



## United Nations Environment Programme

### CAPACITY BUILDING AND TRAINING COURSES – Report for URUGUAY -

Training dates:

From: 16th April 2018

To: 20<sup>th</sup> April 2018

#### 1. PROJECT INFORMATION

Project: Project "GEF GMP2 GF4030-4F34"

Project actual start date 29 February 2016

Project expected completion date 30 April 2020

UNEP GEF Project ID: 4881

GEF Project Title: Continuing Regional Support for the POPs Global Monitoring Plan under the Stockholm Convention in the Latin American and Caribbean Region

Trainer: CSIC

Trainee: Uruguay



## 1. CAPACITY BUILDING AND ON-SITE TRAINING COURSES ON POPs in URUGUAY

### 1.1 Introduction

As part of the tasks to be performed within the GMP-2 Project, CSIC is organizing the on-site training on POP analyses in the following countries: Uruguay, Antigua and Barbuda, Barbados, Jamaica, Chile, Argentina, Colombia, Ecuador, Peru, Brazil and Mexico.

In general, the training was based on the analysis of real samples and standards. The target compounds depend on the capacity of the countries, but always focus on those substances listed in the Stockholm Convention. Final decision on analytes and matrices is taken by countries in close agreement with Expert lab and depends mainly on the country capacity in terms of instruments, reagents, and of course, needs.

Figure 1 shows the Trainings and Capacity Building courses organized in Jamaica, Brazil, Uruguay and Barbados in the first semester of 2018.

This report makes reference to the activities carried out during the Capacity Building and Training Course organized for Uruguay.



Figure 1. Training and Capacity Building courses calendar for the first semester 2018.

### 1.2 Training and Capacity Building Course at Uruguay.

The Training and Capacity Building course in Uruguay was given by Dr Esteban Abad and Mr. Jordi Sauló, both from the Laboratory of Dioxins of CSIC in Barcelona (Expert Laboratory for the GRULAC Region). The training was given at the Laboratorio Tecnológico del Uruguay (LATU) in Montevideo (Uruguay), between 16<sup>th</sup> and 20<sup>th</sup> April 2018.

In total, 8 people attended the course from 2 different institutions (See Table 1): 6 people from LATU and 2 people from the Dirección Nacional de Medio Ambiente (DINAMA). Some pictures taken during training are giving in Figure 2.

As agreed, the training was focused on the analysis of Dioxins, furans and brominated compounds in air, sediments and milk samples. Among the huge instrumentation available at LATU, a GC-MS/MS (QqQ) were available to be used during all the training sessions. Figure 3 shows chromatograms corresponding to the analysis of dioxins and furans analyzed during the training.



Table 1. List of attendants participating in the Capacity Building Training Course on POPs carried out at CETESB, Barbados, between the 28<sup>th</sup> May and 1<sup>st</sup> June 2018.

Full Name	Institution
Natalia Baldyga	LATU
Agustín Campanella	LATU
Ana Clara Bianchi	LATU
Laura Olazabal	LATU
Roberto Puentes	LATU
Liliana Sedraschi	LATU
Marina Torres	LATU
Alejandro Mangarelli	DINAMA
Rodrigo Souza	DINAMA



Figure 2. Some pictures from the training course on dioxins and brominated compounds in Uruguay.

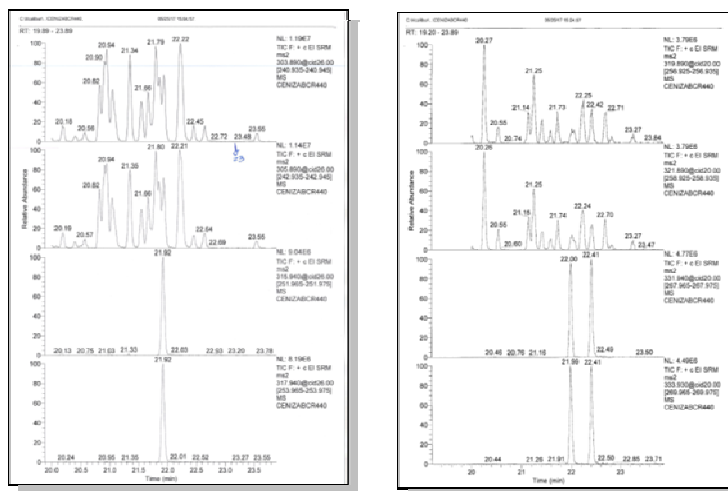


Figure 3. Examples of chromatograms of tetra chlorinated furans and dioxins in real samples from Uruguay achieved during the training course.



2. Signature/Date

Dr. Esteban Abad  
Laboratory of Dioxins, IDAEA-CSIC

Thursday, 20 December 2018