



Naples Public Health Evaluation (NPHE)

Between 2008 and 2011 the Navy Marine Corps Public Health Center oversaw a comprehensive Public Health Evaluation for the areas in and around Naples. In part this was to ensure DoD civilians and military Personnel were living in a healthy environment that met compliance standards similar to what they have at home.

This presentation provides important information related to the Naples Public Health Evaluation, including:

- Results: Included analysis of water, soil, and soil vapor & air**
- Processes to reduce potential public health risks**



Water

Based on the findings of the NPHE, water at all NSA Naples facilities, except Gaeta port, are fit for human consumption.

Things to Know:

- Water at every facility is regularly tested. Information and results of the tests can be found in the consumer confidence reports published each year by July 1st for every facility (except Gaeta port) are available at:
https://www.cnic.navy.mil/regions/cnreurafcnt/installations/nsa_naples/om/environmental_support/drinking_water_consumer_confidence_report.html
- Bottled water is not required for on-base residents, and is not provided.
- Irrigation water is **NOT** fit for human or pet consumption or recreational purposes at any NSA Naples installation. It should be used only for irrigation.



Bottled Water

All off-base housing lease agreements through NSA Naples Housing Office include a requirement for Landlords to provide containerized (bottled) water from a Navy-approved vendor.

4 Liters per person per day

For a family of 5, this = 20 L Daily → 600 L Monthly →
7,300 L annually

For those working at Gaeta or living off base, NMCPHC approved sources include:

Acqua Minerale San Benedetto
S.p.A.

San Pellegrino S.p.A. Levissima
Plant

Acque Minerali d'Italia S.p.A.

San Pellegrino S.p.A. Acqua Vera

Gran Guizza S.p.A.

Spumador S.p.A.

Culligan Vicenza AAFES Water
Plant



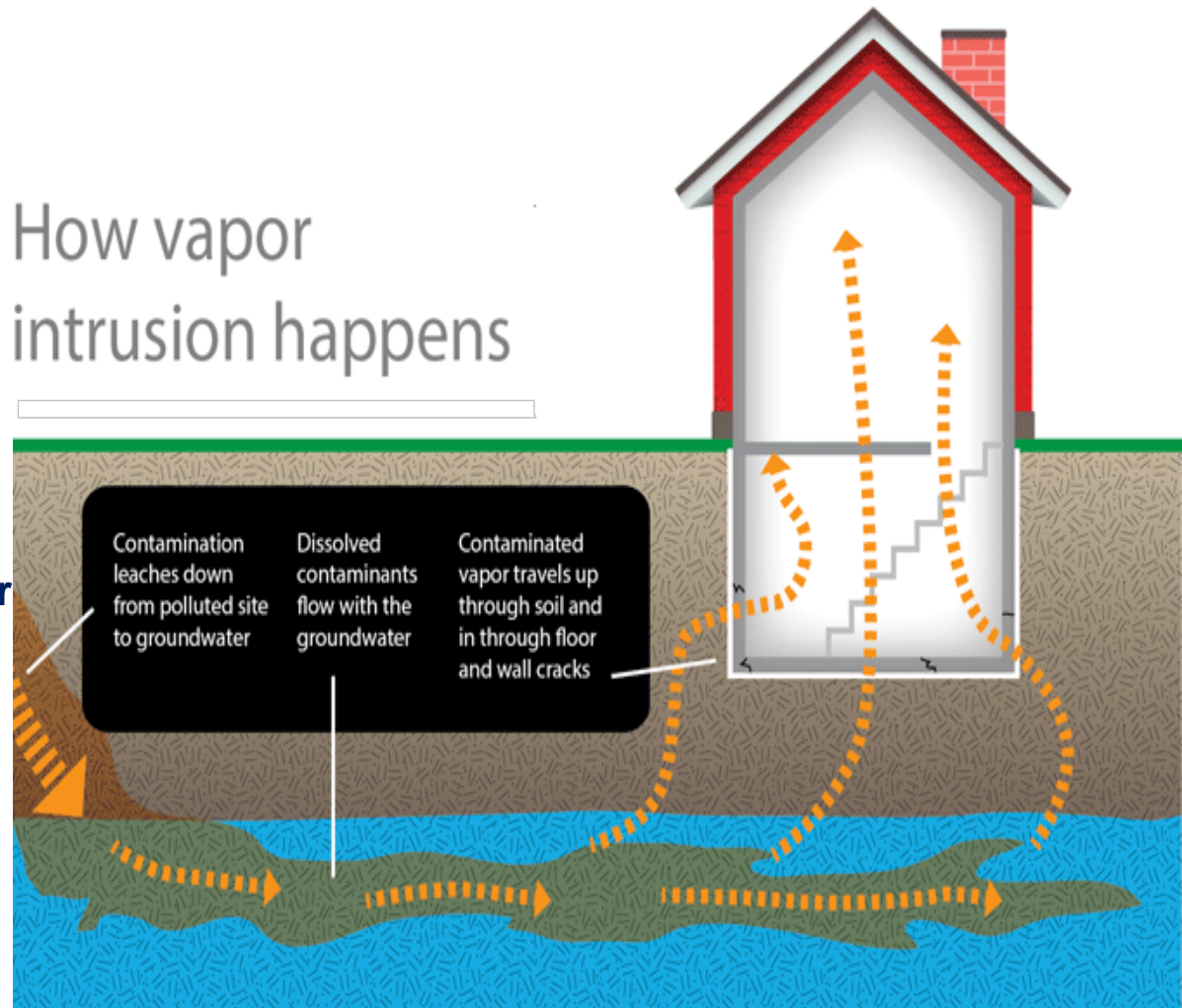
Soil/Soil Gas (Vapor Intrusion)

• Vapor intrusion

Things you can do to help prevent the possibility of vapor intrusion into a home you select:

- The higher you live, the less risk you have from vapor intrusion. Look for homes where the living space is higher than the ground floor.
- Avoid living in Basements.
- When practical, ventilate the home by opening windows to increase the rate of air exchange.

How vapor intrusion happens





Air Quality

Aversa scuola Cirillo, Aversa, Campania Air Pollution: Real-time Air Quality Index (AQI)

AVERSA SCUOLA
CIRILLO, AVERSA,

CASORIA SCUOLA
PALIZZI (CAM),

OSSERVATORIO
ASTRONOMICO,

OSPEDALE
SANTOBONO,

MUSEO
NAZIONALE,

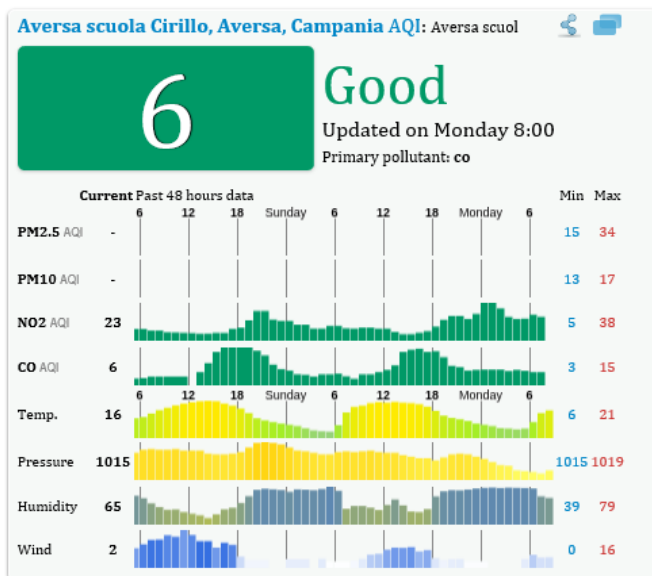
ENTE FERROVIE,
NAPOLI, CAMPANIA



LOCATE THE
NEAREST CITY



SEARCH FOR
YOUR CITY



<https://aqicn.org/city/italy/campania/aversa/aversa-scuola-cirillo/>



Air Quality (continued)



World Air Quality

Community

<https://www.iqair.com/italy/campania/naples>



City

World > Italy > Campania > Naples

Air quality in Naples

Air quality index (AQI) and PM2.5 air pollution in Naples

US AQI

12

Good



OVERVIEW

What is the current air quality in Naples?

Air pollution level	Air quality index	Main pollutant
Good	12 US AQI	O3

Pollutants

Concentration

O3		30.4 $\mu\text{g}/\text{m}^3$
NO2		36 $\mu\text{g}/\text{m}^3$
CO		500 $\mu\text{g}/\text{m}^3$



Naples Public Health Evaluation Website

https://www.cnic.navy.mil/regions/cnreurafcent/installations/nsa_naples/about/health_awareness.html

A screenshot of the CNIC Naval Support Activity Naples website. The browser address bar shows the URL: https://www.cnic.navy.mil/regions/cnreurafcent/installations/nsa_naples/about/health_awareness/faq.html. The website header includes the CNIC logo and the text "CNIC Naval Support Activity Naples". A search bar is located in the top right corner. A navigation bar below the header contains a "NEWS" dropdown menu and a "Region or Installation" link. The main content area is titled "Naval Support Activity Naples > About > Health Awareness > FAQ". On the left side, there is a vertical menu with the following items: History, Mission and Vision, Biographies, Organization Chart, Tenant Commands, Departments, Health Awareness (selected), FAQ, Fact Sheets, Links, Maps of Lease Suspension Zones, Installation Guide, Press Room, Sala Stampa, and Visa Requirements. The "Health Awareness" dropdown menu is open, showing the "FAQ" option. The main content area displays the "FAQ" section, titled "Naples Public Health Evaluation Frequently Asked Questions". The first question is "Q. When did the Naples Health Evaluation begin?". The answer states that in response to health concerns expressed by U.S. Navy personnel in 2007, the Commander, Navy Region Europe, Africa, Southwest Asia (CNREURAFSWA) contacted the Navy and Marine Corps Public Health Center (NMCPHC) to conduct a comprehensive Public Health Evaluation to assess the potential health risks for U.S. personnel living in the Naples area. The evaluation began in January 2008 and was completed in June 2011. The second question is "Q. What was the purpose of the Naples Public Health Evaluation?". The answer states that it was conducted as part of the Navy's commitment to ensuring military and civilian families' health and safety. The Campania region of Italy has experienced various environmental challenges including episodic trash collection problems and widespread uncontrolled dumping of waste. In response to health concerns expressed by Navy personnel and their families and news articles in the Italian science and news media, CNREURAFSWA determined that a thorough evaluation should be conducted to determine if the waste practices in the Campania region posed a health risk to our military population. The third question is "Q. What was involved in the Naples Public Health Evaluation?". The answer states that the Naples Public Health Evaluation was designed to determine and characterize what chemicals have been released into the environment, in what concentrations and in what locations. Once that was determined, the Navy evaluated how people might come into contact with the chemicals in the environment, how exposure to it might affect people's health and what actions would be needed to protect the health and safety of our U.S. personnel and their families. To answer these questions, the Navy evaluated: [The text is partially obscured by a large red arrow pointing left towards the "FAQ" link in the left-hand menu.]

Access to the FAQ and full report found on the NSA Naples CNIC webpage, under the Health Awareness dropdown menu.



NPHE Real Time Actions

Navy Leadership implemented many risk reduction actions from the very start, as results became available.

In 2008, the Navy

- Issued bottled water advisory
- Obtained emergency funding for bottled water
- Paid for personnel to be moved from unacceptable areas
- Required landlords to provide containerized water

Other protective processes established during the NPHE

- New Lease Suspension Zones
- Health protective lease clauses
- Health information updates
- Naples Community Health Awareness website
- Health Information Education and Counseling

Creation of an Enduring Processes Working Group



“Enduring Processes”

Enduring process working group

- U.S. Naval Hospital, Naples - Preventative Medicine
- NSA Naples Housing & Public Affairs
- Installation & Region Environmental offices

COMNAVREGEURAFCENT INST 6500.1. – establishes processes and responsibilities for implementation of an Enduring Process to further reduce or eliminate potential public health risks

Enduring Processes Ensure

- NSA Naples Commanding Officer Involvement
- Maintenance of prohibited lease areas (New Lease Suspension Zones [NLSZs])
- Health-protective lease clauses
- Public Awareness/Communication/Outreach
- Public health education and counseling
- Monitoring of Italian environmental and health-related information
- Program review of Enduring Processes (Continual Improvement)



“Enduring Processes”

Enduring Processes implemented by NSA Naples Housing Office

- Provide NPHE-Related Housing information during Area Orientation
- Ensure health-protective measures for off-base housing are communicated, recorded in lease, as required, and assessed for effectiveness.
- Maintain the New Lease Suspension Zones (NLSZs); display NLSZ maps, discuss with all tenants, and ensure that no homes are rented within NLSZs
- Maintain the Bottled Water Advisory for U.S. personnel living off-base
- Include lease language that requires the landlord to:
 - Provide bottled water (4 liters per person per day)
 - Ensure all leased homes supplied by city drinking water and are disconnected from all wells
 - Clean/disinfect domestic drinking water holding tanks, if present, every 6 months
 - Provide proof of connection to the city drinking water system
- Provide targeted health information to personnel residing off-base >6 years.



Naples Public Health Evaluation Closing Remarks

The U.S. Navy is committed to ensuring our families are safe while serving at home or overseas.

- **This presentation aligns with Naval Support Activity Naples' commitment to promoting awareness of important health information.**
- **NSA Naples implements Enduring Processes to reduce or eliminate potential public health risks Identified during the Naples Public Health Evaluation.**

Additional Information is available from :

- **Prev Med**
sn.naples.navhospnaplesit.list.preventive-medicine@mail.mil
- **Housing trouble desk;**
DSN 629-4285/6 or Comm'l 081-811-4285/6
(Hours Mon-Fri, 07:30-16:30)
- **Installation Environmental**
DSN 626-6644 Comm'l 081-568-6644



Naples Public Health Evaluation

Thank you
for your
Time and Attention
