



IWWG Training Course

Leaching Assessment and LeachXS Training

Location: AVRA IMPERIAL HOTEL – Kolympari, Crete
Tuesday September 2 , 2014 (14:00 – 17:00)

Workshop Convenor:

Hans van der Sloot

Actions prior to the Workshop:

LeachXS, additional tools and install instructions will be supplied a week prior to the training. Participants are requested to uninstall earlier versions and install the supplied LeachXS Pro version on their laptops prior to the training and report any difficulties in that process.

Requirements Laptop: minimal 2 Gb RAM, Windows operating system, screen minimal 1024x768.

A license key valid for 3 months will be supplied with the software (validation requires connection to internet)

Workshop duration: 0.5 day

Tuesday Afternoon.

14:00 - 14:45 Introduction

Welcome and participant introduction

Background of LeachXs and test methods

1. Development of the LeachXS ORCHESTRA and LXS database
2. Leaching data comparison – comparing materials
3. Link with standardised leaching test methods
4. Comparison with regulation
5. Tiered approach in testing
6. Comparison lab to field
7. Statistical evaluation of data
8. Geochemical modelling - CSF
9. Mixture modelling
10. Scenario model definitions



14:45 - 15:00 Coffee Break

LeachXS installation verification

15:00 - 16:45 LeachXS training

1. Switching between databases
2. Extracting test data from the database for comparison of test data
 - i. pH dependence and percolation
 - ii. pH dependence and monolith leaching
3. Input tool for own data
 - i. pH dependence test data
 - ii. batch test data
4. Case file structure in LeachXS (export and import)
5. Export data to Excel
6. Export graphs to Word
7. Statistical data evaluation
8. Chemical speciation - pH dependence test
9. Dynamic release - Percolation test
10. Overview of other models

16:45 - 17:00 Wrap up

- a. Questions
- b. Discussion of participant modelling needs

17:00 Closure

IWWG Training Course
Experiences with Landfill Class I for Hazardous Wastes
Location: AVRA IMPERIAL HOTEL – Kolympari, CRETE
Tuesday September 2nd, 2014 (18:00 – 21.00)

Workshop Convenor:

Gerhard Rettenberger

Actions prior to the workshop:

It might be helpful to get familiar with
EU landfill directive
EU waste catalogue
Composition of

Workshop duration:

0.5 day

18:00 – 19:15 Introduction and Examples

Welcome and participant introduction
Short description of the situation in Germany
Examples for class I landfills
Accepted wastes
Kind of technology
behaviour of the landfill
Conclusions and discussion

19:15 – 19:45 Break

19.45 – 21:00 Design of class I landfills

Site selection
Demand for class I landfill
Selection of accepted wastes
Environmental impact
Odour
Landfill gas
Leachate control and treatment
Dust emissions
Behaviour of the landfill (temperatur, settlement,
inside fires, chemical reactions
Operation of the landfill
Closure and aftercare of the landfill, costs

Wrap up
Questions and discussions

21:00 Closure and opening ceremony

