

# ESTABLISHING PROCEDURES FOR ENVIRONMENTAL AUDITS

## Project Overview

In 2008, Matrix Solutions Inc. and Western Oilfield Environmental Services teamed up to provide direct technical assistance to the Petroleum Corporation of Jamaica (PCJ) through a Canadian International Development Agency (CIDA) contract administered by the Environmental Services Association of Alberta (ESAA). PCJ requested a project that delivered environmental auditing training to a group of staff from several of their facilities, including the refinery in Kingston and the Wigton Windfarm. Environmental auditing skills will support the company in meeting environmental requirements under new air and effluent emissions guidelines recently introduced in Jamaica. As well, environmental auditing is a key component of environmental management systems (EMS). The initial audits PCJ conducts will form part of the gap analysis for eventual EMS development.

The objectives of the PCJ environmental audit project are to:

- provide training to core PCJ staff and other stakeholders on the principles and procedures of environmental auditing;
- provide PCJ staff with the skills to conduct environmental audits of PCJ facilities and guide them in initial audits;
- review environmental audit results with PCJ staff and develop an action plan to effectively deal with recommendations;
- develop an overall audit program including discussion of the contribution of audits to continuous improvement programs.



**JAMAICA**

## Matrix's Role

The objectives of the project are being met through three one-week programs working with PCJ personnel in Jamaica. Matrix developed audit protocols based on ARPEL guidelines and Jamaican legislation, which will be modified by PCJ for site audits.

A one week auditing course was delivered in 2008, attended by PCJ staff and several external students from the Ministry of Energy and Mining and various not-for-profit groups.

A return visit in May 2009 provided follow up on the first facility audit completed by PCJ, as well as delivery of a course on EMS and a workshop on used oil management. The EMS course and workshop were attended by both PCJ staff, including the Group Managing Director, and representatives of several external stakeholder groups such as the National Environmental Protection Agency and the University of the West Indies.

An audit program was developed by PCJ for the remainder for 2009, and the final follow-up trip will review the audit results and action plans in a workshop atmosphere.