



# 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.

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leave a message at  
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or email [norco.pfas@jacobs.com](mailto:norco.pfas@jacobs.com)

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visit [www.navfac.navy.mil/DetNorco\\_Offbase\\_PFAS](http://www.navfac.navy.mil/DetNorco_Offbase_PFAS)  
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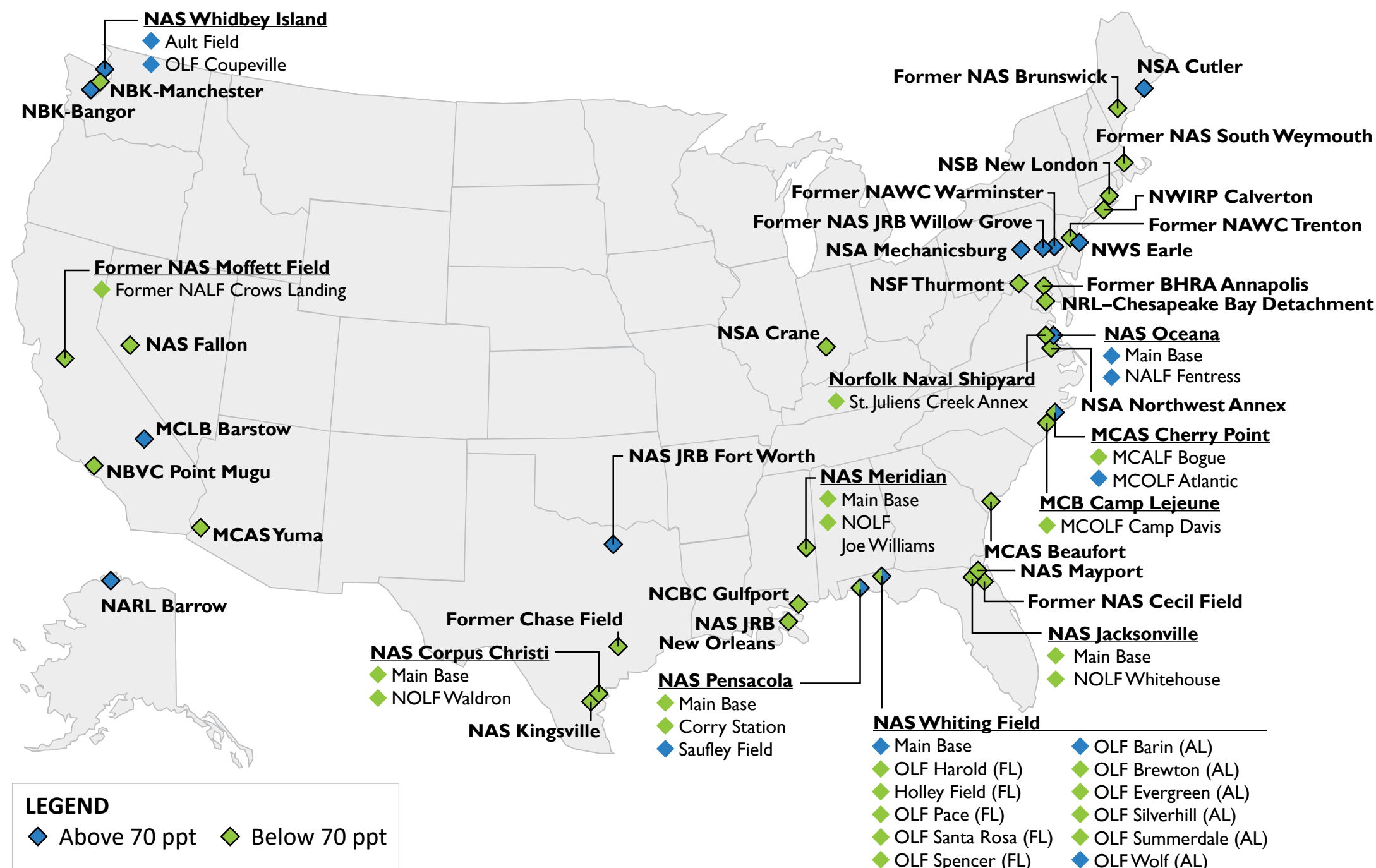


## ACRONYMS & ABBREVIATIONS

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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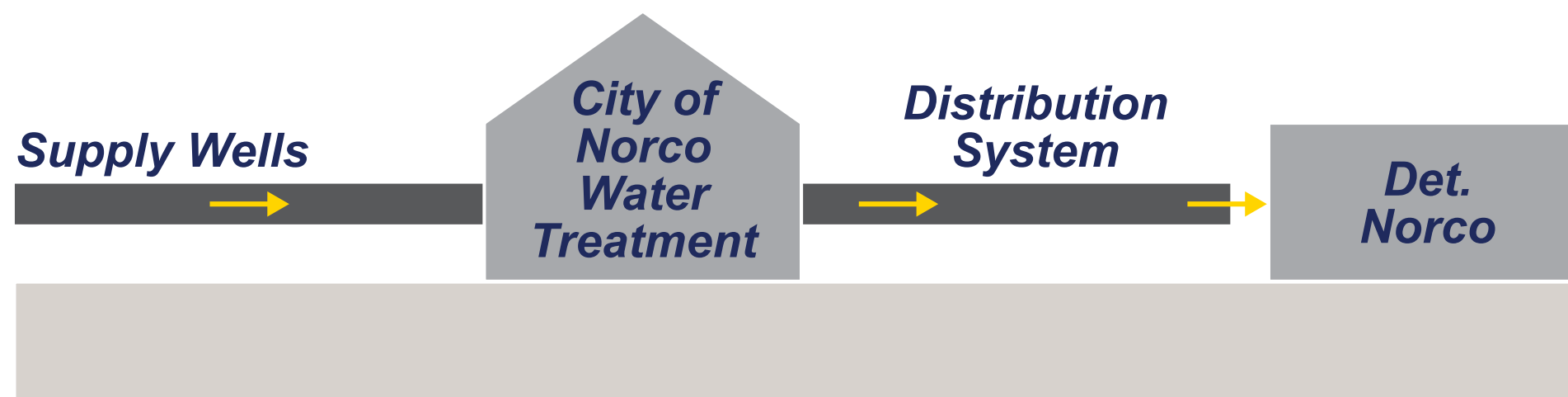


# On-Base Drinking Water

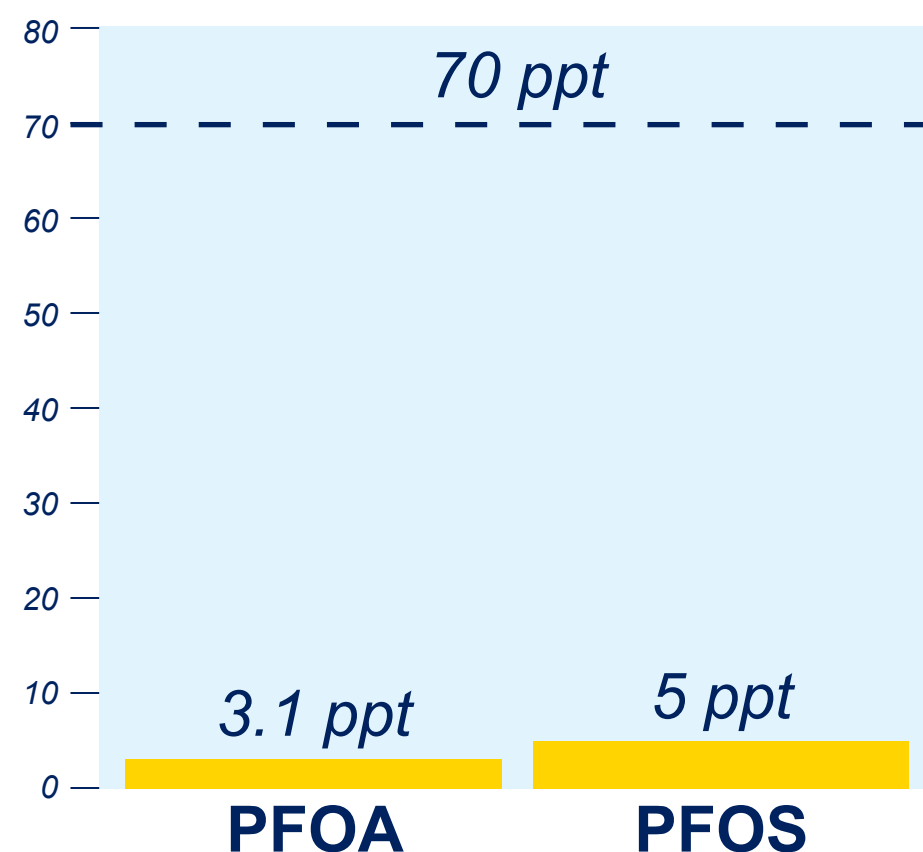
- Supplied by the City of Norco
- Navy does not treat drinking water
- Navy regularly samples drinking water for residual chlorine and bacteria at three buildings

**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%20Addendum%20for%20Unregulated%20Consecutive%20Systems_Det%20Norco_CO.PDF)

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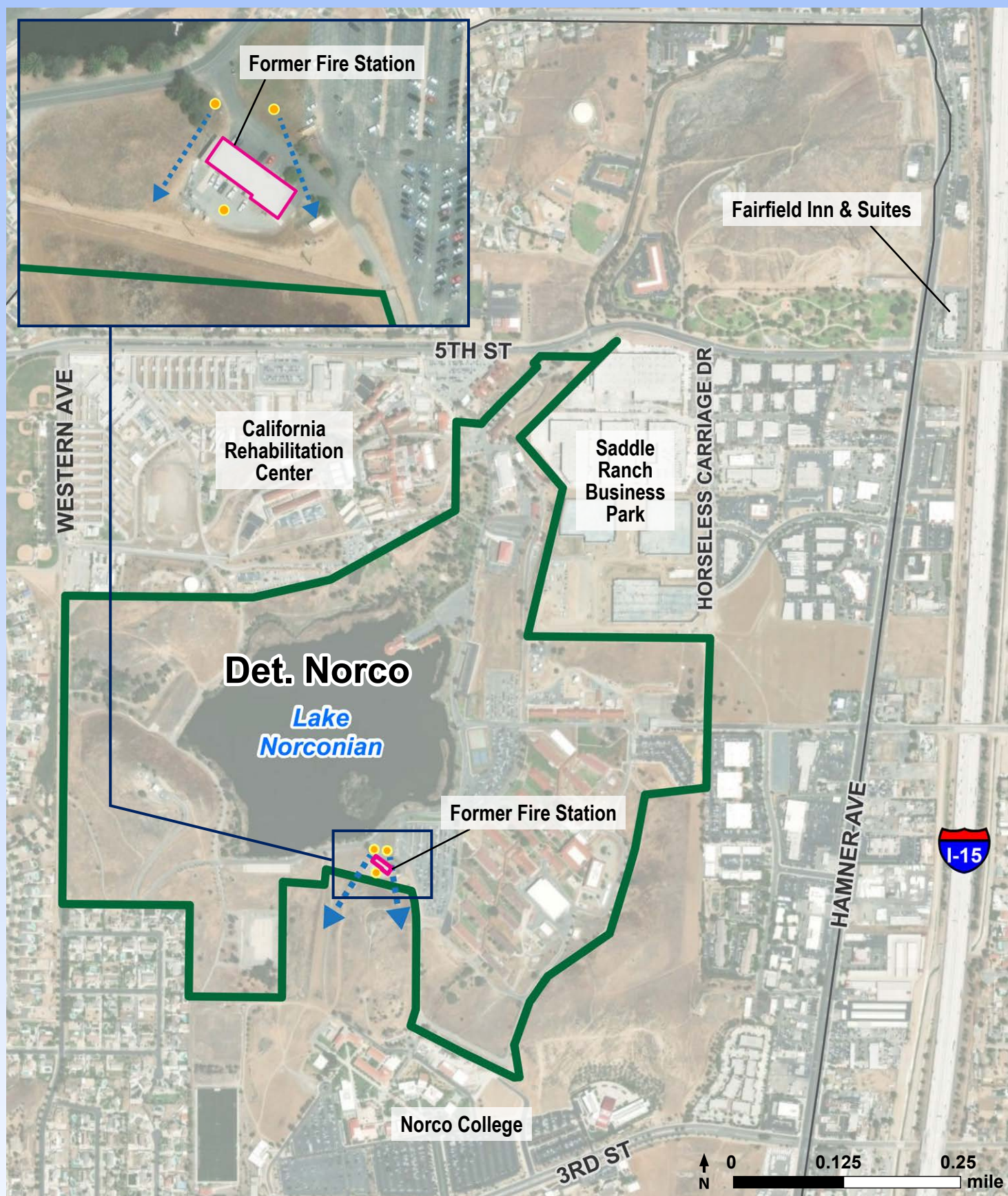
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# On-Base PFAS Investigation



- 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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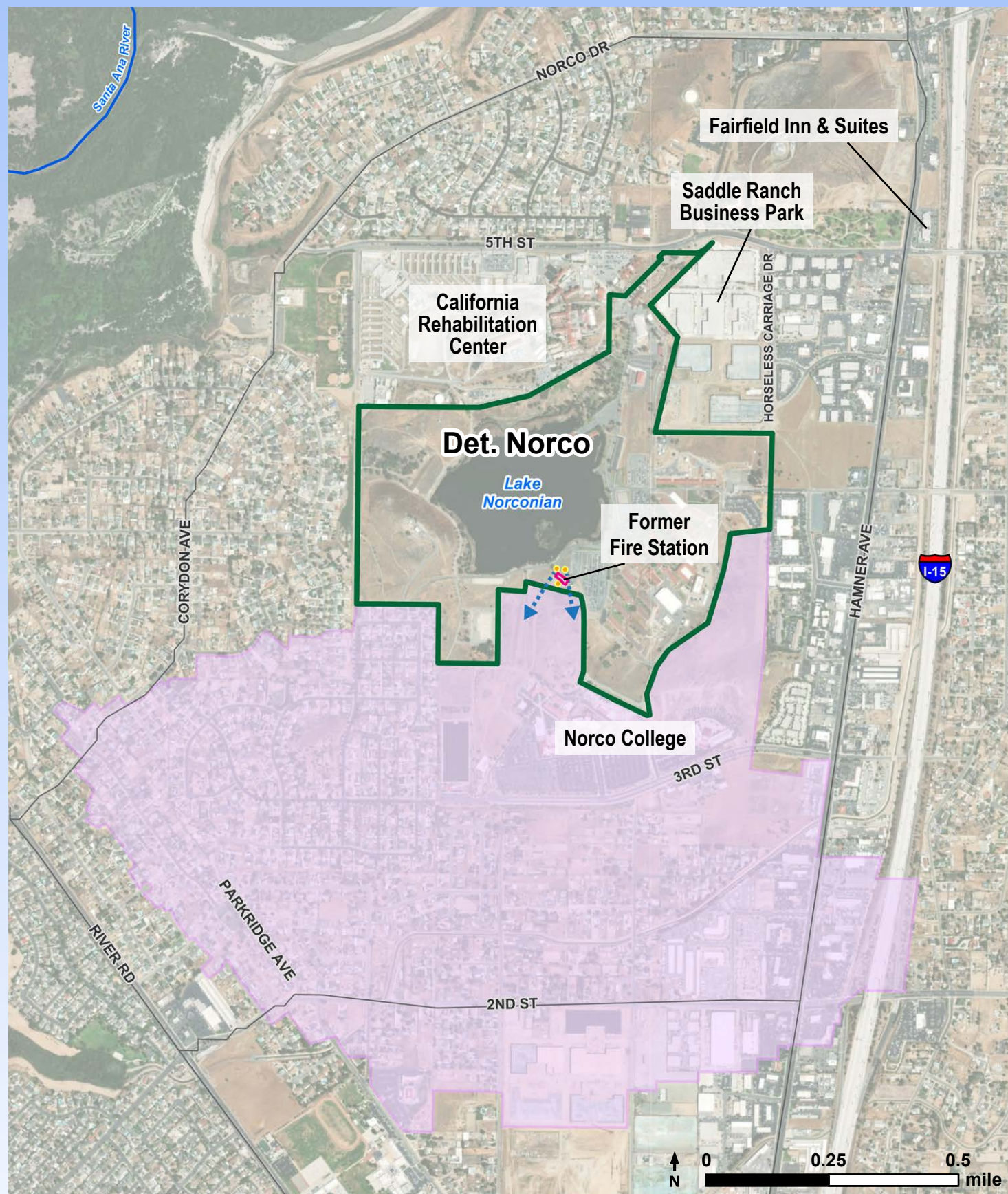
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# Off-Base Drinking Water Well Sampling



- 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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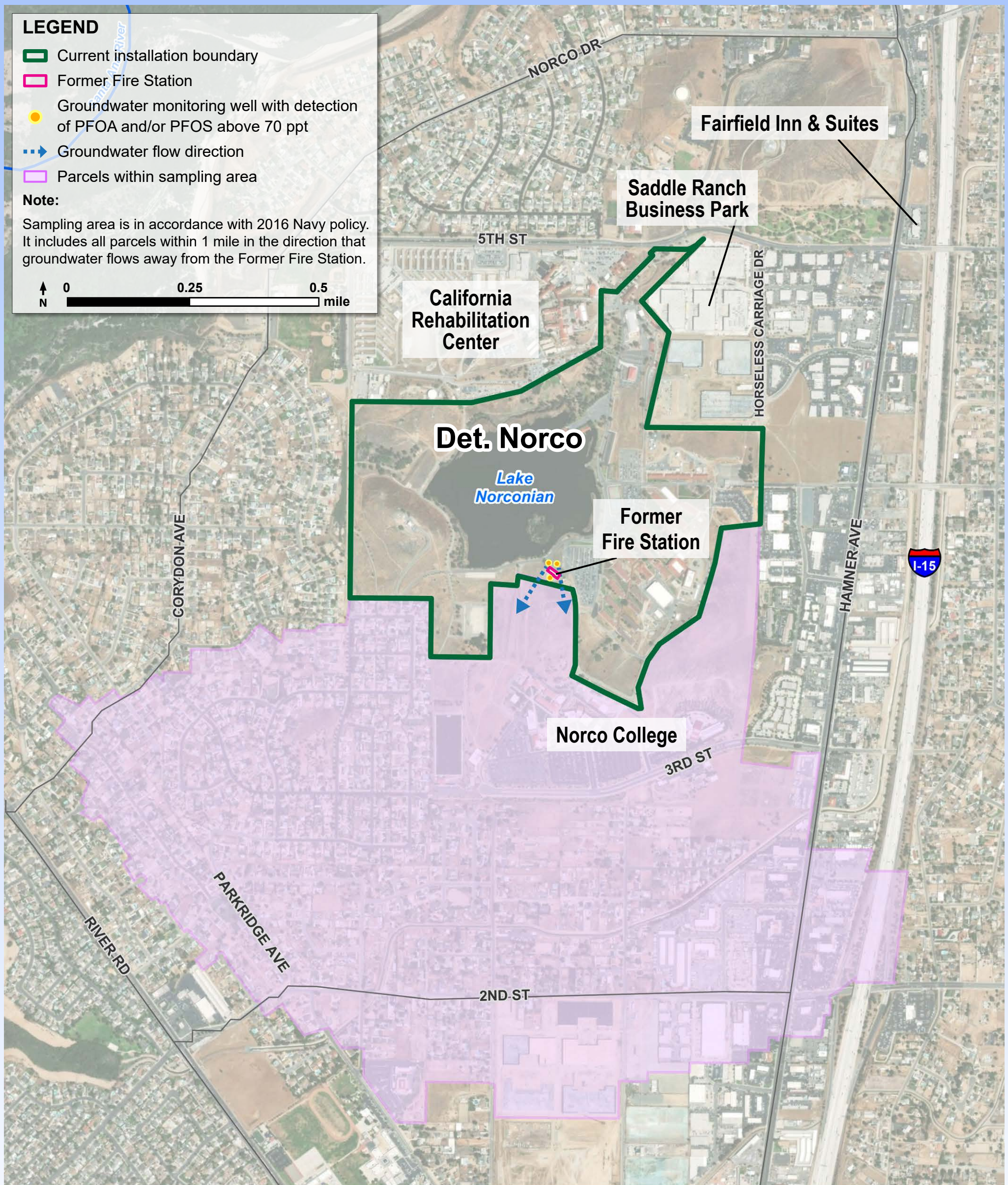
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# Exposure to Per- and Polyfluoroalkyl Substances (PFAS)

## 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>  
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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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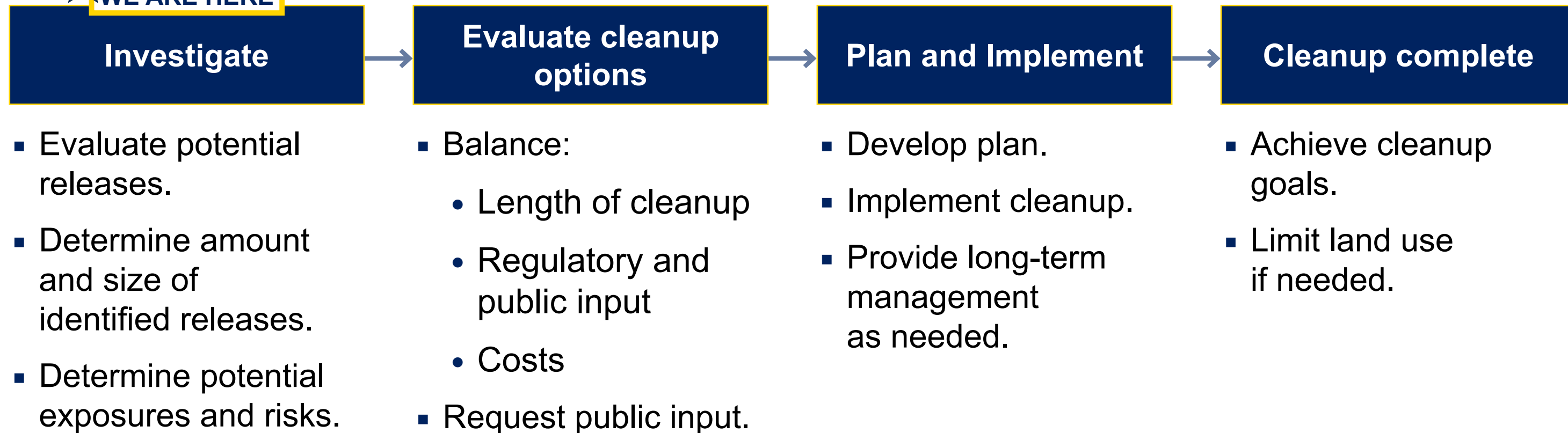
# Environmental Cleanup Process

## 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**



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# Drinking Water Well Sampling and Results Timeline

Sequence of Events	Approximate Timeline
1. Navy receives preliminary results.	■ Within 1 month after sample collected
2. Navy calls property owner and tenant with results.	■ Within 24 hours of results received by the Navy
3. Bottled water delivered if PFOA and/or PFOS are above 70 ppt.	■ Within 24 hours of results notification
4. Navy mails final results to property owner and tenant.	■ Within 3 months after sampling

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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](mailto:norco.pfas@jacobs.com)**.**

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