



DEPARTMENT OF THE NAVY  
COMMANDER  
NAVY REGION HAWAII  
850 TICONDEROGA ST STE 110  
JBPHH, HAWAII 96860-5101

RECEIVED  
SAFE DRINKING  
WATER BRANCH

MAR 31 2021

5000-45  
N45  
March 29, 2021

Mr. Michael Miyahira, P.E., Acting Chief  
Hawaii State Department of Health  
Environmental Management Division  
Safe Drinking Water Branch  
2385 Waimano Home Road  
Uluakupu Building 4  
Pearl City, HI 96782

Dear Mr. Miyahira:

SUBJECT: NOVEMBER 2020-JANUARY 2021 DRINKING WATER MONITORING RESULTS  
FOR RED HILL, JOINT BASE PEARL HARBOR-HICKAM WATER SYSTEM  
(PWS NO. 360)

The Transition Plan for Tank 5 Red Hill Release requires quarterly drinking water sampling of the Red Hill Shaft. After a 2020 Quarter 1 detection of TPH-d, the Transition Plan was superseded by the June 8, 2020 and June 16, 2020 letters from the State of Hawaii Department of Health (DOH), "Red Hill Shaft Drinking Water Sample Results and Analysis Joint Base Pearl Harbor-Hickam (JBPHH) Public Water System (PWS 360)." These documents direct the Navy to monitor and report on the following sampling frequencies for the duration of the use of Red Hill Shaft for drinking water purposes:

- a. Weekly for one (1) month after restarting the pumps
- b. Monthly for 6–12 additional months
- c. Quarterly frequency thereafter unless otherwise directed by DOH

The four (4) weekly events and the first monthly monitoring event (August 2020) were previously submitted under a separate letter and enclosure (dated January 4, 2021). Results for the second and third monthly monitoring events (September-October 2020) were submitted under a letter and enclosure dated February 12, 2021. Results for the subsequent three monitoring events (November 2020-January 2021) are enclosed within this submittal which reflects the latest DOH requirements:

- Volatile organic compounds (VOCs) full scan (Method EPA 524.2)
- Semivolatile organic compounds (SVOCs) full scan (Method EPA 525.2)
- JP-8/F-24 as TPH-d (C8–C18, C10–C25) (Method EPA 8015)
- Lead (Method EPA 200.8)
- Dissolved organic carbon (DOC) with volatile fraction purged non-volatile DOC (Standard Method (SM) 5310C, SM 5310B, or EPA Method 9060A)

The attached enclosure contains electronic files of the following reports:

CD Enclosure Number	File Name	Sample Date
1	AECOM Red Hill 94088	11/12/20
2	OK17070 FINAL COA-F 12 04 20 1725	11/12/20
3	49959	N/A
4	AECOM Red Hill 94464_rev2 (to include subwork)	12/16/20
5	94464 Red Hill_DecemberDW_SVOC	12/16/20
6	50353	N/A
7	AECOM Red Hill 94912_no SVOC	1/26/21
8	94912 1A28043 FINAL COA-F 02 23 21 1035 SVOC	1/26/21
9	94912 Weck Report 1A28043 FINAL LVL4 525.2. r	1/26/21
10	50581	N/A
11	Red Hill Drinking Water Sample Results Log	Multiple Dates

The November 2020 sampling event (CD Enclosure 1 and 2; Enclosure 3 presents data validation) yielded non-detect results for all TPH-d, VOCs, and SVOCs. Lead values were 0.16 µg/L pre-chlorination and 0.66 µg/L post-chlorination (below the MCL of 15 µg/L).

The December 2020 sampling event (CD Enclosure 4 and 5; Enclosure 6 presents data validation) yielded non-detect results for all TPH-d and SVOCs, and the majority of the VOC parameters. Lead values were 0.13 µg/L pre-chlorination and 0.65 µg/L post-chlorination (below the MCL of 15 µg/L).

The January 2021 sampling event (CD Enclosures 7-9; Enclosure 10 presents data validation) yielded non-detect results for all VOCs and SVOCs. Lead values were 0.090 µg/L pre-chlorination and 0.33 µg/L post-chlorination (below the MCL of 15 µg/L). TPH-d (C8-C18) sampling showed a detection of 340 µg/L pre-chlorination and 260 µg/L post-chlorination (below the Environmental Action Level (EAL) of 400 µg/L for the range of TPH-d (C8 - C18). However, the chromatographic fingerprint does not resemble a petroleum product. Re-extraction and reanalysis of the samples yielded non-detect results.

Should you have any questions regarding this matter, please contact Ms. Sara Coffey at (808) 471-4676.

Sincerely,



SHERRIL R. ENG  
Director  
Regional Environmental Department  
By direction of the  
Commander

Enclosure: 1. Compact disc containing 11 files

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**Copy to:**

**Department of Health, Solid and Hazardous Waste Branch, Underground Storage Tank Section  
(Hard copy w/ CD enclosure)**

**Electronic copy to:**

**Mr. John Floyd, NAVSUP Fleet Logistics Center Pearl Harbor Deputy Director, Fuel and Facility  
Management**

**Mr. Ralph Wells, DLA Energy Pacific**