



Observed streambed sedimentation, 1990–2011

Metadata

File Identifier

b225081f-ac50-a8e3-3778-5f2b18b552e0

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

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Delivery Point

23 Kate Sheppard Place, PO Box 10362

City

Wellington 6143

Country

New Zealand

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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
Observed streambed sedimentation, 1990–2011
Date

Abstract

"Fine sediment is the collective term for inorganic particles deposited on the streambed less than 2mm in size. Urban development and agriculture and forestry around waterways can increase the amount of sediment entering river systems. Sedimentation can clog space between pebbles that are used by aquatic insects and fish, alter food sources, and remove sites used for egg laying. Excess sediment can affect the appeal of rivers and streams for recreation. This dataset relates to the ""Streambed sedimentation"" measure on the Environmental Indicators, Te taiao Aotearoa website. Field names NZREACH Stream segment label SEDO Predicted observed percentage fine sediment cover, i.e. contemporary state SEDE Predicted expected percentage fine sediment cover, i.e. reference state. "

Status

Progress Code
completed

Point Of Contact

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

Zealand

Position Name

Analyst

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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-Hydrology

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

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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

| 166.500105121178.540685043-47.2304699662-34.3966280842

Distribution Info

Distribution

Transfer Options

Digital Transfer Options

On Line

Online Resource

Linkage

URL

<https://data.mfe.govt.nz/layer/52678-observed-streambed-sedimentation-19902011/>

Data Quality Info

DQ _ Data Quality

Scope

DQ _ Scope

Level

Scope Code

dataset

Level Description

Scope Description

Other

dataset

Lineage

LI _ Lineage

Statement

Source: Clapcott et al. 2011 Method: "Using the Wentworth (1922) classification system, fine sediment is characterised by particle size as mud and silt (<0.0625 mm) and sand (0.0625–2 mm). Some New Zealand stream beds are naturally dominated by fine sediment, although these are usually very small with low slopes, low rainfall, and on sandy soils Stream bed sedimentation is typically measured by visually estimating the proportion of the river bed covered by different sized substrates. This information is collected during fish surveys, and is stored in the Freshwater Fish database managed by NIWA. Observed in-stream sediment values for 10,026 sites are reported, dating from 1990 to 2011, in order to derive contemporary cover. The exception was Fiordland where all available information (1970 to 2011) was used to fill a representation gap. A regression model was used to predict the relative proportion of fine sediment cover in every stream in New Zealand. This is inferred from the measured percent of fine sediment cover and predictors such as the slope of the river, climate and catchment land cover. The accuracy of the data source is of medium quality. For further information please see: Clapcott, J.E., Young, R.G., Harding, J.S., Matthaei, C.D., Quinn, J.M., and Death, R.G. (2011) 'Sediment Assessment Methods: Protocols and guidelines for assessing the effects of deposited fine sediment on in-stream values.' (Cawthron Institute: Nelson, New Zealand) Wentworth, C (1922). A scale of grade and class terms for clastic sediments. *Journal of Geology*, 30(5), 377–392. Available from www.jstor.org. "

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