TMDL AUDIT Executive Summary

Audited Organization:
U.S. Biosystems, Inc
3231 N.W. 7th Avenue
Boca Raton, FL 33431

DEP Auditors: Tom Frick and Silky Labie
Environmental Assessment Section
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Audit Date: March 9, 2005

This audit was conducted to:

- evaluate past data for TMDL listing purposes as specified in Chapter 62-303, F.A.C.
- To accomplish these objectives, this audit consisted of a project audit of data retrieved from Department's IWR data base that was identified as having been produced by U.S. Biosystems, Inc.

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 data set, U.S. Biosystems, Inc. has adequate documentation to allow verification of the quality of all of the audited results. Inspection of the organization's records also indicated that some of the data quality did not meet the data quality objectives established for TMDL purposes.

The observed procedural and documentation problems will be corrected with the U.S. Biosystems, Inc.'s plan of corrective actions for laboratory and field operations.

The attached table summarizes the analyte records and types of evaluation criteria used for the audit of historical data. Other supporting documentation is available upon request.

TMDL DATA AUDIT SUMMARY (TMDL DATA USABILITY)
DATA FROM SAMPLES COLLECTED DURING THE TIME PERIOD FROM 12-14-2000 THROUGH 5-16-2001
LABORATORY DATA

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

LEGEND: **X – ANALYTE RECORDS WERE AUDITED FOR INDICATED TMDL USABILITY CRITERION.**
Hatched [▨] Criterion not applicable