

SI for: Synergistic effects of contaminants in Lombardy waters

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Supplementary Information

Figure S1: *C. reinhardtii* **relative growth rate**. *C. reinhardtii* cells were cultured in TAP medium containing Glyphosate, AMPA, Bentazon (Bent.), Terbutylazine (Terb.) separately and in combination at the same concentrations detected in shallow water. Additionally, we also considered a concentration ten times higher for the mix of all the four substances (10X A+G+B+T), and cells grown in TAP medium without any other contaminant were used as control (Ctrl) as described in Materials and Methods section. *C. reinhardtii* growth was monitored by measuring optical density at 680 nm of 100 μ L cell culture using a microplate reader (Ensign, Perkin Elmer). Growth rate was calculated for every experimental condition considered as the log₂ ratio between optical density immediately after the seeding and after seven days. Plot shows the average growth rate relative to control condition over three experimental replica. For each experiment and condition, two independent measurements were performed. Error bars are standard deviation over replica. There are no statistically significant differences.

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Supplementary table captions

Table S1: List of substances (herbicides and insecticides) analyzed in the paper for surface and groundwater.

Table S2: Classes of substances and quantities of products measured by ARPA in the Lombardy surface and groundwater in 2018.

Table S3: W-T: water tipology; RE-LI: revoked license ; YE-RE: year of last revoked; AU-PR: authorized products; RE-PR: re-registered products; EX PR: expired license; surface*, under*: stable products derived from degradation of Glyphosate (AMPA), Dichlobenil (2,6-Dichlorobenzamide) Atrazine (Desethyl Atrazine), Terbutylazine (Desethyl Terbutylazine)