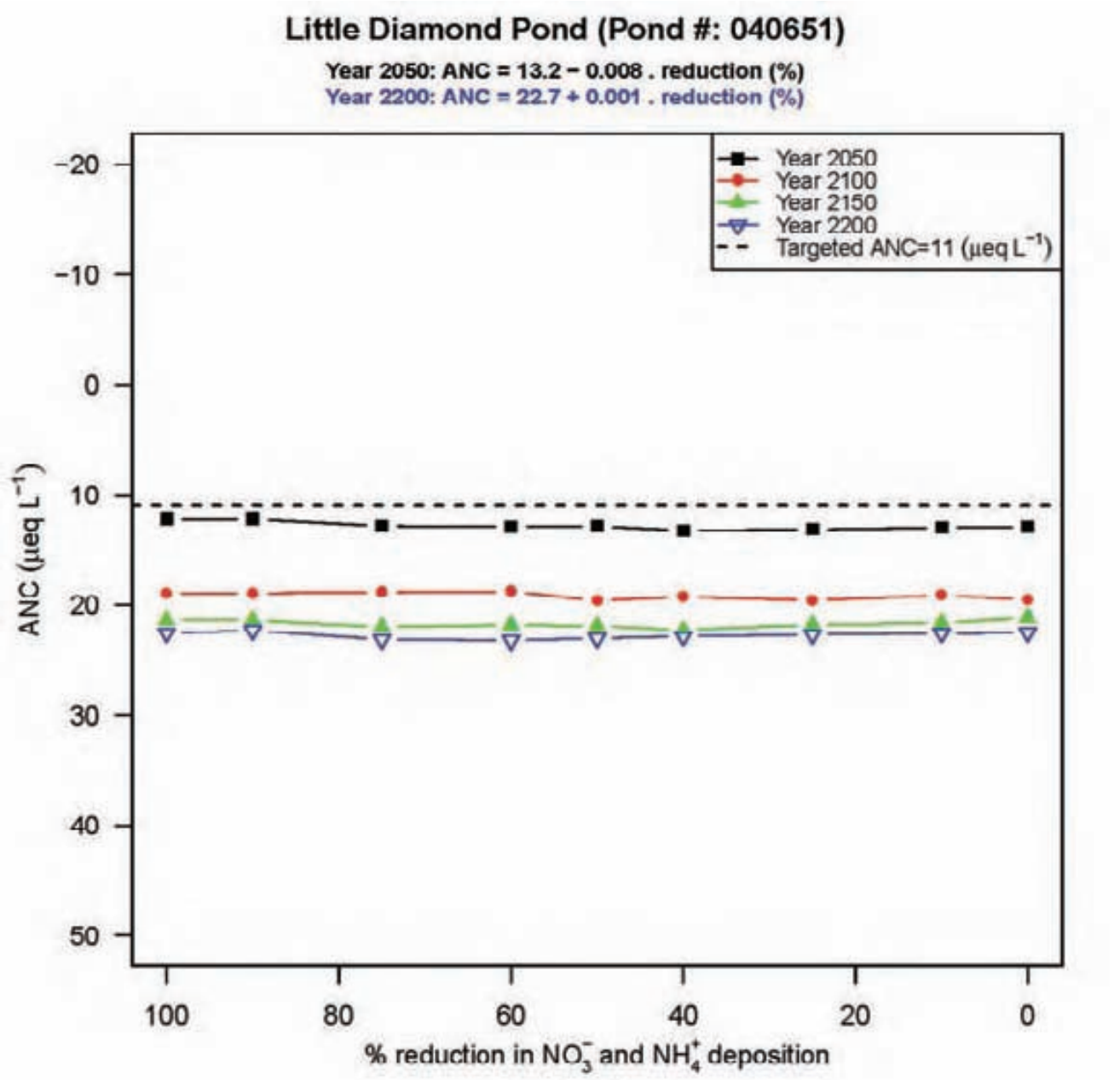

Fish Pond (Pond #: 040615)
Year 2050: ANC = 87.2 + 0.004 . reduction (%)
Year 2200: ANC = 97.8 + 0.041 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
0
50
100
150
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition

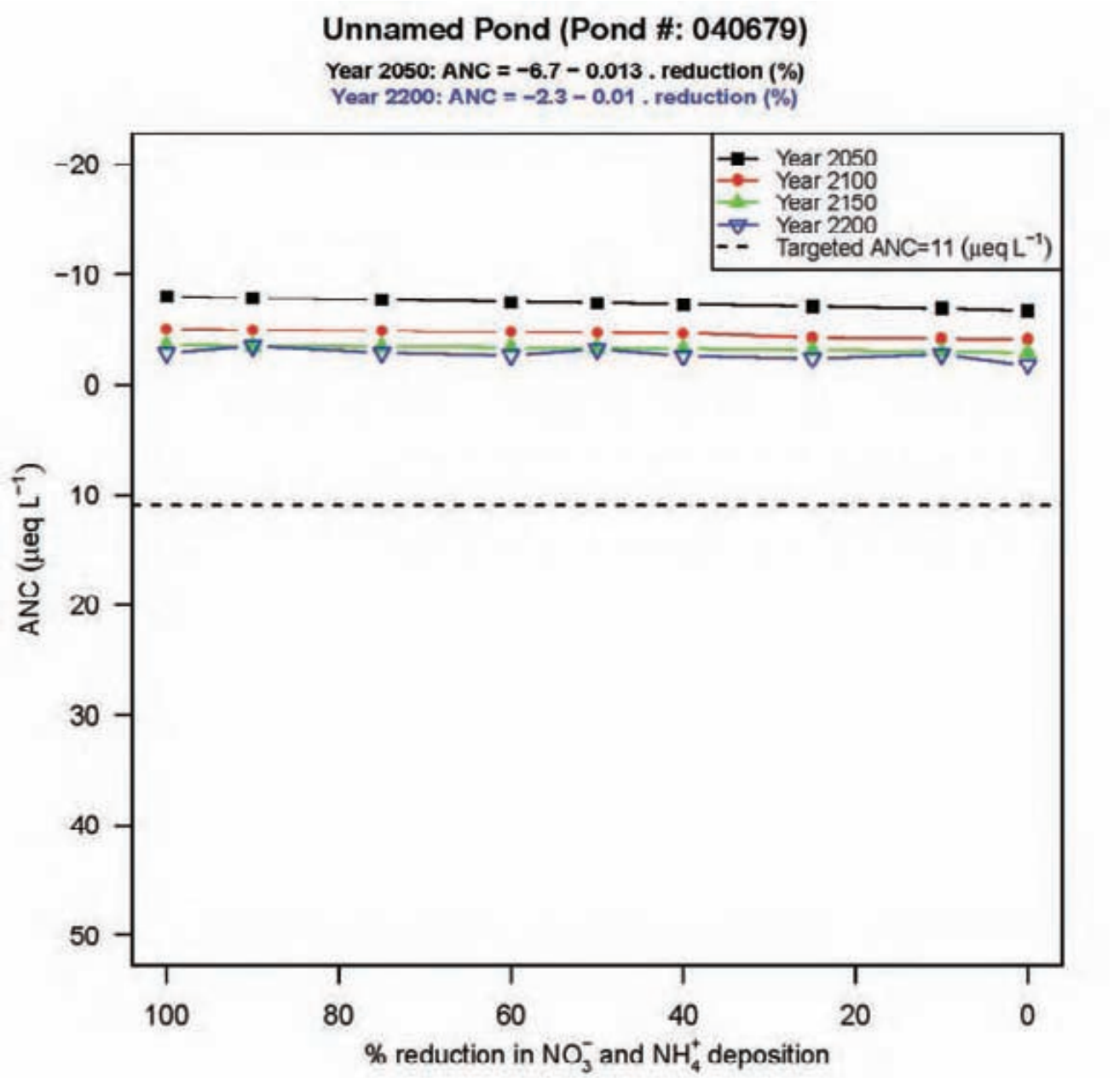

Bills Pond (Pond #: 040630)
Year 2050: ANC = 21.1 − 0.006 . reduction (%)
Year 2200: ANC = 27.9 − 0.002 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition


Panther Pond (Pond #: 040632)
Year 2050: ANC = 12.7 + 0 . reduction (%)
Year 2200: ANC = 23.9 + 0.007 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
-20
-10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition


Unnamed Pond (Pond #: 040638)
Year 2050: ANC = −8.3 − 0.013 . reduction (%)
Year 2200: ANC = −3.4 − 0.014 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition


Unnamed Pond (Pond #: 040646)
Year 2050: ANC = 15.2 + 0 . reduction (%)
Year 2200: ANC = 24 + 0.007 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
-20
-10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition


Little Diamond Pond (Pond #: 040651)
Year 2050: ANC = 13.2 − 0.008 . reduction (%)
Year 2200: ANC = 22.7 + 0.001 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition


Unnamed Pond (Pond #: 040679)
Year 2050: ANC = −6.7 − 0.013 . reduction (%)
Year 2200: ANC = −2.3 − 0.01 . reduction (%)
Year 2050
Year 2100
Year 2150
Year 2200
Targeted ANC=11 (μeq L⁻¹)
ANC (μeq L⁻¹)
−20
−10
0
10
20
30
40
50
100
80
60
40
20
0
% reduction in NO3⁻ and NH4⁺ deposition