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Nitrification is a microbial process by which reduced nitrogen compounds (primarily

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ammonia) are sequentially oxidized to nitrite and nitrate.

Ammonia is present in drinking water through either naturally-occurring processes or through ammonia addition during secondary disinfection to form chloramines.

Nitrification - epa.gov

Discussion on

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nitrification in drinking water distribution systems Discussion on nitrification in drinking water distribution systems. M68 will help drinking water utilities and professionals understand the factors that affect water quality, ways to address them and best practices for optimizing distribution system water quality.

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Nitrification | Science Inventory | US EPA

Nitrification as part of the water treatment process can occur whenever ammonia is present in or added to the source water, and water is not initially free chlorinated to achieve breakpoint. Nitrification can be either controlled or uncontrolled.

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Controlled nitrification
may be conducted, for
example,...

**Nitrification in Water
and Wastewater
Treatment | Science ...**

United States
Environmental
Protection Agency
Office of Water
Washington, D.C. EPA
832-F-00-015
September 2000

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Wastewater Technology
Fact Sheet Trickling
Filter Nitrification
DESCRIPTION

Nitrogen is one of the principal nutrients found in wastewater.

Discharges containing nitrogen can severely damage a water resource and it's associated ...

**Wastewater
Technology Fact**

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**Sheet: Trickling ... -
US EPA**

This technology is a treatment system for drinking water with elevated levels of ammonia. It combines aeration and biological filtration to oxidize excessive levels of ammonia in drinking water. At the same time, the technology avoids nitrification in the

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distribution system and
other problems ...

**EPA Technology
Available for
Licensing: Biological
Filter ...**

To assure complete
denitrification,
nitrification must also
be complete. -----

Nitrification is
performed by
chemoautotrophic

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bacteria, which fix CO₂ as a source of carbon for cell material and obtain energy for the process by oxidizing inorganic substrates. Two groups of the chemoautotrophs are distinguished,...

**A Study of
Nitrification and
Denitrification - EPA**
Nitrification is a
biological process that

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converts ammonia to nitrite and nitrite to nitrate. If standards require that the resulting nitrate be removed, one treatment alternative is the process of denitrification, in which nitrate is reduced to nitrogen gas.

**Wastewater
Technology Fact Sheet
Denitrification Filters -**

Acces PDF Nitrification Us Epa **EPA**

EPA identifies
contaminants to regulate
in drinking water to
protect public health.

The Agency sets
regulatory limits for the
amounts of certain
contaminants in water
provided by public
water systems. These
contaminant standards
are required by the Safe
Drinking Water Act

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(SDWA). EPA works with states, tribes, and many other partners to implement these SDWA provisions.

Drinking Water Contaminants – Standards and Regulations ...

1.1 This method covers the determination of nitrite singly, or nitrite and nitrate combined in

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drinking, ground, surface, domestic and industrial wastes. 1.2 The applicable range is 0.05-10.0 mg/L nitrate-nitrite nitrogen. The range may be extended with sample dilution.

Method 353.2, Revision 2.0: Determination of Nitrate ...

Legionella: No limit,
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but EPA believes that if Giardia and viruses are removed/inactivated, according to the treatment techniques in the Surface Water Treatment Rule, Legionella will also be controlled.

National Primary Drinking Water Regulations | US EPA

----- FOREWORD The
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formation of the United States Environmental Protection Agency marked a new era of environmental awareness in America. This agency's goals are national in scope and encompass broad responsibility in the area of air and water pollution, solid wastes, pesticides, and radiation.

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**Process Design
Manual for Nitrogen
Control - EPA**

----- epa-625/4-73-004a

nitrification and
denitrification facilities

wastewater treatment

environmental

protection agency •

technology transfer

august 1973 ----- ACK

NOWLEDGMENTS

This seminar

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publication contains materials prepared for the U.S. Environmental Protection Agency Technology Transfer Program and has been presented at Technology ...

**Nitrification And
Denitrification
Facilities Wastewater
...**

The purpose of a
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Nitrification Action Plan (NAP) is to ensure that chloramine disinfection is successful by preventing and/or responding to nitrification.

Nitrification Action Plan (NAP) Summary - TCEQ

United States
Environmental
Protection Agency

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Office of Research and
Development Office of
Water Washington, DC
20460

EPA/625/R-93/010

September 1993 Manual
Nitrogen Control ----- ...

Nitrification is the
biological oxidation of
ammonium. This is
done in two steps, first
to the nitrite form, then
to the nitrate form.

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**Process Design
Manual: Nitrogen
Control - EPA**

Nitrification is known to be more likely to occur in distribution systems where the chloramine residual is <2 mg/L (US EPA, 2002). This is likely because higher chloramine residuals enable better control of microorganisms in the water.

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**NITRIFICATION IN
CHLORAMINATED
DRINKING WATER
SUPPLIES**

This IRIS assessment for Nitrate consists of hazard identification and dose-response assessment data and provides support for EPA risk ... Jump to main content. US EPA. United States

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Environmental
Protection Agency.
Search Search. ...
Nitrate CASRN
14797-55-8. IRIS
Summary (PDF) (12 pp,
106 K) Status:
Development of the
nitrate (re)assessment ...

Nitrate CASRN
14797-55-8 | IRIS | US
EPA, ORD

The purpose of a
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Nitrification Action Plan, or a NAP, is to ensure that chloramine disinfection is successful by preventing and/or responding to nitrification. This document will help you develop your system's site-specific NAP and establish action levels to detect and prevent nitrification.

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**Nitrification Action
Plan (NAP) Guidance**

The purpose of a
Nitrification Action
Plan (NAP) is to ensure
that chloramine
disinfection is
successful by preventing
and/or responding to
nitrification. TCEQ has
developed a one-page
NAP Guidance which
provides basic
information about

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developing a NAP. A longer NAP Summary document provides a more in-depth discussion of NAPs.

Controlling Nitrification in Public Water Systems with ...

the system. Significant nitrification will occur during the summer months if adequate dissolved oxygen is

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applied. Many systems designed only for BOD removal fail to meet discharge standards during the summer because of a shortage of dissolved oxygen.

Nitrification of ammonia and BOD removal occur simultaneously and systems can become oxygen limited.

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United States

**Environmental
Protection Agency
Wastewater ...**

Biological nitrogen removal (BNR) is performed by autotrophic nitrification, which has been shown to be sensitive to the presence of heavy metals in wastewater treatment plants (WWTPs). In this

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research, the effect of copper on the relative expression of functional genes involved in redox nitrogen transformations were examined in nitrifying enrichment cultures.

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