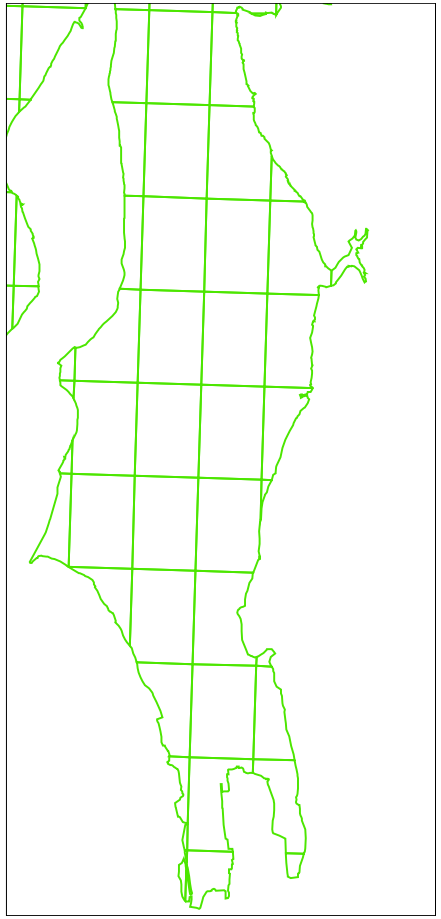
Budd Inlet Dissolved Oxygen TMDL

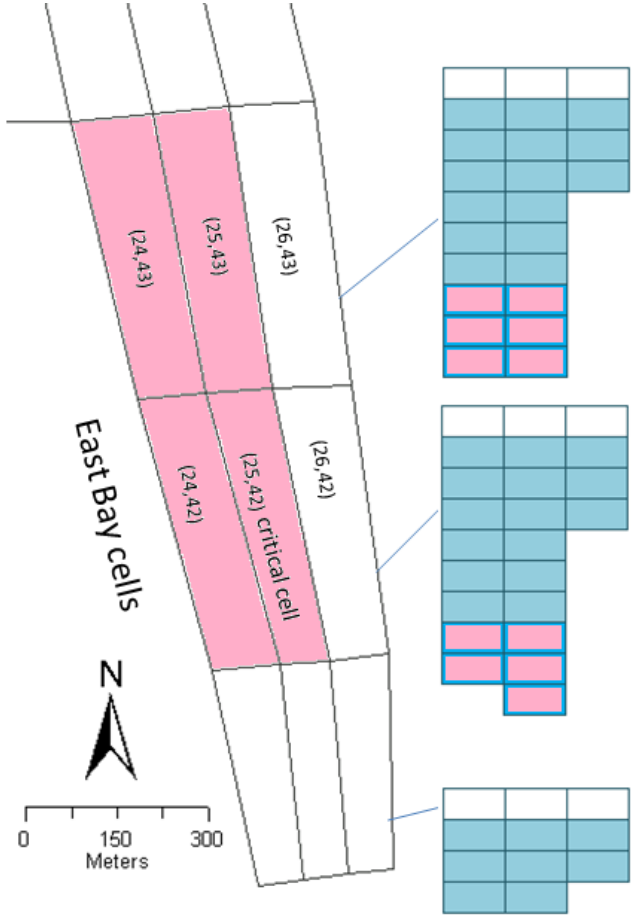
September 15
Advisory Committee Update

Budd Inlet Modeling



303(d)
listing grids

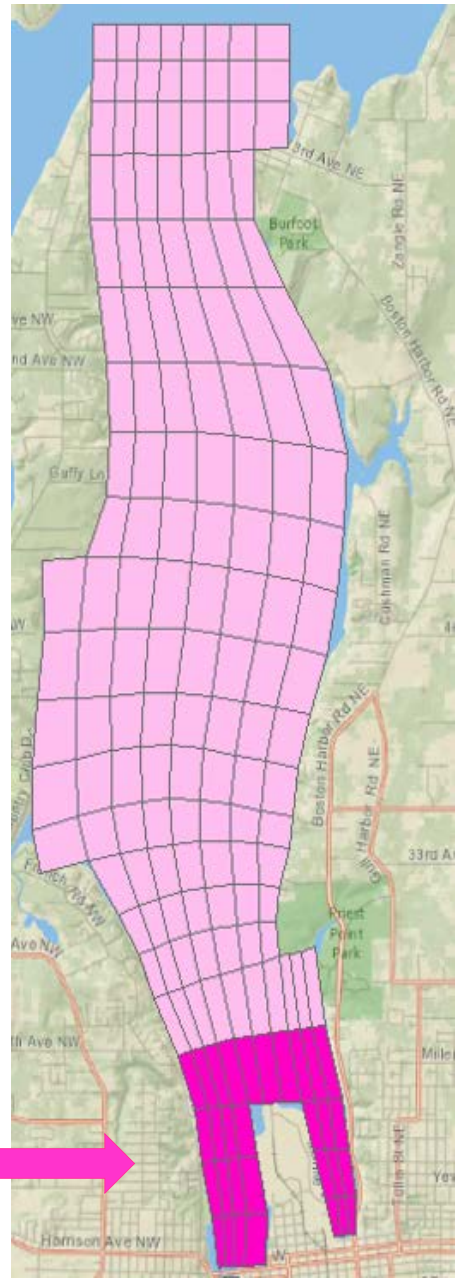
Budd Inlet
Model



Water Quality Standards

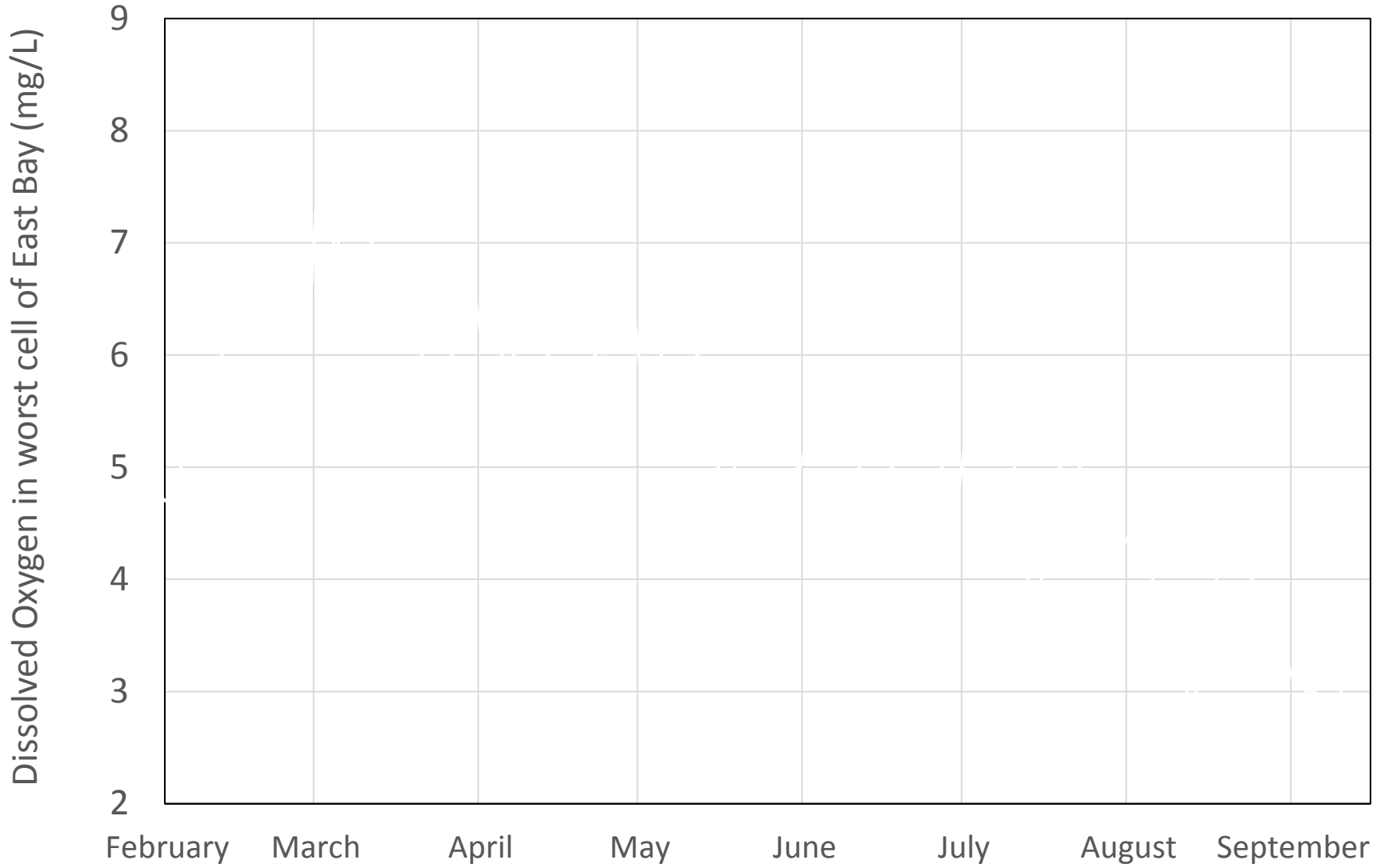
Outer Budd Inlet: **6** mg/L

Inner Budd Inlet: **5** mg/L

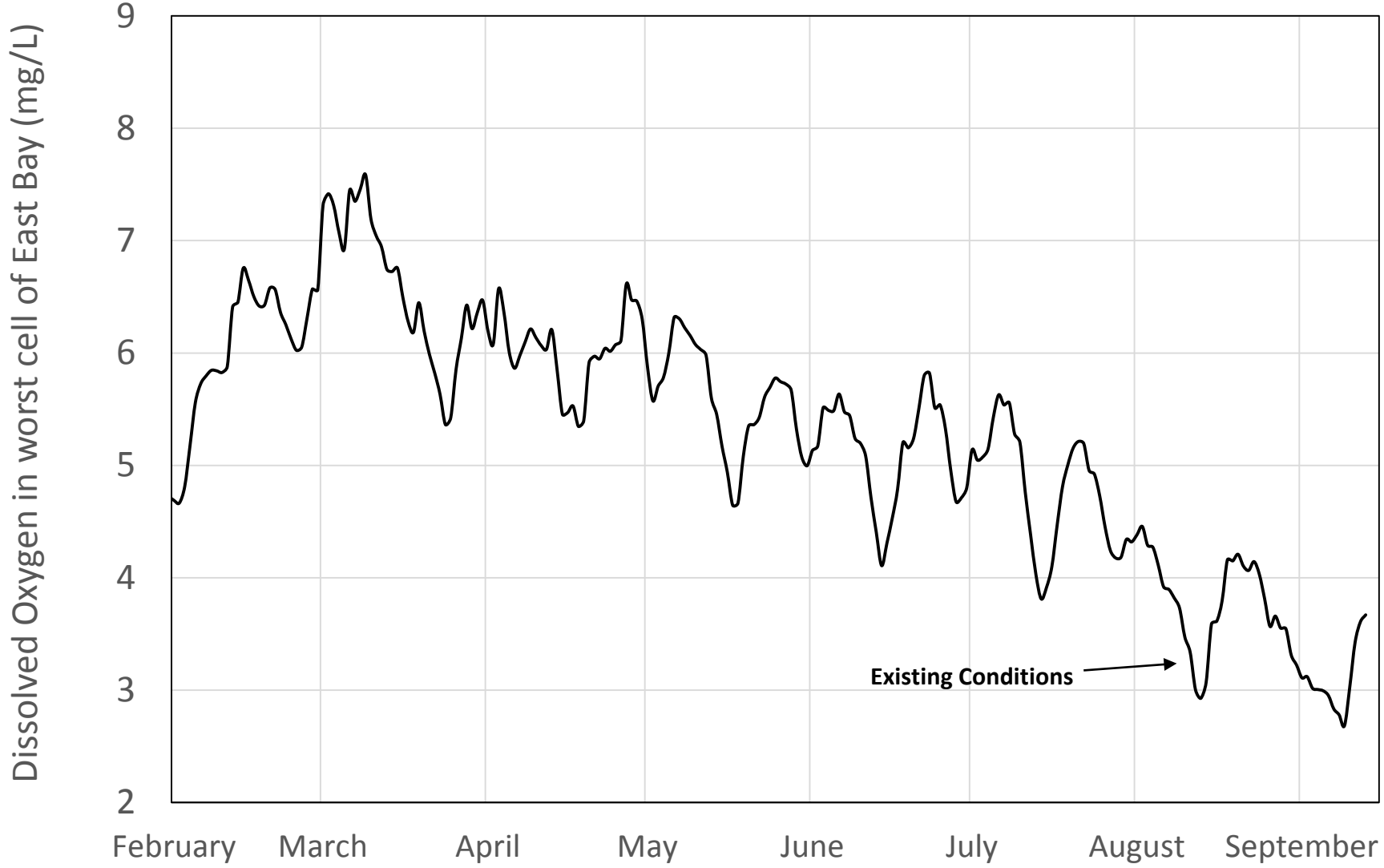


If natural conditions are below the standard, humans **cannot** deplete the DO by more than 0.2 mg/L.

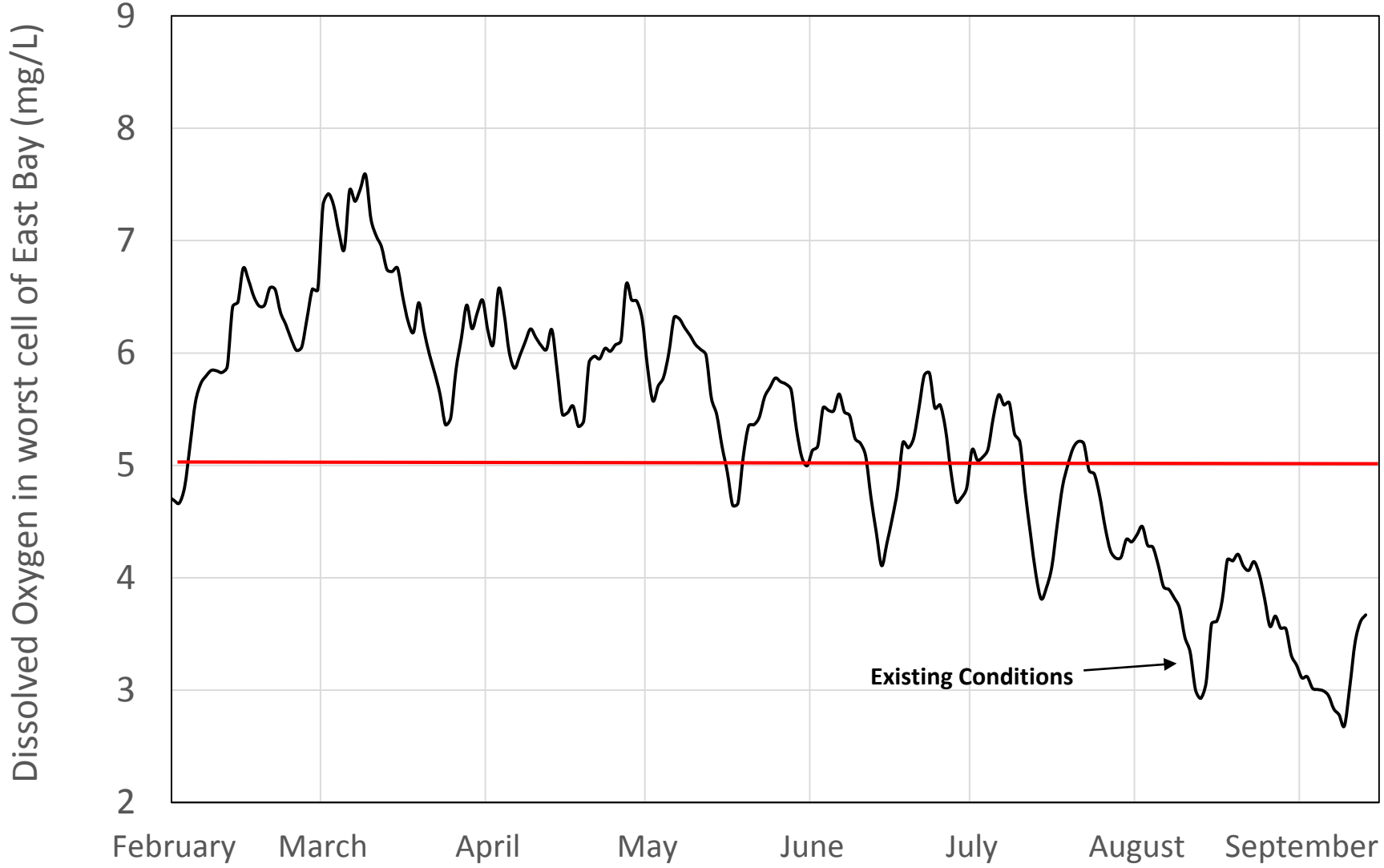
Predicted Dissolved Oxygen Concentrations under Different Scenarios



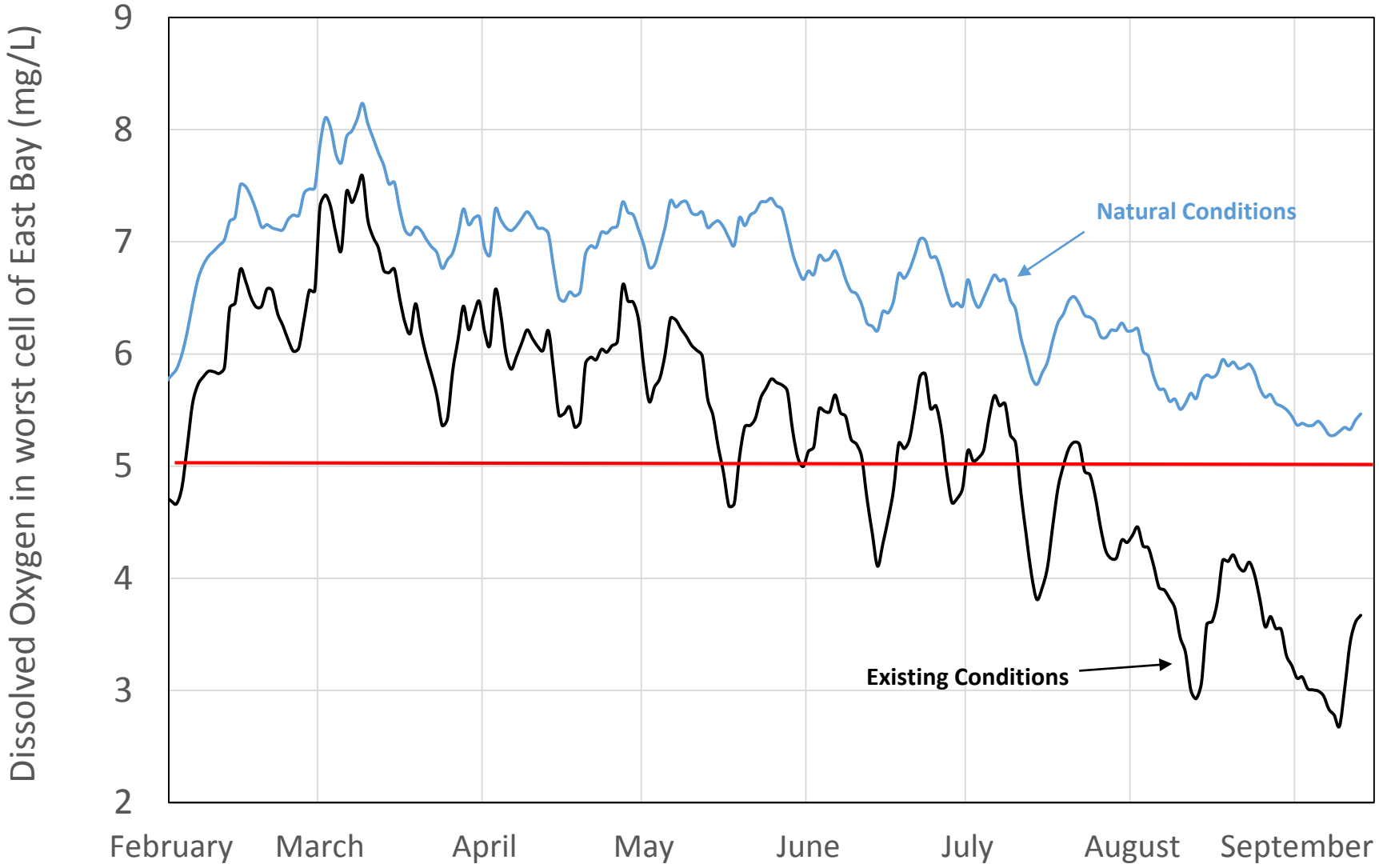
Predicted Dissolved Oxygen Concentrations under Different Scenarios



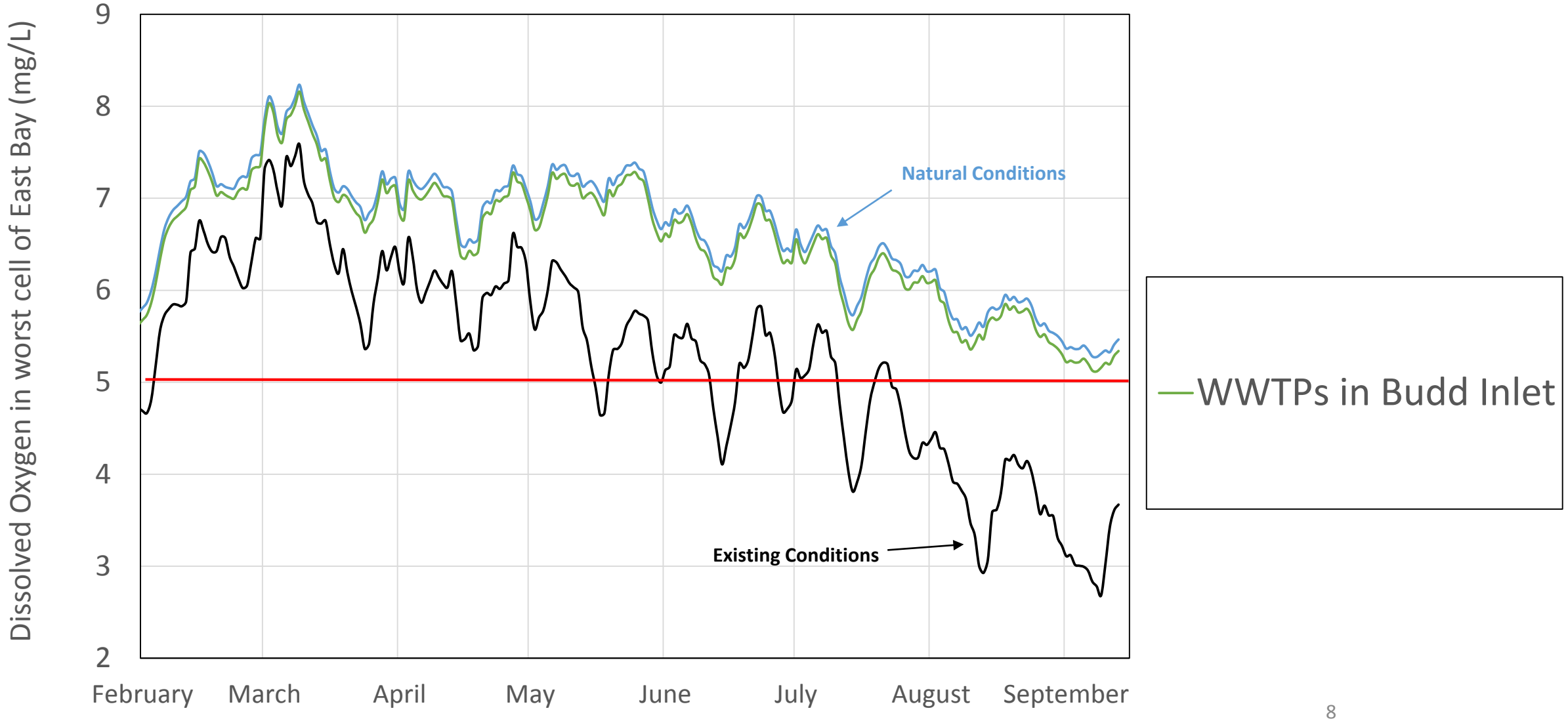
Predicted Dissolved Oxygen Concentrations under Different Scenarios



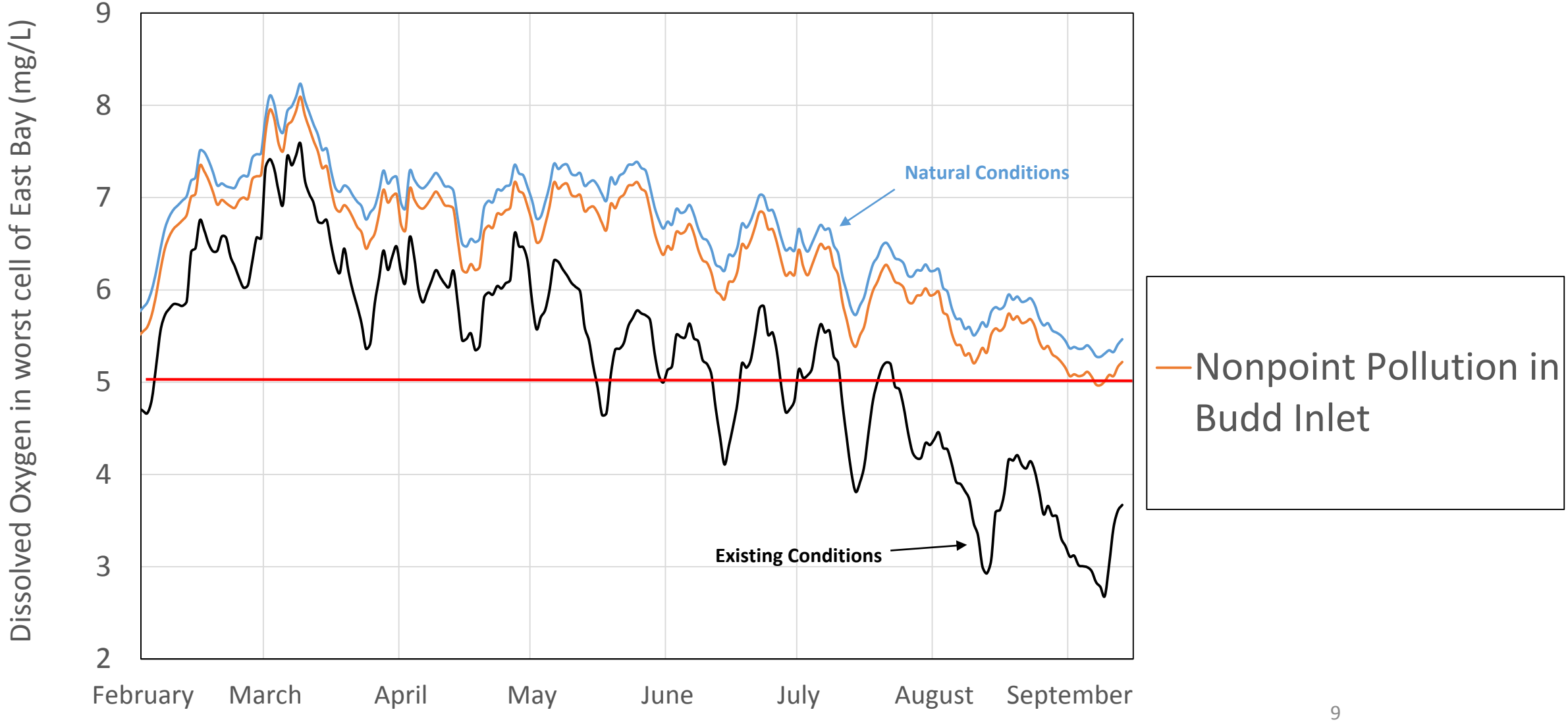
Predicted Dissolved Oxygen Concentrations under Different Scenarios



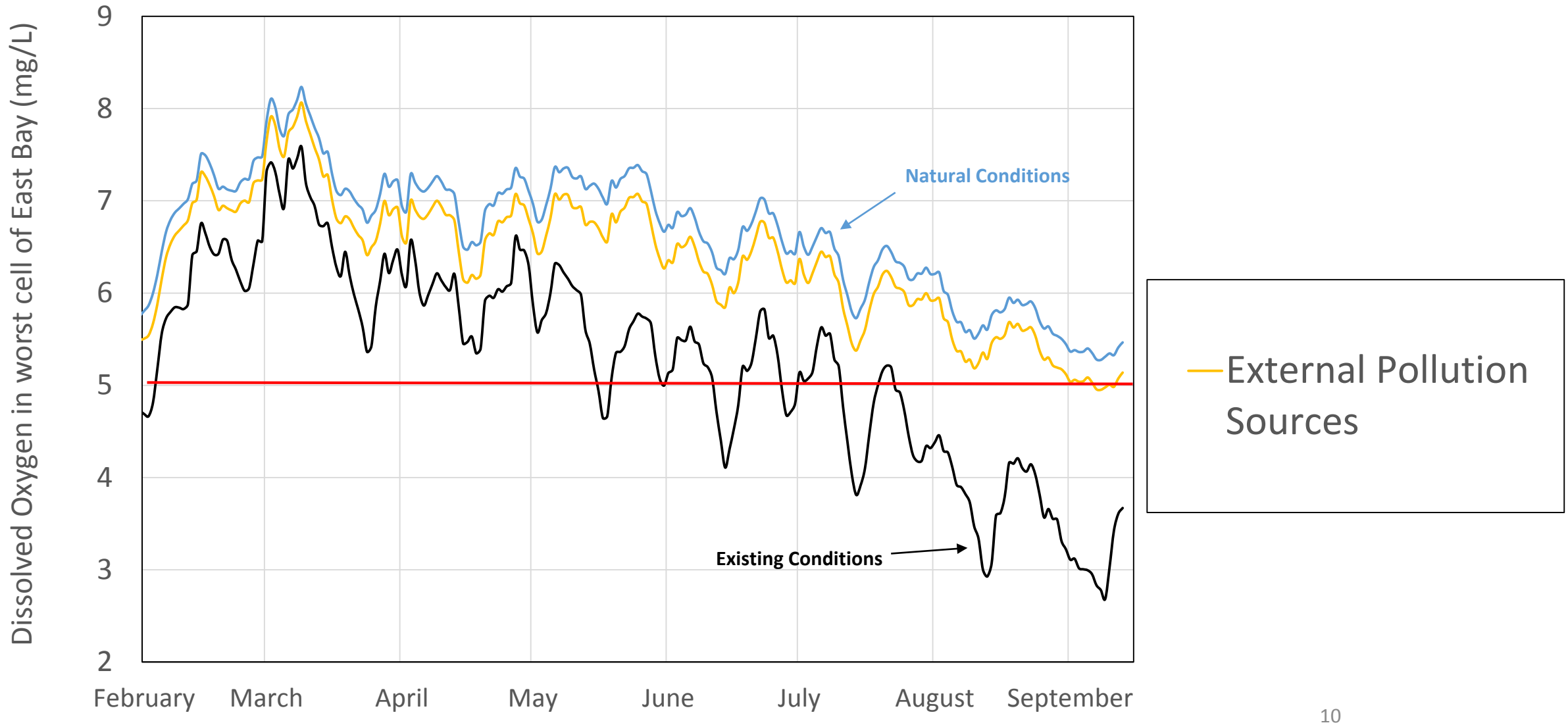
Predicted Dissolved Oxygen Concentrations under Different Scenarios



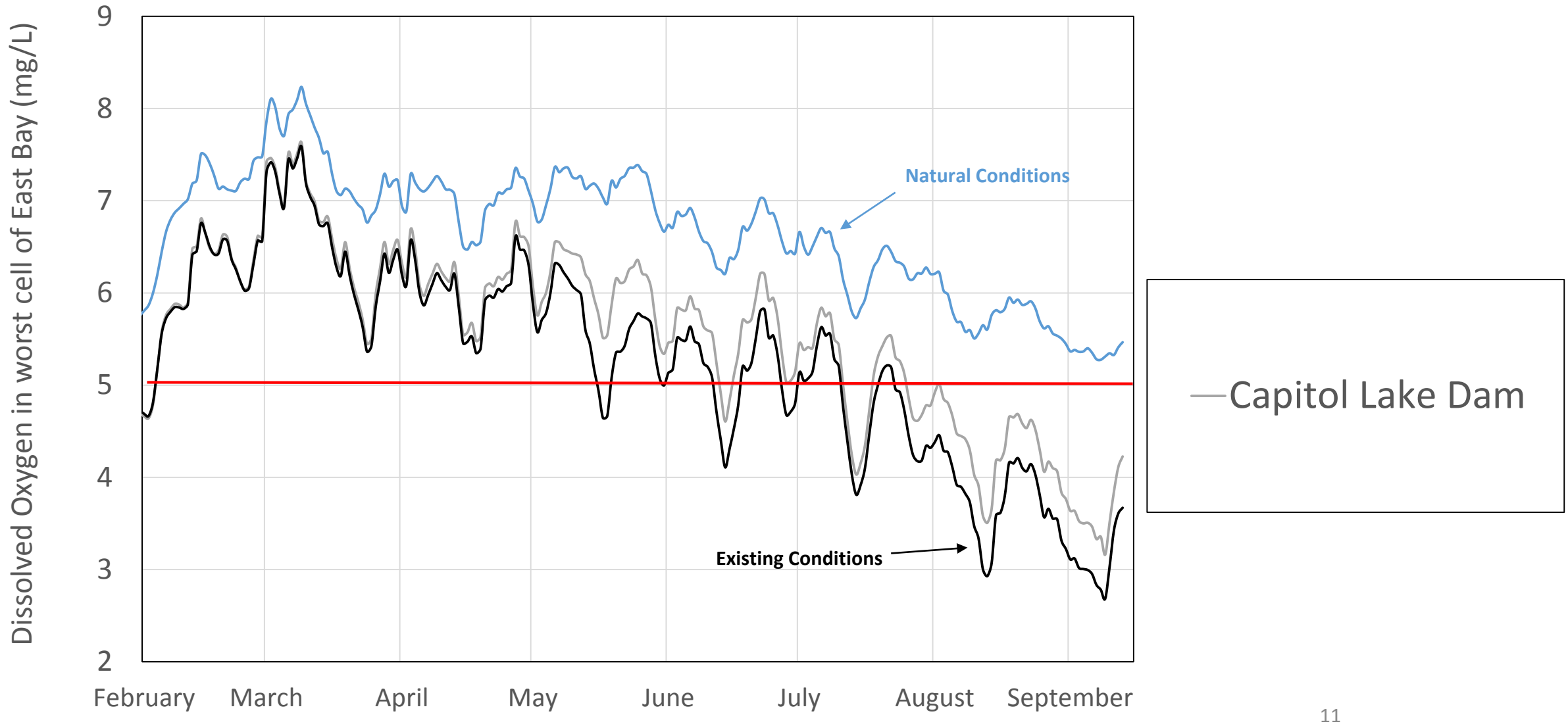
Predicted Dissolved Oxygen Concentrations under Different Scenarios



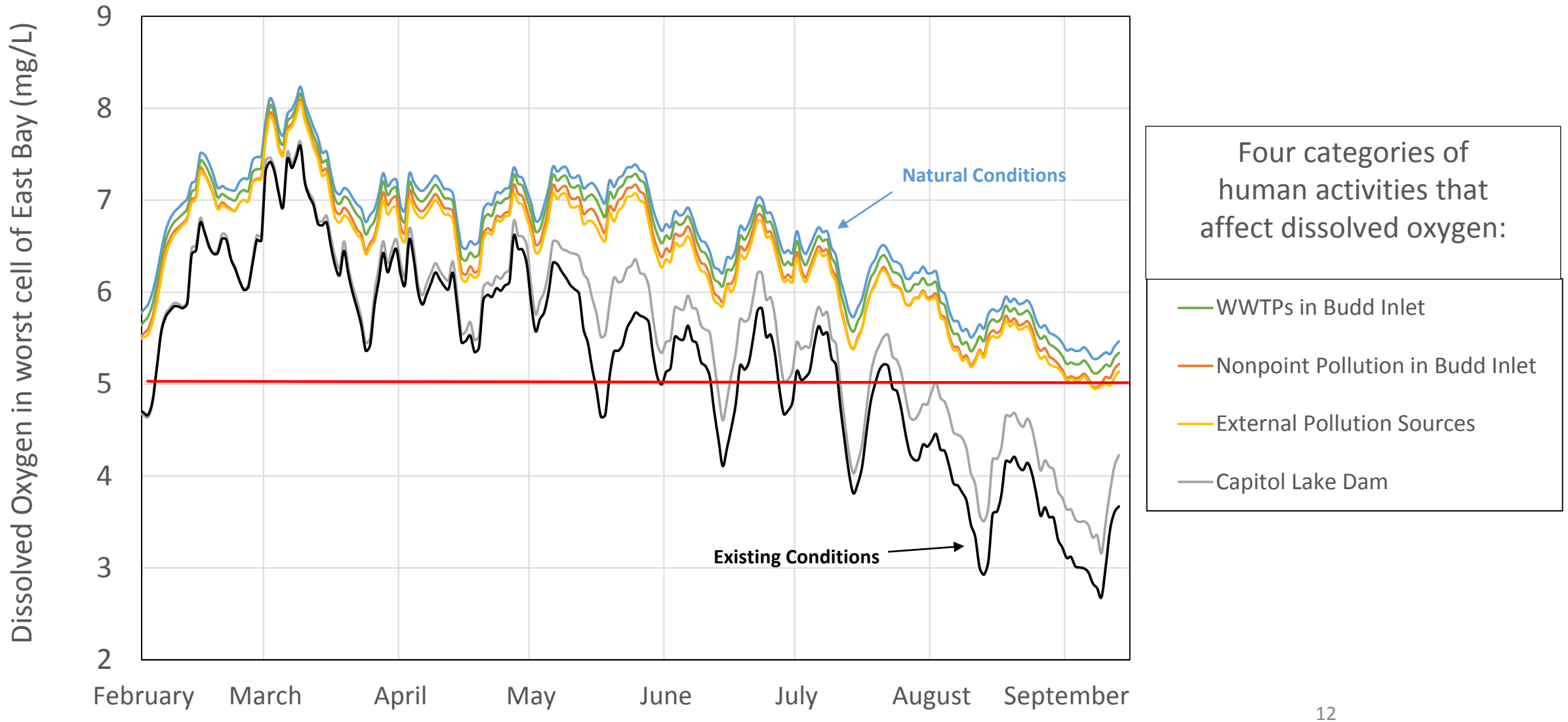
Predicted Dissolved Oxygen Concentrations under Different Scenarios

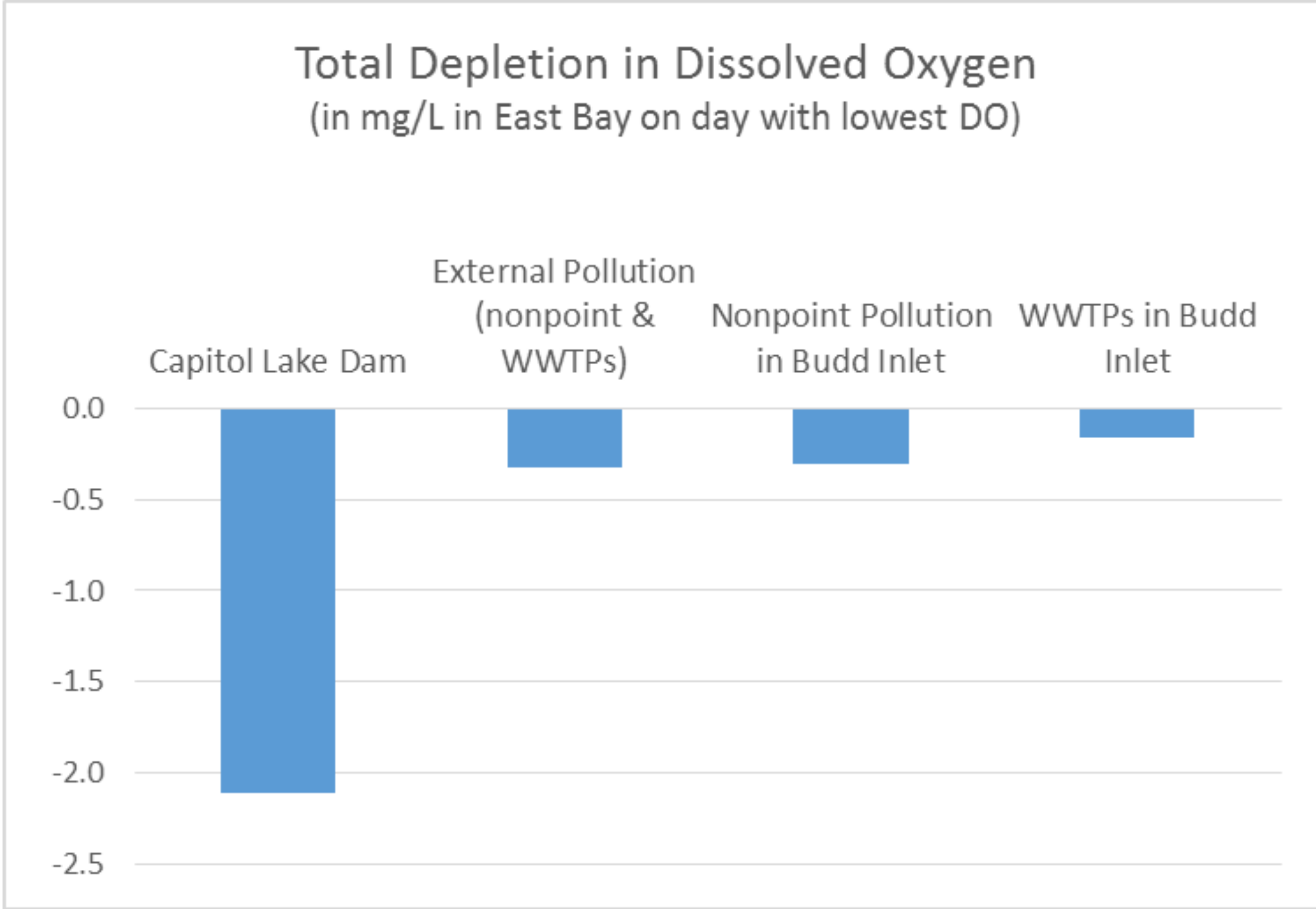


Predicted Dissolved Oxygen Concentrations under Different Scenarios

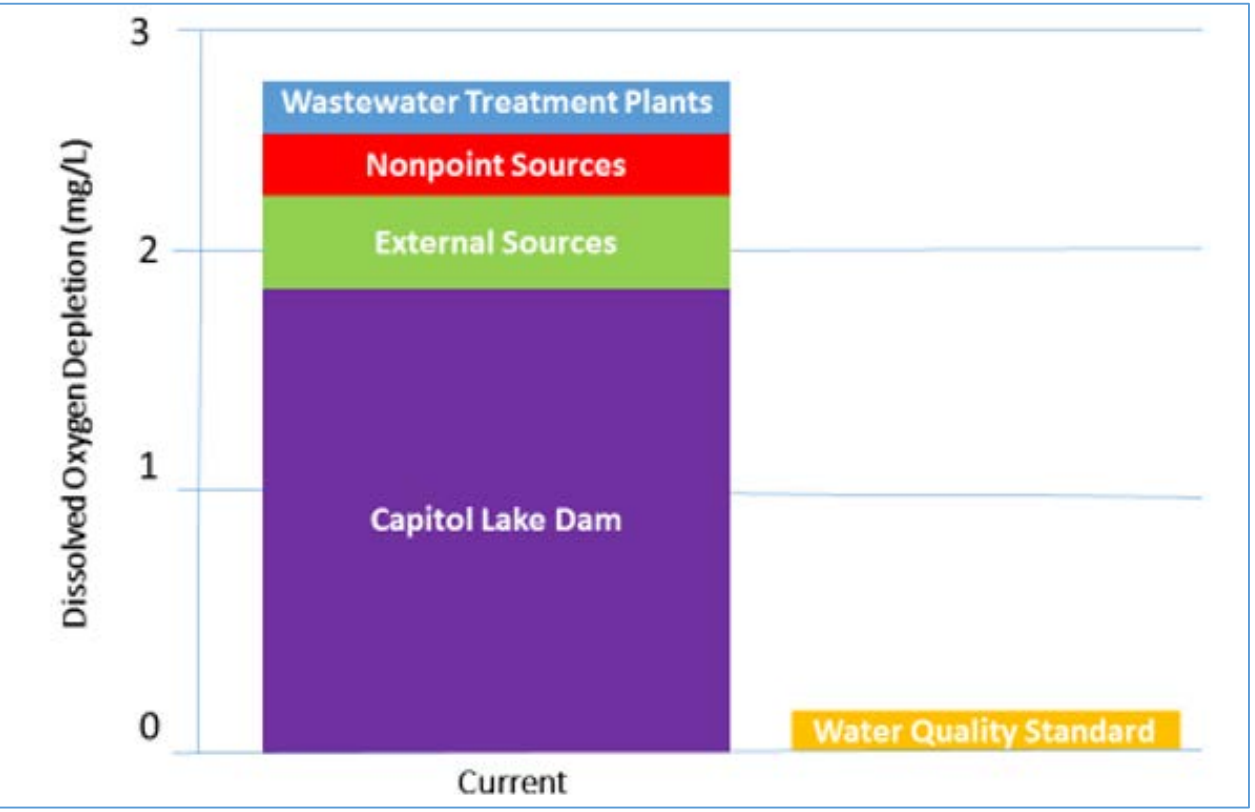


Predicted Dissolved Oxygen Concentrations under Different Scenarios

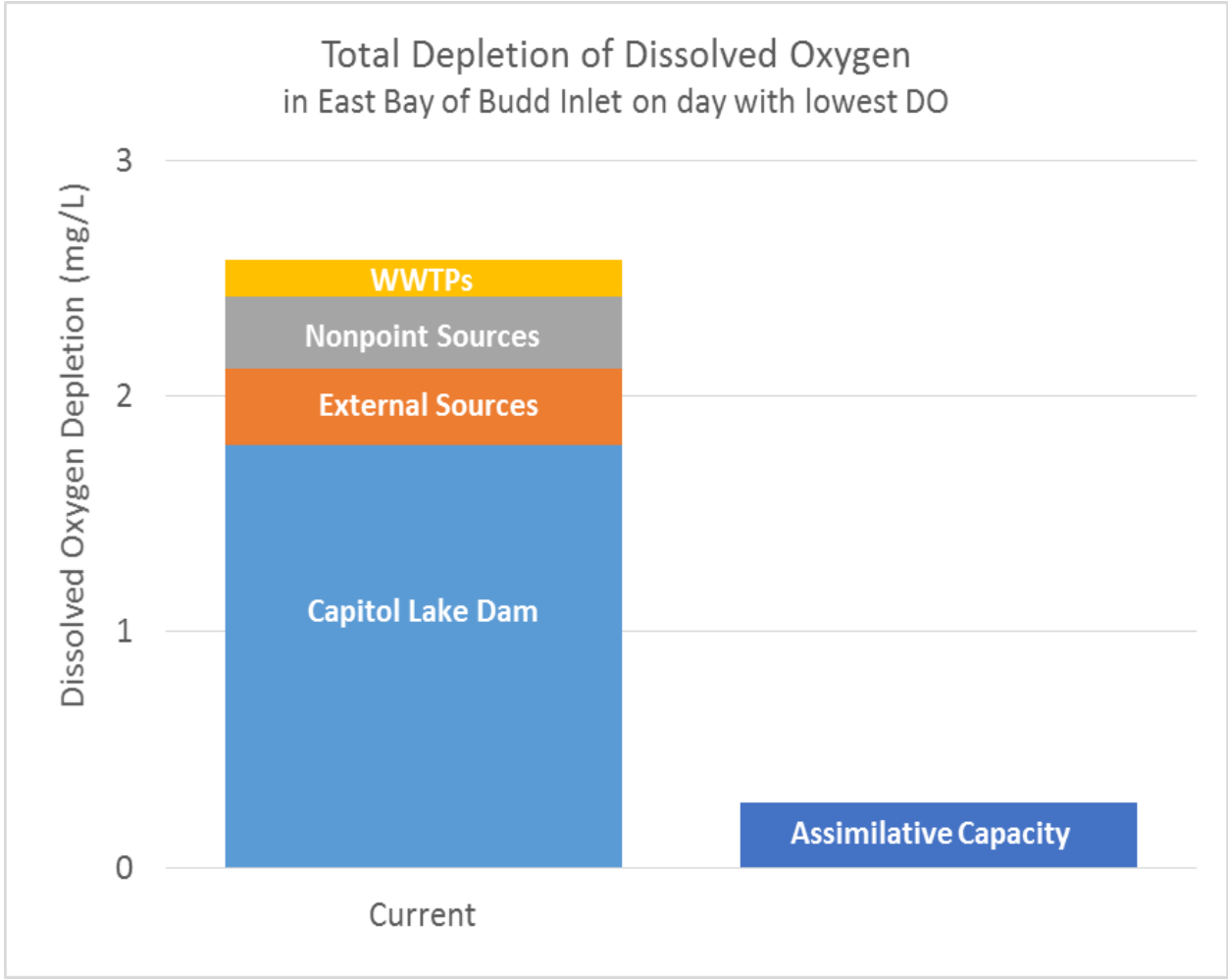



Total Depletion in Dissolved Oxygen
(in mg/L in East Bay on day with lowest DO)
Capitol Lake Dam
External Pollution (nonpoint & WWTPs)
Nonpoint Pollution in Budd Inlet
WWTPs in Budd Inlet
0.0
-0.5
-1.0
-1.5
-2.0
-2.5

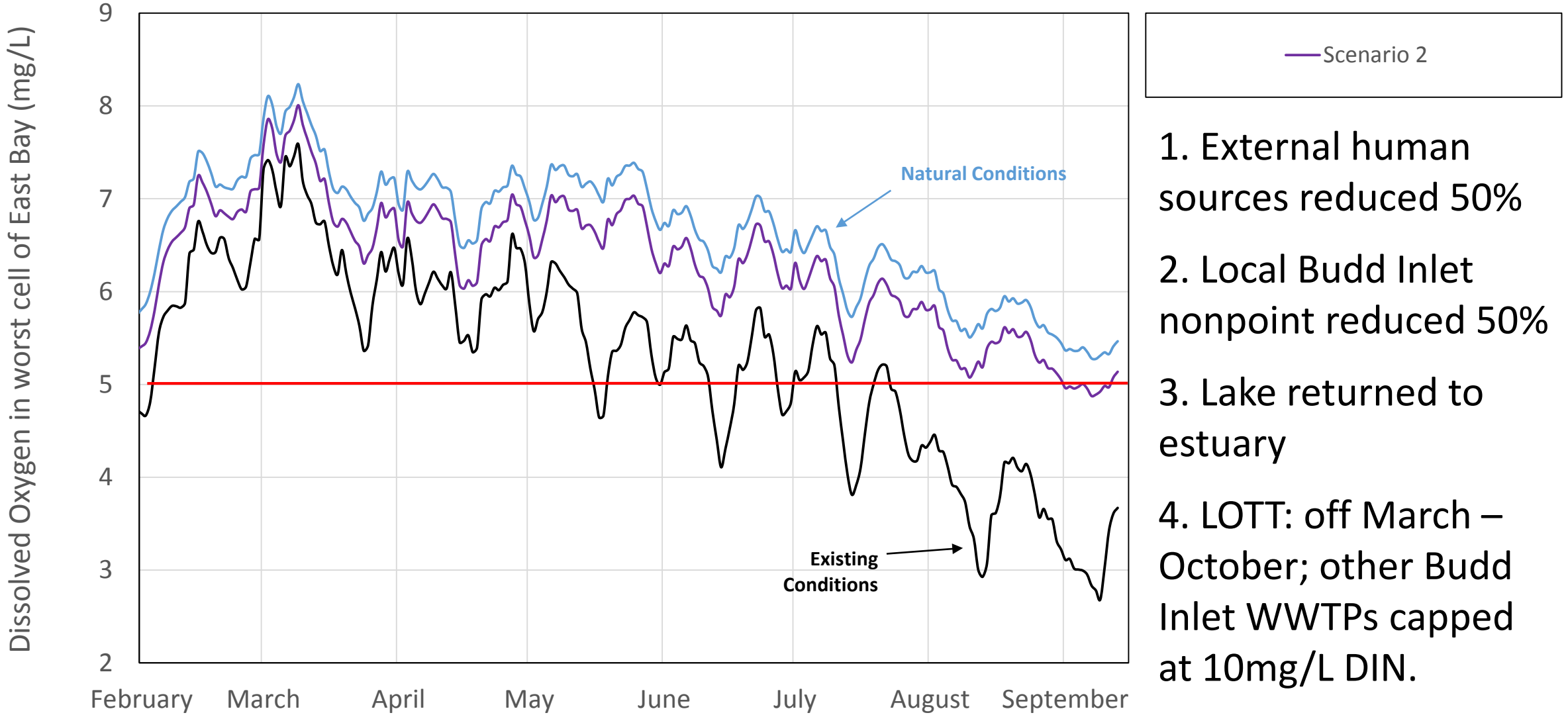
Old Model Runs



Current Model Runs



Predicted Dissolved Oxygen Concentrations under Different Scenarios



1. External human sources reduced 50%
2. Local Budd Inlet nonpoint reduced 50%
3. Lake returned to estuary
4. LOTT: off March – October; other Budd Inlet WWTPs capped at 10mg/L DIN.