| **Document Number** | **Document Name** | **Proposed Changes** |
| --- | --- | --- |
| BRN 1000 | Biological Reconnaissance Field Method | * Clarified allowance for lab sorting and added language describing appropriate conditions for field sorting.
* Update taxa metrics tables (minor taxonomic revisions).
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| FA 1000 | Field Administrative | * Proposed changes according to Rule 62-160.220, F.A.C. Added requirements for use of a field testing procedure in place of a laboratory procedure.
* Proposed revised requirements for Stream and River Habitat Assessment proficiency testing process.
* Proposed addition of an online test requirement for Rapid Periphyton Survey proficiency.
* Proposed addition of an online test requirement for Linear Vegetation Survey proficiency.
* Added cyanotoxins to the extractable organics analyte group (Tables FA 1000-2 and FA 1000-3).
* Added per- and polyfluoroalkyl substances (PFAS) as an analyte group (Tables FA 1000-2 and FA 1000-3).
* Revised audit checklists to match requirements in FD 1000 and associated SOPs.
* Revised glossary to match definitions in Chapter 62-160, F.A.C., and Data Usability Document (DEP-EA 001/07).
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| FC 1000 | Field Decontamination | * Added provisions for equipment decontamination when collecting samples for PFAS analysis.
* Minor clarifications and editorial changes.
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| FD 1000 | Field Documentation | * Revised to match documentation requirements listed in individual SOPs and field sheets.
* Added section FD 4300 for continuous monitoring with field meters documentation requirements.
* Added sections to FD 5300 for Stream and River Physical/Chemical Characterization and Lake Observation documentation requirements.
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| FM 1000 | Field Mobilization | * Minor clarifications and editorial changes.
 |
| FQ 1000 | Field Quality Control | * Added PFAS to list of parameters for which blanks are required.
* Clarified the process for collection of field duplicates and equipment blanks.
* Added language to note analytes or programs may have more stringent requirements for collection of quality control samples including field blanks, equipment blanks, trips blanks and/or duplicates.
 |
| FS 1000 | General Sampling | * Clarified requirements for wearing gloves, and added requirement for use of powderless nitrile gloves when sampling for PFAS.
* Added new methods/compounds to appropriate preservation and holding time tables per EPA updates.
* Added PFAS methods to appropriate preservation and holding time tables.
* Added the PFAS analyte group to container and equipment material tables.
* Changed preservation temperature from 4+2°C to <6°C per EPA and method updates.
* Removed Figure FS 1000-1 Organic trap diagram.
* Added: “Sodium thiosulfate should only be added to samples to be used for measurement of bacteria, PAHs or other organic pollutants if residual chlorine or other oxidants are known or suspected to be present. “ to Table FS 1000-4, footnote 5
* Made corrections to Table FS 1000-7 to match associated method reference to SW 846 Method 5035A.
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| FS 2000 | General Aqueous Sampling | * Added a new Section FS 2011 for PFAS sampling requirements.
* Clarified volume requirement for bacteria samples.
* Added new equipment material requirements for extractable organics sampling for surface water.
* Removed “do not use containers with dechlorinating chemicals when collecting samples from sources that are known to be free from residual chlorine.”
 |
| FS 2100 | Surface Water Sampling | * Added new equipment material requirements for extractable organics sampling for surface water.
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| FS 2200 | Groundwater Sampling | * Added use of form FD 9000-24 or other datasheet to capture documentation requirements.
* Added new section, FS 2218, for purging requirements for Underground Injection Control wells.
 |
| FS 2300 | Drinking Water Sampling | * Added a new Section FS 2340 for PFAS sampling requirements.
* Minor clarifications and editorial changes.
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| FS 2400 | Wastewater Sampling | * Updated informational reference to EPA wastewater procedure and clarified its requirement to check the flow measurement system.
* Minor clarifications.
 |
| FS 3000 | Soil Sampling | * Revised to align with FS 1000 preservation temperature.
* Added type 1-L Portland cement as example of cement type to use to grout the hole to land surface in the case of a breach of the confining layer during sampling.
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| FS 4000 | Sediment Sampling | * Revised to align with FS 1000 preservation temperature.
* Added “for in situ collection of pore water” to clarify sampler types.
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| FS 5000 | Waste Sampling | * No revisions.
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| FS 6000 | Tissue Sampling | * Updated optional references
* Changed the minimum number of individuals required to be collected per species from twelve to eight for DOH mercury advisory purposes.
* Revised to align with FS 1000 preservation temperature.
 |
| FS 7000 | Biological Communities | * Removed Algal Scum Sample Core method.
* Revised application of Rapid Periphyton Survey method under certain conditions for the stream numeric nutrient standards based on DEP statistical analyses.
* Added proficiency requirement (online tests) for Rapid Periphyton Survey and Linear Vegetation Survey.
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| FS 8100 | Contaminated Surface Sampling | * No revisions.
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| FS 8200 | Clean Sampling for Trace Metals | * No revisions.
 |
| FT 1000 | Field Testing General | * Added “when determining if acceptance criteria are met, the calculated difference between the expected value and the meter value should be expressed with the same precision as the acceptance criteria.”
* Added acceptance criteria for turbidity standards <0.1 NTU/FNU.
* Added FNU to Table FT 1000-1 Field Testing Acceptance Criteria.
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| FT 1100 | Field pH | * Added precaution regarding pH buffer values at different temperatures and use of automatically temperature-adjusting meters.
* Clarified use of fresh buffer when rinsing prior to calibration; use of fresh buffer not required when rinsing prior to verifications.
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| FT 1200 | Field Specific Conductance | * Proposed clarifications to distinguish between specific conductance and conductivity.
* Clarified use of fresh buffer when rinsing prior to calibration; use of fresh buffer not required when rinsing prior to verifications.
 |
| FT 1300 | Field Salinity | * Revised to match requirements in FT 1200.
* Clarified the requirement to document that verifications achieve the quantitative bracketing requirement for salinity.
 |
| FT 1400 | Field Temperature | * No revisions.
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| FT 1500 | Field Dissolved Oxygen | * Added precaution regarding use of barometric pressure when determining dissolved oxygen saturation.
* Added more detail to Table FT 1500-1 Solubility of Oxygen in Water at Atmospheric Pressure.
 |
| FT 1600 | Field Turbidity | * Added introductory text to describe new sections, FT 1620 and FT 1630.
* Clarified requirements for use of standards commercially available for calibration and verifications and use of turbidity-free water.
* Added acceptance criteria for turbidity standard value <0.1 NTU.
* Added requirements for optical/LED probes (FT 1620).
* Added requirements for continuous measurement of total suspend solids (TSS) including equipment, calibration, verification and documentation (FT 1630).
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| FT 1700 | Field Light Penetration | * Revised and updated to include more universal requirements for PAR/transparency measurements and documentation.
 |
| FT 1800 | Field Flow Measurements | * No revisions.
 |
| FT 1900 | Field Continuous Monitoring | * Added introductory text to describe SOP sections, FT 1910 and FT 1920.
* Added verification tolerances for TSS meters.
* Added section for continuous monitoring for ambient *in situ* monitoring for pH, dissolved oxygen, specific conductance/salinity, temperature and turbidity (FT 1920).
 |
| FT 2000 | Field Residual Chlorine | * Added reagent-less amperometric meters for analysis of reclaimed waters (2020 statewide alternative method approval).
 |
| FT 2100 | Field Measurement of Nitrate | * Proposed new SOP for optical nitrate probes used to measure nitrate concentrations in natural waters under field conditions.
 |
| FT 3000 | Habitat Assessment | * Clarified instructions to match associated field forms, FD 9000-3 (Phys/Chem) and FD 9000-4 (HA).
* Added new section for Lake Observation Form (FD 9000-31) requirements (FT 3002).
* Modified habitat assessment proficiency requirements (FT 3100).
* Clarified requirements for hydrologic modification characterization (FT 3101).
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| LD 1000 | Laboratory Documentation (Bioassessment) | * Added documentation requirement for comments associated with macroinvertebrate quality control checks: include comment that corrections were made to appropriate database(s) as a result of a QC check.
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| LQ 1000 | Laboratory Quality Control (Bioassessment) | * Revised the Initial Demonstration of Proficiency for Quality Control of Algal Identifications from 60% to 70% similarity at the genus level for soft algae and from 60% to 70% at the species level for diatom identifications.
* Added documentation requirement for comments associated with macroinvertebrate quality control checks: include comment that corrections were made to appropriate database(s) as a result of a QC check.
* Added recommended (optional) Plant Quality Control identification exercise.
* Added requirement that corrections be made to appropriate database(s) as a result of a QC checks.
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| LT 7000 | Biological Indices | * Revised due to cross-check with FS 7000.
* Updated website location for Macroinvertebrate Taxonomic Keys.
* Revised Table LT 7600-1 based on taxonomic changes and new FISC category 1 and 2 plants.
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| LVI 1000 | Lake Vegetation Index Methods | * Added lake observation requirements for LVI field documentation.
* Changed FLEPPC to FISC.
* Revised and added LVI proficiency requirements.
* Revised Appendix LVI 1000-1 Plant Attributes for LVI Calculation based on taxonomic changes and new FISC category 1 and 2 plants.
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| SCI 1000 | Stream Condition Index Methods | * Added allowance for use of ice for Stream Condition Index sample preservation (if sorted or preserved within 24 hours).
* Updated taxa metrics tables (minor taxonomic revisions).
* Added calculation formula for cumulative identification rate for laboratory QC for macroinvertebrate taxonomic identification.
* Updated SCI Bioregions map to align with the southern boundary of the Peninsula Stream NNC Region.
* Removed the requirement to participate in DEP Taxonomic Quality Control Round Robins for DEP taxonomists.
* Updated website location for Macroinvertebrate Taxonomic Keys
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| DEP-QA-001/01 | Alternative and Modified Analytical Laboratory Methods | * Updated definition and procedure of method detection limit to match EPA revisions (2016).
* Revised Appendix to match DEP-EA-001/07.
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| DEP-EA-001/07 | Process for Assessing Data Usability | * Updated references to 2016 TNI Standard.
* Clarified language and added definitions for quality control components (matrix spikes, laboratory control samples, surrogate spikes, duplicates, replicates).
* Updated calibration standard information per 2016 TNI Standard.
* Added DEP’s hold time interpretation; specified how to interpret/calculate hold times in hours and hold time in days.
* Added appendices with glossary and calculations.
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| DEP-SAS-002/11 | Lake Vegetation Index Primer | * Minor clarifications and editorial changes.
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| DEP-SAS-001/11 | Stream Condition Index Primer | * Removed text duplicated in NNC Implementation Document and/or SOP SCI 1000.
* Revised and added descriptions of SCI metrics.
* Added guidance for sampling large rivers and nonperennial systems.
* Added Appendix regarding identification and sampling of large river systems and nonperennial systems.
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| DEP-SAS-002-10 | Applicability of Chlorophyll *a* Methods | * Proposed to incorporate into 62-160.320(7), F.A.C. Currently incorporated into 62-302, F.A.C.
* Updated Standard Method year and chapter revisions for chlorophyll methods.
* In Table 1, revised a note to indicate that appropriate WQ criteria should inform the sensitivity of the method used rather than a set range of concentrations.
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| FD 9000-01 | Biorecon Field Sheet | * Changed STORET to WIN.
 |
| FD 9000-3 | Physical/Chemical Characterization Field Sheet | * Revised to match FD 1000 and FT 3000.
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| FD 9000-4 | Stream/River Habitat Sketch Sheet | * Added SCI habitat coverage observations and number of sweeps.
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| FD 9000-5 | Stream/River Habitat Assessment Field Sheet | * Changed STORET to WIN.
 |
| FD 9000-6 | Lake Habitat Assessment Field Sheet | * Changed STORET to WIN.
 |
| FD 9000-24 | Groundwater Sampling Log | * Added additional fields to document facility ID, well stickup, total well depth, and ORP. Clarified that many measurements taken from below the top of casing.
 |
| FD 9000-25 | Rapid Periphyton Survey | * No changes.
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| FD 9000-27 | Lake Vegetation Index Field Sheet | * Updated plant names due to taxonomic changes and added new FISC category 1 and 2 plants.
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| FD 9000-31 | Lake Observation Field Sheet | * Revised to match FD 1000 and FT 3000.
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| FD 9000-32 | Linear Stream Vegetation Survey Form | * Updated plant names due to taxonomic changes and added new FISC category 1 and 2 plants.
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| FD 9000-33 | Wetland Condition Index Vegetation Field Form | * No revisions.
 |
| FD 9000-34 | Stream Habitat Assessment Training Checklist and Event Log | * Revised requirements for Habitat Assessment proficiency testing process.
* Revised to match FT 3000.
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| FD 9000-35 | Stream Condition Index Training Checklist and Event Log | * Modified to include sorting, macroinvertebrate ID and mock audit milestones for BioRecon.
* Revised to match SCI 1000.
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