

## Additional file 1. Searches

### A. Searches in databases.

The search engine in Directory of Open Access Journals (DOAJ) did not allow complex search strings. Therefore the search strategy in that data base needed to be simplified. The word “wetland” was combined with each of the subject words (term 3 in **Error! Reference source not found.**) using the Boolean operator AND. Since no truncations were allowed in the DOAJ search engine, separate searches were done using the words phosphorus and phosphate as well as ammonium and ammonia.

Database	Search string
ISI Web of Knowledge	(wetland* OR pond OR mire* OR marsh OR fen OR "wet meadow" OR riparian OR "flood plain" OR reed) <b>AND</b> (construct* OR creat* OR restor* OR man*made OR flooding OR inundation) <b>AND</b> (nitrogen OR phosph* OR nitrate OR TKN OR ammoni*) <b>AND</b> (retention OR trap* OR denitrification OR uptake OR sedimentation OR remov* OR settling OR accretion OR precipitat* OR *sorption)
Engineering Village (Georef and Geobase)	(wetland* OR pond OR mire* OR marsh OR fen OR "wet meadow" OR riparian OR "flood plain" OR reed) <b>AND</b> (construct* OR creat* OR restor* OR man*made OR flooding OR inundation) <b>AND</b> (nitrogen OR phosph* OR nitrate OR TKN OR ammoni*) <b>AND</b> (retention OR trap* OR denitrification OR uptake OR sedimentation OR remov* OR settling OR accretion OR precipitat* OR *sorption)
Scopus	TITLE-ABS-KEY(wetland* OR pond OR mire* OR marsh OR fen OR "wet meadow" OR riparian OR "flood plain" OR reed) <b>AND</b> TITLE-ABS-KEY(construct* OR creat* OR restor* OR man*made OR flooding OR inundation) <b>AND</b> TITLE-ABS-KEY(nitrogen OR phosph* OR nitrate OR TKN OR ammoni*) <b>AND</b> TITLE-ABS-KEY(retention OR trap* OR denitrification OR uptake OR sedimentation OR remov* OR settling OR accretion OR precipitat* OR *sorption)
Agricola	wetland? pond mire? marsh fen "wet meadow" riparian "flood plain" reed construct? creat? restor? Man-made manmade flooding inundation nitrogen phosph? nitrate TKN ammoni? retention trap? denitrification uptake sedimentation remov? settling accretion precipitat? ?sorption
ASFA	(wetland* OR pond OR mire* OR marsh OR fen OR "wet meadow" OR riparian OR "flood plain" OR reed) <b>AND</b> (construct* OR creat* OR restor* OR man*made OR flooding OR inundation) <b>AND</b> (nitrogen OR phosph* OR nitrate OR TKN OR ammoni*) <b>AND</b> (retention OR trap* OR denitrification OR uptake OR sedimentation OR remov* OR settling OR accretion OR precipitat* OR *sorption)
Academic Search Complete	(wetland* OR pond OR mire* OR marsh OR fen OR "wet meadow" OR riparian OR "flood plain" OR reed) <b>AND</b> (construct* OR creat* OR restor* OR man#made OR flooding OR inundation) <b>AND</b> (nitrogen OR phosph* OR nitrate OR TKN OR ammoni*) <b>AND</b> (retention OR trap* OR denitrification OR uptake OR sedimentation OR remov* OR settling OR accretion OR precipitat* OR *sorption)

Database	Search string
Biological Abstracts	(wetland\$ OR pond OR mire\$ OR marsh OR fen OR "wet meadow" OR riparian OR "flood plain" OR reed) <b>AND</b> (construct\$ OR creat\$ OR restor\$ OR man?made OR flooding OR inundation) <b>AND</b> (nitrogen OR phosph\$ OR nitrate OR TKN OR ammoni\$) <b>AND</b> (retention OR trap\$ OR denitrification OR uptake OR sedimentation OR remov\$ OR settling OR accretion OR precipitat\$ OR a?sorption or sorption)
Wiley Online Library	(wetland* OR pond OR mire* OR marsh OR fen OR "wet meadow" OR riparian OR "flood plain" OR reed) <b>AND</b> (construct* OR creat* OR restor* OR man*made OR flooding OR inundation) <b>AND</b> (nitrogen OR phosph* OR nitrate OR TKN OR ammoni*) <b>AND</b> (retention OR trap* OR denitrification OR uptake OR sedimentation OR remov* OR settling OR accretion OR precipitat* OR *sorption)()
Directory of Open Access Journals	Wetland <b>AND</b> nitrogen Wetland <b>AND</b> phosphorus Wetland <b>AND</b> nitrate Wetland <b>AND</b> TKN Wetland <b>AND</b> ammonium Wetland <b>AND</b> phosphate Wetland <b>AND</b> ammonia
Science Direct	(wetland* OR pond OR mire* OR marsh OR fen OR "wet meadow" OR riparian OR "flood plain" OR reed) <b>AND</b> (construct* OR creat* OR restor* OR man*made OR flooding OR inundation) <b>AND</b> (nitrogen OR phosph* OR nitrate OR TKN OR ammoni*) <b>AND</b> (retention OR trap* OR denitrification OR uptake OR sedimentation OR remov* OR settling OR accretion OR precipitat* OR *sorption)

## B. Searches on internet with Google

**English:** (wetland OR pond OR marsh) AND (constructed OR created OR restored OR artificial) AND (nitrogen OR phosphorus) AND (retention OR removal)

**Swedish:** (våtmark OR damm) AND (anlagd OR skapad OR restaurerad OR artificiell) AND (kväve OR fosfor) AND (retention OR rening OR avskiljning)

**Danish:** (vådområde OR lavvandet sø OR minivådområde AND (konstrueret OR reetableret OR genskabt OR kunstig) AND (kvælstof OR nitrogen OR fosfor or fosfat) AND (tilbageholdelse OR retention OR fjernelse OR rensning)

**Dutch:** (moeras OR rietveld OR sloot) AND (kunstmatig OR aangelegd OR hersteld OR helofytenfilter) AND (stikstof OR fosfaat OR fosfor) AND (verwijdering OR zuivering)