

JOSH GREEN, M.D.
GOVERNOR OF HAWAII
KE KIA'ĀINA O KA MOKU'ĀINA 'O HAWAII



KENNETH S. FINK, M.D., M.G.A., M.P.H.
DIRECTOR OF HEALTH
KA LUNA HO'OKELE

STATE OF HAWAII
DEPARTMENT OF HEALTH
KA 'OIHANA OLAKINO
SAFE DRINKING WATER BRANCH
ULUAKUPU BLDG. 4
2385 WAIMANO HOME ROAD, SUITE 110
PEARL CITY, HI 96782

In reply, please refer to:
File: SDWB

360_NAHCondApproval_20250207

February 7, 2025

Commander Benjamin Dunn
Deputy for Environment & Remediation, NCTF-Red Hill
Naval Facilities Engineering Systems Command Hawaii
[via [REDACTED] only]

Dear CDR Dunn:

SUBJECT: PUBLIC WATER SYSTEM NO. 360, JOINT BASE PEARLHARBOR-HICKAM
REVISED CONDITIONAL APPROVAL TO USE
HALAWA SHAFT (NAVY)
STATE WELL NO. 3-2252-32
HALAWA, OAHU, HAWAII

The Department of Health (DOH) Safe Drinking Water Branch (SDWB) hereby revises the approved use of Halawa Shaft (Navy), hereinafter referred to in this document as the "Source," as a drinking water source for a public water system. This letter supersedes the previous agreement dated July 2023 titled "Interim Plan Requirements for Emergency Use of Navy Aiea-Halawa Shaft." In its operation of the Source, NAVFAC Hawaii, hereinafter referred to in this document as the "PWS," shall be subject to the following conditions:

- 1) All water from Source shall be treated by Granular Activated Carbon (GAC) and ion exchange (IX) treatment units and disinfected. The Source shall deliver drinking water of the quality in compliance with Hawaii Administrative Rules (HAR), Chapter 11-20, "Rules Relating to Public Water Systems." The water quality shall be subject to verification by the SDWB.
- 2) The PWS, in its operation of the Source, shall comply with all other relevant provisions of HAR Chapter 11-20.
- 3) The PWS shall immediately notify the SDWB of any condition that may arise or be revealed, which has the potential to contaminate the Source and pose a threat to human health within 24 hours of discovery.
- 4) Hawaii Revised Statutes, Section 340E-24, requires suppliers of water to notify the SDWB, in writing, of any previously undetected chemical contaminant found in a source of drinking water, within seven (7) days of the positive detection.
- 5) The PWS shall address all deficiencies found at the Source and chemical feed systems during the last sanitary survey conducted by DOH on November 14-15, 2022, and

United State Environmental Protection Agency (USEPA) inspection conducted on June 3-7, 2024. The Source and GAC/IX treatment facility must be made available for inspection by SDWB staff prior to submittal of a request to reactivate the Source for entry into the distribution system.

- 6) Upon completion of the planned improvements at the Source and the GAC/IX treatment facility, the Navy should review and update the O&M manual, as necessary. All revisions to the O&M shall be submitted to the SDWB for review and approval.
- 7) Per HAR 11-25-11, a Grade 1 Water Treatment Plant Operator Certification will be required due to installation of the GAC/IX treatment facility. At least one (1) qualified and certified operator shall be available for each operating shift upon commencing operation.
- 8) Prior to commencing operation, the Source shall be equipped with properly installed sampling taps.
 - a) Each well shall be equipped with a sampling tap prior to any treatment, to allow for the sampling of the raw, untreated water from each individual well.
 - b) Each GAC contactor shall be equipped with sampling taps at the 25%, 50%, 75% bed depths and effluent line.
 - c) Each IX contactor shall be equipped with a sampling tap at effluent line.
 - d) The combined effluent line from four (4) GAC/IX contactors, before the 9K vessels, shall be equipped with a sampling tap.
 - e) The post treatment effluent line shall be equipped with an entry point sampling tap.

Clearly labeled, digital photos with dates imprinted must be provided to document that above requirements have been met.

- 9) A final and complete pilot testing report (1 copy) demonstrating Per- and Polyfluoroalkyl Substances (PFAS) removal efficiency shall be provided to the SDWB in ".pdf" format. Based on the report, additional conditions to this approval may be required.
- 10) This Source was shut down by the PWS on December 3, 2021, and has remained idle since. In response, the SDWB has inactivated this Source in its SDWIS compliance database. The PWS shall not reactivate this Source and send this Source's water into its distribution system until it satisfactorily complies with the source water quality sampling protocol as outlined below:
 - a) Water quality data –
 - i) Water quality data must be collected from the Source. Data from other wells, including monitoring wells, will not be accepted.

- ii) All regulated contaminants, including PFAS, except nitrate as listed in the *Contaminants To Be Tested Prior To Reactivating Sources Of Drinking Water*. Sample results are valid for five (5) years from the sampling date. If any water quality data expires (i.e., exceeds a period of five (5) years) prior to the re-activation of the wells, the wells shall be retested for the expired contaminants.
 - iii) Nitrate result is valid for one (1) year from the sampling date. If nitrate data expires (i.e., exceeds a period of one (1) year) prior to the re-activation of the wells, the wells shall be retested for nitrate.
- b) Water quality analyses for SDWA analytes, including regulated PFAS, shall be performed by drinking water laboratories certified or approved by the Hawaii Department of Health State Laboratories Division.
- c) Based on the lab results, additional conditions to this approval may be required.
- d) All results must be tabulated in a simple spreadsheet and all related, full laboratory reports with related chromatograms must be submitted together, at the same time, for our review. Failure to follow this requirement will result in a delay in SDWB review. Chain of custodies should include date and time of sample, specific sample location, e.g., "first raw sample tap downstream of manifold, inside pump house". Additionally, which pumps were turned on to grab the sample, flow (gpm) during sampling event.
- 11) The PWS shall notify the SDWB of the planned Source reactivation date in writing, at least ten (10) calendar days in advance. This will help the SDWB incorporate the Source into its monitoring schedules. A sample Source Reactivation Letter is enclosed for your use.
- 12) Upon reactivation of the Source, the PWS shall return to standard monitoring under the provisions in Title 40 Code of Federal Regulation Part 141, Subpart I (Control of Lead and Copper).

The SDWB reserves the right to suspend or revoke this conditional approval upon either a finding of violation on any of the above conditions or a determination of a threat to public health from factors which may arise following this Source's reactivation.

If there are any questions, please call Mr. Jeffrey Tsai, at (808) 586-4262 or e-mail at yun-jui.tsai@doh.hawaii.gov or doh.sdwb.engr@doh.hawaii.gov.

Sincerely,



GAUDENCIO C. LOPEZ, P.E., CHIEF
Safe Drinking Water Branch

JT:jc

Enclosure: Sample Source Reactivation Letter
Contaminants To Be Tested Prior To Reactivating Sources Of Drinking Water

c: CAPT James Sullivan, NAVFAC-HI [via [REDACTED] only]

[REDACTED]
Sherri Eng, NCTF-RH [via [REDACTED] only]

Kathleen Ho, HDOH [via kathleen.ho@doh.hawaii.gov only]

Joanna Seto, HDOH [via joanna.seto@doh.hawaii.gov only]

Jeffrey Tsai, USEPA Assisting HDOH [via yun-jui.tsai@doh.hawaii.gov only]

Melvin Tokuda, SDWB [via melvin.tokuda@doh.hawaii.gov only]

Zhaohui Wang, SDWB [via zhaohui.wang@doh.hawaii.gov only]

SDWB Engineering Section [via doh.sdwb.engr@doh.hawaii.gov only]

**SAMPLE SOURCE
REACTIVATION LETTER**

Mr. Gaudencio C. Lopez, P.E. Chief
Attention: Ms. Joan Corrigan, P.E.
Department of Health
Safe Drinking Water Branch
2385 Waimano Home Road
Uluakupu Bldg 4
Pearl City, HI 96782
[via sdwb@doh.hawaii.gov only]

Dear Mr. Lopez:

SUBJECT: PUBLIC WATER SYSTEM (PWS) NO. 360
JOINT BASE PEARL HARBOR-HICKAM
REACTIVATION OF HALAWA SHAFT (NAVY),
STATE WELL NO. 3-2252-32

The Joint Base Pearl Harbor-Hickam water system would like to inform the Department of Health, Safe Drinking Water Branch that the Halawa Shaft (Navy), State Well I.D. No. 3-2252-32 will be reactivated on _____ (date). This written notification is in accordance with the **date of conditional approval** letter from the Department of Health granting conditional approval to use this source.

We provide the entry-point-to distribution system (EPD) location below, and acknowledge the SDWB-provided SDWIS facility IDs and sample point IDs:

	Source	EPD
Facility Name:	Halawa Shaft (Navy)	_____ (e.g. Halawa Shaft (Navy) Chlorinator)
Facility ID no.:	_____ (a)	_____ (a)
Sampling Pt. Location:	Wellhead	_____
Sample Pt. ID no.:	_____ (a)	_____ (a)

Note: (a) DOH will assign this number

If you have any questions on this source reactivation, please call _____
(contact person).

Sincerely,
