

Acronyms, Abbreviations, and Units of Measurement

Symbol

α	significance level
$\delta^{18}\text{O}$	a stable isotope of oxygen
σ_y	sedimentation coefficient
$^{\circ}\text{C}$	degrees Celsius
ΔAICc	difference in Akaike information criterion
$\mu\text{g/g}$	micrograms per gram
$\mu\text{g/gdw}$	micrograms per gram dry weight
$\mu\text{g/L}$	micrograms per liter
$\mu\text{g/m}^2$	micrograms per square meter
μm	microns
μM	micromoles
$\mu\text{mhos/cm}$	micromhos per centimeter
$\mu\text{S/cm}$	microsiemens per centimeter

Number

^{13}C	carbon isotope
^{15}N	nitrogen isotope
2,4-D	dichlorophenoxyacetic acid
2,4,5-T	trichlorophenoxyacetic acid

A

ac	acres
ac-ft	acre-feet
ac-ft/yr	acre-feet per year
ADV	acoustic Doppler velocimeter
AED	automated external defibrillator
AFWM	annual flow-weighted mean
AICc	Akaike information criterion
AMI-1	Active Marsh Improvement Ridge and Slough Restoration Study
ANOVA	analysis of variance
APP	Avian Protection Plan
Applicant's Handbook	Applicant's Handbook for Water Use Permit Applications within the South Florida Water Management District
ASR	aquifer storage and recovery
AVM	avian vacuolar myelinopathy
AWS	alternative water supply

B

BACI	before-after-control impact
BACIPS	before-after-control impact paired series
BAF	bioaccumulation factor
BAT	best available technology
BBCW	Biscayne Bay Coastal Wetlands
BCB	Big Cypress Basin
BCF_{THg}	bioconcentration factor for total mercury
BCNP	Big Cypress National Preserve
birds/km²	birds per square kilometer
BLM	broadleaf marsh
BMAP	basin management action plan
BMP	best management practice
BOA	box-on-aircraft

C

C	carbon
C&SF Project	Central and Southern Florida Flood Control Project
C-111 SCW Project	C-111 Spreader Canal Phase I (Western) Project
C139B	C-139 Basin Upstream Synoptic Monitoring Project (water quality monitoring project)
Ca	calcium
Ca²⁺	calcium II
CaCO₃	calcium carbonate
CAFO	concentrated animal feeding operation
CAFR	Comprehensive Annual Financial Report
CEPP	Central Everglades Planning Project
CERP	Comprehensive Everglades Restoration Plan
CERPRA	Comprehensive Everglades Restoration Plan Regulation Act
cfs	cubic feet per second
CFWI	Central Florida Water Initiative
CH₄	methane
CHIP	Cattail Habitat Improvement Project
Chla	chlorophyll <i>a</i>
CI	cyanobacteria index
CIP	Five-year Capital Improvement Plan
CISMA	cooperative invasive species management area
Cl, Cl⁻	chloride
cm	centimeters
cm/d	centimeters per day
cm/s	centimeters per second
cm²/s	square centimeters per second
CO	consent order

CO₂	carbon dioxide
Compartment B	Everglades Agricultural Area Compartment B Buildout Project
Compartment C	Everglades Agricultural Area Compartment C Buildout Project
CPI	Cost Performance Index
CPR	cardiopulmonary resuscitation
CPUE	catch per unit effort
CRE	Caloosahatchee River Estuary
CREW	Corkscrew Regional Ecosystem Watershed
CRWPP	Caloosahatchee River Watershed Protection Plan
CSSS	Cape Sable seaside sparrow
CUP	Consumptive Use Permit, Consumptive Use Permitting
CV	coefficient of variance
CY	Calendar Year

D

DAMP	Decomp Adaptive Management Plan
DASM	digital aerial sketchmapping
DBE	DB Environmental, Inc.
DBHYDRO	SFWMD's corporate environmental database
DC	direct current
DCP	Drought Contingency Plan, or more fully <i>South Florida Water Management District Everglades Construction Project Stormwater Treatment Areas Drought Contingency Recommendations and Considerations</i>
DDD	dichlorodiphenyldichloroethane
DDE	dichlorodiphenyldichloroethylene
DDT	dichlorodiphenyltrichloroethane
Decomp	Water Conservation Area 3 Decompartmentalization and Sheet Flow Enhancement – Part 1
DERM	Miami-Dade Department of Environmental Resources Management
DIN	dissolved inorganic nitrogen
Dist.	distribution
District	South Florida Water Management District
DMIT	Data Monitoring and Investigations Team
DMSTA	Dynamic Model for Stormwater Treatment Areas
DO	dissolved oxygen
DOC	dissolved organic carbon
DON	dissolved organic nitrogen
DOP	dissolved organic phosphorus
DPM	Decomp Physical Model
DSP	detailed study plan
DST	dual-use synthetic tracer
ducks/km²	ducks per square kilometer
DWM	dispersed water management

E

EAA	Everglades Agricultural Area
EAA A-1 FEB	Everglades Agricultural Area A-1 Flow Equalization Basin
EAAEPD	Everglades Agricultural Area – Everglades Protection District
EAV	emergent aquatic vegetation
EBWCD	East Beach Water Control District
EC₅₀	effective concentration
ECFM	East Coast Floridan Aquifer System Model
ECFT	East Coast Florida Transient Model
ECISMA	Everglades Cooperative Invasive Species Management Area
ECP	Everglades Construction Project
EDB	emergency detention basin
EDRR	early detection rapid response
EFA	Everglades Forever Act
EFO	emergency final order
EHg3	site-specific, age standardized mercury concentrations estimated for a three-year-old bass
EIRAMP	Everglades Invasive Reptile and Amphibian Monitoring Project
ENP	Everglades National Park
ENR Project	Everglades Nutrient Removal Project
ENSO	El Niño-Southern Oscillation
EPA	Everglades Protection Area
ERP	Environmental Resource Permit, Environmental Resource Permitting
ERTP	Everglades Restoration Transition Plan
ESA	environmental site assessment
ESP	Everglades Stormwater Program
ET	evapotranspiration
ETp	potential evapotranspiration

F

F&W	fish and wildlife (recession lines)
F.A.C.	Florida Administrative Code
F.S.	Florida Statutes
FAV	floating aquatic vegetation
FAVT	floating aquatic vegetation tilling
FAWN	Florida Automated Weather Network
FBISC	Florida Bay Interagency Science Center
FDACS	Florida Department of Agriculture and Consumer Services
FDEP	Florida Department of Environmental Protection
Fe	iron
FEB	flow equalization basin
FEIM	Florida Everglades Improvement and Management
FEMA	Federal Emergency Management Agency

FeS	mackinawite
FeS₂	pyrite
Fe₃S₂	greigite
FF/SOR	Florida Forever/Save Our Rivers
FFWP	Florida Forever Work Plan
FHAP	South Florida Fish Habitat Assessment Program
FLEPPC	Florida Exotic Pest Plant Council
FLUCCS	Florida Land Use Cover, Land Forms Classification System
FPDA	Frog Pond Detention Area
FPL	Florida Power & Light
FRESP	Florida Ranchlands Environmental Services Pilot
ft	feet
ft³	cubic feet
FTE	full-time equivalent
FWC	Florida Fish and Wildlife Conservation Commission
FWM	flow-weighted mean
FWMC	flow-weighted mean concentration

G

G-160 Project	C-18 Canal Constrol Structure Project
G-161 Project	G-161 Water Control Structure Phase II Project
g/m²	grams per square meter
g/m²/d	grams per square meter per day
g/m²/yr	grams per square meter per year
g/m³	grams per cubic meter
g/yr	grams per year
GAAPS	generally accepted accounting principles
GAM	generalized additive modeling
GIS	geographic information systems
GPP	gross primary production
GPS	global positioning system
GRS	Gordy Road Structure

H

ha	hectare
Hg	mercury
Hg²⁺	inorganic mercury
HH	head (Tree Island Study)
HLR	hydraulic loading rate
HME	hydrologic model emulator
HRP	Headwaters Revitalization Project
HRS	Headwaters Revitalization Schedule

HRT	hydraulic retention time
HSPF	Hydrologic Simulation Program – Fortran
HWTT	hybrid wetland treatment technology

I

IA Program	Implementation Assurance Program
ICd	impact and control means
ID	identification
IFAS	Institute of Food and Agricultural Sciences
IMU	inertial measurement unit
IOC	Interim Outlet Canal
IOP	Interim Operational Plan
ISA	indicator species analysis
IT	Information Technology Bureau
ITDD	Indian Trace Development District
ITID	Indian Trail Improvement District

K

k	total phosphorus settling rate
K, K⁺	potassium
kac-ft	one thousand acre-feet
KCH	Kissimmee-Cypress-Hatchineha
KCOL	Kissimmee Chain of Lakes
kg	kilograms
kg Hg/yr	kilograms mercury per year
kg/acre	kilograms per acre
kg/ha	kilograms per hectare
kg/yr	kilograms per year
KHz	kilohertz
km	kilometers
km²	square kilometers
KREA	Kissimmee River Eutrophication Abatement (water quality monitoring project)
KRREP	Kissimmee River Restoration Evaluation Program
KRRP	Kissimmee River Restoration Project

L

L-31E	L-31 East
lbs/acre	pounds per acre
lbs/yr	pounds per year
LC₅₀	lethal concentration
LEC	Lower East Coast
LiDAR	light detection and radar

LILA	Loxahatchee Impoundment Landscape Assessment
LKB	Lower Kissimmee Basin
LMB	largemouth bass
LNWR	Arthur R. Marshall Loxahatchee National Wildlife Refuge
Long-Term Plan	<i>Long-Term Plan for Achieving Water Quality Goals in the Everglades Protection Area</i>
LOP2TP	Lake Okeechobee Phase II Technical Plan
LOPA	Lake Okeechobee Protection Act
LORS2008	Lake Okeechobee Regulation Schedule 2008
LOS	level of service
LOW	Lake Okeechobee Watershed
LOWA	Lake Okeechobee Watershed Assessment (water quality monitoring project)
LOWCP	Lake Okeechobee Watershed Construction Projects
LOWPP	Lake Okeechobee Watershed Protection Plan
LRSTA	Lakeside Ranch Stormwater Treatment Area
LTFWM	long-term flow-weighted mean
LWC	Lower West Coast
LWCSIM	Lower West Coast Surficial/Intermediate Aquifer System Model
LWDD	Lake Worth Drainage District

M

m	meters
m²	square meters
m³	cubic meters
m³/yr	cubic meters per year
max	maximum
MDL	method detection limit
MDN	Mercury Deposition Network
MeHg	methylmercury
MERIS	Medium Resolution Imaging Spectrometer
MFL	minimum flows and levels
mg	milligrams
mg CaCO₃/L	milligrams calcium carbonate per liter
mg/cm²/d	milligrams per square centimeter per day
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
mg/m²/yr	milligrams per square meter per year
MGD	million gallons per day
MGY	million gallons per year
Miami-Dade DERM	Miami-Dade Department of Environmental Resources Management
MIL	mobile irrigation lab
min	minimum
mL	milliliters

mm	millimeters
mm²	square millimeters
mm³/s	cubic millimeters per second
mm/yr	millimeter per year
mmol/kg	millimole per kilogram
MODIS	moderate resolution imaging spectroradiometer
MOU	memorandum of understanding
MR	marsh (Tree Island Study)
mS/m	microsiemens per meter
MS4	municipal separate storm sewer system
mt	metric tons
mt/yr	metric tons per year
MWD	Modified Water Deliveries to Everglades National Park

N

n	sample size
N	nitrogen
NADP	National Atmospheric Deposition Program
NAVD88	North American Vertical Datum of 1988
NBO	North Buildout
NCCOS	National Centers for Coastal Ocean Science
NE-PES	Northern Everglades Payment for Environmental Services
NE-PES-1	Northern Everglades Payment for Environmental Services Solicitation 1
NE-PES-2	Northern Everglades Payment for Environmental Services Solicitation 2
NE-PPP	Northern Everglades Public-Private Partnership
NEEPA	Northern Everglades and Estuaries Protection Act
NEEPP	Northern Everglades and Estuaries Protection Program
NESS	Northeast Shark Slough
NEWS	Northern Everglades Water Storage
NEXRAD	next generation radar
ng	nanograms
ng/g	nanograms per gram
ng/L	nanograms per liter
NGVD29	National Geodetic Vertical Datum of 1929
NH₄	ammonium
NLP	Nutrient Load Program
nm	nanometers
NNR	North New River
NOAA	National Oceanic and Atmospheric Administration
NOB	no bottle sample
NOI	notice of intent
Non-ECF	Non-Everglades Construction Project
NO_x	nitrate + nitrite

NPDES	National Pollution Discharge Elimination System
NPS	National Park Service
NSID	North Springs Improvement District
NSM	Natural Systems Model
NT	near tail (Tree Island Study)
NTU	nephelometric turbidity units
NWSTA	natural water storage and treatment area

O

OAWP	Office of Agricultural Water Policy
OGC	Office of General Counsel
OKUSGS	Water quality project containing sites formerly part of the Loake Okeechobee Tributarie Loading Project
OLCI	Ocean Land Colour Instrument
OMC	Operations, Maintenance and Construction Bureau
ONR	online with restrictions
OP	orthophosphate
OSHA	Occupational Safety and Health Administration
OU	operating unit
oysters/m²	oysters per square meter

P

p	probability
P	phosphorus
P2000	Preservation 2000
PAR	photosynthetically active radiation
pCi/L	picocuries per liter
PIE	Parks Inflow East
PIN	Parks Inflows North
PIR	project implementation report
PIT	passive integrated transponder
PLC	programmable logic controller
PLR	phosphorus loading rate
POR	period of record
PP	particulate phosphorus
ppb	parts per billion
ppm	parts per million
PQL	practical quantitation limit
Priority List	Priority List and Schedule identifying surface and ground water bodies for which minimum flows and levels and water reservations will be developed or reevaluated
Protocol	The Protocol for Monitoring Mercury and Other Toxicants
PSTA	Periphyton-Based Stormwater Treatment Area

PTWCD	Pine Tree Water Control District (a.k.a. Rustic Ranches)
PVC	polyvinyl chloride
PWM	precipitation-weighted mean

Q

q25	25 th percentile
q75	75 th percentile
QA	quality assurance
QATI	Quality Assurance Team investigation
QC	quality control

R

RAA	restricted allocation area
RAS	regulatory action strategy
RECOVER	Restoration Coordination and Verification Program
Refuge	Arthur R. Marshall Loxahatchee National Wildlife Refuge
REMAP	Regional Environmental Monitoring and Assessment Program
Restoration Strategies	Restoration Strategies for Clean Water for the Everglades
rFAV	routed floating aquatic vegetation
RPA	remote phosphorus analyzer
RSM	Regional Simulation Model
RWMA	Rotenberger Wildlife Management Area
RWPP	river watershed protection plan
RWQMP	Research and Water Quality Monitoring Program
RWSP	regional water supply plan

S

S	sulfur
S²	sulfide
S²⁻	sulfide
SAP	financial software utilized by the South Florida Water Management District
SAV	submerged aquatic vegetation
SBDD	South Borward Drainage District
SBO	South Buildout
SCADA	supervisory control and data acquisition
Science Plan	Science Plan for the Everglades Stormwater Treatment Areas
SD	standard deviation
SE	standard error
SEACOM	Florida Bay Seagrass Community Model
SERC	statement of estimated regulatory cost
SFER	South Florida Environmental Report
SET	sediment erosion table

SFCN	South Florida/Carribbean Network (National Park Service)
SFERTF	South Florida Ecosystem Restoration Task Force
SFWDAT	South Florida Water Depth Assessment Tool
SFWMD	South Florida Water Management District
SI	International System of Units
SIRL	Southern Indian River Lagoon
SJRWMD	St. Johns River Water Management District
SLE	St. Lucie Estuary
SLRW	St. Lucie River Watershed
SLRWPP	St. Lucie River Watershed Protection Plan
SMA	(8.5) Square Mile Area
SO₄²⁻	sulfate
SOETF	Save Our Everglades Trust Fund
SOP	standard operating procedure
SOW	statement of work
spat/shell/month	spat per shell per month
SPI	Schedule Performance Index
SPSC	soil phosphorus storage capacity
SQG	sediment quality guidelines
SR	Shark River
SRB	sulfate-reducing bacteria
SRP	soluble reactive phosphorus
SS	Shark Slough
SSAC	site-specific alternative criterion
SSC	suspended sediment concentrations
SST	sea surface temperature
STA	stormwater treatment area
STA-1E	Stormwater Treatment Area 1 East
STA-1W	Stormwater Treatment Area 1 West
STORET	Storage and Retrieval Database
SWF CISMA	Southwest Florida Cooperative Invasive Species Management Area
SWFWMD	Southwest Florida Water Management District

T

t	metric ton
t/yr	metric ton per year
TBD	to be determined
TC	total carbon
TC-CISMA	Treasure Coast Cooperative Invasive Species Management Area
TC-STA	Taylor Creek Stormwater Treatment Area
TCa	total calcium
TCNS	Taylor Creek/Nubbins Slough (water quality monitoring project)
TDN	total dissolved nitrogen

TDP	total dissolved phosphorous
Technical Representatives	Representatives designated by the Florida Department of Environmental Protection and the United States Environmental Protection Agency to lend technical assistance to the development of the <i>Science Plan for the Everglades Stormwater Treatment Areas</i>
TEL	threshold effect level
THg	total mercury
TIF	tagged image file
TKN	total Kjeldahl nitrogen
TL	total length
TL3	trophic level 3
TL4	trophic level 4
TMDL	total maximum daily load
TOC	total organic carbon
TOS	total oxidizable sulfur
TN	total nitrogen
TP	total phosphorus
TS	total sulfur
TSS	total suspended solids
TUK	Tributaries to the Upper Kissimmee (water quality monitoring project)
TVDLF	Total Variation Diminishing Lax-Friedrich (a version of the Regional Simulation Model)

U

UAL	unit area load
UEC	Upper East Coast
UF	University of Florida
UKB	Upper Kissimmee Basin
USACE	United States Army Corps of Engineers
USDA	United States Department of Agriculture
USDA-ARS	United States Department of Agriculture, Agricultural Research Service
USDA-NRCS	United States Department of Agriculture Natural Resources Conservation Service
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey

V

VOW	Village of Wellington
------------	-----------------------

W

WAM	Watershed Assessment Model
WaSH	a watershed model

WaSUP	Water Supply Utilities Project Database
WaterSIP	Water Savings Incentive Program
WCA	water conservation area
WDAT	Water Depth Assessment Tool
WEPAL	Wageningen Evaluation Programmes for Analytical Laboratories
WF-PES	Water Farming Payment for Environmental Services
WH	wet head (Tree Island Study)
WMA	wildlife management area
WOD	Works of the District
WPP	watershed protection program
WQBEL	water quality based effluent limit
WQIP	water quality improvement plan
WRA	water resource area
WRP	Wetland Reserve Program
WY	Water Year (for the District, May 1 through April 30)