
# Dissolved Reactive phosphorus, 2009–2013

Metadata
- File Identifier
  - d99610cb-a43e-b72e-06bd-758b2d9edcd7
- Language
  - eng
- Character Set
  - Character Set Code
    - utf8
- Hierarchy Level
  - Scope Code
    - dataset
- Hierarchy Level Name
  - dataset
- Contact
  - Responsible Party
    - Organisation Name
      - Environmental Reporting, Ministry for the Environment and Statistics New Zealand
    - Position Name
      - Analyst
    - Contact Info
      - Contact
        - Address
          - Address
            - Delivery Point
              - 23 Kate Sheppard Place, PO Box 10362
            - City
              - Wellington 6143
            - Country
              - New Zealand
            - Electronic Mail Address
              - Environmental.Reporting@mfe.govt.nz
    - Role

Role Code
distributor

Date Stamp
Date
2016-01-21

Metadata Standard Name
ANZLIC Metadata Profile: An Australian/New Zealand Profile of AS/NZS ISO 19115:2005, Geographic information - Metadata

Metadata Standard Version
1.1

Reference System Info
Reference System
Reference System Identifier
Identifier
Code
2193

Identification Info
Data Identification
Citation
Citation
Title
Dissolved Reactive phosphorus, 2009–2013

Date

Abstract
"Phosphorus is an essential nutrient for plant and animal life. Phosphorus can vary due to differences in land use, climate, elevation, and geology. Total phosphorus (TP) includes all concentrations in a sample, whether dissolved, in solid form or bound to sediment in the river. Dissolved reactive phosphorus (DRP) is the portion which is dissolved and can immediately support plant and algae growth. Excess phosphorus in our rivers can cause large amounts of (sometimes toxic) algae to grow, which can harm river health and reduce the recreational and aesthetic value of rivers. This dataset relates to the ""Geographic pattern of phosphorus in river water"" measure on the Environmental Indicators, Te taiao "

Status
Progress Code
completed

Point Of Contact
Responsible Party
Organisation Name
Environmental Reporting, Ministry for the Environment and Statistics New Zealand

- Position Name
  - Analyst
- Contact Info
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          - 23 Kate Sheppard Place, PO Box 10362
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          - Wellington 6143
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          - Environmental.Reporting@mfe.govt.nz
- Role
  - Role Code
    - distributor

Resource Maintenance
- Maintenance Information
  - Maintenance And Update Frequency
    - Maintenance Frequency Code
      - irregular

Resource Format
- Format
  - Name
    - *.xml
  - Version
    - Unknown

Descriptive Keywords
- Keywords
  - Keyword
    - New Zealand
  - Type
    - Keyword Type Code
      - theme
  - Thesaurus Name
    - Citation
      - Title
        - ANZLIC Jurisdictions

Date

Edition
Version 2.1

Edition Date
Date
2008-10-29

Identifier
Identifier
Code
http://asdd.ga.gov.au/asdd/profileinfo/anzlic-jurisdic.xml#anzlic-jurisdic

Cited Responsible Party
Responsible Party
Organisation Name
ANZLIC the Spatial Information Council

Role
Role Code
custodian

Descriptive Keywords
Keywords
Keyword
WATER

Keyword
WATER-Quality

Type
Keyword Type Code
theme

Thesaurus Name
Citation
Title
ANZLIC Search Words

Date

Edition
Version 2.1

Edition Date
Date
2008-05-16

Identifier

Identifier
Code
http://asdd.ga.gov.au/asdd/profileinfo/anzlic-theme.xml#anzlic-theme

Cited Responsible Party
Responsible Party
Organisation Name
ANZLIC the Spatial Information Council

Role
Role Code
custodian

Resource Constraints
Legal Constraints
Use Limitation
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Language
eng

Character Set
Character Set Code
utf8

Topic Category Code

- environment
- Extent
  - EX _ Extent
    - Geographic Element
      - EX _ Geographic Description
        - Identifier
          - Authority
            - Citation
              - Title
                - ANZMet Lite Country codelist
              - Date
              - Edition
                - Version 1.0
              - Edition Date
                - Date
                  - 2009-03-31
              - Identifier
                - Identifier
                  - Code
                    - http://asdd.ga.gov.au/asdd/profileinfo/anzlic-country.xml#Country
              - Cited Responsible Party
                - Responsible Party
                  - Organisation Name
                    - ANZLIC the Spatial Information Council
                  - Role
                    - Role Code
                      - custodian
            - Code
              - nzl
- Extent
  - EX _ Extent
    - Geographic Element
      - EX _ Geographic Bounding Box
        - 167.534694771177.881584208-46.6296622637-35.0386283946

Distribution Info
- Distribution
  - Transfer Options
    - Digital Transfer Options
      - On Line
        - Online Resource

- Linkage
  - URL
    - https://data.mfe.govt.nz/layer/52696-dissolved-reactive-phosphorus-20092013/

- Data Quality Info
  - DQ _ Data Quality
    - Scope
      - DQ _ Scope
        - Level
          - Scope Code
            - dataset
        - Level Description
          - Scope Description
            - Other
              - dataset
    - Lineage
      - LI _ Lineage
        - Statement
          - Source: National Institute of Water and Atmospheric Research, regional councils Method: "In New Zealand, most phosphorus enters our rivers and lakes attached to eroded soil (Elliot et al 2005). While bound to sediment, it is not immediately available as a nutrient for plants and algae. However, over time and in the right conditions bound phosphorus can gradually dissolve, stimulating growth of aquatic algae for many years. Two forms of phosphorus are reported on: – Total Phosphorus, which accounts for all the phosphorus in our rivers regardless of the form it is in. This includes the portion which is dissolved and available to plants and algae now, and that which is bound to soil or sediment and may become available in the future. – Dissolved reactive phosphorus, indicates how much phosphorus is immediately available to support algae and plant growth. Samples for phosphorus analysis are collected from the river at fixed locations, and sent to a laboratory for chemical analysis. Estimates of median phosphorus across New Zealand is based on monthly or quarterly phosphorus concentrations from the 16 regional councils (500 and 442 river sites for total phosphorus and dissolved reactive phosphorus respectively) and 77 sites along 35 major rivers measured monthly by NIWA. This is inferred from the predominant land cover in a catchment and the surrounding landscape characteristics, such as, climate, elevation, and geology. The accuracy of the data source is of high quality. Reference: Elliott, AH, Alexander, RB, Schwartz, GE, Shanker, U, Sukias, JPS, & McBride, GB (2005). Estimation of nutrient sources and transport for New Zealand using the hybrid mechanistic–statistical model SPARROW. Journal of Hydrology (NZ), 44(1), 1–27."

- Metadata Constraints
  - Legal Constraints
    - Use Limitation

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