Machine Learning Workshop Acronyms

AI Artificial Intelligence
ANN Artificial Neural Network

BPNN Backpropagation neural network

CalSIM California Department of Water Resources' planning and simulation model

CCWD Contra Costa Water District

CDFW California Department of Fish and Wildlife

CNN Convolutional Neural Network

CVP Central Valley Project DCC Delta Cross-Channel

Delta Sacramento-San Joaquin Delta

DL Deep Learning

DSC Delta Stewardship Council
DSM Delta Salinity Modeling
DSM2 Delta Simulation Model II

DWR California Department of Water Resources

DWRSIM Department of Water Resources Simulation Model

EC Electrical Conductivity
El ratio Export/Inflow ratio
FC Fully Connected

G-Model CCWD's salinity-outflow model
GPU Graphics Processing Unit
GRU Gated Recurrent Unit
LSTM Long-Short-Term Memory

MBSG Martinez Boundary Salinity Generator

MDO Minimum Delta Outflow

ML Machine Learning
MLP Multi-Layer Perceptron
MTL Multi-Task Learning
MSE Mean Squared Error

MWD Metropolitan Water District
NSE Nash-Sutcliffe Efficiency
PDE Partial Differential Equation

PINN Physics-Informed Neural Network
Res-GRU Residual Gated Recurrent Unit
Res-LSTM Residual Long Short-Term Memory
Res-RNN Residual Recurrent Neural Network

ResNet Residual Network

RMA Resource Management Associates

RMA19 Resource Management Associates Water Quality Model

RMSE Root Mean Squared Error RNN Recurrent Neural Network RSR Standard Deviation Ratio

SCHISM Semi-implicit Cross-scale Hydroscience Integrated System Model

SCV Water Santa Clarita Valley Water Agency
SMSCG Suisun Marsh Salinity Control Gates

STL Single Task Learning SWP State Water Project

SWRCB State Water Resources Control Board

UC Davis University of California, Davis

USBR United States Bureau of Reclamation
USGS United States Geological Survey
Valley Water Santa Clara Valley Water District

WY Water Year

XAI Explainable Artificial Intelligence