

SFWMD Real Time Data

Glossary for Report Data Fields

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| air temperature | Degrees Celsius |
| Adjustable Weir | A weir is (a) A low dam built across a stream to raise the upstream water level (fixed-crest weir when uncontrolled); (b) A structure built across a stream or channel for the purpose of |
| artesian well pressure | Pounds per Square inch (psi) |
| atmospheric pressure | Millimeters of Mercury (mm) |
| Atmospheric Sampling | Ground based sampling point for meteorological data collection of atmospheric information. |
| average wind direction | degrees |
| average wind speed | Miles per hour (mph) |
| battery voltage | volts |
| Borehole | The generalized term for any narrow shaft drilled in the ground, either vertically or horizontally. |
| conductivity | millimho (mmho) |
| crest elevation | Feet (ft) |
| Culvert | Conveyance structure that provides a means for water to pass under a road or railroad. |
| cycles | Count |
| discharge | Cubic feet per second (ft ³ -s-1) |
| dissolved oxygen | Millimoles O ₂ per liter (mmol/L) |
| dissolved oxygen charge | Millimoles O ₂ per liter (mmol/L) |
| dissolved oxygen saturation | Millimoles O ₂ per liter (mmol/L) |
| distance to crest | Feet (ft) |
| Downside Sampler | A water quality sampling device downstream of a structure. |
| Downstream | The site downstream of the junction |

Glossary (cont.)

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| evaporation | Inches (in) |
| Gate | A device in which a leaf or member is moved across the waterway from an external position to control or stop flow. There are many different kinds of gates used on a dam. Some of the more common types are bulkhead, crest (or spillway), emergency, fixed wheel, flap, flood, guard, outlet, radial, regulating, and slide gates. |
| gate opening | State = Open, Closed |
| Ground Water | The supply of fresh water found beneath the Earth's surface, usually in aquifers, which supply wells and springs. |
| hydraulic head | Feet (ft) |
| line velocity | Feet per Second |
| Lock | A particular type of device for raising or lowering boats between stretches of water at different levels. |
| ph | pH indicator |
| point velocity | Feet per Second |
| pump hours meter | hours |
| pump speed | RPM, Revolutions per minute |
| pump speed geared | Revolutions per minute |
| Pump | A device for inducing flow |
| Pump Motor | A motor used to run a pump |
| Pump Station | Mechanical device installed in sewer or water system or other liquid-carrying pipelines to move the liquids to a higher level. |
| rainfall accumulation | Inches (in) |
| rainfall difference | Inches (in) |
| rainfall level | Inches (in) |
| Rainfall Sampling | Rainfall sampled at site |
| relative humidity | Percent (%) |

Glossary (cont.)

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|-----------------------------|---|
| salinity | Practical Salinity Units (psu) |
| sample flow | Cubic feet (ft ³) |
| sample pump | State = Off or Pumping |
| soil temperature | Degrees Celsius |
| solar radiation net | kiloWatts per square-meter (kW·m ⁻²) |
| solar radiation photoactive | microMoles seconds-squared per meter-squared (uM·s ² ·m ⁻²) |
| solar radiation total | kiloWatts per square-meter (kW·m ⁻²) |
| Solar Sampling | Solar sampling site for meteorological data |
| specific conductance | micro Siemens per centimeter (μS/cm) |
| speed of sound | Miles per hour (mph) |
| Spillway | A structure over or through which excess or flood flows are discharged. If gates control the flow, it is a controlled spillway, if the elevation of the spillway crest is the only control, it is an uncontrolled spillway. |
| stage | Feet (ft) |
| stage-average | Feet (ft) |
| Surface Water | Water that is visible over the Earth's surface. |
| Surface water Temperature | Celsius |
| Upside Sampler | A water quality sampling device upstream of structure. |
| Upstream (headwater) | The site upstream of the junction |
| UVM | An "Ultrasonic Velocity Meter" used to measure the velocity of a liquid or gas using acoustic sensors. |
| Wet Well Bay | An intake bay used for one or more pumps at a structure. |
| wind gust | Miles per hour (mph) |
| wind speed | Miles per hour (mph) |
| wind vector direction | Degrees |
| wind vector magnitude | Miles per hour (mph) |
| X-velocity | Meters per second (m·s ⁻¹) |
| Y-velocity | Meters per second (m·s ⁻¹) |
| Z-velocity | Meters per second (m·s ⁻¹) |

Source Column

The data measurement can be provided by an automated sensor or manually read. The source information below provides information on the data provided in the source column.

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| ARDAMS | “Automatic Remote Data Acquisition and Monitoring Systems” |
| DOMSAT | DOMSAT is a collection of telecommunication satellites operated by GE/RCA used by NOAA to transmit DMSP, Meteosat, and TIROS data. |
| CALC | Calculated data entry |
| LOGGERNET | LoggerNet is computer software for Campbell Scientific dataloggers. It supports programming, communications, and data retrieval between Campbell Scientific dataloggers and a PC. |
| MANUAL | Manually recorded data entry |
| MOSCAD | The MOSCAD Remote Terminal Unit (RTU), by Motorola, provides a data collection and processing unit with the intelligence required to operate in sophisticated Supervisory Control and Data Acquisition (SCADA) systems. Communications via two-way radio, digital microwave radio, and wirelines is supported. |
| RACU | “Remote Acquisition Control Unit” |
| SCADA-CALC | SCADA is the acronym for Supervisory Control and Data Acquisition. The term refers to a large-scale, distributed measurement (and control) system. SCADA systems are used to monitor or to control chemical or transport processes, in municipal water supply systems, to control electric power generation, transmission and distribution, gas and oil pipelines, and other distributed processes. |
| SUTRON | Vendor—“Since 1975 Sutron Corporation has provided Hydrologic, Meteorologic and Oceanic Real-Time Data Collection and Control Products, System, Software, Services and over 40,000 Station to collect, store, transmit and/or host real-time data from extreme, remote sites to Pocket, Desktop, or Laptop PCs anywhere on the planet.” |