



Total Nitrogen, 2009–2013

Metadata

File Identifier

8a0980fd-4112-6942-d20f-f0142896e193

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
Total Nitrogen, 2009–2013
Date

Abstract

"Small amounts of nitrogen are a natural component of healthy rivers. Nitrogen in rivers can vary due to differences in land use, climate, elevation, and geology. Nitrogen is transferred from land to water and is cycled through different forms, which can have different effects. Moderate concentrations of nitrate can cause weeds and algae to grow too fast. High concentrations of ammoniacal and nitrate nitrogen can be toxic to fish and other aquatic animals. This dataset relates to the ""Geographic pattern of nitrogen in river water"" measure on the Environmental Indicators, Te taiao Aotearoa website. "

Status

Progress Code
completed

Point Of Contact

Responsible Party
Organisation Name
Environmental Reporting, Ministry for the Environment and Statistics New Zealand
Position Name

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Role

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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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Access Constraints

Restriction Code

license

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Restriction Code

license

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

167.534694771177.881584208-46.4649367605-35.0386283946

Distribution Info

Distribution

Transfer Options

Digital Transfer Options

On Line

Online Resource

Linkage

URL

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: "Nitrogen is measured in laboratories. Samples are collected from the river at fixed locations once a month, and sent to a laboratory for chemical analysis. Estimates of median nitrogen across New Zealand is based on measurements from the 16 regional councils (277, 510, and 288 river sites for total nitrogen, nitrate nitrogen, and ammoniacal nitrogen respectively), and 77 sites along 35 major rivers measured by the National Institute of Water and Atmospheric Research (NIWA). Nitrogen occurs as several forms in the environment. The following forms are reported: – Total Nitrogen (TN) is the sum of all nitrogen found in a river water sample, including organic nitrogen from plant tissue. – Nitrate is highly soluble (dissolves in water) and so can readily be used by plants and algae to help them grow. Because of this solubility it can also leach through soils very easily, particularly where soils are sandy or after heavy rainfall (McDowell et al 2008). Sources include excessive application of inorganic fertilizer, stock urine, septic tanks and leaking sewage systems. It is measured and reported as the elemental nitrogen equivalent, described as nitrate–nitrogen (NO₃–N). – Ammoniacal nitrogen can be toxic at moderate to high concentrations. Elevated quantities in waterways are primarily from direct pollutant discharges such as untreated effluent. We are unable to reliably estimate trends in ammonia concentration prior to 1995 due to a subsequent change in laboratory procedures. Ammoniacal nitrogen includes readily available forms of ammonia and ammonium. These are collectively reported as the elemental nitrogen equivalent; ammoniacal nitrogen (NH₄–N). 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 medium quality. Reference: McDowell, RW, Houlbrooke, DJ, Muirhead, RW, Müller, K, Shepherd, M, & Cuttle, SP (2008). Grazed pastures and surface water quality. New York: Nova Science Publishers."

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