

## LABORATORY CONSULTING AND PERMIT COMPLIANCE

### Project Highlights:

- Coordination with Project Manager and all participating Companies
- Laboratory Selection
- Logistics Schedule
- Specialized Sampling Equipment
- Daily Monitoring Activities; Seven Days a Week, 365 days a year
- Meeting with Laboratory Personnel
- Data Validation
- Electronic Laboratory Report

## PERMIT COMPLIANCE MONITORING - MIAMI RIVER

The Army Corps of Engineers (ACOE) was in charge of dredging the Miami River to increase its navigability. Due to the urban nature of the river, the large amount of boat traffic, the large number of businesses and residences along its banks, and the sensitive nature of Biscayne Bay, the final point of discharge of the Miami River; the project involved a large number of federal, state, and local agencies. A joint venture formed by Weston Solutions and Bean Environmental (Weston/Bean) was in charge of the project. Weston/Bean contracted International Analytical Group, Inc. (IAG) to monitor water quality at the Miami River in accordance with the permits issued by the Florida Department of Environmental Protection (FDEP) and to select the laboratory (ies) that could perform the required analyses at the required detection limits, in an expedited manner. Due to the saline nature of the samples, the low detection levels that are required by the permit, and



(in some cases) short holding times, IAG selected three laboratories to perform the required analyses. In order to reduce shipping costs, expedite availability of results, and comply with the reporting requirements of the permit, IAG developed a shipping and reporting schedule with the laboratories and Weston/Bean.

Daily monitoring activities included collecting water samples from three to four specific points along the River

one hour before low tide, collecting dissolved oxygen and turbidity readings, making observations on boat traffic, wind, and ambient temperature, notifying the Project Manager of any anomalous readings, completion of all necessary paperwork, and packing and shipping of samples to the laboratories.

## LABORATORY SELECTION AND DATA REVIEW

IAG selected the laboratories for the project by verifying that they had all the necessary NELAP certifications for all the requested analyses, they could meet the method specific quality control requirements, and the detection limits specified in the FDEP permit.

IAG's project manager met with laboratory personnel to review the project's requirements and the format of the electronic copy of the laboratory report.

The laboratory transmitted the analytical results and the quality assurance/quality

control data to the IAG project manager via e-mail. IAG reviewed the results for accuracy, precision, format, and permit compliance. Once its review was complete, IAG posted the final electronic copy of the report to an FTP site set-up specifically for this project.