ケンブリッジ環境アセスメント（CEA）は、水生メソコスム試験能力を2013年に年間4件に拡大します。水生メソコスム試験（Mesocosm）とは、屋外に大規模な囲い込み容器を設け、複雑な水生生態系への被験物質の影響を調査する高次試験です。

# CEA MESOCOSMS AND NON-STANDARD TESTING

Cambridge Environmental Assessments (CEA) continue to be market leaders in the design and conduct of aquatic higher-tier studies. Our mesocosm facility currently comprises 99 individual replicated ponds, a 100,000L reservoir for plants and invertebrates and tanks holding an additional 20,000L of aged pond water making it possibly the largest facility of its type in Europe.

## Recent Studies

CEA have conducted nine mesocosm studies since 2009 which have included numerous non-standard multi exposure designs:

5 x  insecticide studies with multiple ‘mix-in' or overspray applications

1 x focal species study with an insecticide to assess recovery endpoints for amphipods and isopods

3 x herbicide studies two of which were conducted with a novel (partial renewal) exposure method

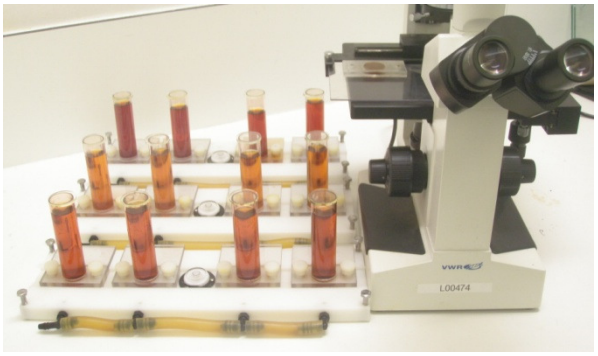
All our studies can supported by novel, bespoke bioassays either conducted in our laboratory or within the microcosms

# CEA MESOCOSMS AND NON-STANDARD TESTING

## New developments

### Algal cell counting using Utermöhl chambers

Samples of algae are fixed with Lugols iodine solution and settled in specialised chambers prior to identification and enumeration using an inverted microscope



### Dilution of microcosm water to mimic modelled exposure scenarios

5000L tanks store chlorinated pond water used to dilute treated microcosms to mimic modelled exposures; the removed water is held in IBCs for safe disposal

## Contact

To find out more about our experimental ecotoxicology offer please contact Seamus Taylor (seamus.taylor@cea-res.co.uk) or for general enquiries e-mail: enquiries@cea-res.co.uk

**Cambridge Environmental Assessments**
ADAS UK Ltd.
Battlegate Road, Boxworth
Cambridge CB23 4NN
UK
Tel:+44 (0)1954 268238
www.cea-res.co.uk

（株）リプレ　　"Safety Health Environment"
■〒103-0025　東京都中央区日本橋茅場町3-5-3
■電話：03-5643-2755　Ｆａｘ：03-5643-2756
■Mail :  customerservice@repre.net

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