

Changes go into effect 1/1/2011

SWQM Procedures Manual Interim Change Summary—10/01/2010

Chapter	Page	Section	Date	Change	Reason
<i>Interim Change Documents</i>					
8	8-27	Hydrolab Calibration Log	04/03/09 (01-2009_V1)	The Hydrolab calibration log sheet updated to accommodate temperature sensor checks, track post-calibration checks, and optical sensor calibration. Revised content of calibration logbook.	Update calibration log sheet and provided a revised calibration logbook.
8	8-26	YSI Calibration Log	04/03/09 (02-2009_V1)	The YSI calibration log sheet updated to accommodate temperature sensor checks, track post-calibration checks, and optical sensor calibration. Revised content of calibration logbook.	Update calibration log sheet and provided a revised calibration logbook.
8	8-6	Hydrolab LDO Sensor Air Saturated Water Calibration	04/03/09 (03-2009_V1)	Adds a second calibration method for the optical DO sensor.	Omitted in the latest revision of the manual.
4	—	Bacteriological Sample Collection and Shipping	05/15/09 (04-2009_V1)	Bacteriological sample collection and shipping requirements for the TCEQ field staff using the Houston Lab	Changes related to NELAC requirements
4	All	Collecting and Analyzing Bacteriological Samples	06/04/10 (01-2010_V1)	Removed references concerning the analysis of samples but retained counting rules which are program specific	Revised chapter to accommodate new NELAC requirements
5	5-5 & 5-11	Metals-in-Water Samples	06/04/10 (02-2010_V1)	Adds a new table summarizing the components of a clean metals-in-water kit. Revised QC sample collection	Revised metals-in-water “Sampling Equipment” and “Collecting QC Sample” sections for clarification
7	All	Collecting Tissue Samples	06/04/2010 (03-2010_V1)	Refines sampling requirements for background conditions, long-term trends, ecosystem health, and human-health risk.	For clarification and updating. Small revisions throughout chapter; not major revisions.
<i>Minor Changes and Additions</i>					
3	3-6	24-Hour Average Dissolved Oxygen	30/05/10	24-Hour Average Dissolved Oxygen Sampling for Compliance with Standards for the Aquatic-Life Use Parameter Codes 89857 and 89855	Removed “Average” from the section head and added the parameter code for 24-hour DO minimum since both the average and minimum are used for standards compliance.
3	3-7	24-Hour Average Dissolved Oxygen—Frequency of Measurements	03/01/10	The preferred measurement interval is no more than once per 15 minutes, and no less than once per hour. (Thus, the minimum total number of measurements over a 24-hour period is 25.) See “Acclimating to Ambient Condition” on page 3-8 for additional information.	The first measurement is at zero hour. Zero hour allows time for stabilization.

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3	3-11	Salinity	03/01/10	Report values less than 2.0 ppt as "< 2.0 ppt" rather than the actual value.	Original text mentions less 1.0 ppt. The program minimum is 2. Anything < 2 is meaningless. All references to 1.0 ppt were removed.
3	3-13	Days Since Significant Precipitation	03/05/10	To understand and regulate the adverse effects of runoff..., using days since last significant precipitation. This observation can also be used to indicate periods of insufficient rainfall and long-term drought.	Added to allow broader use of this parameter.
3	3-14	Days Since Significant Precipitation	03/05/10	2 nd bullet; ■ If it has been a long time since a significant rain, record this as greater than that particular value either the actual number of days, if known, or a greater than value—for example, > 7 60 days.	Changed to allow broader use of this parameter.
3	3-14	Table 3.1 Final Format for Reporting Field Data Specific conductance	03/08/10	Report specific conductance to only three significant figures if the value exceeds 100—for example: 1532 to 1530. Do not report ORP, which is displayed by some multiprobe instruments. For values < 100 µS/cm follow standard rounding rules and report the nearest whole number. For example, 88.7 is reported as 89 µS/cm.	Added for clarification on values < 100.
3	3-14	Table 3.1 Final Format for Reporting Field Data Days since last precipitation	03/08/10	Report whole numbers. If it is raining when the sample is collected, or has rained within the last 24 hours, report the value as <1. If it has been over a week since a rainfall event, report a value of >7. Otherwise report the actual number, if known, or a greater than value.	Changed to allow broader use of this parameter.
5	5-2	Collecting Water-Chemistry Samples— Sample Container and Volume	03/01/10	Sample containers should be new, unused, clean polyethylene or glass jars. Do not pre-rinse sample containers with site water. Prior to sample collection, collectors may rinse the container three times with ambient water and discard water away from sample location. A small amount of water (about a quarter of the container) collected at the sample depth is sufficient. However, new, unused containers or those cleaned in a laboratory may be used without rinsing. You must remain consistent with whichever method is chosen.	Rinsing containers with ambient water prior to sample collection is the preferred method.
5	5-4	Container Label	03/01/10	Label each container with enough information to allow the lab to associate the sample with the request for analysis tag or chain of custody; key sample information includes identifiers such as Station ID#, Sample Tag ID#, preservative, sample date, and station descriptions. For example, information may include the station description, station number, date of collection,	Changed for clarification

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				and preservation method (when acid is added).	
5	5-7	Clean Hands/Dirty Hands Sampling	10/01/2010	If two people are not available, metals-in-water samples may be collected by an individual. This may be achieved by changing gloves when switching between CH and DH tasks.	Added back
5	5-15	Table 5.1—Quick Reference Guide Water Sample Collection	10/01/2010	Nitrate + Nitrite; “General Holding Time” column, 48 hours 28 days	Corrected
5	5-16	Table 5.1—Procedures for Collecting Routine Water-Chemistry Samples	03/01/10	Delete— Do not prerinse sample containers; Add—If the containers are new and unused or cleaned in a laboratory rinsing with ambient water is not required. However, containers may be rinsed the container three times with ambient water and discard water away from sample location.	Added the preferred method.
5	5-17	Table 5.1—Metals in Water-Hardness	03/10/10	Parameter column; Hardness (Total) Laboratory analysis can be run on sample from the dissolved- total-metals containers; a separate sample is not necessary	Added for clarification
5	5-17	Table 5.1—Metals in Water-Hardness Preservation	03/10/10	Total— Cool to < 6° but not frozen; dark OR Dissolved— filtered. Add 1-2 mL of HNO3 to pH < 2; cool to < 6° but not frozen, dark Preserve in field. This is required only if submitting a separate sample.	Changed for clarification
6	6-3	General Collection Procedure	03/01/10	Note: Even if the volume of one dredge grab is sufficient to fill the required sample containers, a minimum of three separate dredge grabs are required for all sediment samples. This is required to get a representative sample for an area, rather than a single location.	Added for clarification
8	8-13	Absolute Barometric Pressure	03/15/10	1 st box, top of page; Example: A BP reading of 29.50 in mm Hg inches; corrected to sea level, at an altitude of 650 feet above sea level...	Corrected error
8	8-16	Post-Calibration Error Limits	9/10/2010	Added to Table 8.2; ± 0.2 °C (schedule factory calibration); ±0.5 °C (flag data)	Added to match information provided in the text on page 8-3

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8	8-22	YSI Multiprobes	3/15/10	The following schedule for minimum maintenance is mandatory, regardless of the use that the instruments get. Record maintenance information on the calibration log sheet. This schedule had been developed from the record of instrument performance and in consultation with the manufacturer.	Added for clarification
8	8-22	DO Probe	3/15/10	Add under DO Probe header— Every six months or once every 15 field trips	Added missing information
8	8-23	Optical DO Probe	3/15/10	Add new subheading Optical DO Probe—Inspect every six months or once every 15 field trips. There are two issues related to the performance of an ODO sensor; (1) the dye starts to breaking down and the black protective coating gets worn away with heavy use. Visually check the protective coating. If >25% of the black coating is missing and/or there is light shining through > 25% of the disc, the membrane must be replaced. The optical DO gain is an indicator when membrane goes bad. Check the ODO Gain in the Advanced Menu. An acceptable range is 0.85 to 1.15.	Added missing information
8	8-23	Conductivity and Temperature Probe		Add under Conductivity and Temperature Probe header— Every two months or once every 15 field trips	Added missing information
8	8-23	pH Probe	3/15/10	Add under pH Probe header— Every two months or once every 15 field trips	Added missing information
10	10-4	Table 10.1—Summary of Quality Control Sampling Field Bank (Optional)	7/1/10	Parameter Group—Water (organics, metals, routine chemistry)	Corrected error

- Shaded rows are previously posted changes.

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