Search terms and Boolean-style search strings

**Table 1** Search terms for each search category. The wildcard ‘\*’represents any character (or none), allowing for a greater number of term variations.

|  |  |  |
| --- | --- | --- |
| Population | Exposure | Outcome |
| River | Fish farm | Water quality |
| river\*stream\*fresh\*waterwatercourse\*waterway\*tributar\* | fish\*farm\*aqua\*culturefish hatcher\*piscicultur\*fish produc\*fish rear\*trout farm\*trout produc\*trout hatcher\*salmo\* farm\*salmo\* produc\*salmo\* hatcher\* | water qualitywater healthwater condition\*pollut\*water statussediment\*water chemistrybio\*diversitybio\* indicator\*microbi\*bacteri\*microorganism\*diatom\*bio\*film\*ecologyparasit\*protozo\*nitr\*phosph\*ammonia\*\*invertebrate\* |

The search strings formatted for Web of Science Core Collection, Scopus, and JSTOR are below. JSTOR has a limited search capacity, therefore the search string is shorter and simpler.

Web of Science Core Collection:

TS=("river\*" OR "stream\*" OR “fresh\*water” OR “watercourse\*” OR “waterway\*” OR “tributar\*”) AND TS=(“water” NEAR/2 “quality” OR "water health" OR "water condition\*" OR “pollut\*” OR “water status” OR "sediment\*" OR "water chemistry" OR "bio\*diversity" OR "bio\* indicator\*" OR “microbi\*” OR “bacteri\*” OR “microorganism\*” OR “diatom\*” OR “bio\*film\*” OR “ecology” OR “parasit\*” OR “protozo\*” OR “nitr\*” OR “phosph\*” or “ammonia\*” or “\*invertebrate\*”) AND TS=("fish\*farm\*" OR “aqua\*culture” OR “fish hatcher\*” or “piscicultur\*” or "fish" NEAR/2 "produc\*" or “fish rear\*” or “trout farm\*” or "trout" NEAR/2 "produc\*" or “trout hatcher\*” or "salmo\* farm\*" or "salmo\*" NEAR/2 "produc\*" or “salmo\* hatcher\*”) NOT TS=(“lake\*” OR “reservoir\*” OR “lagoon\*” OR “pool\*”) NOT TS=(“prawn\*” OR “shrimp\*” OR “mollusc\*” OR "crab\*" OR “crustacea\*” OR "catfish\*" OR "tilapia\*" OR "carp\*" OR "\*bass\*" OR "perch\*") AND LA=(English)

Scopus:

( TITLE-ABS-KEY ( "river\*" OR "stream\*" OR "fresh\*water" OR "watercourse\*" OR "waterway\*" OR "tributar\*" ) ) AND ( TITLE-ABS-KEY ( “water” W/2 “quality” OR "water health" OR "water condition\*" OR "pollut\*" OR "water status" OR "sediment\*" OR "water chemistry" OR "bio\*diversity" OR "bio\* indicator\*" OR "microbi\*" OR "bacteri\*" OR "microorganism\*" OR "diatom\*" OR “bio\*film\*” OR “ecology” OR “parasit\*” OR “protozo\*” OR “nitr\*” OR “phosph\*” OR “ammonia\*” OR “\*invertebrate\*”) ) AND ( TITLE-ABS-KEY ( "fish\*farm\*" OR "aqua\*culture" OR "fish hatcher\*" OR "piscicultur\*" OR “fish” W/2 “produc\*” OR "fish rear\*" OR "trout farm\*" OR “trout” W/2 “produc\*” OR "trout hatcher\*" OR "salmo\* farm\*" OR “salmo\*” W/2 “produc\*” OR "salmo\* hatcher\*") ) AND NOT ( TITLE-ABS-KEY ( "lake\*" OR "reservoir\*" OR "lagoon\*" OR "pool\*" ) ) AND NOT ( TITLE-ABS-KEY ( "prawn\*" OR "shrimp\*" OR "mollusc\*" OR "crustacea\*" OR "crab\*" OR "catfish\*" OR "tilapia\*" OR "carp\*" OR "\*bass\*" OR "perch\*" ) ) AND LANGUAGE ( english )

JSTOR:

(((ab:""river\*" OR "fresh\*water" OR "stream\*"") AND (ab:""fish\*farm\*" OR "aquaculture" OR "salmo\* farm\*" OR "trout farm\*" OR (trout produc\*~2) OR (salmo\* produc\*~2) OR (fish produc\*~2)")) NOT (ab:""lake" OR "reservoir" OR "lagoon"")) AND la:(eng OR en)