

DATA REVIEW AND VALIDATION

Project Highlights:

- Multiple Site Project
- CERP Project
- Compliance with QA/QC parameters
- NELAC Compliance
- Review of Raw Data and QA/QC parameters
- Data Validation
- Data Interpretation
- Check for Analytical Consistency between Analyses

THIRD PARTY DATA REVIEW AND DATA VALIDATION

International Analytical Group, Inc. (IAG) was contracted by a consulting company to review and validate environmental laboratory data produced during a multiple site assessment project. The project consisted of Environmental Site Assessments in the Biscayne Bay Coastal Wetlands Area for the South Florida Water Management District (SFWMD). The project involved site assessments of thousands of acres in south-east Florida that are part of the Comprehensive Everglades Restoration Project (CERP) land acquisition program. Ecological risk assessments and remedial costing are performed to provide the SFWMD with a cost basis for cleanup of these sites based on laboratory data produced during assessment activities. Since the project involved acquisition of thousands of acres, and cost decisions were to be based on the laboratory data, it was necessary

to conduct a third party review of the environmental data prior to submitting it to the client. IAG started by verifying the laboratories' NELAC certifications for the particular analyses involved, to ensure the laboratories were qualified to conduct the required analyses; reviewed laboratory Standard Operating Procedures (SOPs) for the analytical methods involved, to ensure that the SOPs were in compliance with the analytical methods; and examined chain-of-custody records to verify holding times and the integrity of the samples. IAG then reviewed the laboratory data for the project with regards to accuracy and compliance with pertinent Quality Assurance/Quality Control (QA/QC) parameters. Given the sensitivity of this project, the raw analytical data was also reviewed. In addition, IAG reviewed the results of the various analyses conducted on the samples and checked for



consistency of the data between the different analyses and with historical data, if available. Based on its review of all these parameters, the validity of the laboratory data was determined. A report summarizing the findings for each laboratory report was submitted to the client.

DATA REVIEW, VALIDATION AND CHECK FOR ANALYTICAL CONSISTENCY

IAG reviewed the laboratory data for the project with regards to accuracy and compliance with pertinent Quality Assurance/Quality Control (QA/QC) parameters (daily blank, calibration check, spike and spike duplicate, calibration curve, and surrogate recovery). In addition, IAG reviewed the chain of

custody records, verified that holding times were met, reviewed the raw data for the analyses, and re-calculated the QA/QC data to ensure its accuracy and precision. The data from the different analyses was compared to historical data for the property (ies), if available, and to data from related analyses to ensure

consistency between the analyses.