TMDL AUDIT Executive Summary

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Audit Date: June 29-30, 2004

This audit was conducted to evaluate past data for TMDL listing purposes as specified in Chapter 62-303, F.A.C.

To accomplish this objective, audit consisted of a project audit of data retrieved from STORET that was identified as having been produced by TestAmerica

The project audit was performed using criteria that were developed to meet specific data quality objectives for the TMDL program. Selected records were reviewed to determine if sufficient information was available to verify the quality of the data, with emphasis on calibration, quality control procedures, and documentation. The purpose of the audit was to determine data usability and was not intended as a regulatory action against the audited party.

The Environmental Assessment Section (EAS) determined that for the selected STORET data set, TestAmerica does not have adequate documentation to allow verification of the quality of some of the audited results. The EAS has recommended that chlorophyll A, fecal coliform and turbidity results generated before June 30, 2004 should be further evaluated prior to use for establishing the verified status of any water body.

A majority of the observed procedural and documentation problems were corrected before the date of the on-site visit. The remaining problems will be corrected when the specific actions outlined in the final letter to TestAmerica are implemented.

The attached table(s) summarizes the findings of the audit of historical data. Other supporting documentation is available upon request.

TMDL DATA AUDIT SUMMARY (TMDL DATA USABILITY)
DATA FROM SAMPLES COLLECTED *DATE*
LABORATORY AND FIELD DATA

TMDL Criterion / Analytes	Chlorophyll A	Fecal Coliform	NH3	NOX	o-P	TKN	TP	Turbidity	Calcium	Magnesium
Sample Preservation and Holding Times										
Holding times met.	X	X	X	X	X	X	X	X	X	X
Sample preservation as acceptable	X	X	X	X	X	X	X	X	X	X
Laboratory Practical Quantitation Limit										
Reported PQL ≤ TMDL usability level	X	X	X	X	X	X	X	X	X	X
Laboratory Replicate Precision										
Replicates ≤ 20% RPD/RSD	X		X	X	X	X	X	X	X	X
Laboratory Spike Recoveries										
Spike recoveries were within TMDL limits			X	X	X	X	X		X	X
Spike concentration levels met TMDL criterion			X	X	X	X	X		X	X
SRM or QC check sample within limits	X									
Field and Laboratory Quality Control Blanks										
Blank detects <10% of sample values	X		X	X	X	X	X	X	X	X
Field and Laboratory Instrument Calibration										
At least the minimum number of standards were used			X	X	X	X	X	X	X	X
Correlation coefficient was ≥ 0.995			X	X	X	X	X		X	X
Second source verification for initial calibration			X	X	X	X	X		X	X
Initial verification after calibration										
Verifications met TMDL recovery limits			X	X	X	X	X	X	X	X
Samples & QC samples within verified time bracket.			X	X	X	X	X	X	X	X
Samples & QC samples within verified concentration bracket.			X	X	X	X	X	X	X	X
Method Specific Requirements										
All audited sample results were properly calculated	X	X	X	X	X	X	X	X	X	X
Critical method specific requirements met		X		X				X	X	X

Legend: X – Analyte records were audited for indicated TMDL usability criterion.
Hatched [▨] Criterion not applicable