



# Why Is the Navy Sampling Drinking Water Wells Nationwide?

The Navy is addressing potential exposure to PFOA and PFOS in drinking water wells near Naval Weapons Station Seal Beach, Detachment Norco (Det. Norco).

- The Navy issued a policy in June 2016 to address PFOA and PFOS in drinking water.
- The Navy's primary historical source of PFOA and PFOS was firefighting foam.
  - No longer released during training and testing.
  - Currently used for lifesaving emergency measures.
- The Navy is investigating all installations to identify potential PFOA and/or PFOS exposure.

TO REQUEST DRINKING WATER WELL SAMPLING  
 leave a message at  
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 or email [norco.pfas@jacobs.com](mailto:norco.pfas@jacobs.com)

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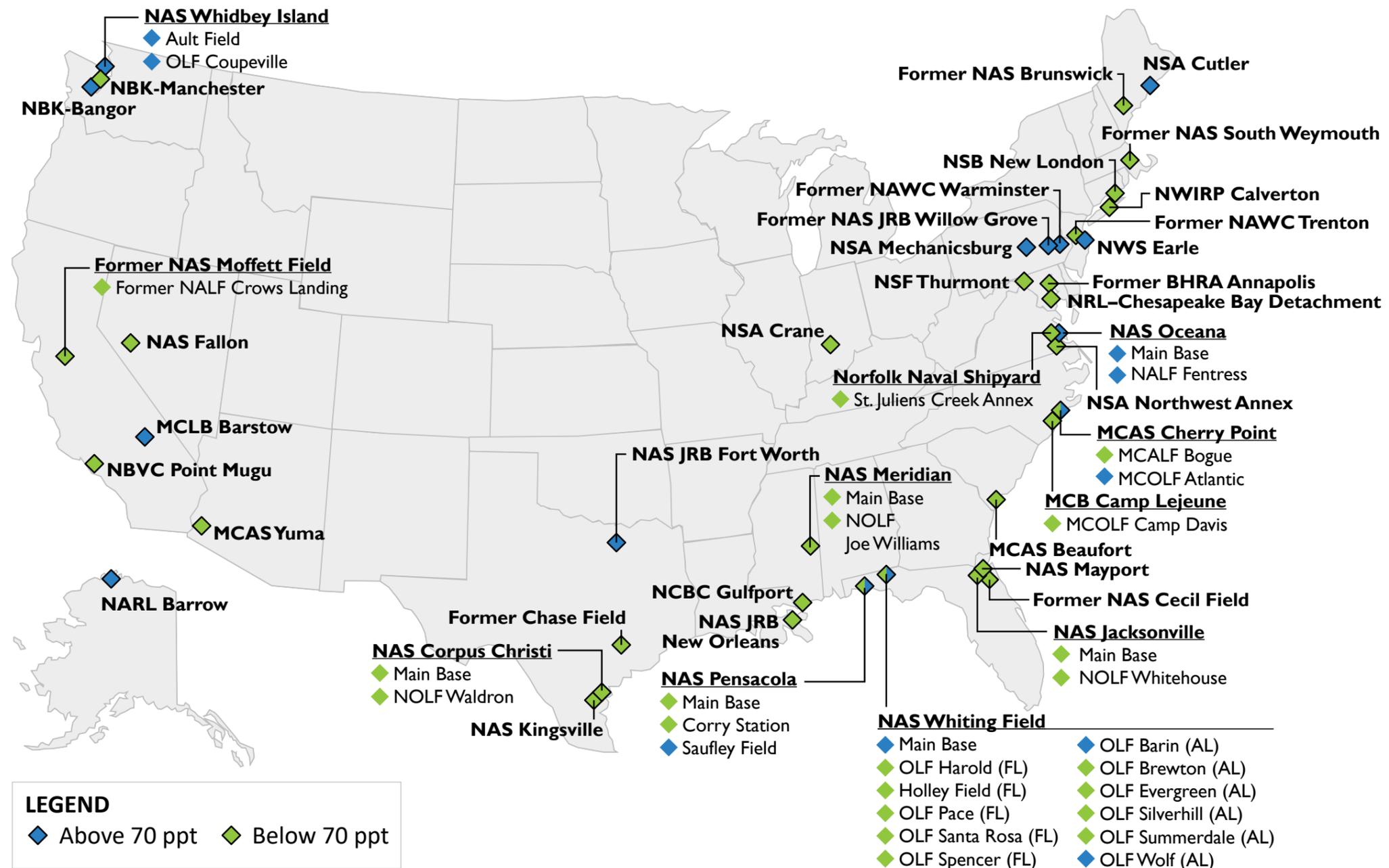


#### ACRONYMS & ABBREVIATIONS

Det.	Naval Weapons Station Seal Beach,	PFOA	perfluorooctanoic acid
Norco	Detachment Norco	PFOS	perfluorooctane sulfonic acid
EPA	U.S. Environmental Protection Agency	ppt	part(s) per trillion
PFAS	per- and polyfluoroalkyl substances		



# Off-Base Drinking Water Sampling for PFOA and PFOS Completed by the Navy



**The Navy will provide bottled water for drinking and cooking if PFOA and/or PFOS are above 70 ppt.**

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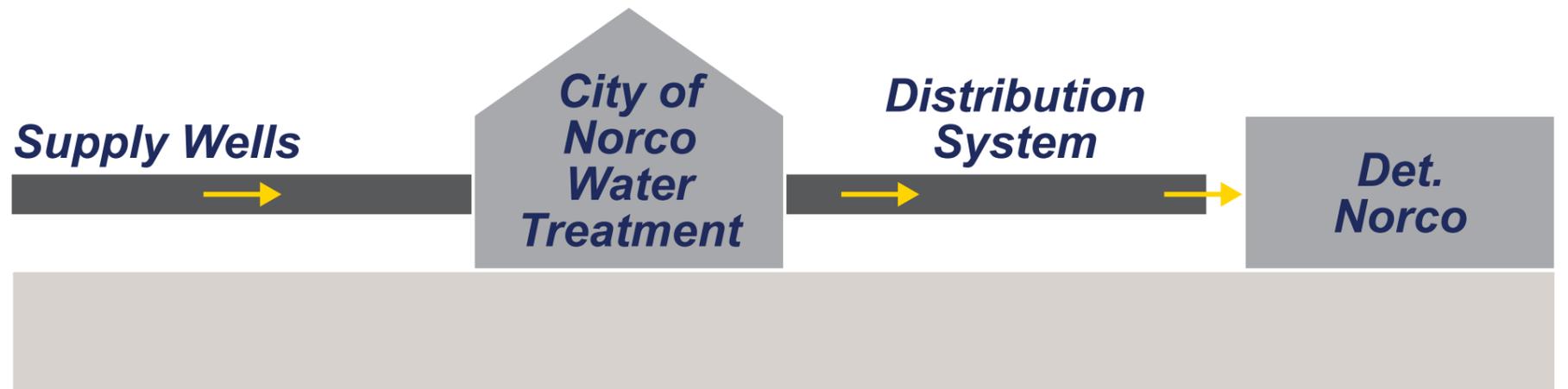


# On-Base Drinking Water

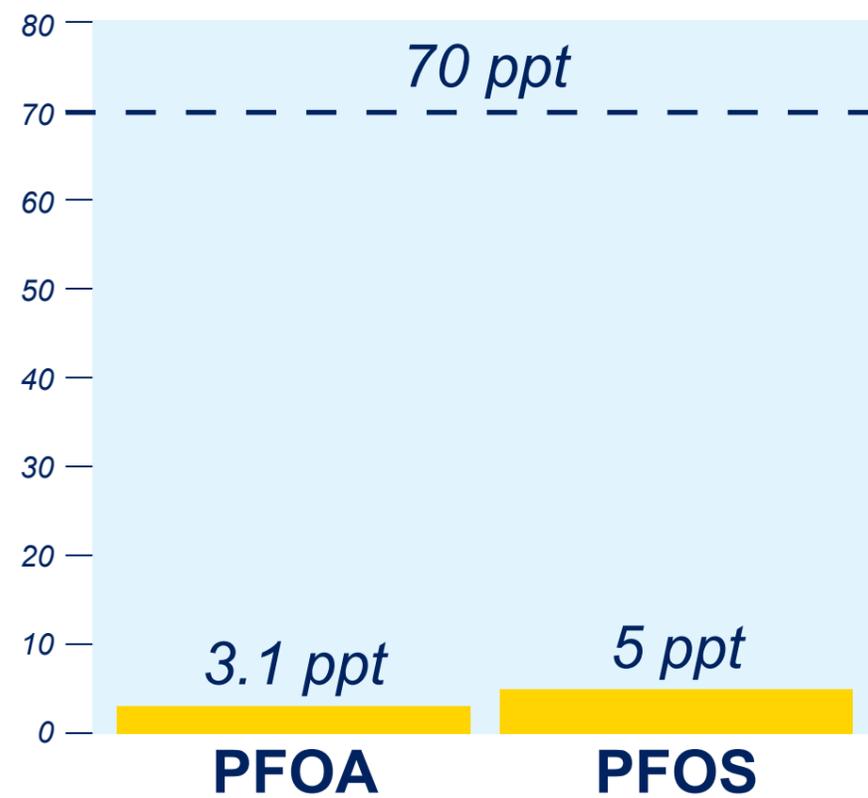
- Supplied by the City of Norco
- Navy does not treat drinking water
- Navy regularly samples drinking water for residual chlorine and bacteria at three buildings

**Det. Norco's drinking water meets all state, federal, and Department of Defense standards**

## City of Norco and Det. Norco Water Distribution



## Det. Norco 2021 PFOA and PFOS Results



FOR MORE INFORMATION ABOUT DET. NORCO'S DRINKING WATER

scan the QR code ↓



or visit [https://media.defense.gov/2023/Jul/05/2003253959/-1/-1/1/CCR Addendum for Unregulated Consecutive Systems\\_Det Norco\\_CO.PDF](https://media.defense.gov/2023/Jul/05/2003253959/-1/-1/1/CCR_Addendum_for_Unregulated_Consecutive_Systems_Det_Norco_CO.PDF)

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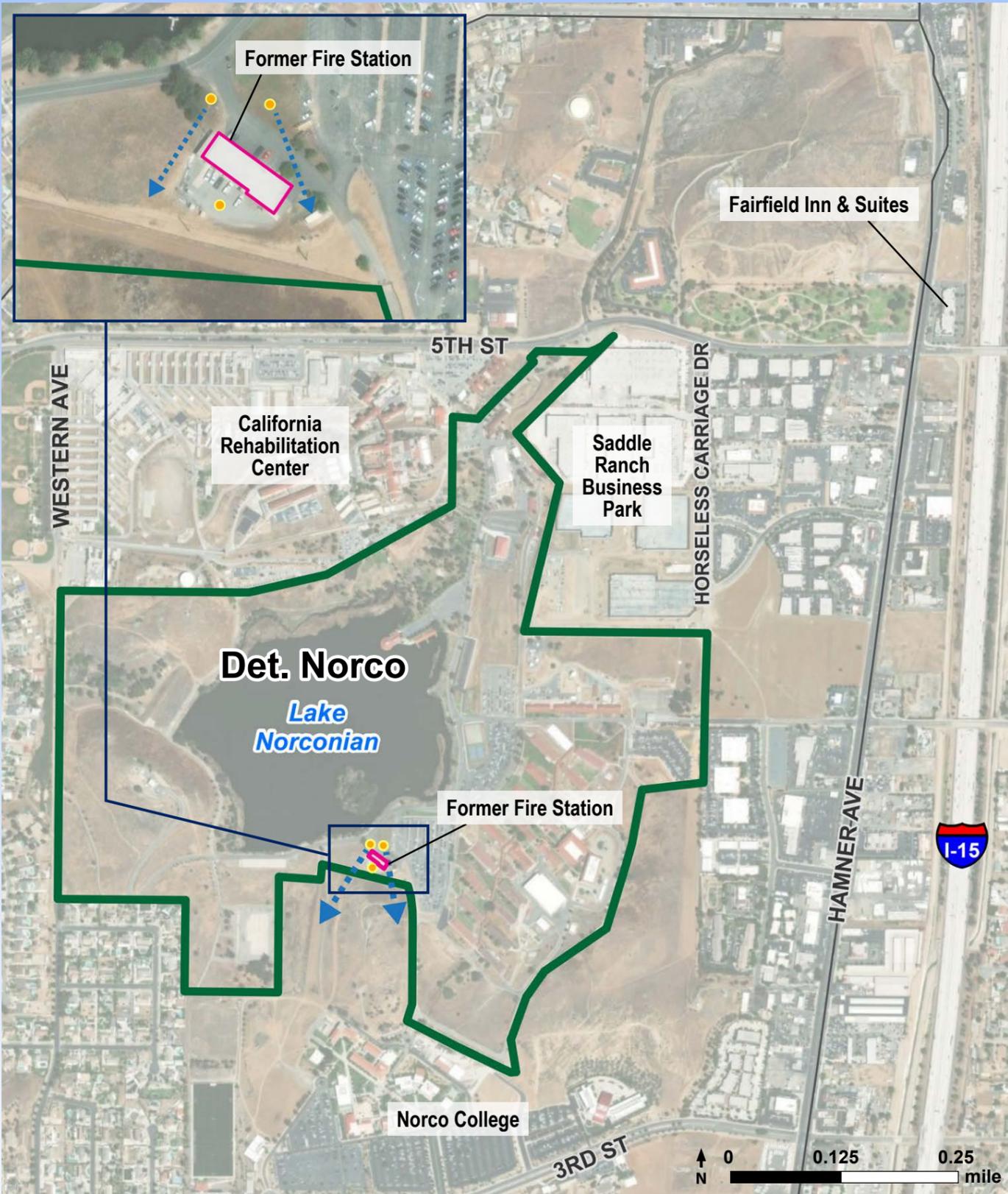


### ACRONYMS & ABBREVIATIONS

Det. Norco	Naval Weapons Station Seal Beach, Detachment Norco	PFOA	perfluorooctanoic acid
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PFAS	per- and polyfluoroalkyl substances	ppt	part(s) per trillion



# On-Base PFAS Investigation



- Former Fire Station Site Inspection Report will be finalized in 2024

FOR MORE INFORMATION access the Det. Norco Administrative Record at <https://go.usa.gov/xhrxN> or scan the QR code →



- Additional investigation being planned
- PFOA and PFOS found in groundwater above 70 ppt

## PFAS On-base concentration range

PFOA	469–15,000 ppt
PFOS	1,600–30,600 ppt

- Firefighting activities and firefighting foam storage no longer take place at Det. Norco

### LEGEND

- Current installation boundary
- Former Fire Station
- Groundwater monitoring well with detection of PFOA and/or PFOS above 70 ppt
- Groundwater flow direction

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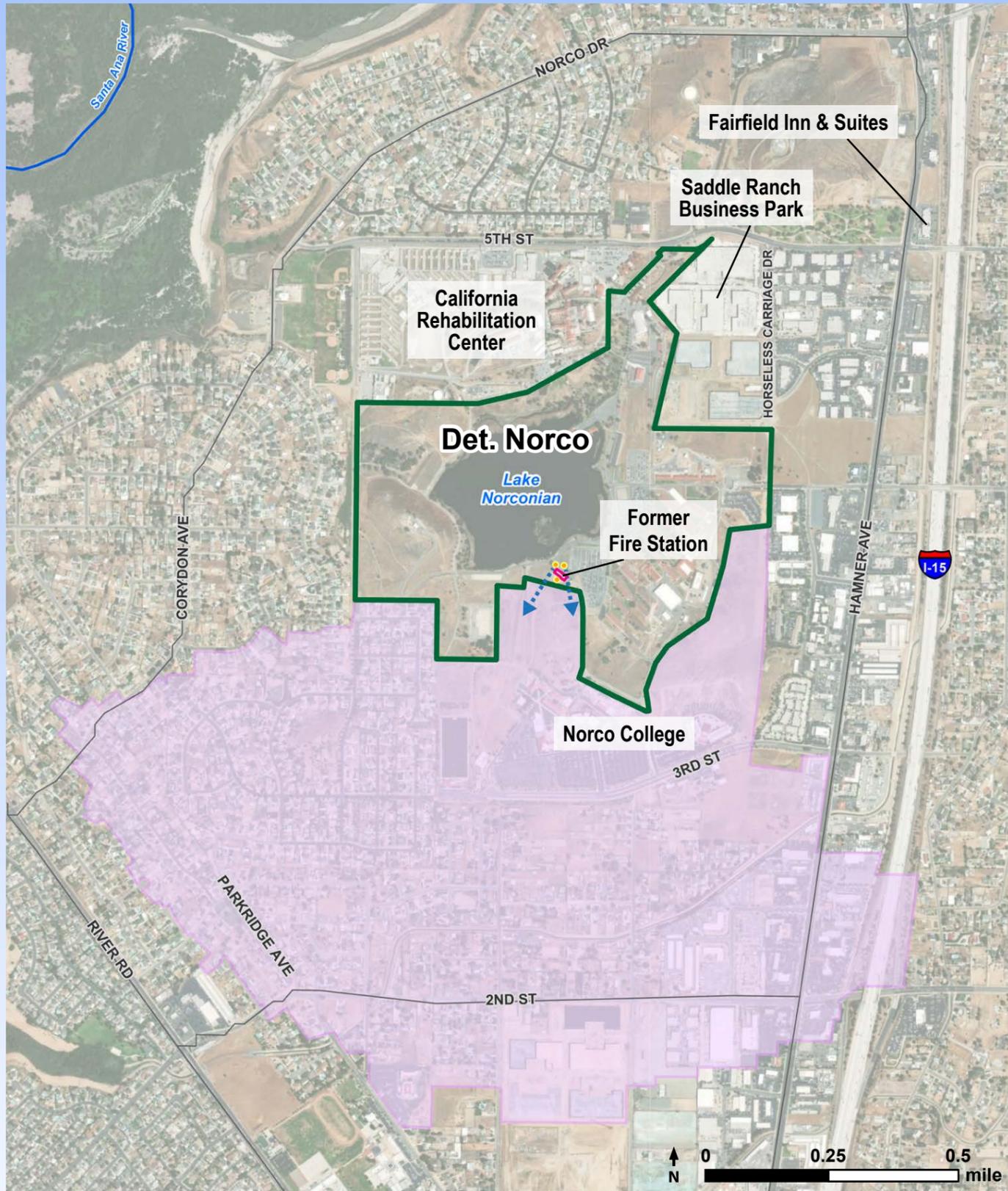


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# Off-Base Drinking Water Well Sampling



- Sampling area is in the direction of groundwater flow from where PFOA and/or PFOS above 70 ppt were found in groundwater on base.
- If your drinking water is provided by the City of Norco, the Navy does not need to sample your water.
- The Navy may expand the sampling area based on future testing and assessment.

## LEGEND

- Current installation boundary
- Former Fire Station
- Groundwater monitoring well with detection of PFOA and/or PFOS above 70 ppt
- Groundwater flow direction
- Parcels within sampling area

## Note:

Sampling area is in accordance with 2016 Navy policy. It includes all parcels within 1 mile in the direction that groundwater flows away from the Former Fire Station.

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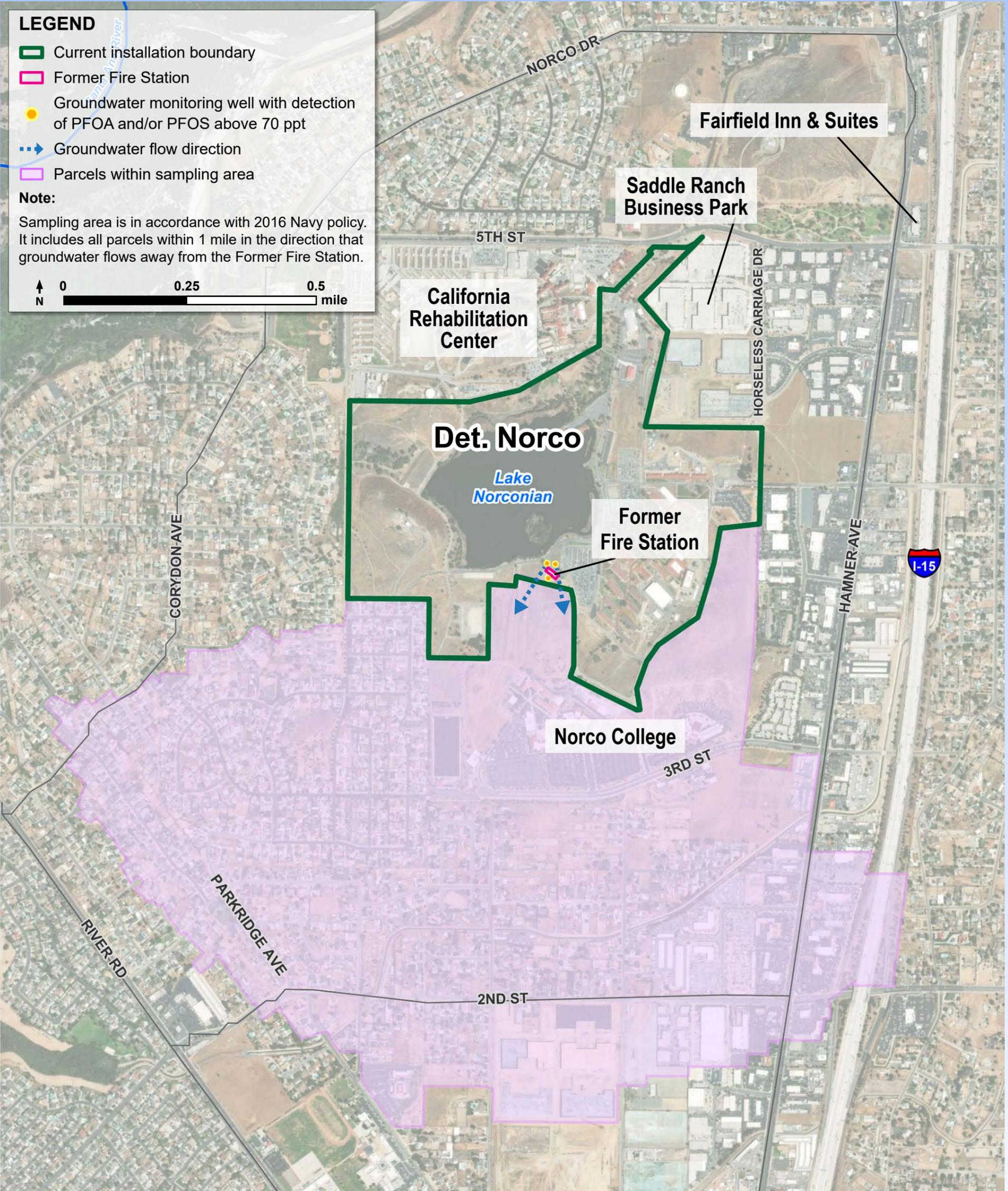


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# Exposure to Per- and Polyfluoroalkyl Substances (PFAS)

## What Are PFAS?

- Family of manmade chemicals.
- PFOA and PFOS are the most studied and understood.
- PFOA and PFOS have been phased out in consumer products.
- Found in the environment around the world (in air, water, soil, animals, plants, as well as in people).
- Last a long time in the environment.
- Widely used since 1950s in many products, such as:



firefighting foam



stain-resistant carpets and fabrics



water-resistant fabrics



personal care products



nonstick cookware



food packaging

## How Can People Be Exposed to PFAS?

- Everyone is exposed.
- PFAS may be in drinking water, food, indoor dust, some consumer products, and workplaces.
- Most non-occupational exposures occur by drinking water or eating food that contains PFAS.
- Exposure is minor through skin contact when bathing, showering, or swimming.
- Mothers with PFAS in their bodies can transfer PFAS to their fetuses or nursing infants.
- Based on current science, the benefits of breastfeeding appear to outweigh the risks for infants exposed to PFAS in breastmilk.

## How Can People Reduce Exposure to PFAS in Drinking Water?

- **Get your drinking water well tested.**
- Use an alternative water source for drinking, cooking, and making baby formula.
- Certain certified filters can reduce but not eliminate PFAS in drinking water.

**FOR MORE INFORMATION** about PFAS filtration systems certified by NSF International, a public health organization, visit <http://www.nsf.org> or scan the QR code →



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# PFAS Health Effects

**Chemical exposures do not necessarily lead to health effects.**

- Scientists are still learning about how exposure to PFAS might affect people's health.
- Exposure to PFAS could increase the risk of:
  - 🎗️ Certain types of cancers (testicular and kidney)
  - 👶 Lower infant birth weight and changes in growth
  - 👩 Higher blood pressure and preeclampsia in pregnant women
  - ❤️ Higher cholesterol levels
  - 📄 Changes in liver enzymes and thyroid effects
  - 📉 Lowered/decreased vaccine response



## Are Blood Tests Available for PFAS?

- Blood testing for PFAS is available but is not a regular test offered by a doctor.
- Blood test results **will not** tell you if PFAS exposure is associated with current or future health problems.

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# Environmental Cleanup Process

## PRIORITY: Protect Human Health and the Environment

- The Navy works closely with the California Environmental Protection Agency (CalEPA).
- Public input is welcome throughout the process and is formally requested at certain times.
- The structured regulatory process, shown below, is used to identify and clean up past environmental releases at Det. Norco.
- From beginning to end, this process will be lengthy.

 **WE ARE HERE**



- Evaluate potential releases.
- Determine amount and size of identified releases.
- Determine potential exposures and risks.

- Balance:
  - Length of cleanup
  - Regulatory and public input
  - Costs
- Request public input.

- Develop plan.
- Implement cleanup.
- Provide long-term management as needed.

- Achieve cleanup goals.
- Limit land use if needed.

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# Drinking Water Well Sampling and Results Timeline

Sequence of Events	Approximate Timeline
1. Navy receives preliminary results.	<ul style="list-style-type: none"> <li>■ Within 1 month after sample collected</li> </ul>
2. Navy calls property owner and tenant with results.	<ul style="list-style-type: none"> <li>■ Within 24 hours of results received by the Navy</li> </ul>
3. Bottled water delivered if PFOA and/or PFOS are above 70 ppt.	<ul style="list-style-type: none"> <li>■ Within 24 hours of results notification</li> </ul>
4. Navy mails final results to property owner and tenant.	<ul style="list-style-type: none"> <li>■ Within 3 months after sampling</li> </ul>

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# Sign Up for Your Drinking Water Well Sampling Appointment

## Sampling Appointment

- Sampling at no cost to you.
- Available daily **Wednesday, April 24,** through **Saturday, April 27, 2024, 8 a.m. to 5 p.m.**  
*Additional times are available upon request.*

## What We Need from You

- Right-of-Entry Agreement signed by property owner.
- Completed drinking water well questionnaire.
- Adult must be present at the property during sampling.

**The Navy will provide bottled water for drinking and cooking if PFOA and/or PFOS are above 70 ppt.**

## Sampling Process

- Samples collected by a team of two experienced contractors:
  - Takes less than an hour.
  - Collected as close to well as possible.
  - Water will run prior to sample collection.
- Samples will be collected and analyzed according to EPA guidelines.
- Team will take health precautions during sampling, if requested.

**To schedule an appointment after the Open House, leave a message at **1-855-NORCO-CA (1-855-667-2622)** or email **norco.pfas@jacobs.com.****

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