



Documentation to Amend Drinking Water Health Advisory in Zone D3

Joint Base Pearl Harbor Hickam (JBPHH)
O‘ahu, Hawai‘i

Interagency Drinking Water System Team
Zone D3 Removal Action Report
March 2022

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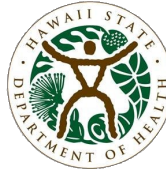
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Note: Department of Defense critical infrastructure security information (DCRIT) is not included



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Line of Evidence 0

Introduction

DOH Checklist to Amend the Public Health Advisory in Flushing Zone D3



Zone D3 Checklist to Amend the Public Health Advisory initiated November 29, 2021 for Joint Base Pearl Harbor -Hickam Public Water System No. 360 HEER Incident Case No.: 20211128-1848

Purpose: This checklist identifies the documentation and review that the Hawaii Department of Health (DOH) conducted to **amend** the Public Health Advisory (Advisory) in each Zone under the *DOH's Guidance on the Approach to Amending the Drinking Water Health Advisory*, dated December 30, 2021. This review was conducted as an oversight role in addition to the review conducted as a part of the Interagency Drinking Water System Team (IDWST).

DOH's priority is to protect the public health and environment of the people of Hawaii. DOH will evaluate the "lines of evidence" that must be met before amending the health advisory and issuing notices that the water can be used for all purposes including drinking. The Navy must also commit to following the long-term monitoring (LTM) of system water quality for this incident under the IDWST Drinking Water Sampling Plan, as amended.

Background: A chemical release of petroleum, which is a hazardous substance, entered the Joint Base Pearl Harbor-Hickam (JBPHH) drinking water distribution system and the Red Hill Shaft. This release triggered an

emergency response and DOH issuance of an Advisory on November 29, 2021 for the entire JBPHH Public Water System No. 360. State and Federal Drinking Water (DW) Maximum Contaminant Levels (MCLs) under the Safe Drinking Water Act do not adequately address petroleum contamination of drinking water. DOH has established Environmental Action Levels (EALs) and Incident Specific Parameters (ISPs) to more comprehensively monitor and respond to petroleum contaminated drinking water. Any contaminants that exceed the State and Federal DW MCLs, EALs, or ISPs require additional action prior to amending the Advisory. Satisfaction of the lines of evidence will be achieved by evaluating the data generated during the investigation conducted by the IDWST. The data will be assessed for each Zone of the Drinking Water Distribution System Recovery Plan. All lines of evidence will require documentation.

DOH Project Screening Levels: State and Federal Drinking Water MCLs, specified State EALs, and ISPs are considered in development of Project Screening Levels. The actions for the thresholds for each contaminant are listed in *DOH's Guidance on the Approach to Amending the Drinking Water Health Advisory*.

DOH Checklist to Amend the Public Health Advisory in Flushing Zone D3



Objective 0 - Introduction to Lines of Evidence Under Evaluation / Document Summary

Reference	Status	Documentation
Tab 0	Complete	DOH Checklist to Amend the Drinking Water Health Advisory.
Tab 0.1	Complete	<ul style="list-style-type: none"> Executive Summary Memo for Zone D3 Removal Action Report Signed statement by the Owner/Operator Representative of the Water System, that asserts that all lines of evidence have been met, including the following statement with a signature: "I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the submitted information is true, accurate, and complete."

Objective 1a – Line of Evidence: Reported sources of contamination are isolated and contained.

Incident Specific Criteria - Contamination from **Red Hill Shaft** is isolated from Navy's water distribution system.

Reference	Status	Documentation
Tab 1a.0	Complete	Executive Summary Memo.
Tab 1a.1	Complete	Memorandum for Record documenting that the Red Hill Shaft has been physically disconnected from the NAVFAC system.
Tab 1a.2	Complete	Memo for Record showing SCADA data that Waiawa Shaft is the single source of water for the NAVFAC system since 03 December 2021.
Tab 1a.3	Complete	Photograph of concrete blocking between air gapped isolation flanges.

Objective 1b – Line of Evidence: The regulated public water system's water quality data is compliant.

Incident Specific Criteria - Data does not exceed Federal DW MCLs, specified State EALs, and ISPs for **Waiawa Shaft (only source of the drinking water)**.

Reference	Status	Documentation
Tab 1b.0	Complete	Executive Summary Memo.
Tab 1b.1	Complete	<ul style="list-style-type: none"> Sample Results for Waiawa Shaft (the source) taken 1/13/2022 Level 4 Validated Laboratory Report for EPA Methods 8260 (VOCs), 8270 (SVOCs), 8015 (TPH-G, TPH-D, TPH-O) plus Tentatively Identified Compounds (TICs) Level 4 Validated Laboratory Report for EPA Methods 8260 (VOCs), 8270 (SVOCs), 8015 (TPH-G, TPH-D, TPH-O) plus Tentatively Identified Compounds (TICs) Sample Results of Waiawa Shaft Entry Point (after treatment) taken 1/11/2022 Level 4 Validated Laboratory Report for Sampling Plan Addendum 1, Table 3a: Distribution Sampling (Step 2b) Summary Drinking Water Analytical Methods, Analytes, Action Levels, and Method Detection Limits Level 4 Validated Laboratory Report for Sampling Plan Addendum 1, Table 3a: Distribution Sampling (Step 2b) Summary Drinking Water Analytical Methods, Analytes, Action Levels, and Method Detection Limits

DOH Checklist to Amend the Public Health Advisory in Flushing Zone D3



Objective 1c – Line of Evidence: No additional contamination through the distribution system is occurring.

Incident Specific Criteria - Cross Connection Control investigation shows distribution system is protected, resulting in no additional sources of contamination.

Reference	Status	Documentation
Tab 1c.0	Complete	Executive Summary Memo.
Tab 1c.1	Complete	<p>Certificate Regarding Cross-Connection Control Review and Confirmation – Zone D3, verifying that building and service connections with petroleum activities are protected from backflow risks with the following documentation:</p> <ul style="list-style-type: none"> • A “gap analysis” of the petroleum related activities versus appropriate device inventory (i.e., inappropriate device, missing Cross-Connection Control protection, untested device, etc.). • A map that includes: All facilities with petroleum activities; locations of existing backflow prevention devices; and Water system infrastructure. • An inventory database: A list of petroleum-related activities and identified appropriate cross connection control (CCC) devices at these activities, as required, i.e., if there was human consumptive use and where cross connection potential or hazard was identified.
Tab 1c.2	Complete	COMNAVREG HAWAII INSTRUCTION 11330.2D, dated 19 Sep 2016, Backflow Prevention and Cross-Connection Control Program

Objective 2a – Line of Evidence: Water within the distribution system does not exceed State and Federal DW MCLs, specified State EALs, and

ISPs.

- Zone flushing plan demonstrates entire distribution system is flushed.
- Sample results show the water in distribution system does not exceed State and Federal DW MCLs, specified State EALs, and ISPs. (Guidance Table 2 and Table 3)
- Drinking water does not show sheen, olfactory evidence, or other qualitative methods of petroleum.

Reference	Status	Documentation
Tab 2a.0	Complete	Executive Summary Memo.
Tab 2a.1	Complete	<p>Memorandum for the Record of the Distribution System Recovery Plan Addendum – Zone D3 Analysis which includes:</p> <ul style="list-style-type: none"> • Hydraulic model that exhibits and flushing line map(s) and plan to show that the flushing approach will achieve directional flushing. • A one-page high resolution zonal flushing map should be provided. • Narrative of assumptions in the development of their flushing model inclusive of any simulations that they ran.
Tab 2a.2	Complete	Summary with documentation from Dr. Whelton discussing flushing goals providing validity of volumetric exchange model.

DOH Checklist to Amend the Public Health Advisory in Flushing Zone D3



Objective 2a – Line of Evidence: Water within the distribution system does not exceed State and Federal DW MCLs, specified State EALs, and ISPs.

Incident Specific Criteria –

- Zone flushing plan demonstrates entire distribution system is flushed.
- Sample results show the water in distribution system does not exceed State and Federal DW MCLs, specified State EALs, and ISPs. (Guidance Table 2 and Table 3)
- Drinking water does not show sheen, olfactory evidence, or other qualitative methods of petroleum.

Reference	Status	Documentation
Tab 2a.3	Complete	Identification of consecutive flushing zones and flushing phasing order. Time based contaminant slug model showing possible migration of contaminant from Red Hill Shaft used to identify zones requiring additional volumetric flushing (Hydraulic Model)
Tab 2a.4	Complete	Table showing volumetric goals and recorded flushing volumes that occurred in the field for the distribution system.
Tab 2a.5	Complete	Certification of Water Storage Facilities and Water Source for Zone D3 with Water Storage Tanks S1 and S2 Flushing Report.
Tab 2a.6	Complete	<ul style="list-style-type: none"> • Distribution System Exceedance Investigation Summary and Results. • Drinking Water Distribution System Recovery Plan: Stage 2 Sampling Results for Zone D3, JBPHH.

Objective 2b – Line of Evidence: Water in premise plumbing of homes/buildings does not exceed State and Federal DW MCLs, specified State EALs, and ISPs.

Incident Specific Criteria –

- Flushing Plan includes procedures to ensure no service connections will re-contaminate the distribution system.
- Sample Plan includes 72-hour stagnation to account for leaching of contaminants from premise plumbing.
- Sample results show water in premise plumbing of homes/buildings does not exceed State and Federal DW MCLs, specified State EALs, and ISPs.

Reference	Status	Documentation
Tab 2b.0	Complete	Executive Summary Memo.
Tab 2b.1	Complete	Records of Completed Residential and Non-Residential Flushing Zone D3 with: <ul style="list-style-type: none"> • EDMS Residential Flushing Records Zone D3 • EDMS Non-Residential Flushing Records Zone D3 • NAVFAC SCADA Data Zone D3 28 Dec 2021 to 12 Jan 2022 (for the Distribution System pressure logs during flushing and confirmation that the 30 psi within the distribution system was maintained).
Tab 2b.2	Complete	Sample Results, Level 2 and Level 4 Validated as required by Sampling Plan Section 6.0, report from EDMS.
Tab 2b.3	Complete	Exceedance Investigation Summary and Results Zone D3.
Tab 2b.4	Complete	Memorandum for Record showing that irrigation flushing is complete.

DOH Checklist to Amend the Public Health Advisory in Flushing Zone D3



Objective 2b – Line of Evidence: Water in premise plumbing of homes/buildings does not exceed State and Federal DW MCLs, specified State EALs, and ISPs.		
Incident Specific Criteria –		
<ul style="list-style-type: none"> Flushing Plan includes procedures to ensure no service connections will re-contaminate the distribution system. Sample Plan includes 72-hour stagnation to account for leaching of contaminants from premise plumbing. Sample results show water in premise plumbing of homes/buildings does not exceed State and Federal DW MCLs, specified State EALs, and ISPs. 		
Reference	Status	Documentation
Tab 2b.5	Complete	DOH Guidance for Active Irrigation Line Purging and Flushing

February 28, 2022

From: Naval Facilities Engineering Systems Command Representative, IDWS Team
To: Interagency Drinking Water System Team

SUBJ: ZONE D3 REMOVAL ACTION REPORT

Ref: (a) Drinking Water Sampling Plan, December 2021
(b) Drinking Water Distribution System Recovery Plan, December 2021
(c) Single Family Home Flushing Plan Checklist and Standard Operating Procedures, December 23, 2021
(d) Non-Residential Facility Flushing Plan Checklist and Standard Operating Procedures, January 4, 2022
(e) DOH's Guidance on the Approach to Amending the Drinking Water Health Advisory, December 30, 2021; HEER Incident Case No.: 20211128-1848
(f) DOH Checklist to Amend the Drinking Water Health Advisory

Encl: (1) Zone D3 Removal Action Report

1. The enclosed report documents completion of the requirements outlined in references (a) through (f). This is in response to HEER Incident Case No.: 20211128-1848 involving the Joint Base Pearl Harbor Hickam (JBPHH) Public Water System No. 360.

2. On the 20th of November, a spill of jet fuel, specifically JP-5 jet fuel, occurred at the Red Hill Bulk Fuel Storage Facility in an access tunnel that provides fire suppression and service lines for the facility. The fuel spill was cleaned up and, on the 23rd of November, Admiral Paparo, directed an independent investigation of the spill event, and ordered the investigating officer to also determine any connection between the 20 November event and the spill that occurred earlier this year, on the 6th of May. The results of the investigation are pending public release.

On the 27th of November, the Commander, Navy Region Hawaii, RDML Tim Kott, met with the Fleet Logistics Center Commander, who operates The Red Hill Fuel Storage Facility for the Navy, and they jointly made the decision to stop Red Hill Tank fuel transfer operations based on the ongoing investigation into the recent spills.

On Sunday, the 28th of November, the JBPHH HQs and Hawaii Department of Health (HDOH) began receiving phone calls from military residents reporting a chemical or petroleum taste and smell to the water on the Navy's drinking water system. As more calls were received, it became clear that the reports were clustered around neighborhoods fed by the Red Hill Shaft Well, so the Navy, on the evening of the 28th of November, shut down that well and stood up the Region's Emergency Operations Center to handle the issue. As more calls continued to come in of contaminated water over the next 24 hours, Admiral Paparo, as the senior Navy commander in Hawaii, ordered the establishment of a Joint Crisis Action Team on the 29th of November. The Navy immediately began flushing its potable water distribution system.

On December 8, 2021, HDOH issued Directive One which provided requirements for flushing of the Navy Water System. The Navy began working with HDOH and the U.S. Environmental Protection Agency (EPA) to meet the requirements of this directive and resume flushing of the potable water system.

On December 17, 2021, HDOH, the U.S. Navy, the U.S. Army and EPA established an Interagency Drinking Water System (IDWS) Team to restore safe drinking water to affected JBPHH housing communities. The working group was established to ensure that the agencies were coordinated in actions to restore safe drinking water to Navy water system users and that they had a clear, coordinated source of information as work continued to restore safe drinking water. On the same day, the U.S. Navy, U.S. Army, HDOH, and the EPA jointly signed the Water Distribution System Recovery Plan agreement. The signing of this plan was the second work product of the IDWS Team, which is focused on efficiently and effectively restoring safe drinking water to JBPHH military housing communities. Earlier in that week, the team jointly signed the Drinking Water Sampling Plan.

The flushing of the water distribution lines resumed on December 20, 2021. Residence and non-residence facilities were flushed and sampled after the completion of flushing and testing of the distribution system of a specific Zone. This report specifically documents the requirements outlined in references (a) through (f) for Zone D3.

3. The removal action report (RAR) for Zone D3 documents two specific lines of evidence necessary to amend the drinking water health advisory for Zone D3 as provided by HDOH. The two lines of evidence under evaluation included:

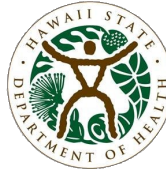
- i. Ensure no contamination is entering the water system.
- ii. Ensure no contamination remains in the system and water chemistry concerns are addressed.

Each line of evidence has several objectives with specific lines of evidence and incident specific criteria required to be met. Achievement of the criteria will be described and supported with documentation in the subsequent sections of the RAR.

4. I certify under penalty of law that I have personally examined and I am familiar with the information submitted and the submitted information is true, accurate, and complete.

MENO.MICHAEL.WAYNE.JR.
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MENO.MICHAEL.WAYNE.JR.
Date: 2022.02.28
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M. W. Meno
Captain, U.S. Navy Civil Engineer Corps



Interagency Drinking Water System Team
Zone D3 Removal Action Report
March 2022

Line of Evidence 1a

All Reported Sources of Contamination Are Isolated and Contained

Table 1: Lines of Evidence Under Evaluation – Ensure no contamination is entering the water system.

Objective 1a - All reported sources of contamination are isolated and contained.

Incident Specific Criteria - Contamination from **Red Hill Shaft** is isolated from Navy's water distribution system.

Lines of Evidence	Completion Status	Outstanding Items
Navy confirmation that Red Hill Shaft is isolated from the Navy's water distribution system.	Complete.	<ul style="list-style-type: none">• None.

February 19, 2022

From: Naval Facilities Engineering Systems Command Representative, IDWS Team
To: Interagency Drinking Water System Team

SUBJ: SUMMARY OF LINE OF EVIDENCE OBJECTIVE 1A – ALL REPORTED SOURCES OF CONTAMINATION ARE ISOLATED AND CONTAINED

Encl: (1) 1a.1 Memorandum for Record with Isolation Date
(2) 1a.2 Summary of Operator Logs and SCADA Data
(3) 1a.3 Photograph of Concrete Blocking Between Air Gapped Isolation Flanges

1. Enclosures (1), (2), and (3) document completion of Line of Evidence objective 1a, all reported sources of contamination are isolated and contained. On the evening of November 28, 2021, the Red Hill Shaft was secured from operation and all pumping operations ceased. The Aiea/Halawa shaft briefly served as the secondary source starting on November 28, 2021, but it was shut down on December 3, 2021 to prevent potential westward contaminant migration in the aquifer and because there were concerns over high chloride concentrations caused by saltwater intrusion. Since December 3, 2021, the Waiawa Shaft has been the sole water source providing potable water to the distribution network. It is located 5.5 miles west of the Red Hill Fuel Facility, and testing has not detected any water quality issues at this source. The Red Hill Shaft discharge pipes were physically re-arranged and encased in concrete on December 24, 2021 as shown in Enclosure (1) and (3), thereby isolating the system as required by Line of Evidence 1a. The Supervisory Control and Data Acquisition (SCADA) data in Enclosure (2) shows the previous statement to be true. All reported sources of contamination are isolated and contained.

2. The Red Hill Shaft pumps are now being used to control the spread of contamination by creating a capture zone in the aquifer by pumping to a 5 million gallons/day Granular Activated Carbon (GAC) system which discharges into the Halawa Stream. The new piping from the pumps to the GAC treatment came from the 20" header where the 20x24 reducer was removed on 24 DEC 2021. A thrust block was poured at this location around the existing blinded wye fitting as shown in Enclosure (3).

3. I certify under penalty of law that I have personally examined and I am familiar with the information submitted and I believe the submitted information is true, accurate, and complete.

WETZEL.CHRISTOPHE
R.JAMES.1540194862

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C. J. Wetzel
LT, CEC, USN

04 JANUARY 2022

MEMORANDUM FOR RECORD

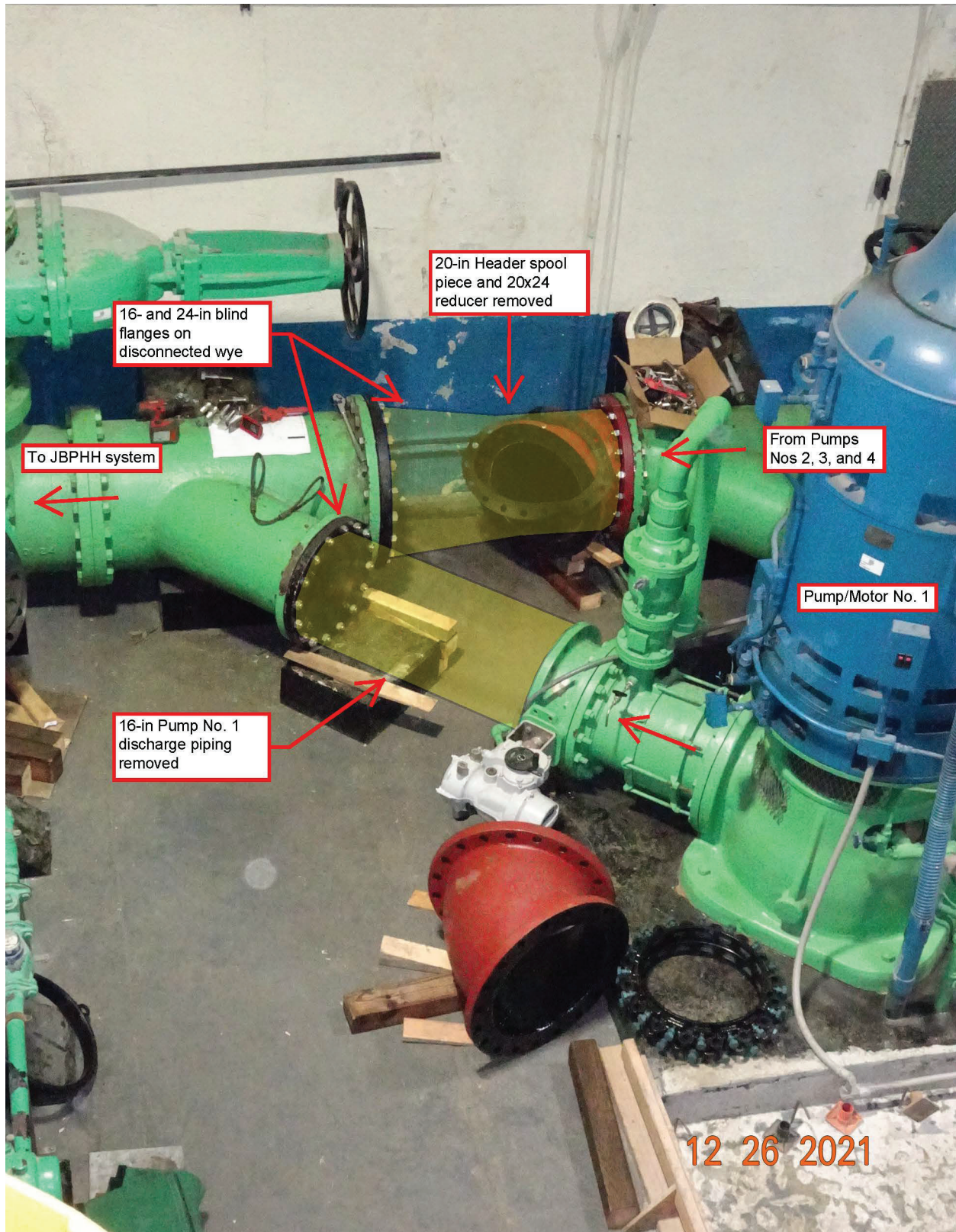
SUBJECT: Red Hill Potable Water Pumping Station

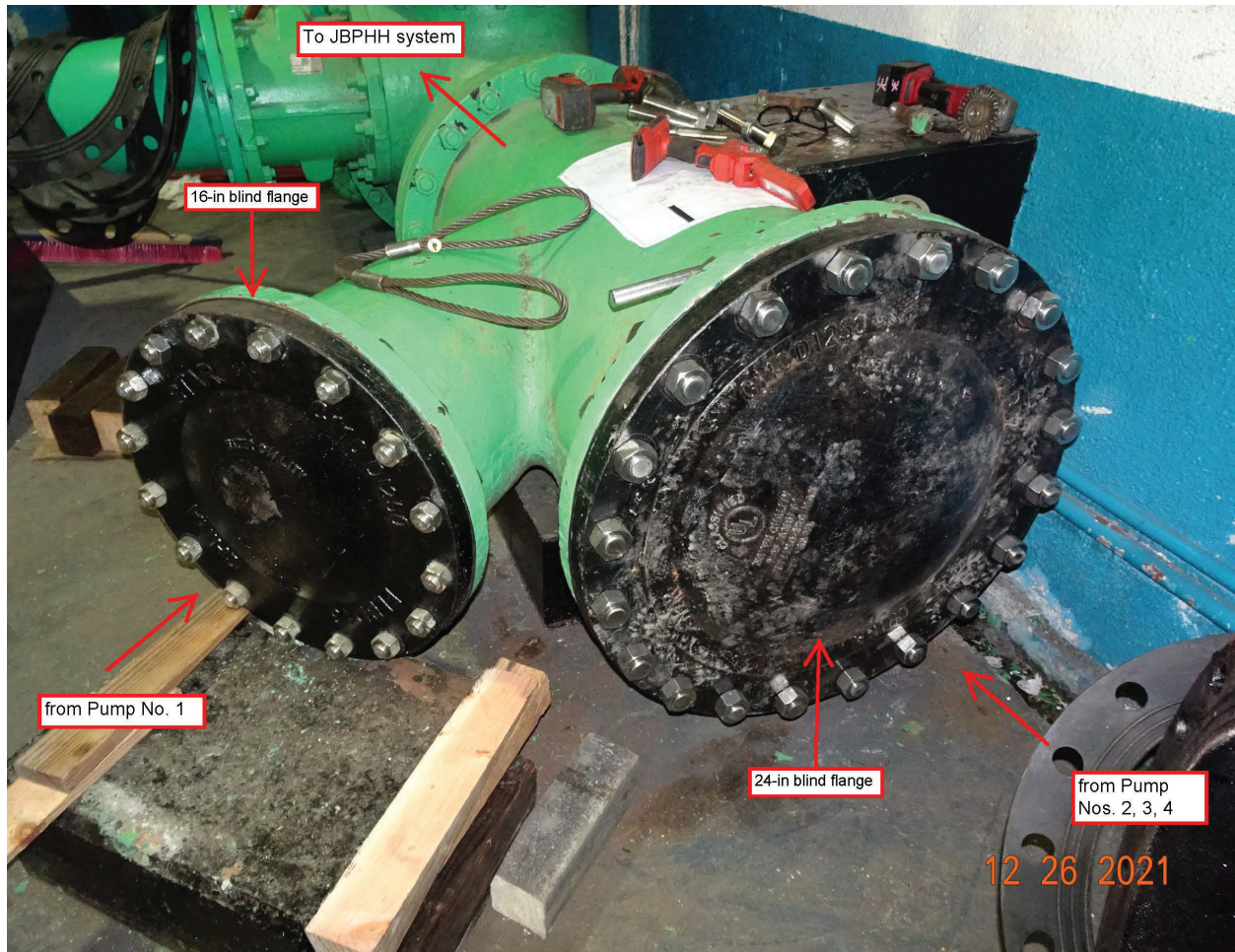
ENC: (1) Red Hill Pump Station Photographs, Post Pump Isolation dated 12/26/2021
(2) JBPHH Potable Water LOTO Log

1. This Memorandum For Record (MFR) is to document the Red Hill Shaft pump status in relation to the Joint Base Pearl Harbor Hickam Potable Water System.
2. In response to fuel contaminants found in the Red Hill Shaft aquifer/development tunnel, the main Red Hill Pumping Station pumps were secured from the Potable Water system. On 3 December 2021, all four Red Hill pumps were electrically Locked Out, Tagged Out (LOTO), see Enclosure (2). (Note: Pump #1 was LOTO on 10 June 2020 due to an unrelated pump issue, and is still out of service, LOTO.) After initially being shut down operationally, and LOTO electrically, the Red Hill pumps were physically isolated from the Potable Water system on 24 December 2021.
3. Physical isolation was performed with in-house NAVFAC forces, with a completion date of 24 December 2021. This work was performed by isolating the system from the pumps at the "wye" fitting adjacent to Red Hill Pump #1. The wye fitting is shown on Enclosure (1). A blind flange was placed on the main header and the wye branch.
4. The 24" blind flange on the main header physically air-gapped and isolated Red Hill pumps #2, #3, and #4. The 16" blind flange in the wye branch physically air-gapped and isolated Red Hill pump #1. This work is shown on Enclosure 1.
5. The work the NAVFAC in-house forces performed removed any source or pathway from the Red Hill aquifer to the JBPHH Potable Water system.

MITCHELL.JEREMY.W.1395400700
J. MITCHELL
Deputy Public Works Officer
Joint Base Pearl Harbor Hickam

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NAVFAC Hawaii - Potable Water Utilities Lock Out Tag Out (LOTO) Form



Locked Out		Back in Service		Location	Circuit / Equipment being LOTO	Reason for LOTO	Lock No.	Tag No.	Authorized Employee
Date	Time	Date	Time						
18 MAR 20	0930			REDHILL	MP#1	Pump overhaul		010	Dykky
5 JUN 20		20 MAR 21	1200	WAIANA	CD #20	FAULT IN OVERHAUL		1	
10 JUN 20	0900			REDHILL	PUMP CONTROL MP#1	PUMP OVERHAUL		011	Dykky
10 JUN 20	0900			REDHILL	NCC MP#1	PUMP OVERHAUL		012	Dykky
10 JUN 20	0945			WAIANA	CD #40	FAULT-PUMP CONTROLS		2	AN
10 MAY 21				HALANNA	NCC#1	MOTOR FAULT		3	AN
2 JUN 21	0800			WAIANA	CD#80	FAULT PUMP CONTROLS		5	AN
2 JUN 21	0800	30 JUN 21	2030	WAIANA	CD#100	HECO OUTAGE		4	AN
2 JUN 21	0900			HALANNA	NCC#2	PUMP REMOVED		6	AN
30 JUN 21	2330	7 JUL 21	1900	WAIANA	CD#10	FAIL TO CLOSE		8	AN
19 JUL 21	0745	19 JUN	0900	HALANNA	EXHAUST FAN	REPLACE OIL			DS
17 NOV 21	1230			HALANNA	PUMP #1	PUMP FAIL			AN
17 NOV 21	1230			HALANNA	PUMP #2	MOTOR FAIL			AN
30 DEC 21	0925			REDHILL	NCC MP#2	COMPRESSOR INTERFERE WATER IN WELL			AN

[illegible]

February 10, 2022

SUMMARY OF OPERATOR LOGS AND SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA) DATA

1. OBJECTIVE: Provide a description of water sources that supplied the Joint Base Pearl Harbor Hickam (JBPHH) potable water system (system) prior-to and after the fuel contamination incident that occurred in late November 2021.

2. BACKGROUND:

2.1. Portions of the Navy water distribution system serving JBPHH and surrounding areas were exposed to low levels of fuel contamination with initial indications in the form of smell reports occurring on or about 28 November 2021.

2.2. Prior to the aquifer contamination incident, water users connected to the Navy's system were supplied by three Navy owned water sources, Red Hill Shaft, Aiea/Halawa Shaft and Waiawa Shaft. In the time period prior to the incident, Waiawa Shaft was the main water source supplying water to the JBPHH system with at least one pump operating full time (100%). A single Red Hill Shaft pump was operated intermittently as a secondary source to the system. The Aiea/Halawa shaft was not being operated due to concerns over high chloride concentrations caused by saltwater intrusion into the aquifer.

2.3. On the evening of 28 November 2021, the Red Hill Shaft was secured and all pumping operations ceased. The Aiea/Halawa shaft briefly served as the secondary source starting on 28 November 2021 but was shut down on 03 December 2021 to prevent westward contaminant migration in the aquifer.

2.4. Since 03 December 2021, Waiawa Shaft has been the sole water source providing potable water to the distribution network. It is located 5.5 miles west of the Red Hill Fuel Facility and testing has not found any water quality issues at this source.

3. DATA INTERPERETATION: The Supervisory Control and Data Acquisition (SCADA) data provided in reference (a) includes tabular and graphical depictions of flow from the three source pump stations, aquifer water surface elevations above mean sea level (MSL) and the water level in the 6 million gallon (MG) S1 and S2 water storage tanks. The data was provided as a daily average (i.e. data was averaged over the 24 hours of each day from 00:00 to 23:59) and ranges from 01 November 2021 to 08 January 2022.

3.1 WAIAWA SHAFT/PUMP STATION: Prior to 28 November, The Waiawa Pump Station (PS) was supplying an average of 16.6 million gallons per day (MGD) of potable water to the system. After 28 November, demand reductions from turning off irrigation and smaller residential demand reduced the water supplied by the Waiawa PS to an average of 15.5 MGD. This was 76% of the 22 MGD total system demand prior to 28 November 2021.

There was an inverse correlation between the aquifer water surface elevation and water pumped out of the aquifer. When Waiawa PS was pumping between 16 and 18 MGD, the aquifer water surface elevation dropped to between 8.0 and 10.0 feet MSL. When pumping was reduced between 15 and 16 MGD, the aquifer water surface was raised to between 15.0 and 17.0 feet

above MSL. See Figure 1 below for a graphical depiction of the daily average aquifer water surface elevation and pumps flows from Waiawa Shaft.

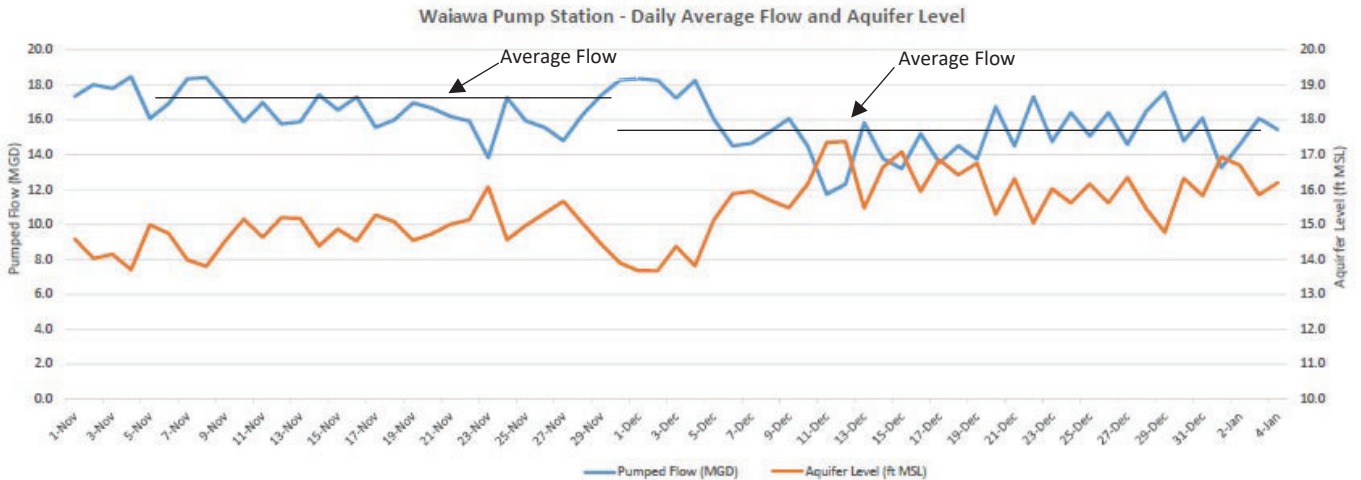


Figure 1. Waiawa Shaft Daily Average Flows and Aquifer Water Surface Elevation

3.2 RED HILL SHAFT/PUMP STATION: Prior to being shut down on 28 November 2021, the Red Hill PS was supplying an average of 5.3 MGD to the system. The represented 24% of the 22 MGD total system demand. As shown in Figure 2, the Red Hill Pump Station has not been operated since 28 November 2021.

Since pumping ceased, the aquifer water surface elevation has raised from approximately 2 ft MSL to almost 6 ft MSL

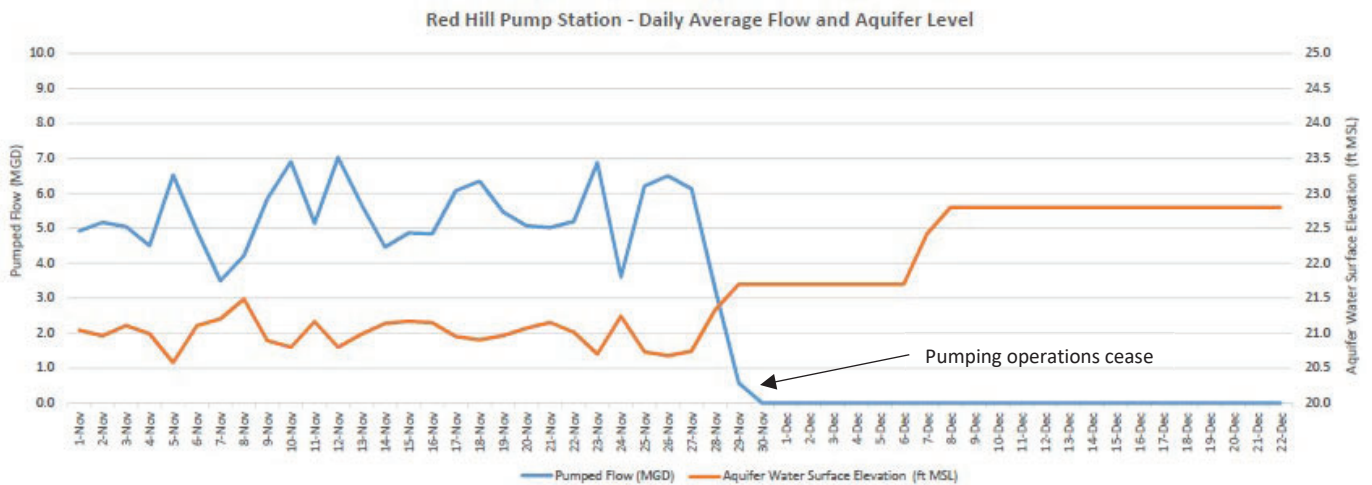


Figure 2. Red Hill Shaft Daily Average Flows and Aquifer Water Surface Elevation

3.3 HALAWA/AIEA SHAFT/PUMP STATION: Halawa Shaft was briefly operated from 28 November to 03 December 2021. The reasons for shutdown are as follows:

1. Demand reductions made it so that Waiawa Shaft could supply 100% of the water to the system,

2. there were concerns over westward plume migration from Red Hill if Halawa remained active,
3. water system operators had advised that high chloride concentrations in the Halawa/Aiea Shaft had caused water quality problems in the past.

The aquifer water surface elevation was around 12.0 ft MSL prior to turning the pumps on at the Halawa/Aiea PS. After the pumping ceased, the aquifer recovered to around 12.8 ft MSL.

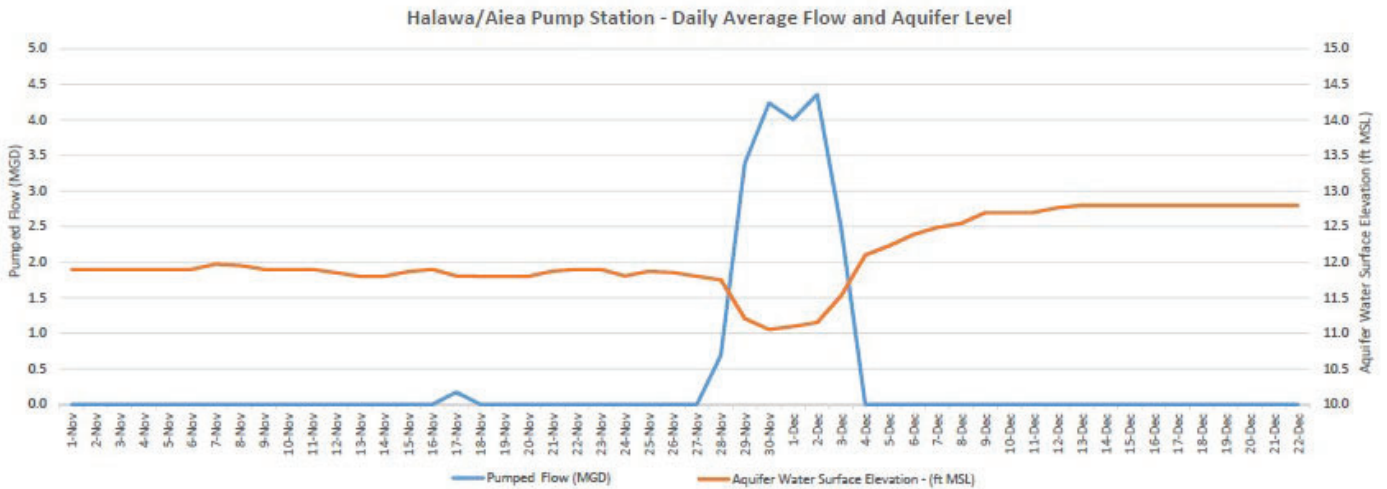


Figure 2. Halawa/Aiea Shaft Daily Average Flows and Aquifer Water Surface Elevation

**Photograph of Concrete Blocking Between
Air Gapped Isolation Flange**





Interagency Drinking Water System Team
Zone D3 Removal Action Report
March 2022

Line of Evidence 1b

**Regulated Public Water System's Water Quality Data is
Compliant**

Table 1: Lines of Evidence Under Evaluation – Ensure no contamination is entering the water system.

Objective 1b - The regulated public water system's water quality data is compliant.

Incident Specific Criteria - Data does not exceed Federal DW MCLs, specified State EALs, and ISPs for **Waiawa Shaft**.

Lines of Evidence	Completion Status	Outstanding Items
Date Sample Taken at Step 0 of the Sampling Plan Addendum 1	Complete	<ul style="list-style-type: none">None.
Date Sample Taken at Entry Point to Distribution	Complete	<ul style="list-style-type: none">None.

February 17, 2022

From: Naval Facilities Engineering Systems Command Representative, IDWS Team
To: Interagency Drinking Water System Team

SUBJ: SUMMARY OF LINE OF EVIDENCE OBJECTIVE 1B – THE REGULATED PUBLIC WATER SYSTEM’S WATER QUALITY IS COMPLIANT

Encl: (1) 1b.1 Source Water and Entry Point of Distribution Sample

1. Enclosure (1) documents completion of Line of Evidence 1b, the regulated public water system’s water quality is compliant. On the evening of November 28, 2021, the Red Hill Shaft was secured from operation and all pumping operations ceased. The Aiea/Halawa shaft briefly served as the secondary source starting on November 28, 2021, but it was shut down on December 3, 2021 to prevent potential westward contaminant migration in the aquifer and because there were concerns over high chloride concentrations caused by saltwater intrusion. Since December 3, 2021, the Waiawa Shaft has been the sole water source providing potable water to the distribution network. It is located 5.5 miles west of the Red Hill Fuel Facility, and testing has not detected any water quality issues at this source.
2. On January 11, 2022, water from the Waiawa shaft was sampled at the entry point to the distribution system (EPD). The results of the analysis are presented in Enclosure (1), Field Sample ID 20111-WS-ZT01. On January 13, 2022, additional samples were taken at the Waiawa shaft source. The results of these samples are also presented in Enclosure (1), Field Sample IDs 220113-WS-ZT01 and 220113-WS-ZT03. This data shows that the water from the Waiawa shaft does not exceed State of Hawaii and Federal Drinking Water standards, Maximum Contaminate Levels, Environmental Action Levels and Incident Specific Parameters, and the regulated public water system’s water quality is complaint.
3. I certify under penalty of law that I have personally examined and I am familiar with the information submitted and I believe the submitted information is true, accurate, and complete.

RODRIGUEZ.ALBERTO
.MAURICIO.13963161
68
A. M. Rodriguez
LT, CEC, USN

Digitally signed by
RODRIGUEZ.ALBERTO.MAURICIO.
1396316168
Date: 2022.02.19 17:19:01 -10'00'

1b.1 Source Water and Entry Point of Distribution Sample

Well Shaft Sampling

Chemistry Results

Drinking Water Sampling, JBPHH, Oahu Hawaii

Location ID:					EPD	Shaft	Shaft
Location Type:					I1-SHFTWAIA	I1-SHFTWAIA	I1-SHFTWAIA
Residence:					Well	Well	Well
Field Sample ID:					Waiawa Shaft	Waiawa Shaft	Waiawa Shaft
Sample Date:					220111-WS-ZT01	220113-WS-ZT01	220113-WS-ZT03
Sample Type:					2022-01-11	2022-01-13	2022-01-13
					N (PostChlorination Sample)	N (PreChlorination Sample)	N (PreChlorination Sample)

GENCHEM (mg/L)	Incident Specific Parameters	Environmental		DOH Safe Drinking		Environmental	
		Action Levels	Water Branch (SDWB)	Regulatory	Protection Agency Maximum	Contaminant Levels	SDG:
		Groundwater	Constituents	Constituents	Regulatory	Levels	810121191
		Action Levels					
Total Organic Carbon	2	None	None	None	0.190 U	--	0.250 U

HC (µg/L)	Incident Specific Parameters	Environmental		DOH Safe Drinking		Environmental	
		Action Levels	Water Branch (SDWB)	Regulatory	Protection Agency Maximum	Contaminant Levels	SDG:
		Groundwater	Constituents	Constituents	Regulatory	Levels	5801092421
		Action Levels					5801092721
Petroleum Hydrocarbons (as Diesel)	200	400	None	None	90.0 U	91.0 U	92.0 U
Petroleum Hydrocarbons (as Gasoline)	200	300	None	None	31.0 U	31.0 U	31.0 U
Petroleum Hydrocarbons (as Motor Oil)	200	500	None	None	180 U	180 U	180 U

HERB (µg/L)	Incident Specific Parameters	Environmental		DOH Safe Drinking		Environmental	
		Action Levels	Water Branch (SDWB)	Regulatory	Protection Agency Maximum	Contaminant Levels	SDG:
		Groundwater	Constituents	Constituents	Regulatory	Levels	980559
		Action Levels					
Pentachlorophenol	None	None	None	None	--	--	0.0200 U

HG (µg/L)	Incident Specific Parameters	Environmental		DOH Safe Drinking		Environmental	
		Action Levels	Water Branch (SDWB)	Regulatory	Protection Agency Maximum	Contaminant Levels	SDG:
		Groundwater	Constituents	Constituents	Regulatory	Levels	2A12046
		Action Levels					
Mercury	0.025	0.025	2	2	0.0170 U	--	--

METAL (µg/L)	Incident Specific Parameters	Environmental		DOH Safe Drinking		Environmental	
		Action Levels	Water Branch (SDWB)	Regulatory	Protection Agency Maximum	Contaminant Levels	SDG:
		Groundwater	Constituents	Constituents	Regulatory	Levels	980559
		Action Levels					
Antimony	6	6	6	6	0.0915 J	--	0.110 U
Arsenic	10	10	10	10	0.207 J	--	0.210 U
Barium	220	220	2000	2000	1.72	--	1.80 J
Beryllium	0.66	0.66	4	4	0.0624 U	--	0.0910 U
Cadmium	3	3	5	5	0.0416 U	--	0.0290 U
Chromium	11	11	100	100	1.46	--	1.50
Copper	2.9	2.9	1300	1300	21.2	--	46.0
Lead	15	5.6	15	15	0.265	--	0.0630 J
Selenium	5	5	50	50	0.704	--	0.350 J
Thallium	2	2	2	2	0.0210 U	--	0.0410 U

SVOC (µg/L)	Incident Specific Parameters	Environmental		DOH Safe Drinking		Environmental	
		Action Levels	Water Branch (SDWB)	Regulatory	Protection Agency Maximum	Contaminant Levels	SDG:
		Groundwater	Constituents	Constituents	Regulatory	Levels	5801092721
		Action Levels					810121191

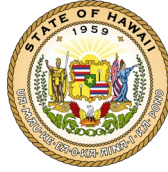
1b.1 Source Water and Entry Point of Distribution Sample

Well Shaft Sampling

Chemistry Results

Drinking Water Sampling, JBPHH, Oahu Hawaii

	70	70	70	70	70	EPD	Shaft	Shaft
1,2,4-Trichlorobenzene						--	0.0930 U	--
1,2-Dichlorobenzene	10	10	600	600		--	0.0520 U	--
1,3-Dichlorobenzene	None	None	None	None		--	0.0410 U	--
1,4-Dichlorobenzene	5	5	75		None	--	0.0410 U	--
1-Methylnaphthalene	2.1	10	None	None	0.00801 U	--		0.0190 U
2,4,5-Trichlorophenol	None	None	None	None	--	--	0.100 U	--
2,4,6-Trichlorophenol	None	None	None	None	--	--	0.100 U	--
2,4-Dichlorophenol	None	None	None	None	--	--	0.210 U	--
2,4-Dimethylphenol	None	None	None	None	--	--	0.170 U	--
2,4-Dinitrophenol	None	None	None	None	--	--	1.70 U	--
2,4-Dinitrotoluene	None	None	None	None	--	--	0.100 U	--
2,6-Dinitrotoluene	None	None	None	None	--	--	0.100 U	--
2-Chloronaphthalene	None	None	None	None	--	--	0.0720 U	--
2-Chlorophenol	None	None	None	None	--	--	0.0520 U	--
2-Ethylhexyl adipate	None	None	None	None	0.00962 U	--	--	--
2-Methylnaphthalene	4.7	10	None	None	0.00904 U	--	--	0.0190 U
2-Methylphenol (o-Cresol)	None	None	None	None	--	--	0.0520 U	--
2-Nitroaniline	None	None	None	None	--	--	0.100 U	--
3,3'-Dichlorobenzidine	None	None	None	None	--	--	0.270 U	--
3-Nitroaniline	None	None	None	None	--	--	0.170 U	--
4,6-Dinitro-2-methylphenol	None	None	None	None	--	--	0.570 U	--
4-Bromophenyl phenyl ether	None	None	None	None	--	--	0.0620 U	--
4-Chloro-3-methylphenol	None	None	None	None	--	--	0.130 U	--
4-Chloroaniline	None	None	None	None	--	--	0.610 U	--
4-Chlorophenyl phenyl ether	None	None	None	None	--	--	0.0520 U	--
4-Nitroaniline	None	None	None	None	--	--	0.220 U	--
4-Nitrophenol	None	None	None	None	--	--	1.80 U	--
Acenaphthene	None	None	None	None	--	--	0.0520 U	--
Acenaphthylene	None	None	None	None	--	--	0.0620 U	--
Alachlor	None	None	None	None	0.0110 U	--	--	0.0480 U
Anthracene	None	None	None	None	--	--	0.0520 U	--
Atrazine	None	None	None	None	0.00734 U	--	--	0.0290 U
Benzo(a)anthracene	None	None	None	None	--	--	0.0520 U	--
Benzo(a)pyrene	0.06	0.06	0.2	0.2	0.0117 UJ		0.0410 U	0.00960 U
Benzo(b)fluoranthene	None	None	None	None	--	--	0.0410 U	--
Benzo(g,h,i)perylene	None	None	None	None	--	--	0.0410 U	--
Benzo(k)fluoranthene	None	None	None	None	--	--	0.0520 U	--
Benzyl butyl phthalate	None	None	None	None	--	--	0.280 U	--
Bis(2-chloroethoxy)methane	None	None	None	None	--	--	0.0520 U	--
Bis(2-chloroethyl) ether (2-Chloroethyl ether)	None	None	None	None	--	--	0.0310 U	--
Bis(2-ethylhexyl)phthalate	3	3	6	6	0.437 U		0.770 U	0.580 U
Carbazole	None	None	None	None	--	--	0.100 U	--
Chlordane	None	None	None	None	0.0669 U		--	0.0320 U
Chrysene	None	None	None	None	--	--	0.0410 U	--



Interagency Drinking Water System Team
Zone D3 Removal Action Report
March 2022

Line of Evidence 1c

No Additional Contamination through the Distribution System is Occurring

Table 1: Lines of Evidence Under Evaluation – Ensure no contamination is entering the water system.

Objective 1c - No additional contamination through the distribution system is occurring.

Incident Specific Criteria - Cross Connection Control investigation shows distribution system is protected, resulting in no additional sources of contamination.

Lines of Evidence	Completion Status	Outstanding Items
No contamination of the distribution system is occurring from cross-connections with other petroleum sources during this incident	Complete	<ul style="list-style-type: none">• None.
Cross Connection Control/Backflow Program-related documents	Complete	<ul style="list-style-type: none">• None.

February 19, 2022

From: Naval Facilities Engineering Systems Command Representative, IDWS Team
To: Interagency Drinking Water System Team

SUBJ: SUMMARY OF LINE OF EVIDENCE OBJECTIVE 1C – NO ADDITIONAL
CONTAMINATION THROUGH THE DISTRIBUTION SYSTEM IS OCCURRING

Encl: (1) 1c.1 Certification of Inventory and Petroleum Facility Locations with Associated
Backflow Preventers.
(2) 1c.2 Backflow Prevention and Cross-Connection Control Program Instruction

1. Enclosures (1) and (2) document completion of Line of Evidence 1c, no additional contamination through the distribution system is occurring. On the evening of November 28, 2021, the Red Hill Shaft was secured from operation and all pumping operations ceased. The Aiea/Halawa shaft briefly served as the secondary source starting on November 28, 2021, but it was shut down on December 3, 2021 to prevent potential westward contaminant migration in the aquifer and because there were concerns over high chloride concentrations caused by saltwater intrusion. Since December 3, 2021, the Waiawa Shaft has been the sole water source providing potable water to the distribution network. It is located 5.5 miles west of the Red Hill Fuel Facility, and testing has not detected any water quality issues at this source.

2. Enclosure (1) identifies all water service connections where petroleum activities exist and documents adequate backflow prevention devices installed at those petroleum service activities. Enclosure (2) provides the governing instructions for backflow prevention devices referenced in Enclosure (1). This data shows that no additional contamination through the water distribution system is occurring.

3. I certify under penalty of law that I have personally examined and I am familiar with the information submitted and I believe the submitted information is true, accurate, and complete.

RODRIGUEZ.ALBE
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96316168

Digitally signed by
RODRIGUEZ.ALBERTO.MAURIC
IO.1396316168
Date: 2022.02.19 17:24:22
+10'00'

A. M. Rodriguez
LT, CEC, USN



DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND, HAWAII
400 MARSHALL ROAD
JBPHH, HAWAII 96860-3139

11000

Ser PWO/0086

March 05, 2022

Director of the State of Hawaii
Department of Health (DOH)

Dear DOH Director:

SUBJECT: CERTIFICATE REGARDING CROSS CONNECTION CONTROL REVIEW
AND CONFIRMATION – ZONE D3

Enclosure: [1] ZONE D3: POL Activities Backflow Prevention Devices
[2] ZONE D3: POL Activities Map

On behalf of the United States Department of the Navy, operator of the Joint Base Pearl Harbor-Hickam Public Water System (PWS ID No. 360 Water System), and in connection with and pursuant to the removal action required by the DOH Hazard Evaluation and Emergency Response Office Incident Case No. 20211128-1848, the undersigned certifies that the Navy has made all necessary inquiry into their Water System and represents and warrants as set forth below.

All service connections where petroleum activities exist in the Water System, **Zone D3**, are identified in Enclosure [1], “Zone D3: POL Activities Backflow Prevention Devices.” Petroleum activities include, but are not limited to, operating or having gas stations, fuel storage, facilities with aboveground or underground storage tanks (>100-gallon capacity), fuel transfer, motor pools, vehicle maintenance facilities, fuel recovery pits, waste oil collection facilities or systems.

All service connections where petroleum activities exist, as identified in Enclosure [1] have adequate backflow protection as recommended by and in accordance with COMNAVREGHINST 11330.2D, BACKFLOW PREVENTION AND CROSS-CONNECTION CONTROL PROGRAM. Adequate backflow protection includes installation of devices appropriate to the identified hazard condition, correct design and installation of the device, timely testing by a certified tester, and regular maintenance/repair/replacement.

All facilities identified with adequate backflow protection have had their assemblies tested by a DOH-approved certified tester in the past year in accordance with Hawaii Administrative Rules, Title 11-21-8(b) Maintenance requirements.

In the GIS database maintained by NAVFAC HI Asset Management, all Hickam Airfield Facilities were given an “H” at the end of the building number to easily identify the building was physically located on Hickam Airfield. Enclosure [1] documents the building number without the “H.” The “H” is unable to be removed from the Enclosure [2] map as it is part of the GIS layer.

Enclosure [2] has POL facilities shown on the map that are not shown in Enclosure [1]. Facilities 2115H and 2125H are in Zone D2, and are identified in the Zone D2 letter. 2155GH is not identified as a POL facility.

SUBJECT: CERTIFICATE REGARDING CROSS CONNECTION CONTROL REVIEW
AND CONFIRMATION – ZONE D3

Tanks 41053H, 41054H, 41055H, and 41056H in Enclosure [2] correspond to the four 2170 facilities in Enclosure [1]. Enclosure [1] facility numbers are the facility numbers in our Spill Prevention Control and Counter Measure [SPCC] documents.

Facility 12604 in Enclosure [1] represents both location 12604 and 12605 in SPCC documents.

Facility 2160 is missing from the GIS map, but is identified in SPCC documents. The physical location is annotated in red on the Enclosure [2] map.

Facility 1720 was not identified as a facility that meets the criteria outlined in Enclosure [1], “Zone D3: POL Activities Backflow Prevention Devices.” There are no large storage tanks, significant maintenance activities, or waste oil collection systems. POL products used in this facility are no more significant than POL products used in a typical household garage.

The Navy has committed to the funding and performance in FY2022 of a comprehensive cross connection control survey of the entire JBPHH water system per the December 2021 AH Engineers & Scientists Water Quality CAT Memorandum.

The undersigned has due authority to deliver to DOH this Certification on behalf of the Navy.

Sincerely,

 Digitally signed by
HARMEYER.RANDALL
ERNEST.1186692663

R. E. HARMEYER

Captain, CEC, U.S. Navy
Public Works Officer
By Direction of the
Commanding Officer

Enclosure [1] - ZONE D3: POL Activities Backflow Prevention Devices

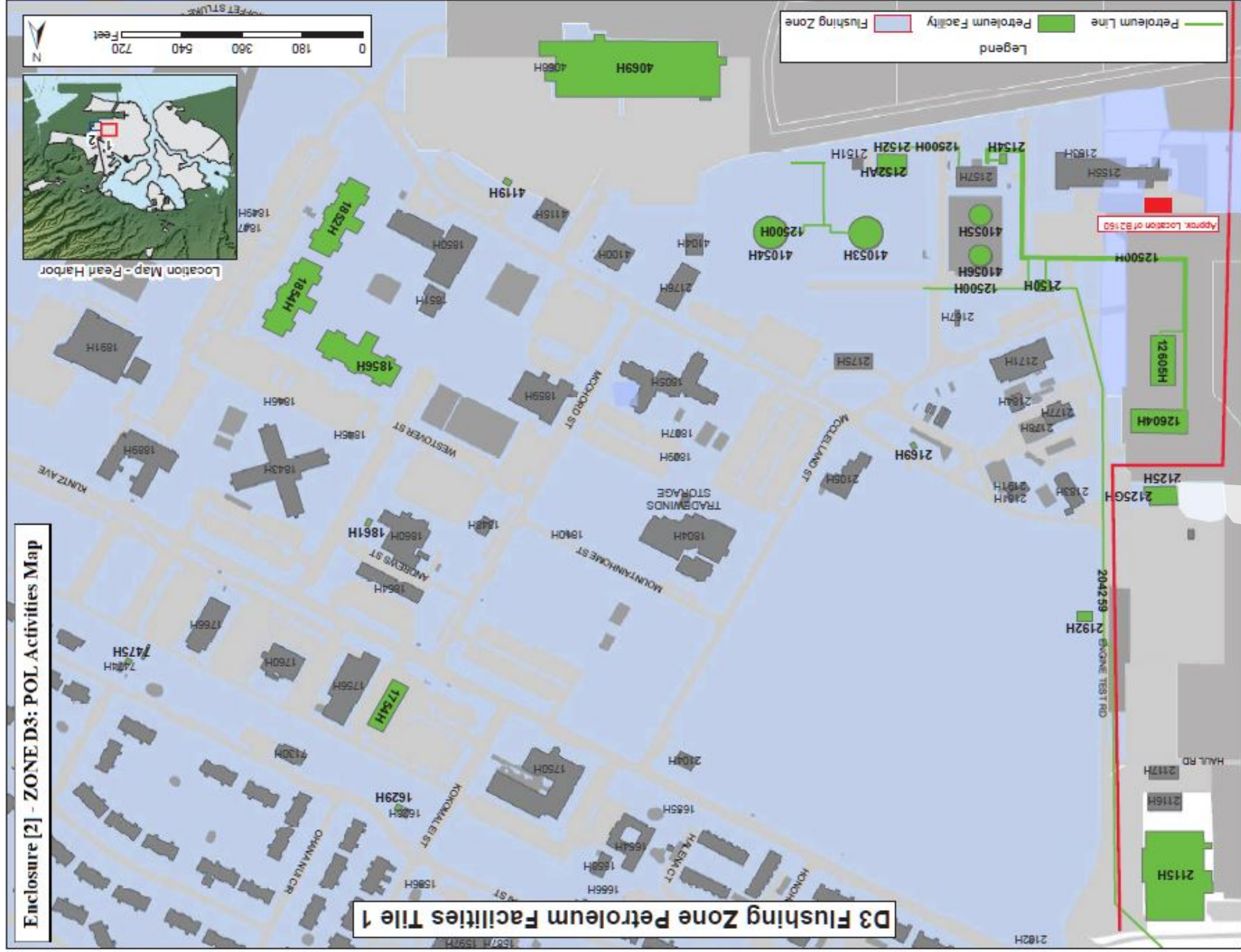
POL Activities Backflow Prevention Devices Zone: D3

ASSET NAME	Location (Bldg. #)	Reference Location	Description of petroleum -related activity	BFP Manufacturer	BFP Model	BFP Size	Serial # or VIN	Installation Date or In Service Date	Changed (Replacement) Date	Last Tested Date	Last Repaired Date
H1080849	1629	Lift Station 6	AST H-1629-S6 / 175 GAL DIESEL	FEBCO	765	2	A49782	2/1/2003	N/A	2/1/2022	N/A
UMA057002357	1728	AFFES Warehouse	AST H-1728 / 300 GAL DIESEL	WATTS	909RP2	2	8A555	5/1/1996	N/A	3/1/2021	N/A
UMA057002359	1754	Shoppette Gas Pumps	GA5OLINE UST H-1754-2 / 15,000 GAL	ZURN-WILKINS	975XL	1.25	1218407	3/1/2008	N/A	3/1/2021	N/A
UMA057002359	1754	Shoppette Gas Pumps	H-1754-MGS ZURN-WILKINS	975XL	1.25	1218407	1218407	3/1/2008	N/A	3/1/2021	N/A
UMA057002400	1852	Dorms	AST H-1852 / 275 GAL DIESEL	FEBCO	860	2	H06513	4/1/1987	N/A	3/1/2021	N/A
UMA057002326	1854	Dorms	AST H-1854 / 275 GAL DIESEL	WATTS	709	6	254820	5/1/2002	N/A	3/1/2021	N/A
UMA057002404	1856	Dorms	AST H-1856 / 500 GAL DIESEL	FEBCO	765	2	H024930	5/1/1996	N/A	3/1/2021	N/A
UMA057002419	1861	Hickam Chow Hall	AST H-1861-S6 / 260 GAL DIESEL	FEBCO	765	2	H030820	3/1/2017	N/A	3/1/2021	N/A
NO BFP ASSETS, EYEWASH STATION	2150	FUEL STRUCTURE(NO BLDG)	AST FLC-2150 / 250 GAL POL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
H1087753	2152	POL Fuel Farm	AST 2152-S6 / 400 GAL DIESEL	WATTS	909M1 QT	2	453932	UNK	N/A	2/1/2022	N/A
NO BFP ASSETS, HOSE BIBS	2154	POL Fuel Farm Generator Room	AST 2154-S6 / 300 GAL DIESEL	HOSE BIB W/ AVB	AVB	0.75	N/A	N/A	N/A	N/A	N/A
NO BFP ASSETS, HOSE BIBS	2160	Old ATC Tower	AST H-H-2160-S6 / 80 GAL DIESEL	HOSE BIB W/ AVB	AVB	0.75	N/A	N/A	N/A	N/A	N/A
NO BFP ASSETS, HOSE BIBS	2169	Fuel Tanks on Hill Moffett	AST H-S-3 / 2,000 GAL RECLAIMED JP- 8	HOSE BIB W/ AVB	AVB	0.75	N/A	N/A	N/A	N/A	N/A
NO BFP ASSETS, HOSE BIBS	2169	Fuel Tanks on Hill Moffett	AST FLC-2169-S-1 / 30,000 GAL DIESEL	HOSE BIB W/ AVB	AVB	0.75	N/A	N/A	N/A	N/A	N/A
NO BFP ASSETS, HOSE BIBS	2169	Fuel Tanks on Hill Moffett	AST FLC-22169-9-3 / 15,000 GAL JPTS HOSE BIB W/ AVB	AVB	0.75	N/A	N/A	N/A	N/A	N/A	N/A
NO BFP ASSETS, HOSE BIBS	2169	Fuel Tanks on Hill Moffett	AST H-2169-1 / 2,000 GAL EMPTY HOSE BIB W/ AVB	AVB	0.75	N/A	N/A	N/A	N/A	N/A	N/A
NO BFP ASSETS, HOSE BIBS	2170	Fuel Farm Storage Tanks	AST FLC-2170-11-1 / 2,310,000 GAL JP-8	HOSE BIB W/ AVB	AVB	0.75	N/A	N/A	N/A	N/A	N/A
NO BFP ASSETS, HOSE BIBS	2170	Fuel Farm Storage Tanks	AST FLC-2170-11-2 / 2,310,000 GAL JP-8	HOSE BIB W/ AVB	AVB	0.75	N/A	N/A	N/A	N/A	N/A
NO BFP ASSETS, HOSE BIBS	2170	Fuel Farm Storage Tanks	AST FLC-2170-11-3 / 1,050,000 GAL JP-8	HOSE BIB W/ AVB	AVB	0.75	N/A	N/A	N/A	N/A	N/A
NO BFP ASSETS, HOSE BIBS	2170	Fuel Farm Storage Tanks	AST FLC-2170-11-4 / 1,050,000 GAL JP-8	HOSE BIB W/ AVB	AVB	0.75	N/A	N/A	N/A	N/A	N/A
NO BFP ASSETS, HOSE BIBS	2192	Par 3 Maint. Bldg.	AST H-2192 / 250 GAL DIESEL	HOSE BIB W/ AVB	AVB	0.75	N/A	N/A	N/A	N/A	N/A
NO BFP ASSETS, HOSE BIBS	4002	Hickam Auto Hobby shop	AST H-4002 / 500 GAL USED OIL AVB	HOSE BIB W/ AVB	AVB	0.75	N/A	N/A	N/A	N/A	N/A
H1086383	4069	MAC Freight Terminal	UST H-4069 / 2,500 GAL DIESEL	Watts	LF909	0.75	44829	8/1/2021	8/1/2021		

Enclosure [1] - ZONE D3: POL Activities Backflow Prevention Devices

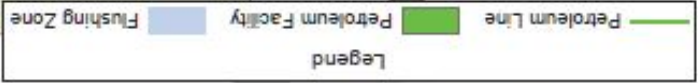
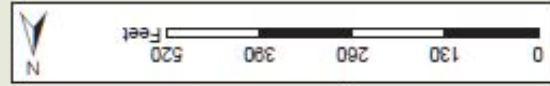
POL Activities Backflow Prevention Devices											
Zone: D3											
ASSET NAME	Location	Reference Location	Description of petroleum-related activity	BFP Manufacturer	BFP Model	BFP Size	Serial # or VIN #	Installation Date or In Service Date	Changed (Replacement) Date	Last Tested Date	Last Repaired Date
NO BFP ASSETS, HOSE BIBS	4072	Cyber Security squadron	AST H-4072-SG / 175 GAL DIESEL	HOSE BIB W/ AVB	AVB	0.75	N/A	N/A	N/A	N/A	N/A
NO BFP ASSETS, HOSE BIBS	4119	MAC Freight Terminal	AST H-4119-1 / 1,000 GAL DIESEL	HOSE BIB W/ AVB	AVB	0.75	N/A	N/A	N/A	N/A	N/A
NO BFP ASSETS, HOSE BIBS	4119	MAC Freight Terminal	AST H-4119-2 / 1,000 GAL DIESEL	HOSE BIB W/ AVB	AVB	0.75	N/A	N/A	N/A	N/A	N/A
NO BFP ASSETS, HOSE BIBS	4119	MAC Freight Terminal	AST H-4119-3-DR / 220 GAL 4@55-GAL DRUMS NEW AND USED OIL	HOSE BIB W/ AVB	AVB	0.75	N/A	N/A	N/A	N/A	N/A
NO BFP ASSETS, HOSE BIBS	7475	Lift Station 18	AST H-7475-SG / 109 GAL DIESEL	FEBCO	765	2	H003171	11/1/1995	N/A	1/1/2022	N/A
NO BFP ASSETS, HOSE BIBS	12604	POL Refueling Rack	FLC-12604/5-TR / TANK TRUCK RACK	HOSE BIB W/ AVB	AVB	0.75	N/A	N/A	N/A	N/A	N/A

Enclosure [2] - ZONE D3: POL Activities Map



Enclosure [2] - ZONE D3: POL Activities Map

D3 Flushing Zone Petroleum Facilities Tile 2





DEPARTMENT OF THE NAVY

COMMANDER
NAVY REGION HAWAII
850 TICONDEROGA ST STE 110
JBPHH HI 96860-5101

COMNAVREGHIINST 11330.2D

N4

19 Sep 2016

COMNAVREG HAWAII INSTRUCTION 11330.2D

From: Commander, Navy Region Hawaii

Subj: BACKFLOW PREVENTION AND CROSS-CONNECTION CONTROL PROGRAM

Ref: (a) Recommended Practice for Backflow Prevention and Cross-Connection Control, (AWWA Manual M14), American Water Works Association
(b) MIL-HDBK-I 005/7, Military Handbook Water Supply Systems
(c) State of Hawaii, Department of Health, Administrative Rules Title 11, Chapter 21, Cross-Connection and Backflow Control
(d) NAVFACINST 11330.11E
(e) Manual of Cross-Connection Control, Foundation for Cross-Connection Control and Hydraulic Research, University of Southern California
(f) NAVFAC MO-210, Maintenance and Operation of Water Supply, Treatment, and Distribution Systems

1. Purpose. To supplement current Navy directives pertaining to the protection of the Base potable water supply.

2. Cancellation. COMNAVREGHIINST 11330.2C.

3. Definitions. References (a) through (c) define technical terms used herein as follows:

a. Backflow. The reversal of the normal flow of water caused by either backpressure or back-siphonage.

b. Back-pressure. The flow of water or other liquids, mixtures or substances under pressure into the distribution pipes of a potable water supply system from any source or sources other than the intended source.

c. Back-siphonage. The flow of water or other liquids, mixtures or substances into the distribution pipes of a potable water supply system from any source other than its intended source caused by the sudden reduction of pressure in the potable water supply system.

d. Backflow Preventer. A device or means designated to prevent backflow. These include:

(1) Air Gap. The unobstructed vertical distance through the free atmosphere between the lowest opening from any pipe or faucet supplying water to a tank, plumbing fixture, or other device and the flood level rim of said vessel. An approved air-gap must be at least double the diameter of the supply pipe, measured vertically, above the top of the overflow rim of the vessel, and in no case less than six inches.

(2) Reduced Pressure Principle Device. An approved assembly of two independently acting approved check valves together with a hydraulically operating, mechanically independent pressure relief valve located between the check valves, as described in reference (b) and specified in reference (d).

(3) Double Check Valve Assembly. An approved assembly of two independently operating approved check valves with tightly closing shut-off valves on each end of the check valves, plus properly located test cocks for the testing of each check valve.

(4) Atmospheric Vacuum Breaker. A device designed to not subject to static line pressure and contains a check valve and an air-let valve.

(5) Pressure Vacuum Breaker. A device that is designed to operate under conditions of static line pressure and contains one or two independently operating, spring-loaded air-inlet valves located on the discharge side of the check valve (or valves), plus properly located test cocks, and tightly closing shut-off valves.

e. Certified Tester. A certified tester means three classes of certified testers:

(1) A limited tester - A person trained and qualified to perform periodic testing, inspection, and repairs on the specific devices contained within a specific plant or institution. This person is usually an employee of the plant or institution and assigned the duty of taking care of the backflow prevention equipment as part of his or her overall plant duties, and does not extend to backflow prevention devices that are not part of the specific plant or institution.

(2) A general tester - A person trained and qualified to perform the periodic testing, inspection, and repairs on all devices that are on the market. This person may be an employee of a water agency, an employee of a municipal agency, or an individual operating a backflow device testing service.

(3) A manufacturer's agent - A person who is an employee of a manufacturer of backflow prevention equipment and is thoroughly familiar with the backflow prevention devices produced by his/her employer. This person maybe familiar with other makes and models of backflow prevention devices but is restricted to only his/her employer's products. The Director of the Department of Health, State of Hawaii or his duly authorized representative, must approve all certified testers.

f. Cross-Connection. Any physical connection or arrangement of piping or fixtures between two otherwise separate piping systems, one of which contains potable water for human consumption and the other water for irrigation, fire protection, industrial and other uses, or non-potable water or industrial fluids of questionable safety, through which, or because of which, backflow may occur into the potable water system. This would include bypass arrangements, jumper connections, removable sections, swivel or changeover devices, and any other temporary or permanent devices through which, or because of which backflow could occur.

4. Background

a. Reference (b) presents requirements for the design of water supply systems for naval shore activities. Reference (b) indicates the design requirements for protecting the potable system from contamination by cross-connections with non-potable supplies and units containing polluted water. Reference (b) further indicates the need to protect the potable system from contamination by irrigation systems.

b. Reference (d) sets forth criteria for specifying backflow preventers of the reduced pressure principle type. It requires that such devices have a current Certificate of Approval and provides a list of approved backflow prevention devices.

c. Reference (e) cites methods and devices by which hazards may be eliminated without interfering with the functions of plumbing or water supply distribution systems. It is a comprehensive reference, and covers all aspects of cross-connection control.

d. Reference (f) provides technical guidance for the operation and maintenance of water supply systems at naval shore activities. Chapter 8 of reference (f) describes how the water system becomes contaminated. Chapter 9 reference (f) further requires that approved backflow preventers be installed according to the degree of the hazard involved and indicates the need for periodic testing and inspection of the devices by certified personnel. It also suggests a time interval for inspection and indicates that all devices be tested according to the manufacturer's service instructions. It further points out the requirements for record keeping.

e. To assure the quality of the water at the customer's tap, both the customer and Navy Facilities Engineering Command, Hawaii (NAVFAC HI), the water supplier, must participate in a backflow prevention and cross-connection control program.

5. Policy. Protect the existing potable water system at all times from hazardous cross-connections by the installation, operation, and maintenance of approved backflow preventers. Backflow prevention and cross-connection control measures must be in accordance with the recommendations and requirements of references (a) through (f).

6. Discussion

a. The objectives of the backflow prevention and cross-connection control program are to achieve the following:

- (1) Protection of the quality of the base water supply.
- (2) Elimination of existing hazards.
- (3) Prevention of future unprotected cross-connections.

b. The backflow prevention and cross-connection control program requires the following:

- (1) The survey all existing cross-connections to determine they are adequately protected.
- (2) The recording of data on all existing backflow preventers to enable up-to-date monitoring. The data must include at least the following information:
 - (a) Activity name.
 - (b) Building number (if appropriate).
 - (c) Sketch of approximate location of backflow preventer.
 - (d) Size, type, model number, and manufacturer of the backflow preventer.
 - (e) Date installed (if known).
 - (f) Type of Hazard.
- (3) Operate, maintained and repair all known existing backflow preventers to ensure their proper operation for the protection of the water system.
- (4) Inspect and test all existing backflow preventers at the minimum time intervals to determine their effectiveness as shown in the table. If successive tests on a backflow preventer indicate repeated failures, test preventer at more frequent interval to be determined by NAVFAC HI Utilities and Energy Management Department, Potable Water Division (OPC61). All testing must be performed in accordance with the manufacturer's instruction.

<u>METHOD OR DEVICE</u>	<u>3 MONTHS</u>	<u>6 MONTHS</u>	<u>12 MONTHS</u>
Pressure Type Vacuum Breaker			X
Double Check Valve Assembly			X
Reduce Pressure Principle devices used for shore-to ship connections	X		

<u>METHOD OR DEVICE</u>	<u>3 MONTHS</u>	<u>6 MONTHS</u>	<u>12 MONTHS</u>
Other Reduced Pressure Principle device		X	
Air Gap			X
Reduced Pressure Principle devices used to separate the Navy's potable water system from another agency's potable water system			X

(5) Review all plans and specifications or sketches and material description for new connections to NAVFAC HI Potable Water Systems by NAVFAC HI OPC61 to verify the safety of the cross-connections.

(6) Report all known or suspected accidental contamination immediately to NAVFAC HI OPC61 to enable corrective action, and avoid widespread contamination of the water system.

7. Implementation. Maintain the following provisions of the backflow prevention and cross-connection control program by the shore activities as indicated below:

a. All shore activities and other agencies who receive potable water from water systems owned and operated by NAVFAC HI must:

(1) Conduct a Cross-Connection Control and Backflow Prevention Survey of the areas under their jurisdiction including building plumbing, fire protection, exterior hose bibs, lawn irrigation systems, etc. The survey must include an inspection of the consumer's premises for hazards noted in references (a) and (e) and document any findings observed during the survey. The survey must also document all existing backflow preventers. The activity is responsible for funding the survey.

(2) Conduct follow-up surveys of the areas under their jurisdiction within 5 years after the initial survey to update the status of the initial findings and provide new information, findings, and recommendations as required. The activity funds the follow-up surveys as a lump sum amount or incremental amounts of the cost determined by NAVFAC HI OPC61.

(3) Take immediate action to eliminate hazards if the survey indicates that there are cross-connection hazards.

(4) Forward copy of all surveys to NAVFAC HI OPC61.

(5) The activity may submit a work request to have NAVFAC HI conduct the survey.

b. All shore activities and other agencies who have existing backflow preventers that do not conform to the requirements of reference (e) and the NAVFAC HI OPC61 and, who receive water from systems owned and operated by NAVFAC HI, must provide funding to have their backflow preventers tested and certified by certified testers from NAVFAC HI OPC61.

c. All shore activities and other agencies who have requirements for new backflow preventers and who receive water from systems owned and operated by NAVFAC HI must:

(1) Provide funding to have their backflow preventers installed, tested, and certified.

(2) Provide funding for the re-testing and re-certification of the backflow preventer should the backflow preventer fail the initial test.

(3) Ensure initial certification and all re-certification is performed by NAVFAC HI OPC61. Certification by other agencies is not accepted.

d. All shore activities and other agencies who have existing backflow preventers registered with NAVFAC HI OPC61 will have their devices inspected, maintained, and certified by NAVFAC HI funding for the inspection, maintenance, and certification must be provided by NAVFAC HI OPC61.

e. The activities who are responsible for the design of the connection to a NAVFAC HI Potable Water System must submit construction drawings and specifications for the connection to NAVFAC HI OPC61 for approval, prior to its construction.

f. NAVFAC HI job planners must obtain approval for the connection to the NAVFAC HI Potable Water System from NAVFAC HI OPC61, if NAVFAC HI is to perform the work and construction drawings are not required for the connection.

g. The activity who requires the connection to NAVFAC HI Potable Water System must obtain approval for the connection from NAVFAC HI OPC61 prior to construction of the connection.

h. All shore activities who install backflow preventers or administer contracts for their installation NAVFAC HI must ensure that all newly installed backflow preventers are tested and inspected by a certified tester from NAVFAC HI OPC61 at the same time that the water outage occurs for the connection to the water system. Backflow preventer must pass all tests prior to supplying potable water.

19 Sep 2016

i. All activities that suspect that the potable water system may have been contaminated must call NAVFAC HI OPC61 Steam/Air/Potable Water Division Manager, telephone number 473-0388. In addition, warn all personnel in the area of the possible contamination to stop drinking the water.


8. Responsibility

a. Commanding Officers and Officers-in-Charge of shore activities must ensure that hazards from cross-connections are eliminated and that new connections are approved.

b. Commanding Officers and Officers-in-Charge of shore activities in doubt as to the proper methods of backflow prevention and cross-connection control may request engineering and technical assistance from NAVFAC HI (Code 431), Long Range Maintenance Planning Branch, telephone number (808) 474-3700.

9. Records Management. Manage all records created by this instruction, regardless of media or format per SECNAV Manual 5210.1 of January 2012.

10. Review and Effective Date. Per OPNAVINST 5215.17A of 26 May 2016, the Facilities and Environmental (N4) will review this instruction annually on the anniversary of its issuance date to ensure applicability, currency, and consistency with Federal, DoD, SECNAV, and Navy policy and statutory authority using OPNAV 5215/40. This instruction will automatically expire 5 years after its issuance date unless reissued or canceled prior to the 5-year anniversary date, or an extension has been granted.

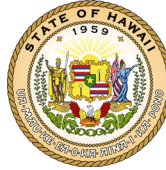


R. A. ESPINOSA
Chief of Staff
Acting

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Interagency Drinking Water System Team
Zone D3 Removal Action Report
March 2022

Line of Evidence 2a

Water within the Distribution System does not exceed State and Federal Drinking Water MCLs, Specified State EALs, and ISPs

Table 1: Lines of Evidence Under Evaluation – Ensure no contamination remains in the system and water chemistry concerns are addressed.

Objective 2a - Water within the distribution system does not exceed State and Federal DW MCLs, specified State EALs, and ISPs.

Incident Specific Criteria –

- Zone flushing plan demonstrates entire distribution system is flushed.
- Sample results show the water in distribution system does not exceed State and Federal DW MCLs, specified State EALs, and ISPs. (Guidance Table 2 and Table 3)
- Drinking water does not show sheen, olfactory evidence, or other qualitative methods of petroleum.

Lines of Evidence	Completion Status	Outstanding Items
JBPHH water system's approach to flushing and their metrics for success.	Complete	<ul style="list-style-type: none"> • None.
Validity of the volumetric exchange model	Complete	<ul style="list-style-type: none"> • None.
Verification that the entire distribution system is flushed volumetrically.	Complete	<ul style="list-style-type: none"> • None.
Residential Sampling Report for Flushing Zone (Risk Management Summary)	Complete	<ul style="list-style-type: none"> • None.

February 19, 2022

From: Naval Facilities Engineering Systems Command Representative, IDWS Team
To: Interagency Drinking Water System Team

SUBJ: SUMMARY OF LINE OF EVIDENCE OBJECTIVE 2A – WATER WITHIN THE DISTRIBUTION SYSTEM DOES NOT EXCEED STATE AND FEDERAL DW MCLs, SPECIFIED STATE EALs, AND ISPs

Encl: (1) 2a.1 Memorandum for Record
(2) 2a.2 Validity and Application of Volumetric Exchange Method
(3) 2a.3 Hydraulic Model
(4) 2a.4 Records of Completed Volumetric Exchanges
(5) 2a.5 Water Source and Water Storage Facilities
(6) 2a.6 Distribution System Exceedance Investigation Summary and Results

1. Enclosures (1) through (6) document completion of Line of Evidence 2a, that water within the Zone D3 distribution system does not exceed State of Hawaii and Federal Drinking Water standards, Maximum Contaminate Levels, Environmental Action Levels and Incident Specific Parameters. On the evening of November 28, 2021, the Red Hill Shaft was secured from operation and all pumping operations ceased. The Aiea/Halawa shaft briefly served as the secondary source starting on November 28, 2021, but it was shut down on December 3, 2021 to prevent potential westward contaminant migration in the aquifer and because there were concerns over high chloride concentrations caused by saltwater intrusion. Since December 3, 2021, the Waiawa Shaft has been the sole water source providing potable water to the Joint Base Pearl Harbor-Hickam (JBPHH) distribution network. Zone D3 is part of the JBPHH Drinking Water system that is operated and maintained by the United States Navy. Flushing operations for Zone D3 are summarized in Enclosure (1), signed by LCDR Carl Chase, team lead for the Drinking Water Distribution System Recovery Team.

2. Details on the drinking water system and flushing operations and protocols are provided in Enclosures (1), (3), and (5). The guidance provided by Dr. Whelton on the recommended volume exchanges to be flushed in the distribution system is provided in Enclosure (2).

3. The records of the distribution system volumetric exchanges flushed are provided in Enclosure (4). Level 2 sampling data collected after distribution flushing is summarized in Enclosure (6).

4. Sample results with analyte detections exceeding the prescribed MCL, EAL, or ISP are documented in Enclosure (6). The follow-on investigation summary and additional sampling results are also documented in Enclosure (6).

5. The information provided in Section 2a, including the flushing process followed and the subsequent sampling results, demonstrate that water within the Zone D3 distribution system does not exceed State of Hawaii and Federal Drinking Water standards, Maximum Contaminate Levels, Environmental Action Levels and Incident Specific Parameters.

6. I certify under penalty of law that I have personally examined and I am familiar with the information submitted and I believe the submitted information is true, accurate, and complete.

WETZEL.CHRISTOP
HER.JAMES.154019
4862

Digitally signed by
WETZEL.CHRISTOPHER.JAMES.15
40194862
Date: 2022.02.19 19:37:51 -08'00'

C. J. Wetzel
LT, CEC, USN

MEMORANDUM FOR THE RECORD

From: LCDR Carl Chase, JBPHH Drinking Water Distribution System Recovery Team
To: Interagency Drinking Water System Team

Subj: DISTRIBUTION SYSTEM RECOVERY PLAN ADDENDUM – ZONE D3 ANALYSIS

Ref: (a) Memorandum for the Record from LCDR John Daly regarding the Distribution System Zone Flushing, December 28, 2021
(b) State of Hawaii Department of Health, Directive One– Flushing Requirements Navy Water System Incident, Case No.: 20211128-1848 (HI Directive One, dated 08 December, 2021)
(c) Drinking Water Distribution System Recovery Plan, 17 December 2021
(d) Incident Specific Criteria to Meet Lines of Evidence Objectives 1c and 2a, dated 05 January 2022

1. OBJECTIVE: The Drinking Water Distribution System Recovery Plan (DWDSRP) was signed by the Interagency Working Group on 17 December 2021. This addendum provides additional technical information to document the system flushing methodology and engineering approach used to restore Flushing Zone D3 to service as requested by the State of Hawaii Department of Health (HI DoH) in reference (d).

2. BACKGROUND:

2.1. Portions of the Navy water distribution system serving JBPHH and surrounding areas were exposed to low levels of fuel contamination with initial indications in the form of smell reports occurring on or about 28 November 2021.

2.2. Prior to the aquifer contamination incident (incident), water users connected to the Navy's system were supplied by three Navy owned water sources, Red Hill Shaft, Aiea/Halawa Shaft and Waiawa Shaft. In the time period prior to the incident, Waiawa Shaft was the main water source supplying approximately 16 million gallons per day (MGD) to the JBPHH system with at least one pump operating full time (100%). A single Red Hill Shaft pump was operated intermittently as a secondary source to supply approximately 5.5 MGD to the system. The Aiea/Halawa shaft was not being operated due to concerns over high chloride concentrations caused by saltwater intrusion into the aquifer.

2.3. On the evening of 28 November 2021, the Red Hill Shaft was secured and all pumping operations ceased. The Aiea/Halawa shaft briefly served as the secondary source starting on 28 November 2021 but was shut down on 03 December 2021 to prevent westward contaminant migration in the aquifer.

2.4. Since 03 December 2021, Waiawa Shaft has been the sole water source providing potable water to the distribution network. It is located 5.5 miles west of the Red Hill Fuel Facility and testing has not found any water quality issues at this source.

3. ENGINEERING ANALYSIS AND TOOLS: DWDSRP development utilized engineering judgement informed by existing tools and data sources such as ArcGIS, Supervisory Control and Data Acquisition (SCADA) system historic/current data, hydraulic models, and input from water system infrastructure contamination subject matter experts (SMEs).

3.1. ArcGIS was the primary tool used for mapping, volumetric calculations, and spatial analysis of the JBPHH utility systems.

3.2. System flows were measured by meters at key points within the distribution system. Data was recorded and stored by the Navy's SCADA system historian. SCADA is also monitored 24/7 by water system operators.

3.3. A hydraulic model was developed in 2014 and calibrated to conditions at the time. It is a skeletonized model depicting major transmission lines to many areas of the base. It does not include all mainline pipes, the Hickam area, or laterals feeding residence and non-residence facilities. The model was considered to be of limited use in determining the effectiveness of system flushing. It was primarily used to determine areas that were most likely impacted by the contamination event. The results directly correlated with initial reporting from impacted residents.

3.4. Dr. Andrew Whelton, a Purdue University associate professor of civil, environmental, and ecological engineering and recognized for his expertise in disaster response and recovery, provided recommendations to the US Navy based on his research and experience. His work is often cited in EPA literature and he is a leading expert in the field of recovering contaminated drinking water plumbing. His recommendations were incorporated into the DWDSRP.

4. CONSTRAINTS: In addition to Section 1.3 of the DWDSRP, the following constraints were considered during development of the plan:

4.1. Waiawa Shaft pumps are capable of pumping 19 MGD with 2 pumps running at full speed. There are 4 pumps at Waiawa Shaft, 2 are operational, one is standby, and one is down for maintenance. Average daily demand at JBPHH since the incident has ranged from 11 to 14 MGD. Maximum potable water system flushing flows were limited to 5 MGD to avoid excessive drawdown of the S1/S2 tanks and stay within the capacity of Waiawa Shaft pumps.

4.2. The two 6 million gallon (each) tanks, S1 and S1 could not be drawn down below the 28-foot level. This constraint was imposed by the water system operators who wanted to avoid low water system pressures that would be caused by S1/S2 drawdown below 28-feet.

4.3. Discharge to the Navy's sanitary sewer system and the Fort Kamehameha Wastewater Treatment Plant (Ft. Kam WWTP) was limited to 1 MGD by wastewater operations staff. Much of the infrastructure Ft. Kam WWTP was considered to be in poor condition and some process elements do not have a backup unit. The direct discharge of too much potable water to the plant was also thought to pose the risk of "wash out" of the microbes that provide secondary treatment.

4.4. Discharges of potable water to land or storm sewers were required by HI Directive One to be treated prior to discharge. Treatment was provided through 1 MGD mobile granular activated carbon (GAC) units. The units had several constraints on their use including site access, adequate staging areas that were level with sufficient area for the units and support crews, impacts to the community, traffic control, and distance to discharge. Each GAC was kept in a single location for at least 24 hours due to labor and time required for unit setup and breakdown.

4.5. Water service was required be maintained to residents and JBPHH tenants. Many families have remained in their homes and mission essential Government activities require continuous water service.

4.6. JBPHH did not have an established unidirectional flushing plan developed prior to the incident. Unidirectional flushing typically involves inducing one-way flow through each pipe segment in a water distribution system by closing mainline isolation valves and opening hydrants for a short period of time. The number of hydrants required would be determined by the pipe size and the minimum water velocity required to flush sediments and other contaminants from the pipe segment. True unidirectional flushing of the system was determined not to be a feasible method for flushing the JBPHH potable water system for the following reasons:

4.6.1. Per section 1.2 of the DWDSRP, the distribution system was to be recovered with critical urgency. Additionally, SMEs advised that the longer contaminants remained in the system, the more likely it was that they would migrate into plastics, gaskets, sediments, etc. A unidirectional flushing program would take several months to develop and implement and the timeline was not considered feasible for a return to service.

4.6.2. Water system operators indicated that many mainline isolation valves would not properly close and could not be relied upon to isolate pipe segments.

4.7. Dr. Whelton recommended three volumetric turnovers for impacted pipe networks. Flushing zones with higher risk of contamination were identified and prioritized using water user complaint history, testing results, the hydraulic model, and the hydraulic proximity to Red Hill Shaft. A factor of safety was applied to the highest priority zones by specifying a minimum of five volumetric turnovers. Zones where the hydraulic modelling indicated that contamination may have travelled, were in close hydraulic proximity to Red Hill Shaft, and had few complaints were flushed with the recommended three volumetric turnovers. Low priority was given to zones where SCADA data indicated that water was fed solely from Waiawa Shaft before and after the incident. To reduce water waste, flush zones with lower risk of contamination were volumetrically turned over a minimum of once or twice.

5. Following Dr. Whelton's recommendation, the DWDSRP was designed with a directional flush of the distribution system starting from the clean water source and moving systematically through the entire system. The limited water source capacity at Waiawa Shaft and disposal constraints required that the system be broken down into smaller flush zones. 19 total zones were established that could be independently flushed without adverse hydraulic or water quality impacts to previously flushed zones. Section 2.4 of the DWDSRP depicts the network diagram and zone relationships.

6. FLUSH ZONE D3:

6.1. DESCRIPTION OF FLOW: This zone is fed from the east through several connections to D2. The zone is also connected to the "F" zones through two 16-inch connections. Flow in these connections may reverse depending on demand conditions. See Figure 1 for a schematic representation of Zone D3.

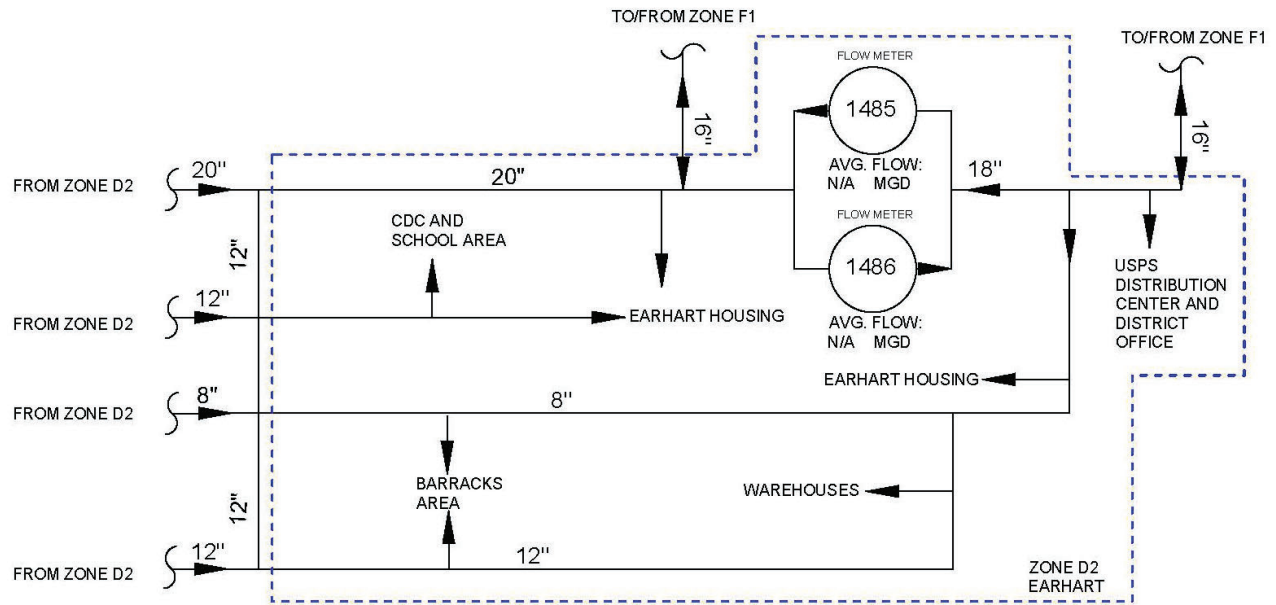


Figure 1. Zone D3 Schematic

6.2. WATER USE/TENANTS: Water users in this zone are mostly residential housing tenants and barracks facilities. The northern portion of the zone also includes several non-navy institutions and schools. Schools include Assets School, Mokulele Elementary School, School Age Center, Nimitz Elementary School and Holy Family Parish Catholic Academy.

6.3. PIPE VOLUME: Per section 2.5.1.1. of the DWDSRP, Flush Zone D3 has a mainline pipe volume of 280 thousand gallons (KGal). With the exception of the main transmission pipelines, mainline pipes in the zone are 6 to 12-inches in diameter.

6.4. PRIORITY: This zone had a high incidence of water quality complaints and was directly connected to the “F” zones which were the zones that received a high amount of contamination and complaints relative to other zones. Hydraulic modelling also indicated that contamination likely entered this zone. Zone D3 was included in Phase #1 with five volumetric turnovers minimum.

6.5. HYDRANT SELECTION: Fourteen geographically and hydraulically dispersed flushing hydrants were selected to flush Zone D3.

6.5.1. Hydrants 228, 801, 8103, 805 and 812 were selected to flush water from the distribution network serving the school area.

6.5.2. Hydrants 202, 382, 476 and 477 were geographically dispersed throughout the Earhart neighborhood to pull water through the main network loops serving the neighborhood.

6.5.3. Hydrants 245, 473, 426, 191 and 143 were geographically dispersed throughout the southern portion of the zone to pull water through the main network loops serving the barracks and warehouse areas.

6.6. DEAD-END LINES: It is possible that flushing was not induced in some small neighborhood loops or longer dead-end lines serving facilities or piers. To address this concern, additional distribution water line samples were taken in locations selected in a joint effort by the Navy, DoH, and EPA. These samples are representative of other dead-end lines within the zone.

6.7. FLUSHING ACTUALS: Water was simultaneously discharged through:

143	Shift			Flush Time			Documentation	
Date	Begin	End	Start	Stop	RunTime	Email Summary	UT Log	
4-Jan	8:00	20:00		18:01	1:59	20220104 0800-2000	N/A	
4-Jan	20:00	8:00			12:00	20220104 2000-0800	N/A	
5-Jan	8:00	20:00		10:24	2:24	20220105 0800-2000	N/A	
<div><div>TOTAL RUN @ FLOW of 200</div><div>TIME16:23</div><div>VOLUME189719 Gallons</div></div>								

228	Shift			Flush Time			Documentation	
Date	Begin	End	Start	Stop	RunTime	Email Summary	UT Log	
31-Dec	8:00	20:00		14:56	16:59	2:03 20211231 0800-2000	N/A	
31-Dec	20:00	8:00		22:25	1:09	2:44 20211231 2000-0800	Y	
31-Dec	20:00	8:00		7:15		0:45 20211231 2000-0800	Y	
1-Jan	8:00	20:00		6:30		0:30 20211231 2000-0800	Y	
<div><div>TOTAL RUN @ FLOW of 200</div><div>TIME6:02</div><div>VOLUME69866 Gallons</div></div>								

191	Shift		Flush Time			Documentation	
Date	Begin	End	Start	Stop	RunTime	Email Summary	UT Log
3-Jan	8:00	20:00		14:31 17:00	2:29	20220103 0800-2000	Y
3-Jan	20:00	8:00		22:05	9:55	20220103 2000-0800	Y
4-Jan	8:00	20:00		11:45	3:45	20220104 0800-2000	Y

245	Shift			Flush Time			Documentation	
Date	Begin	End	Start	Stop	RunTime	Email Summary	UT Log	
31-Dec	8:00	20:00		13:59		6:01 20211231 0800-2000	N/A	
					20:38	0:38 20211231 2000-0800	Y	
31-Dec	20:00	8:00		22:00	3:00	5:00 20211231 2000-0800	Y	
31-Dec	20:00	8:00		7:06	8:57	1:51 20211231 2000-0800	Y	
<div><div>TOTAL RUN @ FLOW of 200</div><div>TIME13:30</div><div>VOLUME156330 Gallons</div></div>								

202	Shift			Flush Time			Documentation	
Date	Begin	End	Start	Stop	RunTime	Email Summary	UT Log	
2-Jan	8:00	20:00		16:50	3:10	20220102 0800-2000	Y	
2-Jan	20:00	8:00			12:00	20220102 2000-0800	N/A	
3-Jan	8:00	20:00		10:09	2:09	20220103 0800-2000	Y	

382	Shift		Flush Time			Documentation	
Date	Begin	End	Start	Stop	RunTime	Email Summary	UT Log
4-Jan	20:00	8:00		21:36	10:24	20220104 2000-0800	N/A
5-Jan	8:00	20:00		14:42	6:42	20220105 0800-2000	N/A
<div><div>TOTAL RUN @ FLOW of 100</div><div>TIME17:06</div><div>VOLUME80028 Gallons</div></div>							

426	Shift		Flush Time			Documentation	
Date	Begin	End	Start	Stop	RunTime	Email Summary	UT Log
2-Jan	8:00	20:00		18:06	1:54	20220102 0800-2000	Y
2-Jan	20:00	8:00			12:00	20220102 2000-0800	N/A
3-Jan	8:00	20:00		9:42	1:42	20220103 0800-2000	Y
<div>TOTAL RUN @ FLOW of 200</div> <div><div>TIME</div><div>15:36</div></div> <div><div>VOLUME</div><div>180648 Gallons</div></div>							

477	Shift			Flush Time			Documentation	
Date	Begin	End	Start	Stop	RunTime	Email Summary	UT Log	
31-Dec	8:00	20:00		12:26		7:34 20211231 0800-2000	N/A	
31-Dec	20:00	8:00		20:28		0:28 20211231 2000-0800	Y	
31-Dec	20:00	8:00		22:10	4:31	5:00 20211231 2000-0800	Y	
31-Dec	20:00	8:00		6:55	8:42	1:47 20211231 2000-0800	Y	
<div><div>TOTAL RUN @ FLOW of 200</div><div>TIME14:49</div><div>VOLUME171577 Gallons</div></div>								

473	Shift		Flush Time			Documentation	
Date	Begin	End	Start	Stop	RunTime	Email Summary	UT Log
2-Jan	8:00	20:00		16:00	4:00	20220102 0800-2000	Y
2-Jan	20:00	8:00			12:00	20220102 2000-0800	N/A
3-Jan	8:00	20:00		10:35	2:35	20220103 0800-2000	Y

801	Shift		Flush Time			Documentation	
Date	Begin	End	Start	Stop	RunTime	Email Summary	UT Log
31-Dec	8:00	20:00		12:15	7:45	20211231 0800-2000	N/A
31-Dec	20:00	8:00		5:40	9:40	20211231 2000-0800	N/A
4-Jan	20:00	8:00		21:08	10:52	20220104 0800-2000	N/A
5-Jan	8:00	20:00		12:06	4:06	20220105 0800-2000	N/A
<div><div>TOTAL RUN @ FLOW of 25</div><div>TIME32:23</div><div>VOLUME58290 Gallons</div></div>							

476	Shift		Flush Time			Documentation	
Date	Begin	End	Start	Stop	RunTime	Email Summary	UT Log
4-Jan	8:00	20:00	17:53		2:07	20220104 0800-2000	N/A
4-Jan	20:00	8:00			12:00	20220104 2000-0800	N/A
5-Jan	8:00	20:00	10:17		2:17	20220105 0800-2000	N/A

TOTAL RUN @ FLOW of 200

TIME 16:24

VOLUME 189912 Gallons

805	Shift			Flush Time			Documentation	
Date	Begin	End	Start	Stop	RunTime	Email Summary	UT Log	
31-Dec	8:00	20:00		12:30	19:13	6:43 20211231 0800-2000	Y	
31-Dec	20:00	8:00		22:40	3:15	4:35 20211231 2000-0800	Y	
31-Dec	20:00	8:00		5:40		2:20 20211231 2000-0800	Y	
1-Jan	8:00	20:00		9:06		1:06 20211231 2000-0800	Y	
4-Jan	20:00	8:00		20:54		11:06 20220104 0800-2000	N/A	
5-Jan	8:00	20:00		11:56		3:56 20220105 0800-2000	Y	
<div><div>TOTAL RUN @ FLOW of 25</div><div>TIME29:46</div><div>VOLUME53580 Gallons</div></div>								

812	Shift			Flush Time			Documentation	
Date	Begin	End	Start	Stop	RunTime	Email Summary	UT Log	
4-Jan	20:00	8:00		20:32	1:35	5:03 20220104 0800-2000	Y	
<div><div>TOTAL RUN @ FLOW of 25</div><div>TIME5:03</div><div>VOLUME9090 Gallons</div></div>								

8103	Shift			Flush Time			Documentation	
Date	Begin	End	Start	Stop	RunTime	Email Summary	UT Log	
4-Jan	20:00	8:00		20:29	11:31	20220104 0800-2000	N/A	
5-Jan	8:00	20:00		11:42	3:42	20220105 0800-2000	Y	

TOTAL RUN @ FLOW of 25

TIME 15:13

VOLUME 27390 Gallons

Hydrant Volume	
143	189,719
191	187,017
202	200,527
228	69,866
245	156,330
382	80,028
426	180,648
473	215,195
476	189,912
477	171,577
801	58,290
805	53,580
812	9,090
8103	27,390
TOTAL	1,789,168

6.7.1. The total volume flushed through the system was 1,789 KGal for 6.4 volumetric turnovers. Actual volumetric turnovers exceeded the minimum requirement.

6.8. SCADA DATA: SCADA was an effective tool when meters were located at both the entrance and exit of the zone. Due to the distribution network scale and lack of meters in this zone, information from SCADA provided limited use.

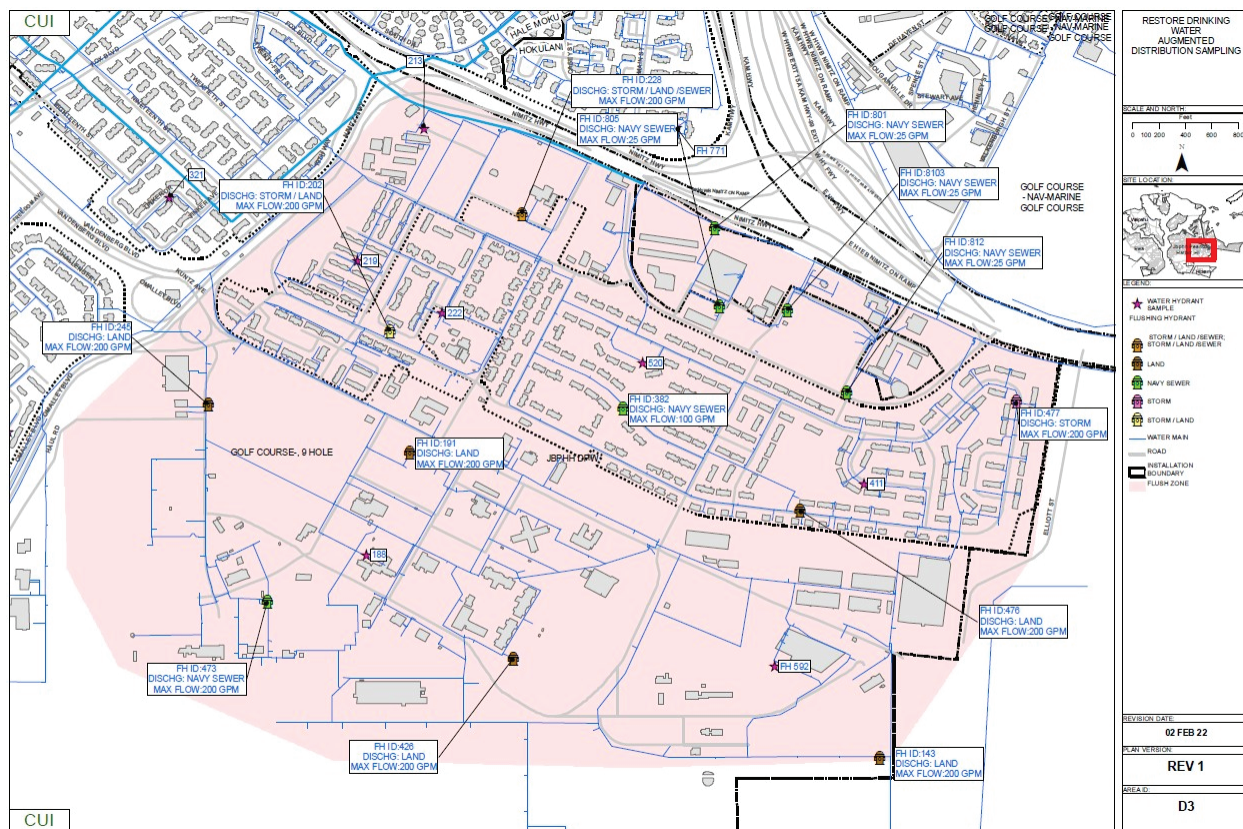


Figure 1: Flush Zone D3

C. C. Chase
 C. C. CHASE

February 15, 2022

From: Naval Facilities Engineering Systems Command Representative, IDWS Team
To: Interagency Drinking Water System Team

SUBJ: VALIDITY AND APPLICATION OF VOLUMETRIC EXCHANGE METHOD

Ref: (a) Drinking Water Distribution System Recovery Plan, December 2021

Encl: (1) Dr. Whelton email documenting volumetric exchange method dtd 08 JAN 22

1. This letter documents the basis of the volumetric exchange method used in the development of reference (a). The basis of the flushing method was based on two key recommendations from Dr. Whelton, who served as the Navy's consultant in the early stages of the incident. Enclosure (1) documents key recommendations from Dr. Whelton which included flushing from a clean source, systematically moving through the entire system, and flushing at least three times the pipe volume. Rules of three is what Dr. Whelton generally recommends.

2. Reference (a) incorporated the recommendations from Dr. Whelton by creating a flushing sequence that began with clean water from the Waiawa shaft and flushing systematically through the entire system. The volumetric exchanges for each zone and zone flushing sequence plan was developed by Navy engineers. This is outlined in table 2.4, Distribution System Recovery Plan Diagram, and section 2.5, Flushing Plan Phasing, of reference (a). A safety factor was applied to the rule of three to obtain five volumetric turnovers for the phase 1 zone areas. Phase 2 zone areas had three volumetric turnovers. Phase 3 zone area had two volumetric turnovers and phase 4 zone areas had one volumetric turnover. The phase 3 and phase 4 zone volumetric turnover determinations were made after considering the up-gradient zone flushing volumes and the non-potable use of water in the zones.

3. I certify under penalty of law that I have personally examined and I am familiar with the information submitted and the submitted information is true, accurate, and complete.

MENO.MICHAEL.WAYNE.JR. Digitally signed by
MENO.MICHAEL.WAYNE.JR.
1088310035 Date: 2022.02.15
07:17:55 -10'00'

M. W. Meno
Captain, U.S. Navy Civil Engineer Corps

****Phone numbers have been redacted****

From: Whelton, Andrew J <[REDACTED]>
Sent: Saturday, January 8, 2022 4:58 AM
To: Lee, Andre K (NAVFAC HI BD) CIV USN NAVFAC HAWAII PEARL (USA) <[REDACTED]>
Cc: Isaacson, Kristofer P <[REDACTED]>; Proctor, Caitlin Rose <[REDACTED]>
Subject: [URL Verdict: Neutral][Non-DoD Source] RE: Cross Connection Control Plan and Flushing Plan documentation requirements for DoH

LCDR Daly,

I am free to talk later this afternoon today if you want. I'm Mountain Standard Time.
Below is some information.

Andy
[REDACTED]

FEEDBACK

1. You applied unidirectional flushing and if you opened hydrants fully you likely maximized velocity in the pipes you were flushing. The issue they seem to be getting at is scouring velocity which you identify. This is used for removing sediment (typical cleaning of water pipes) as you know. There is no SOP for water contamination response and recovery, so you applied standard water distribution system maintenance practice of unidirectional flushing. This is good. The state I think invoked water main disinfection standard which, to my knowledge isn't applicable here unless you conducted shock disinfection.
 - a. For perspective, per a Water Research Foundation study: Microbial Control Strategies for Main Breaks and Depressurization, Project 4307. Published 2014. Denver, Colorado.
 1. Scouring velocity helps removed sediment from water mains/pipes. To achieve 2.5 to 3 log removal of sand particles for 4-to-16-inch diameter PVC pipes, 3 ft/s is needed.
 2. In that report, to achieve this removal for a 6-inch diameter PVC pipe, Q was 308 GPM
 3. In that report, to achieve this removal for 4-inch diameter PVC pipe, Q was 137 GPM
 - b. We recommended starting flushing from the clean water source and moving systematically through the entire system in a unidirectional way. If you all did this, be sure to explain that. That helps minimize the change residual "old" water gets untouched, or is left in the system.
 - c. You could calculate scouring velocities in each of the areas. If any are lower than desired you can go back and just keep repeat flushing giving an added level of safely.
 - d. The state's interest in scouring velocity may be of concern that (JP-5?) free product adsorbed to sediment/scales and they want to be certain it got scoured out. If it didn't, it could dissolve it's constituents into water over time.
 - e. Dead-ends are really important. You need to specifically address how you will get that water out. In West Virginia, many weeks after the spill and utility had flushed out the black-licorice smelling contaminated water out someone in a distal part of the system complained about odor. To my recollection the utility thought it was psychological, but it turned out there was a dead-end they didn't flush. Somehow that contaminated water got drawn into a nearby home and someone was exposed.

- f. Question: How long was each hydrant open typically?
 - g. I think we mentioned flushing 3 times the pipe volume. Rules of three is what I often recommend. Flushing velocity is certainly important. I vaguely remember NAVFAC had contracted a consultant to create the flushing plan.

2. JP-5 isn't a single contaminant which we've talked about before. It's a mixture of 100s-1000s of individual chemicals. Even if JP-5 itself is hydrophobic and primarily found in emulsions or floating on the surface, some of these constituents will still diffuse into the water itself. The question they are likely after is how do you know you removed all parts of JP-5 that may have gotten entrained in the water system? This goes back to what chemicals are you testing for in the water distribution system. JP-5 constituents have different water solubility and octanol-water partitioning coefficients (Log Kow = How much they like to be in biofilm and plastics, not water). Additionally, the different materials (Metal vs PVC vs HDPE vs. gaskets) may be more prone to soaking up some JP-5 contaminants and not others depending on their characteristics. For example, PVC has been shown to be less susceptible to soaking up some crude oil-based contaminants than HDPE pipes (Huang et al. study with Whelton). Ultimately, the fate of the chemicals in the drinking water system will not be the same for all JP-5 constituents. Remember the drawing I drew on the whiteboard when meeting with CDR Chase, NAVFAC, COE, and Army? It showed different constituents may be in different parts of the water system. That's what DOH is likely after. Question to you: What wide screen testing have you done in the water distribution system since December 22? This can help you hunt down that the contaminants are present or gone.

3. Escalation should be based on how much flushing you are okay with trying. If you want to remove and replace infrastructure (that has sometimes happened after other contamination events on the mainland and overseas), it's a viable but laborious option. As an extreme example, following the Camp Fire it was estimated it would take over a year of continuous flushing to return some contaminated pipes to safe use, so for some conditions they removed and replaced pipes. However, this flushing timeline will vary significantly depending on the water distribution systems and water testing results – AND chemicals or individual JP-5 constituents present. If I knew what the chemicals were still being found and what was done to try to get rid of them, I could give a more informed opinion. Food grade surfactants were used in Israel after a drinking water contamination incident...BUT using surfactants is not trivial and can cause all sorts of damage to water system components and leave residual. This probably isn't an email, but more discussion. Happy to talk. If you decide you want to go this way we should be more engaged technically in what this means. It's not likely an email response/effort, but more involved.

4. Here's a paper where we reviewed petroleum (and other material) drinking water distribution and plumbing contamination incidents and flushing [Decontaminating chemically contaminated residential premise plumbing systems by flushing - Environmental Science: Water Research & Technology \(RSC Publishing\) DOI:10.1039/C5EW00118H](https://doi.org/10.1039/C5EW00118H). Unfortunately, when we went to

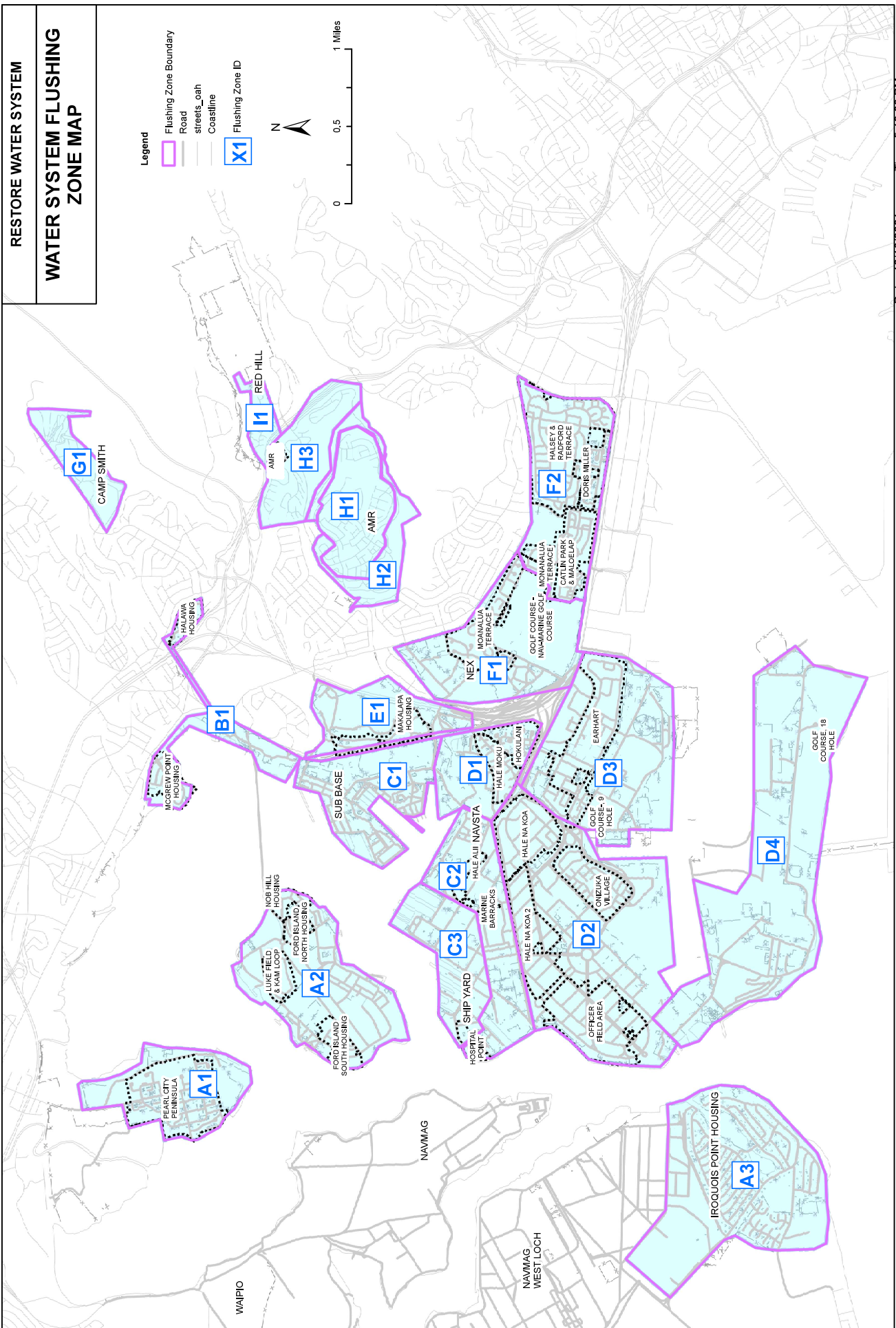
review the underlying evidence of each incident, often the utility and state didn't document much. Even incidents overseas had little documentation. It seems groups simply tried something, it did or didn't work, and they moved on. They also didn't sample much and rarely it an entire water distribution system that was affected.

Again, I can get on a zoom call or phone this afternoon MST to connect. I was called into the Colorado wildfires to help the communities identify and design water sampling and recovery plans. We're getting data every day and meeting with state and federal agencies. This is the Marshall Fire and Middle Fork Fire. I apologize for the delayed response.

Andy

Cell/text: [REDACTED]

**Link to Dr.Whelton's Paper: <https://pubs.rsc.org/en/content/articlelanding/2015/ew/c5ew00118h>





JBP HH Hydraulic Model

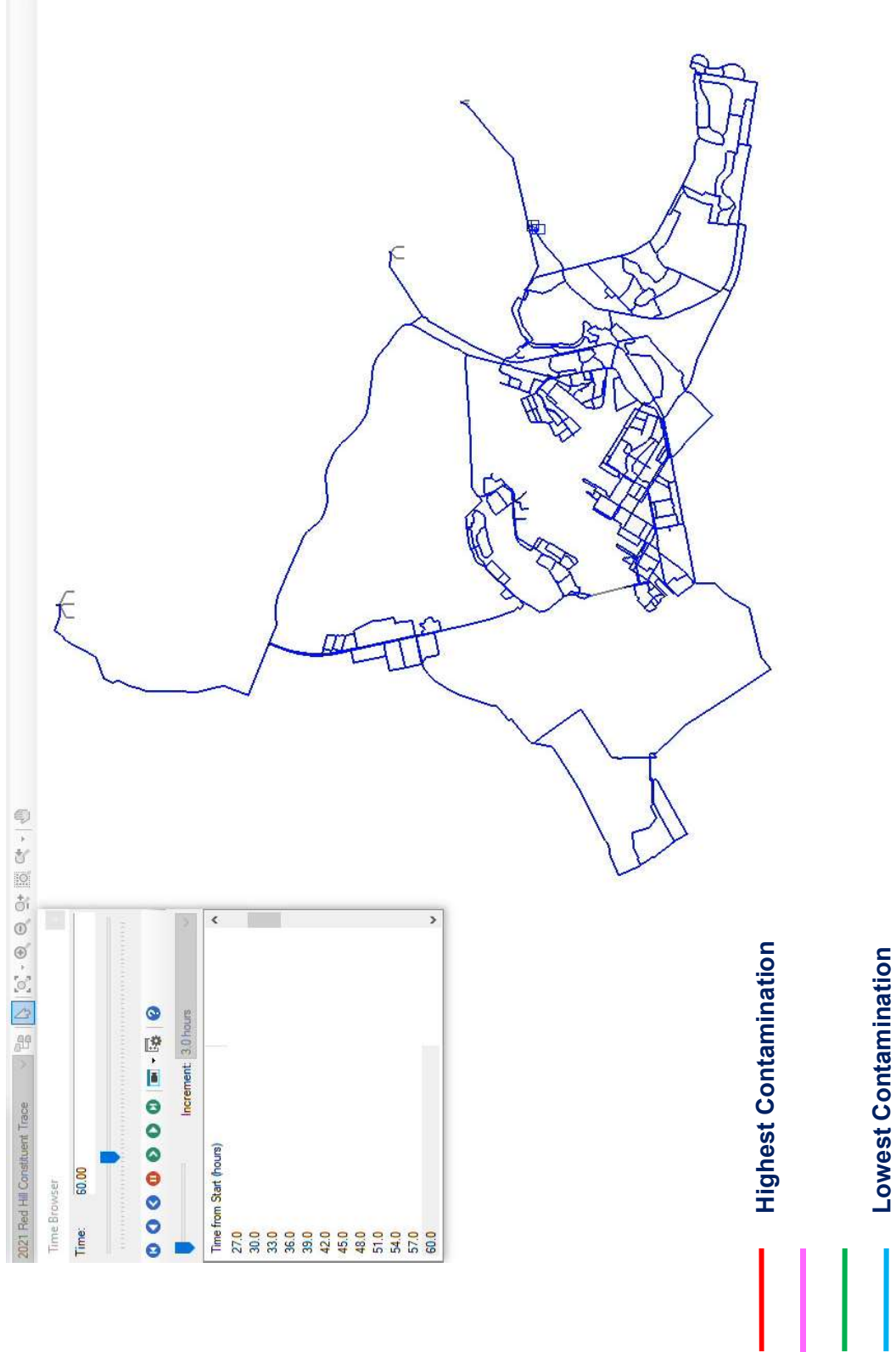
Interagency Drinking Water Supply Team

18 January 2022

CONTROLLED UNCLASSIFIED INFORMATION//CUI

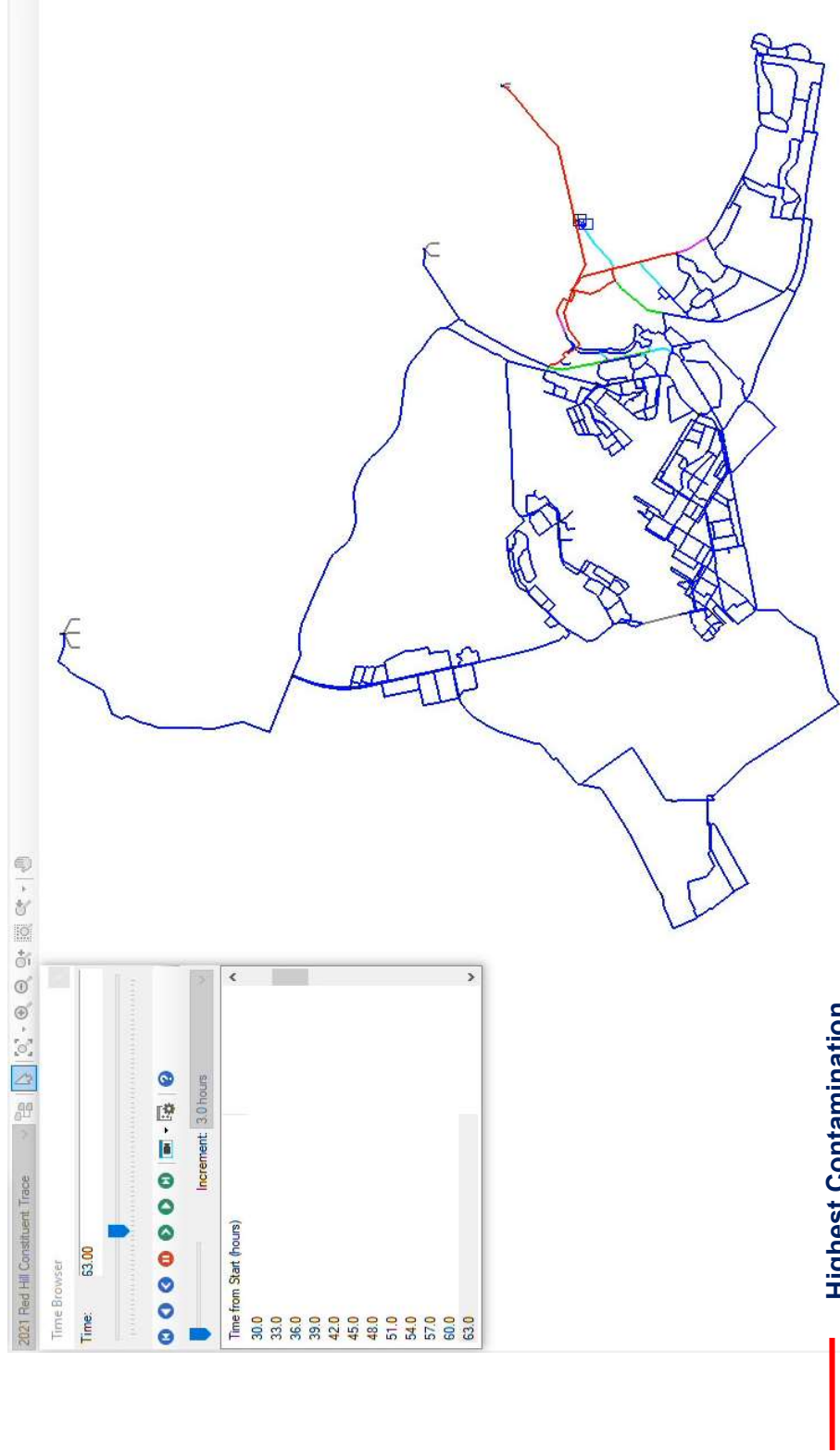


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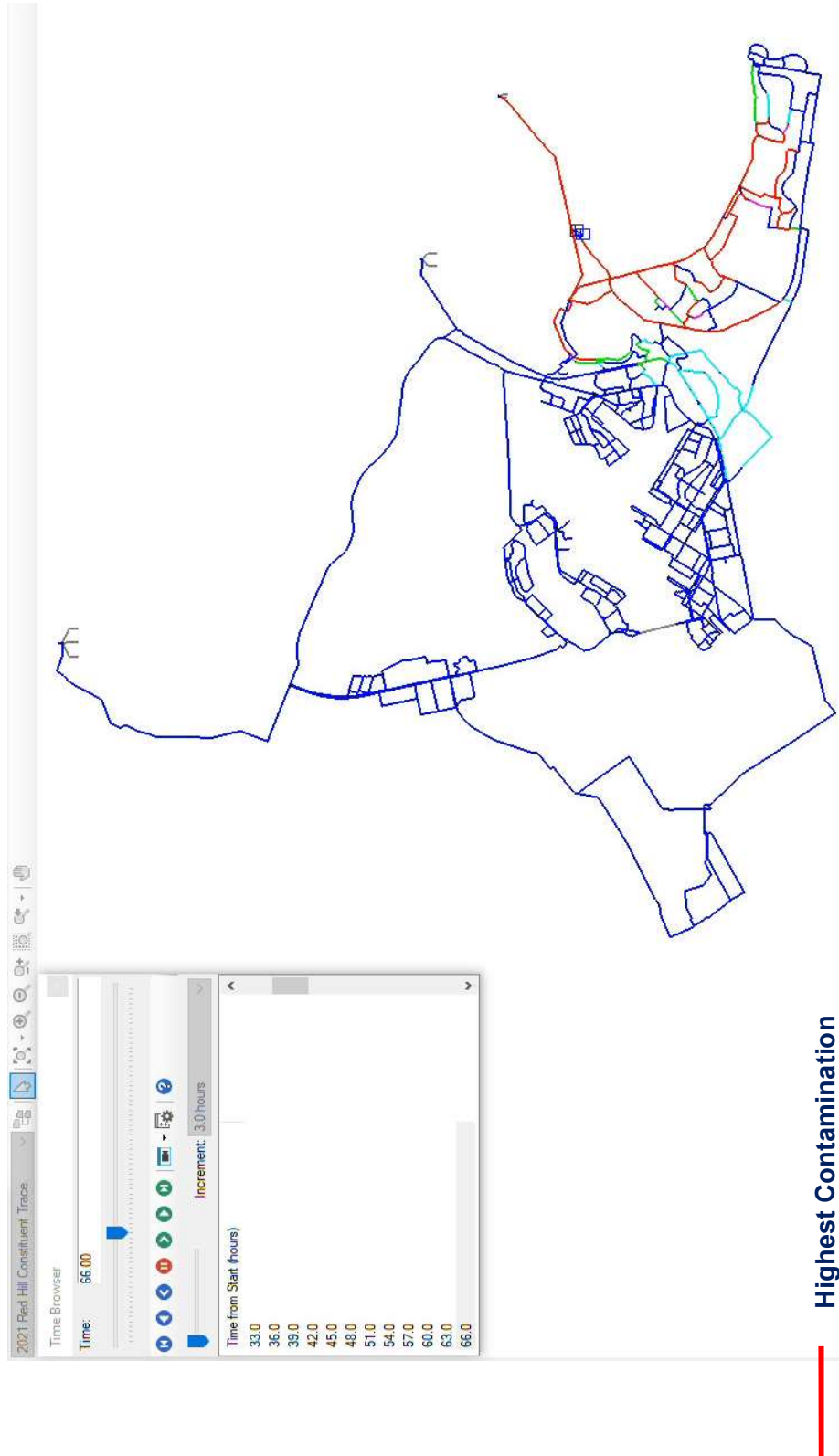


JBP HH Hydraulic Model





JBP HH Hydraulic Model

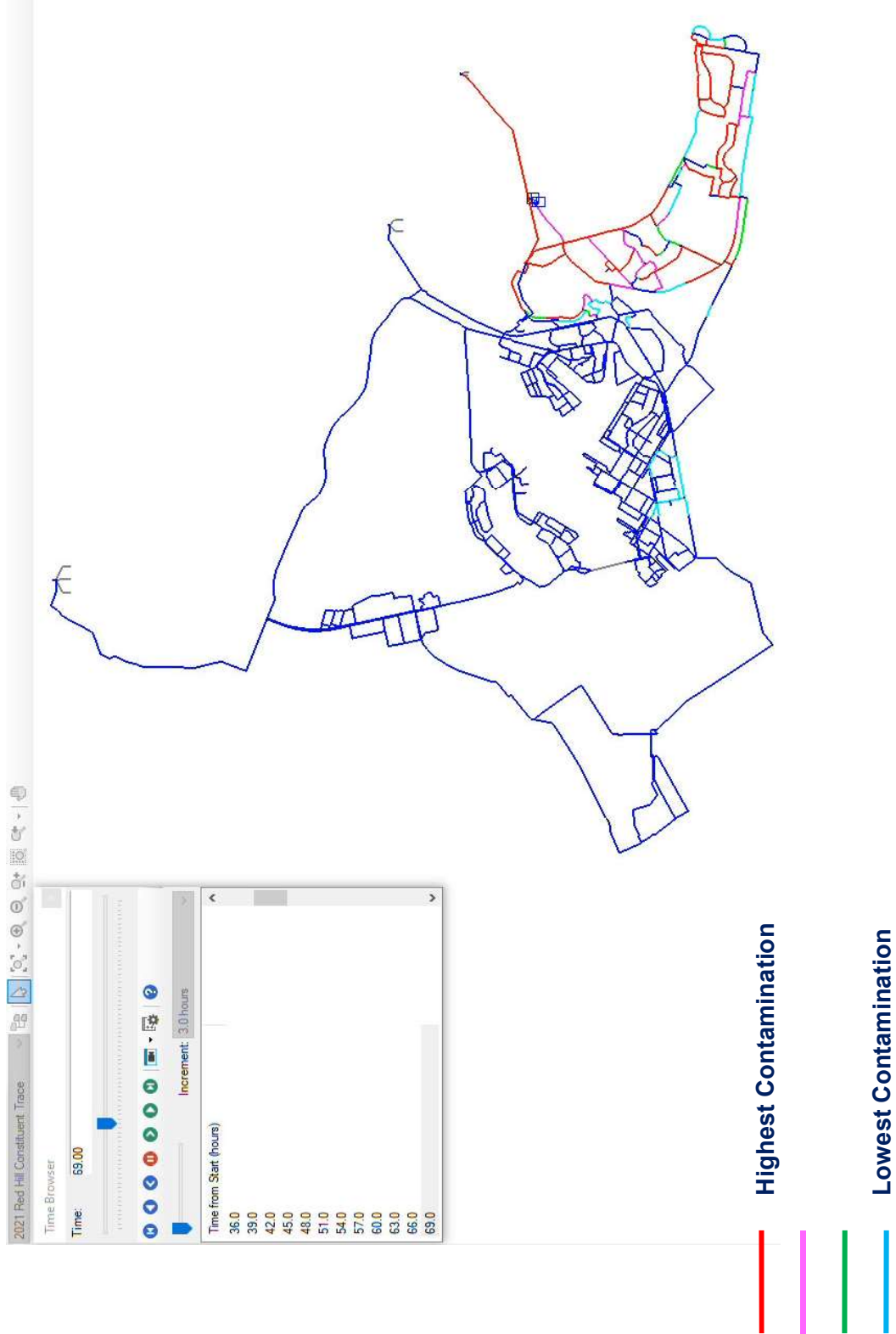


Highest Contamination

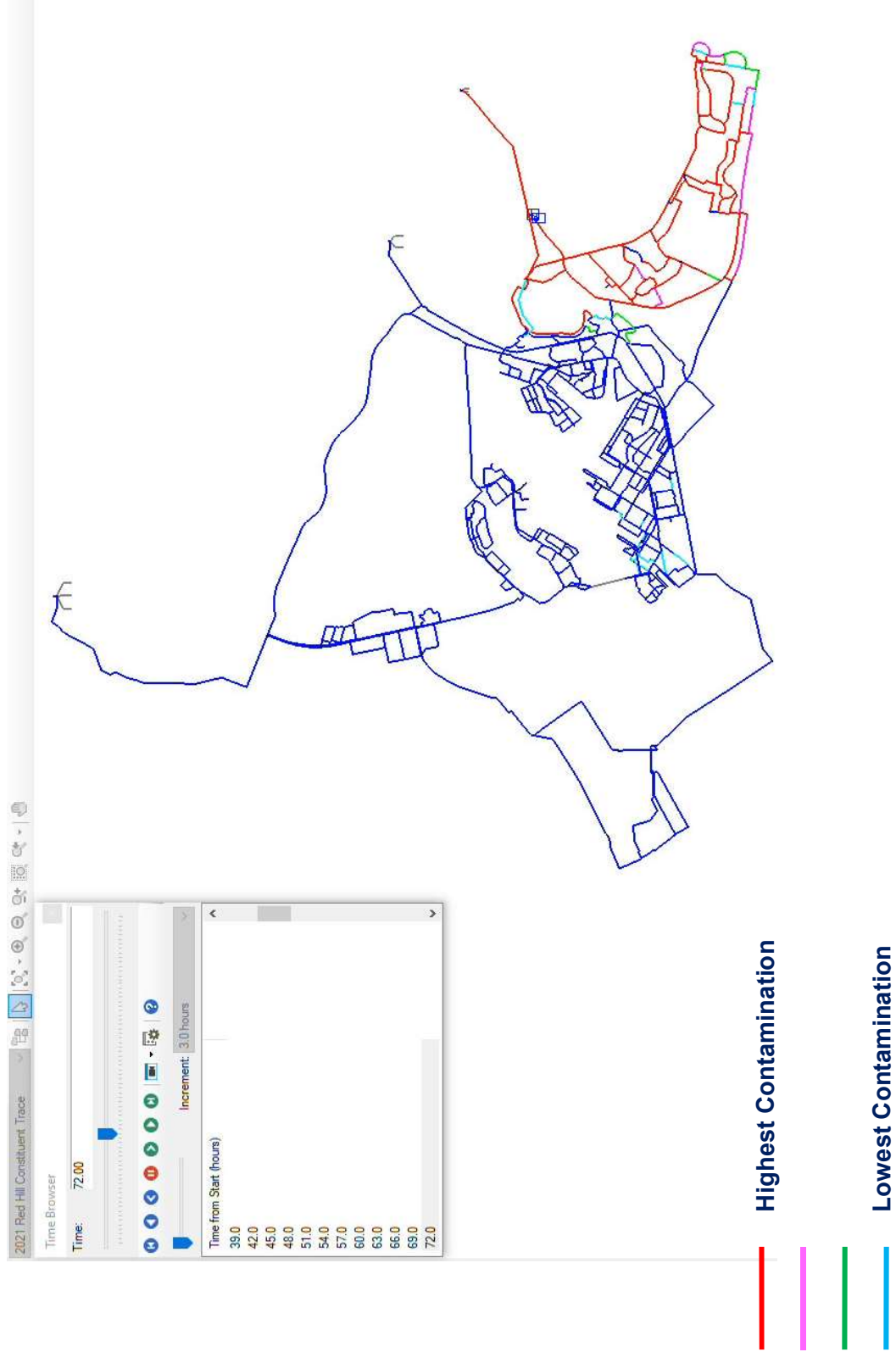
Lowest Contamination



JBP HH Hydraulic Model

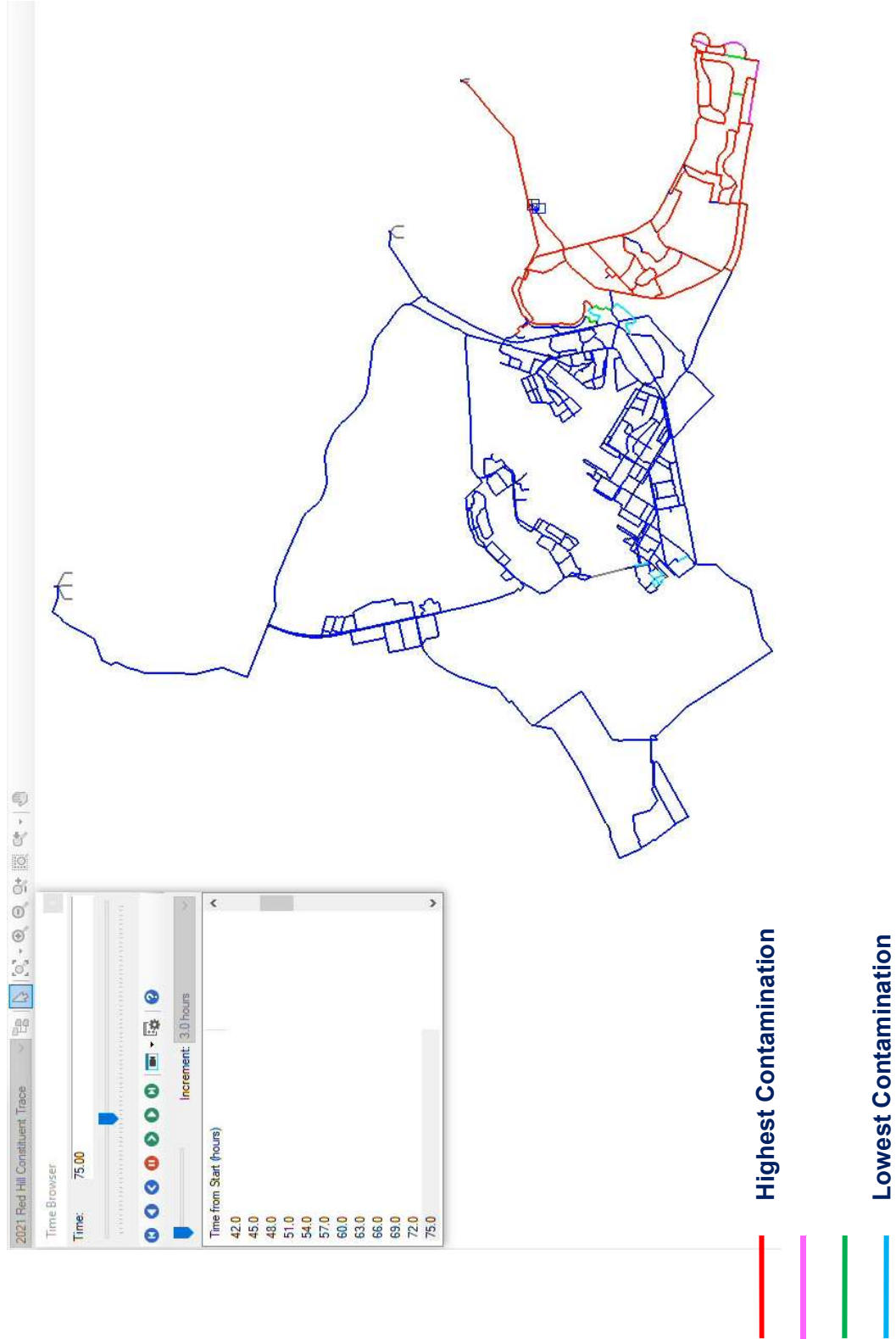


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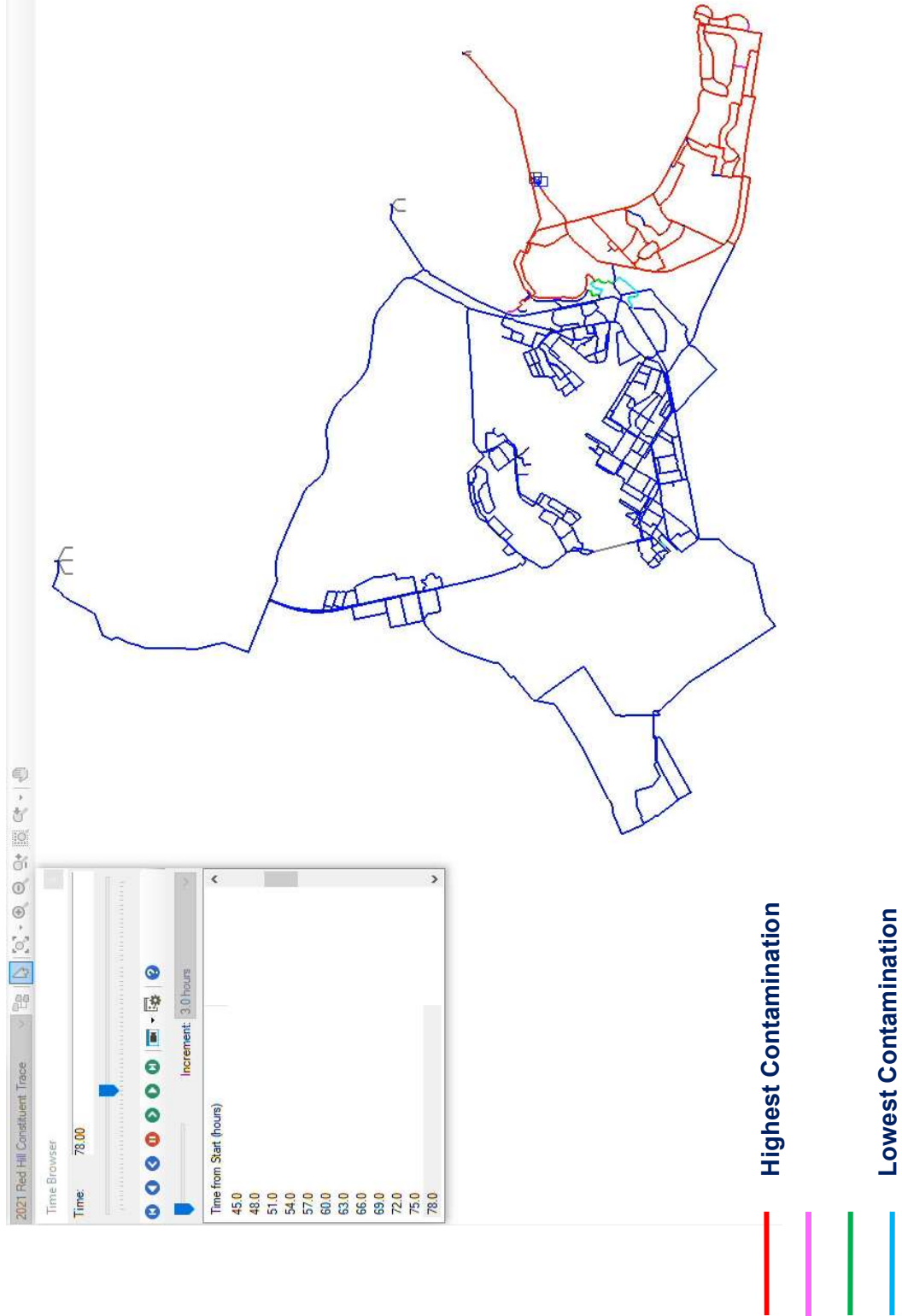


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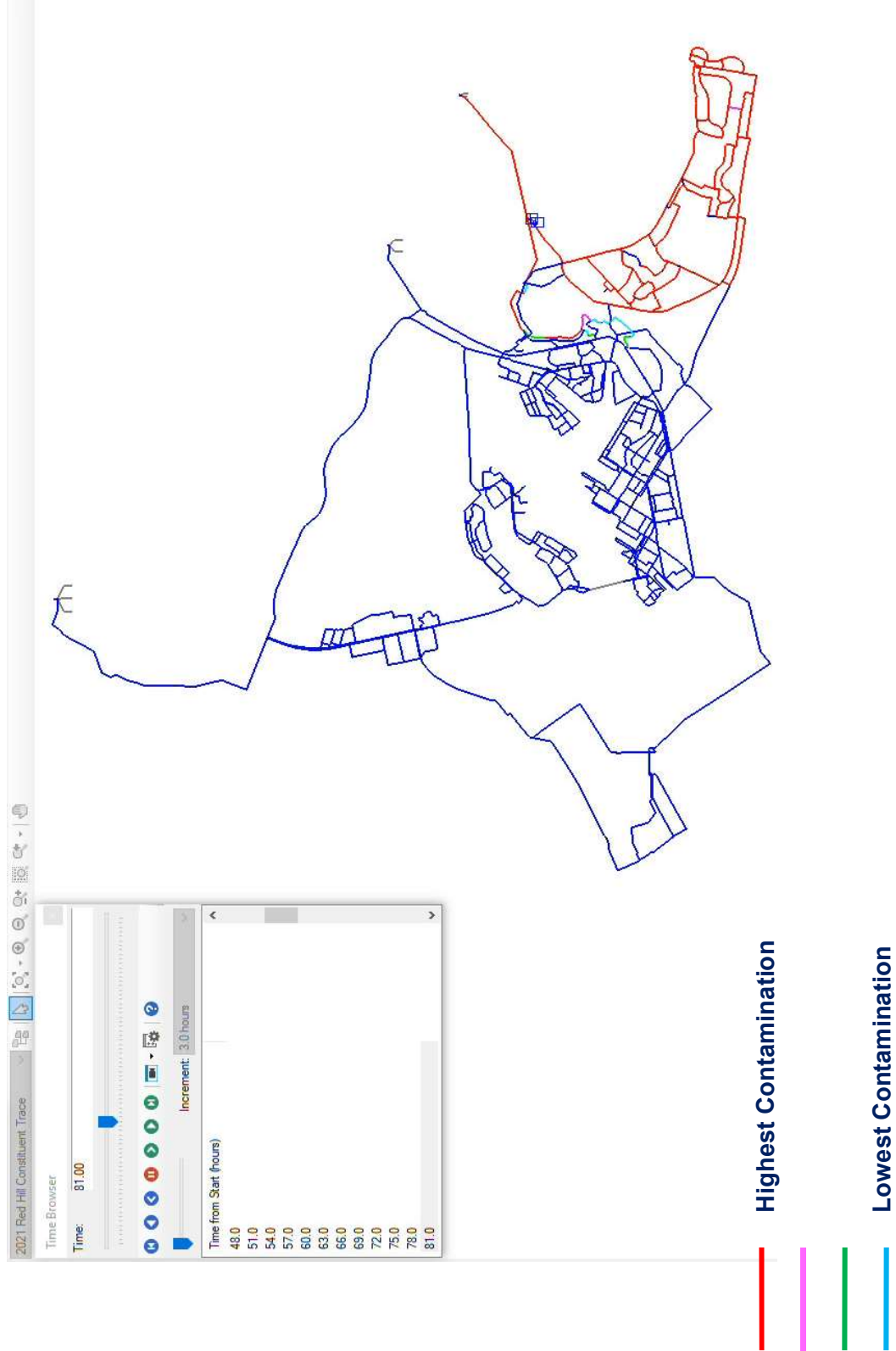


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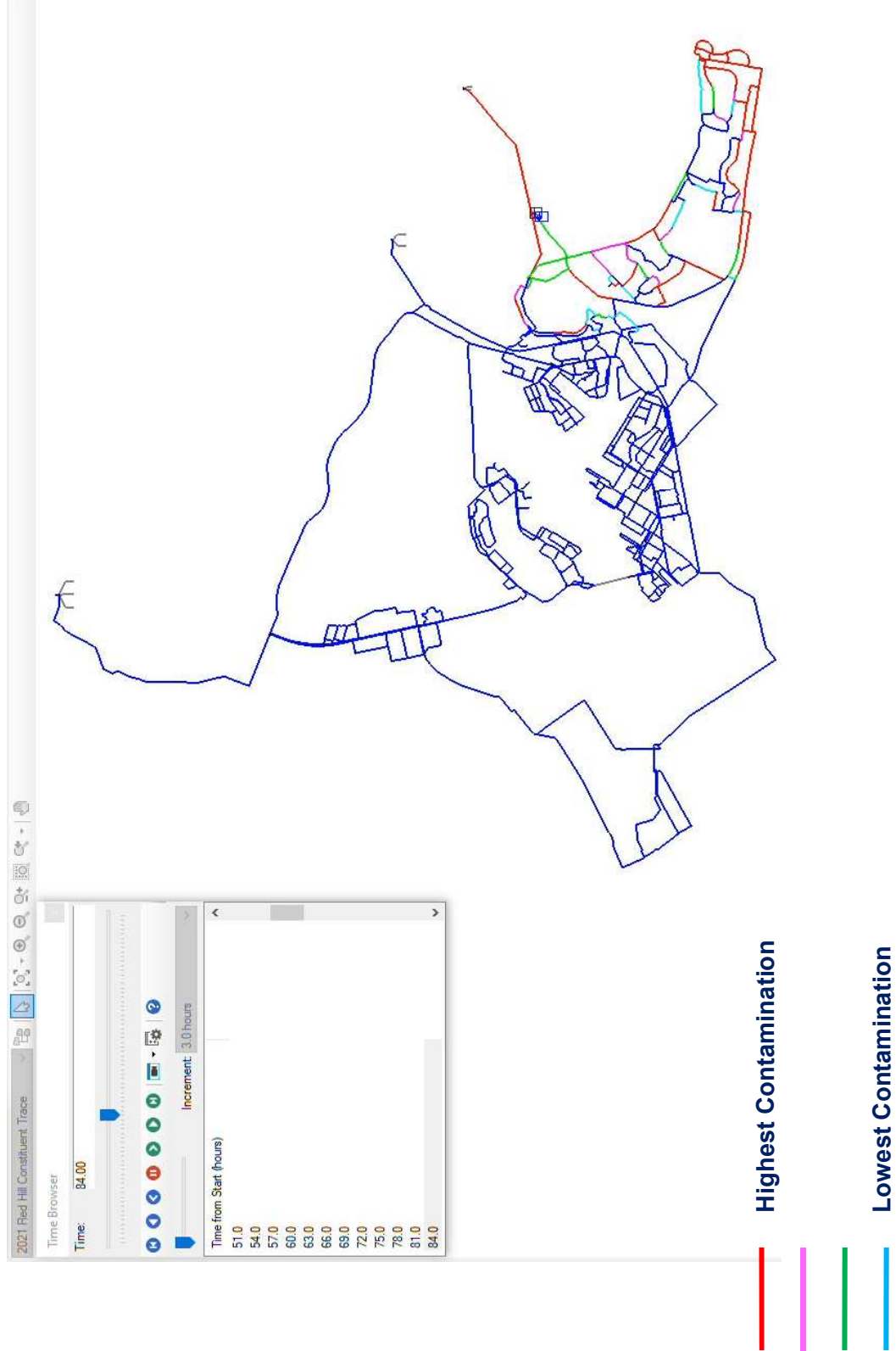


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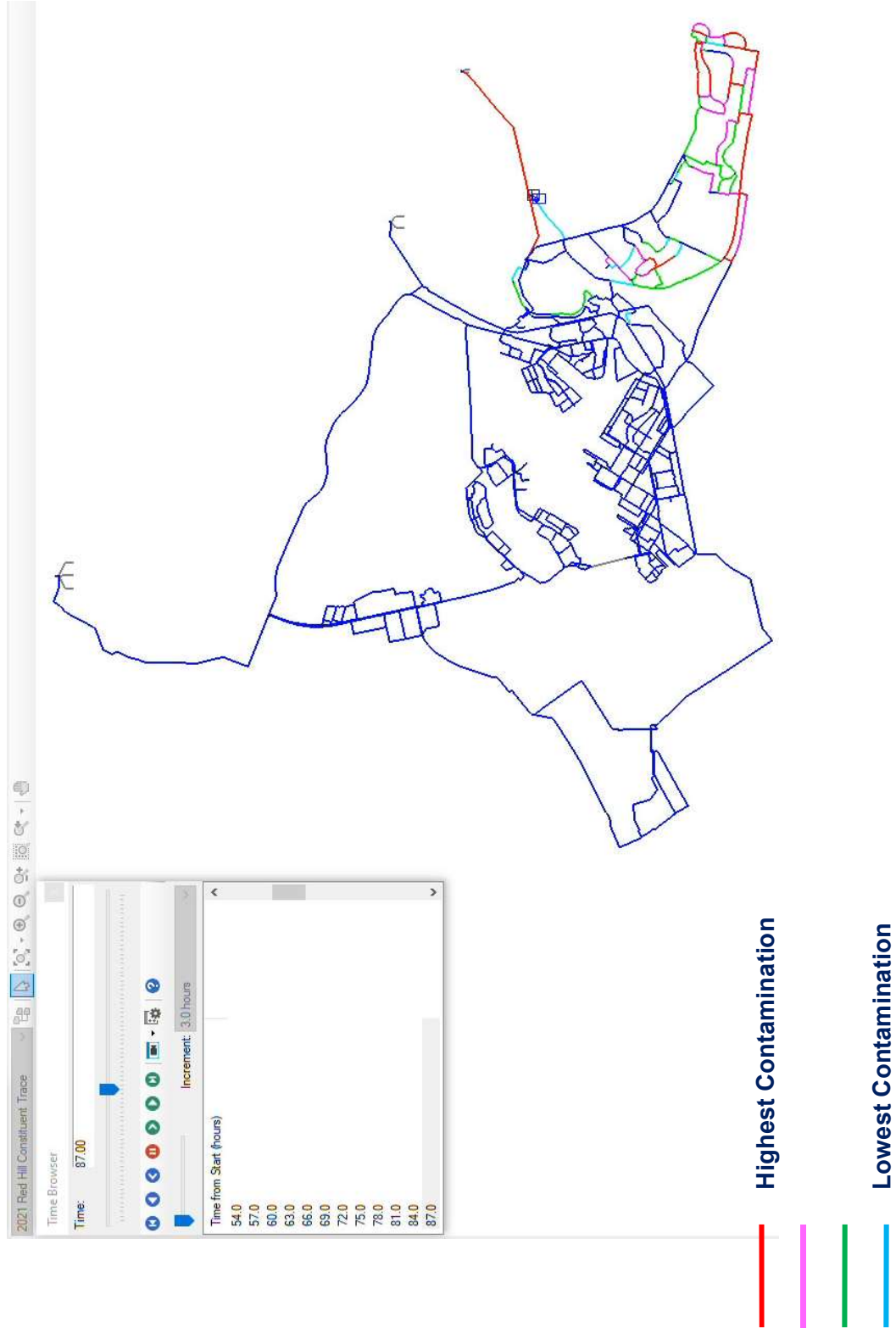


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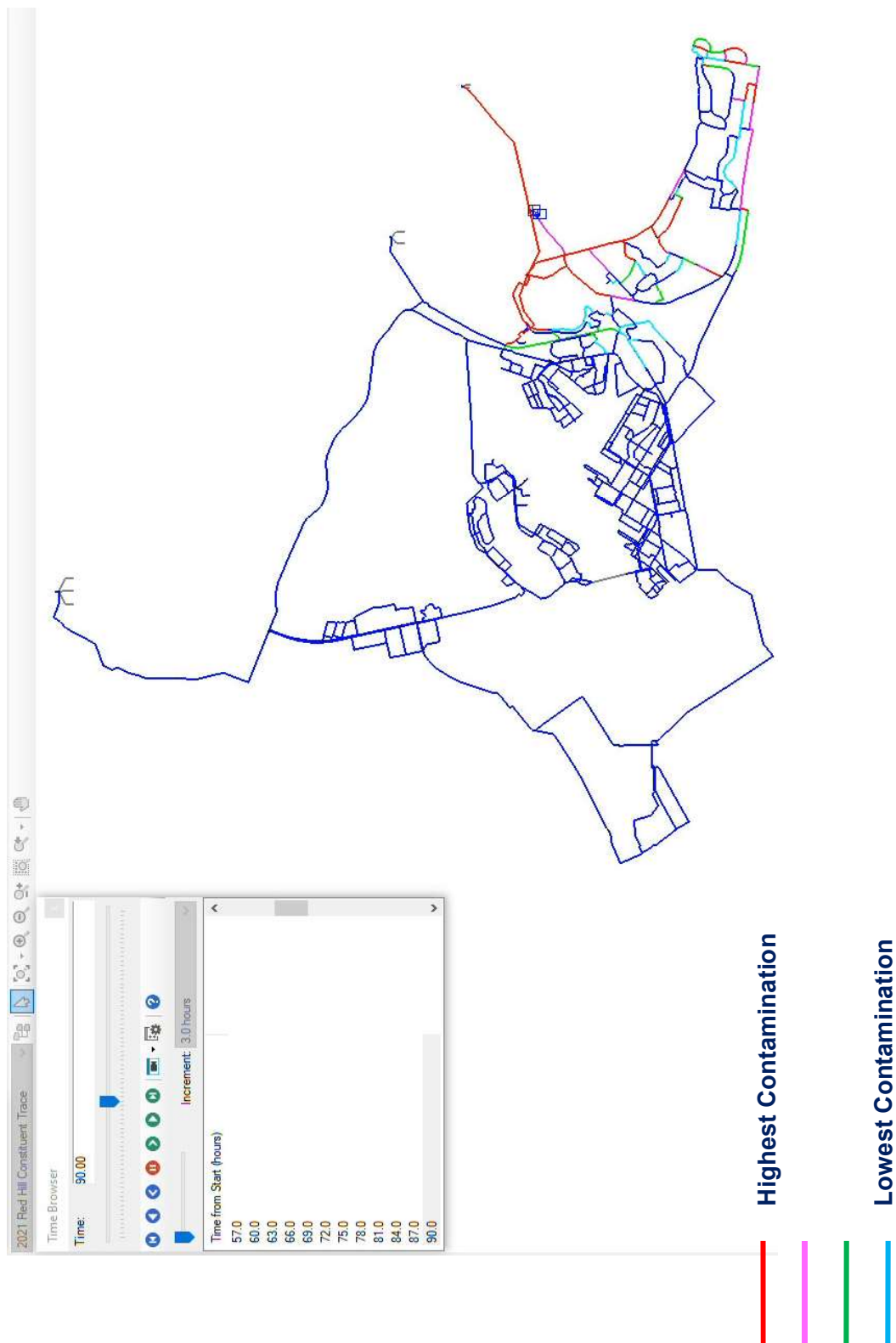


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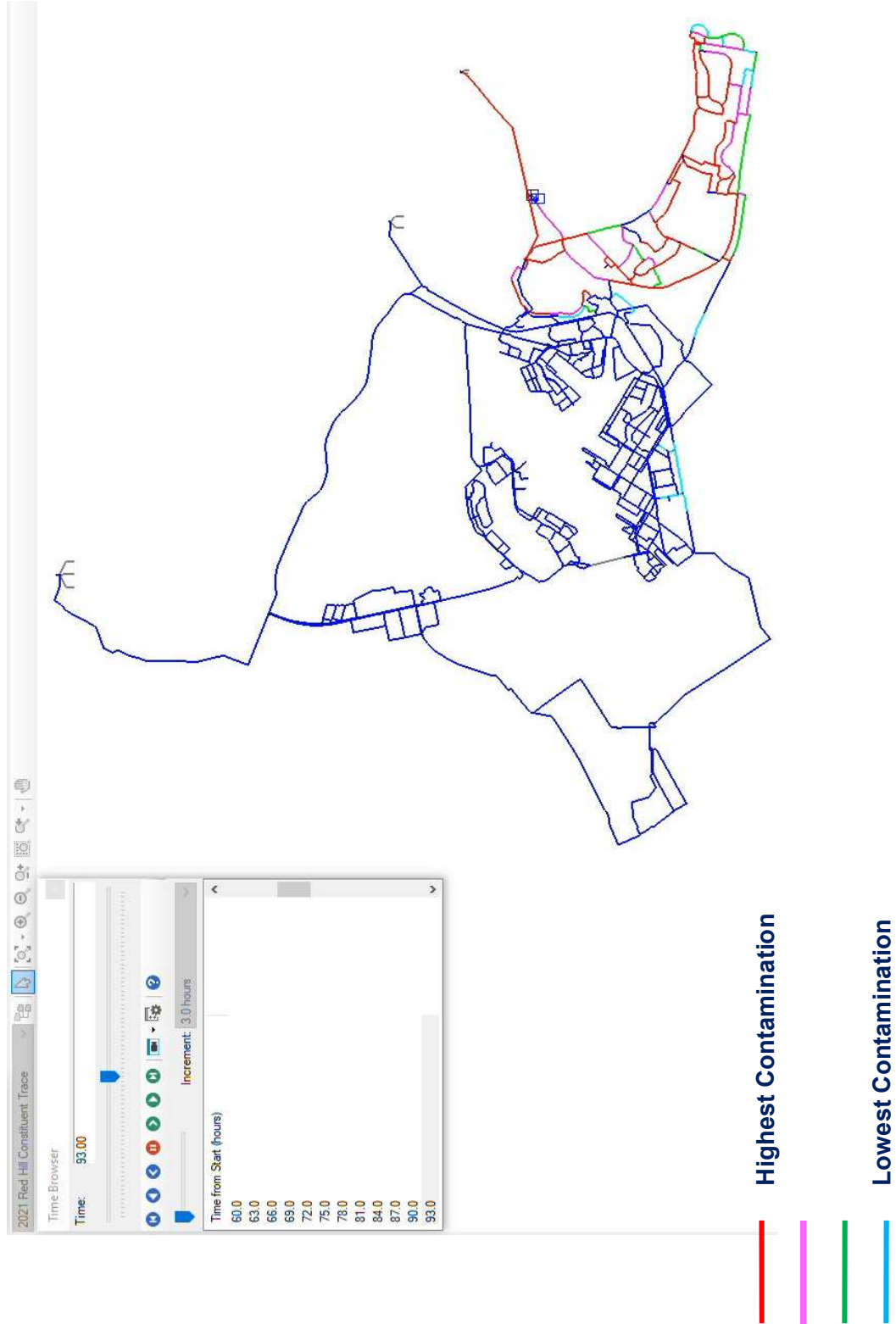


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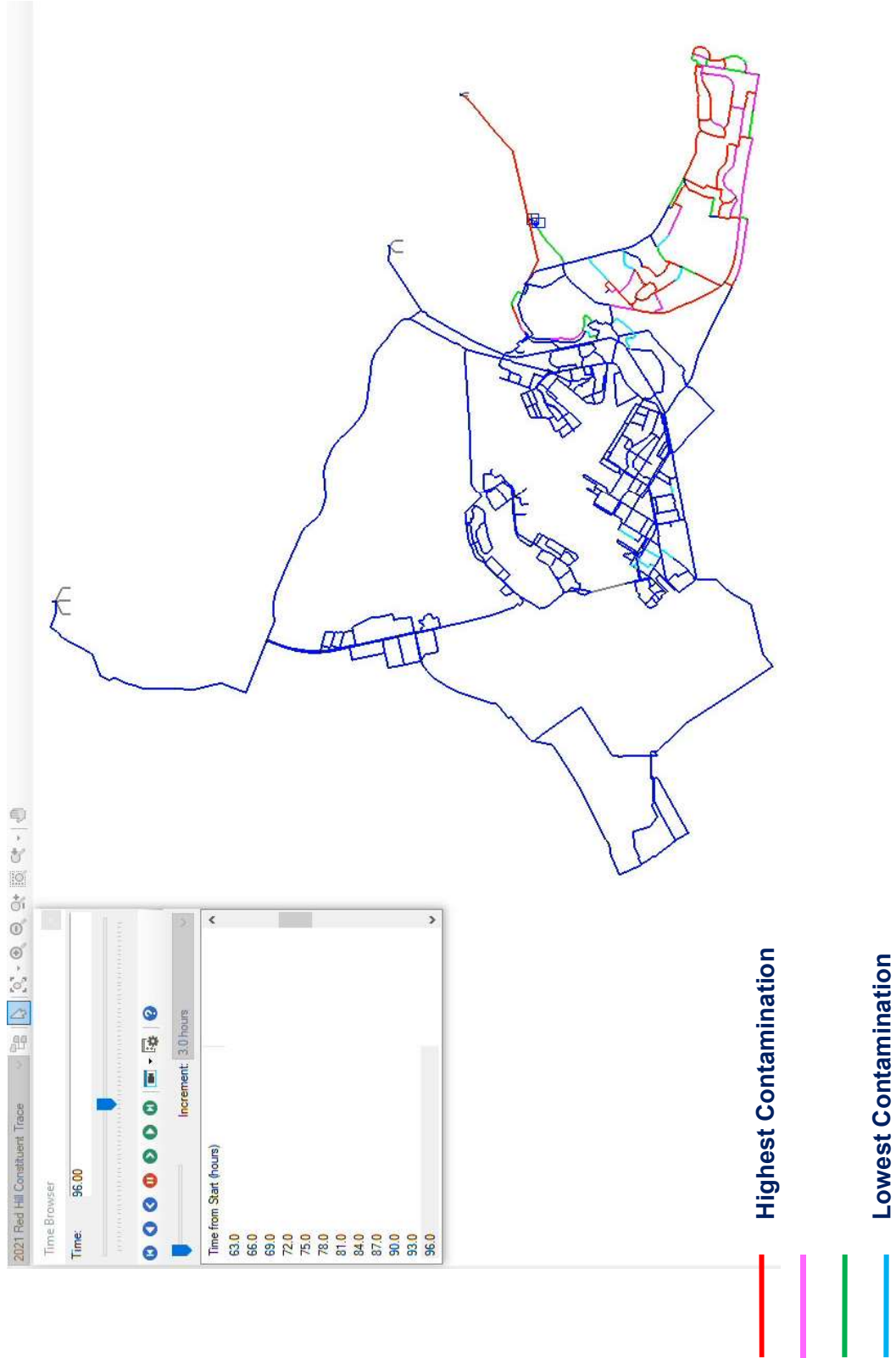


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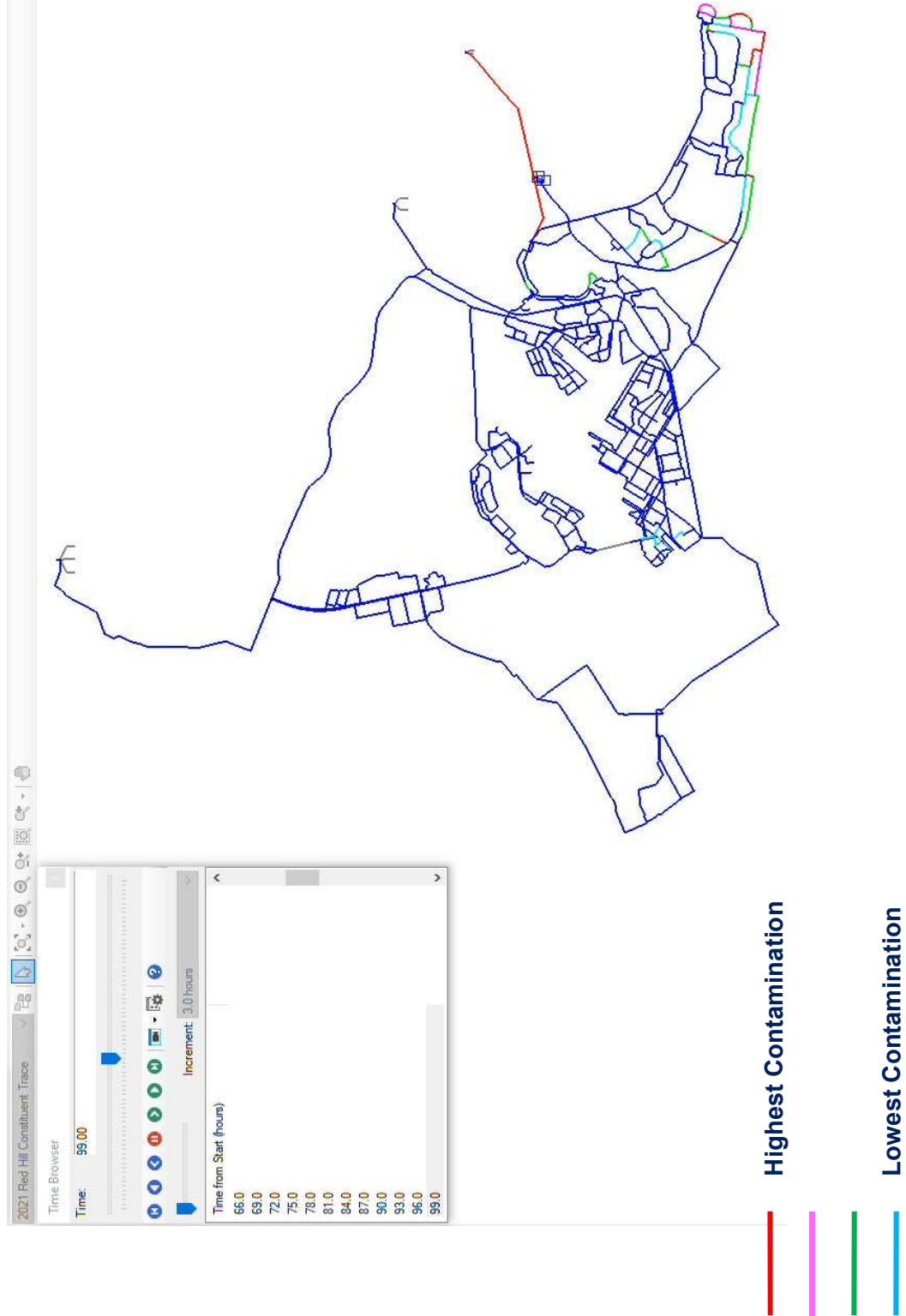


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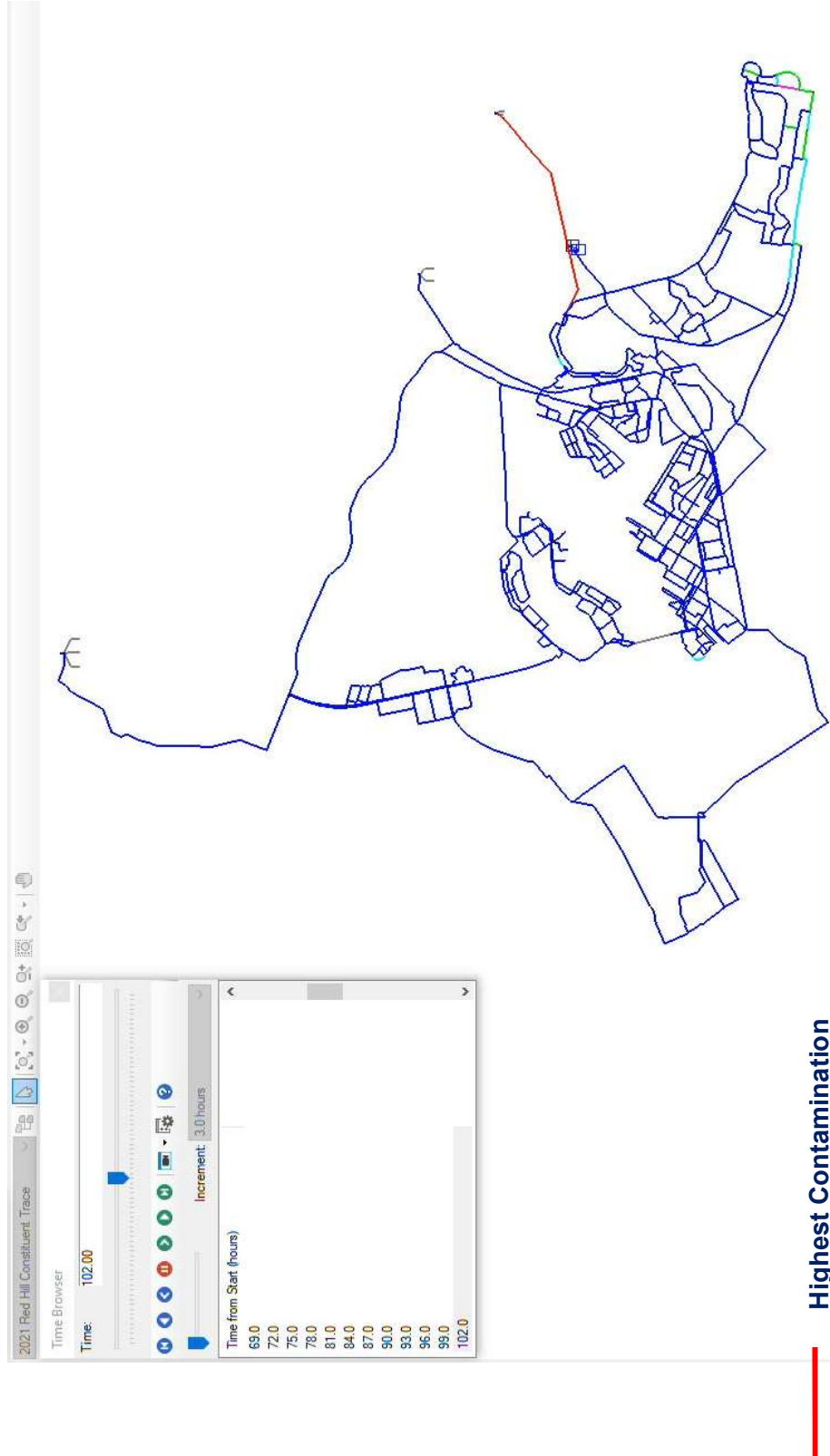


JBP HH Hydraulic Model





JBP HH Hydraulic Model



Highest Contamination

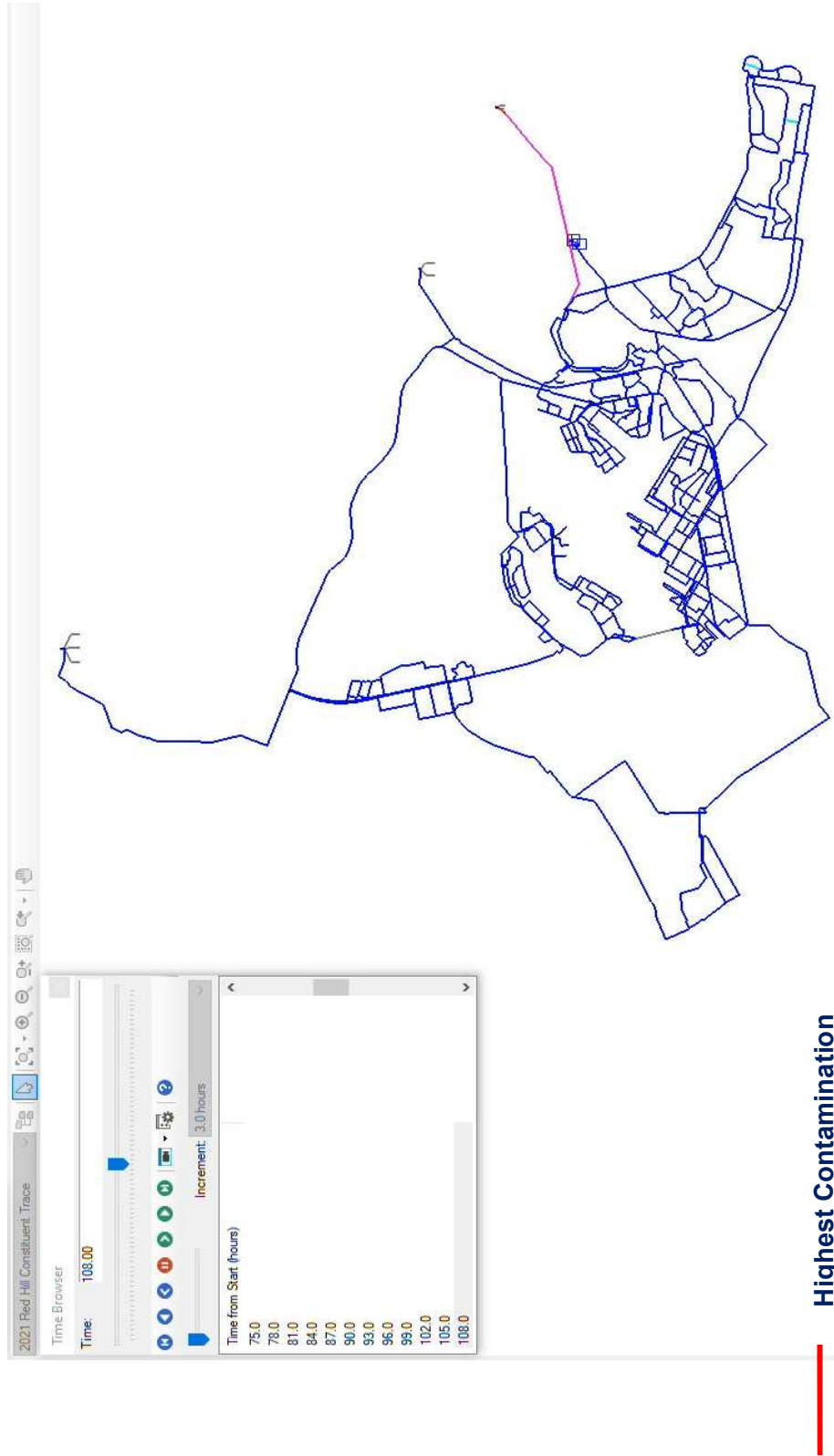
Lowest Contamination



JBP HH Hydraulic Model



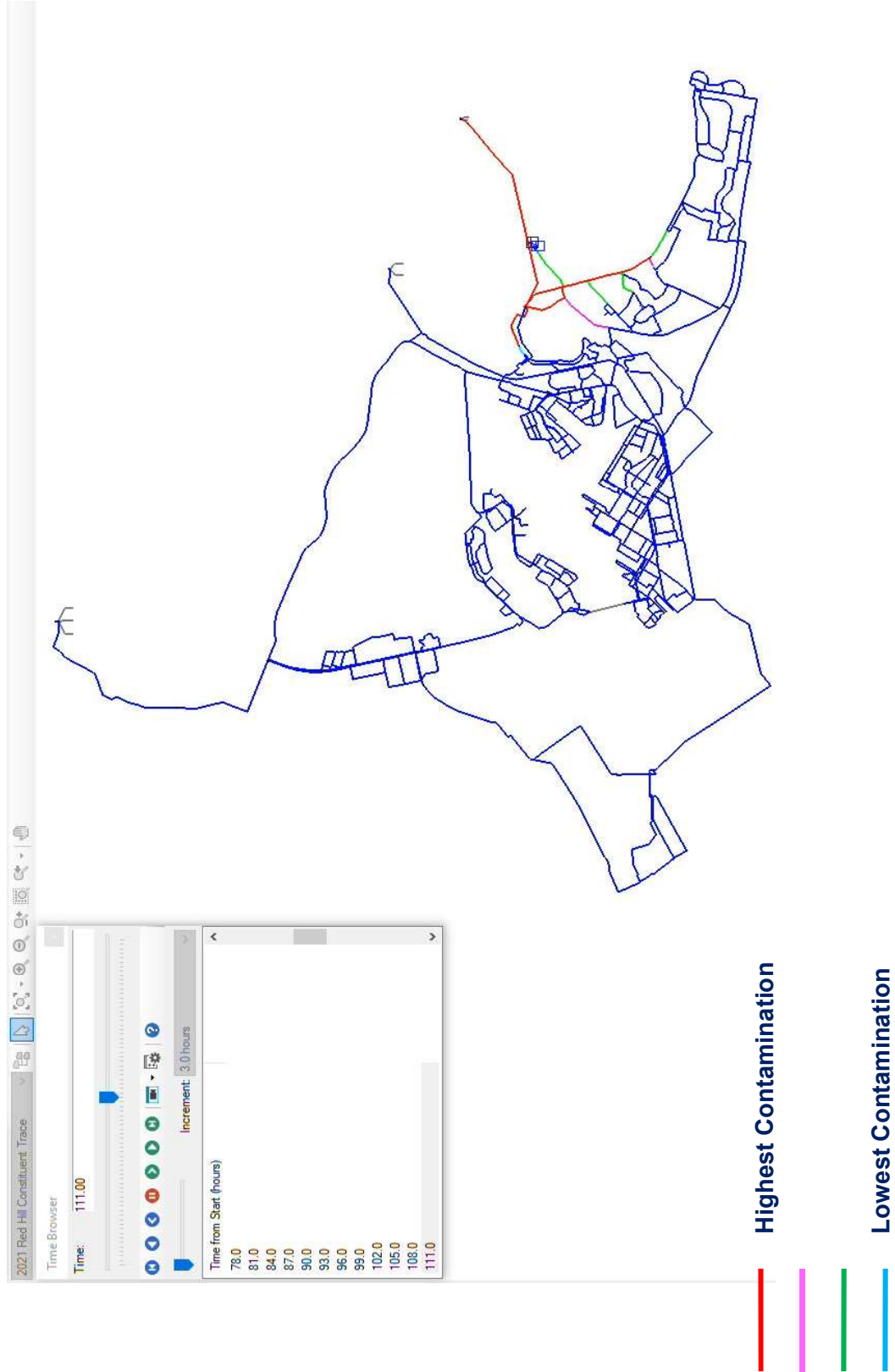
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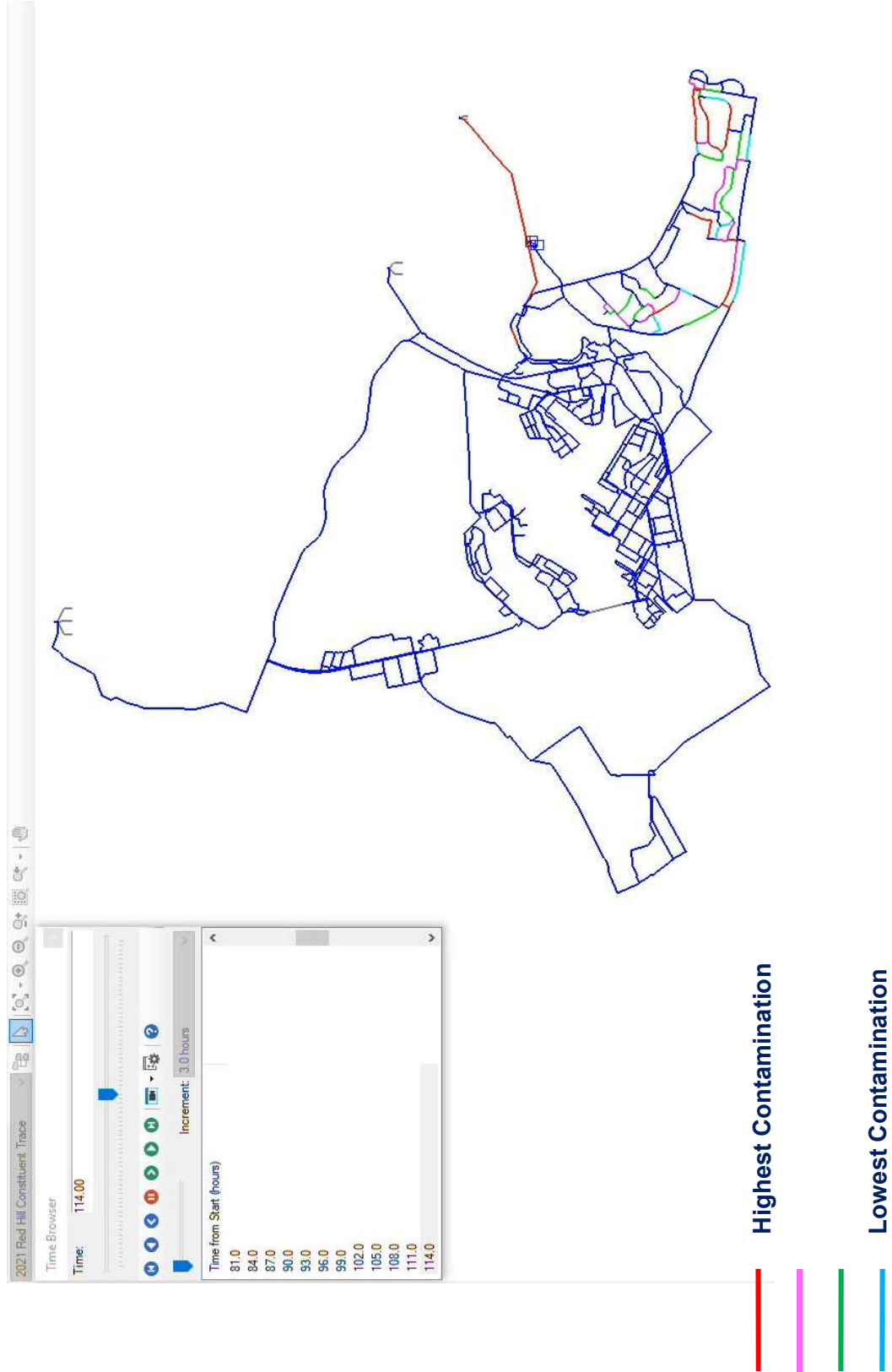
Highest Contamination

Lowest Contamination

JBP HH Hydraulic Model

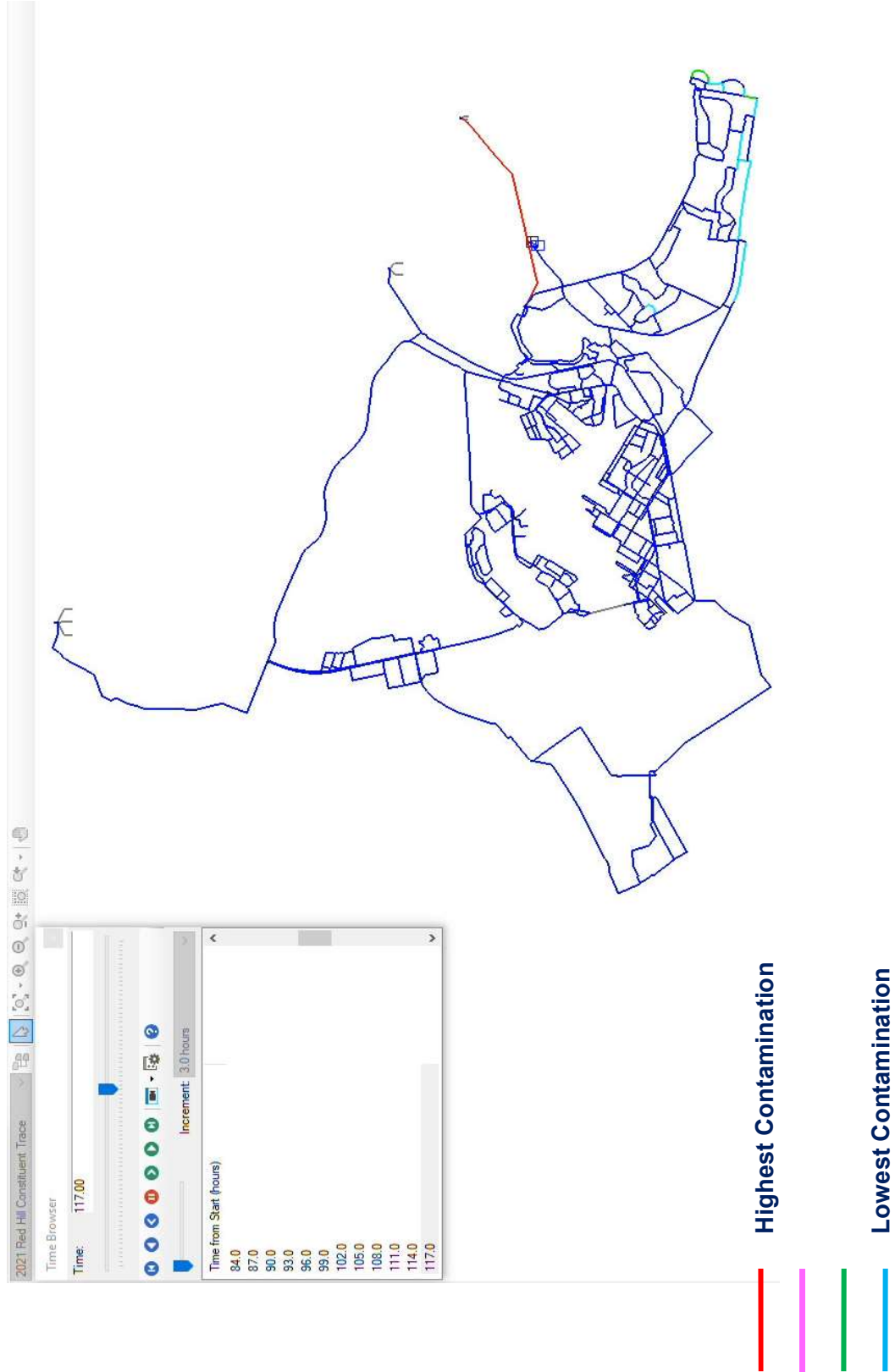


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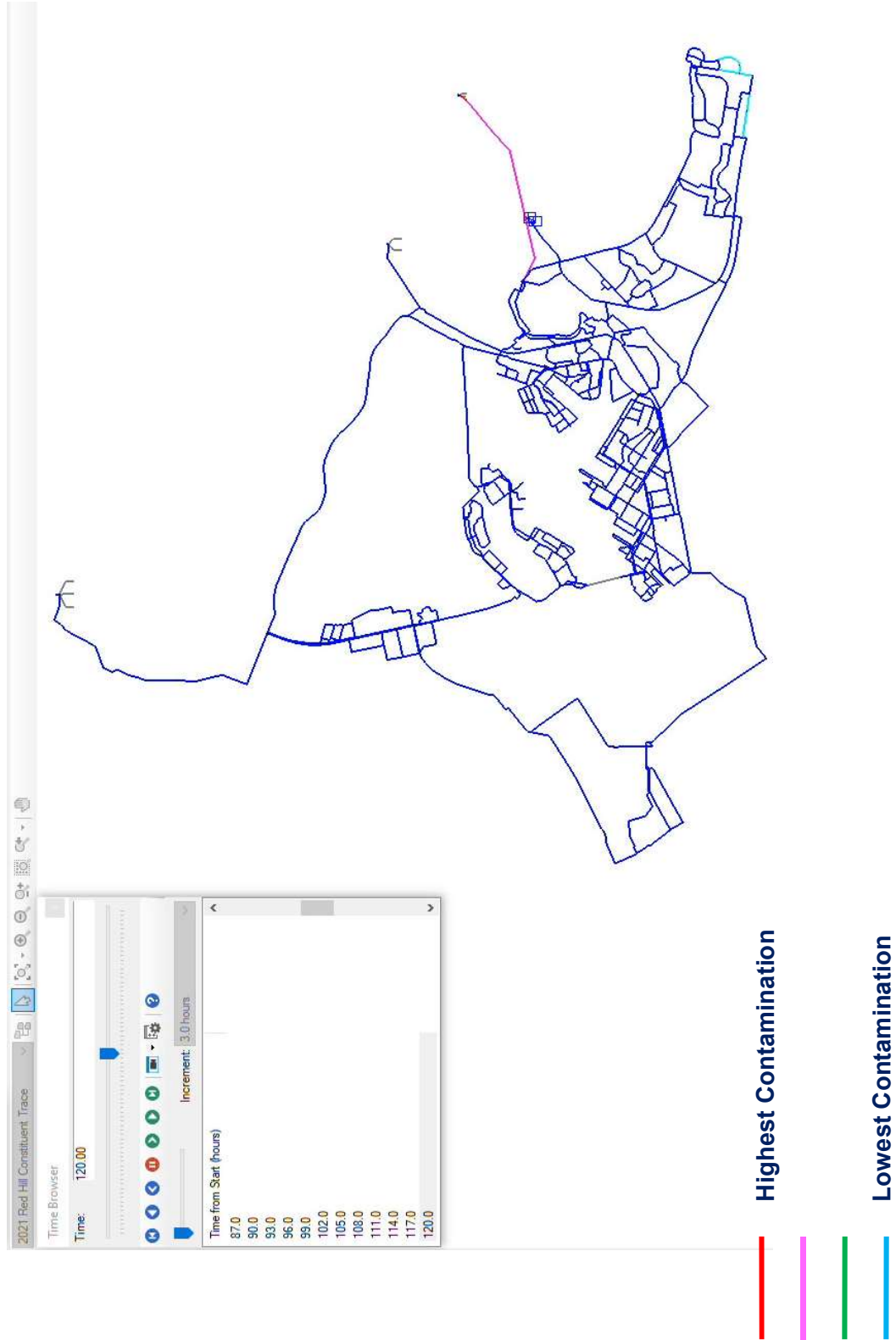


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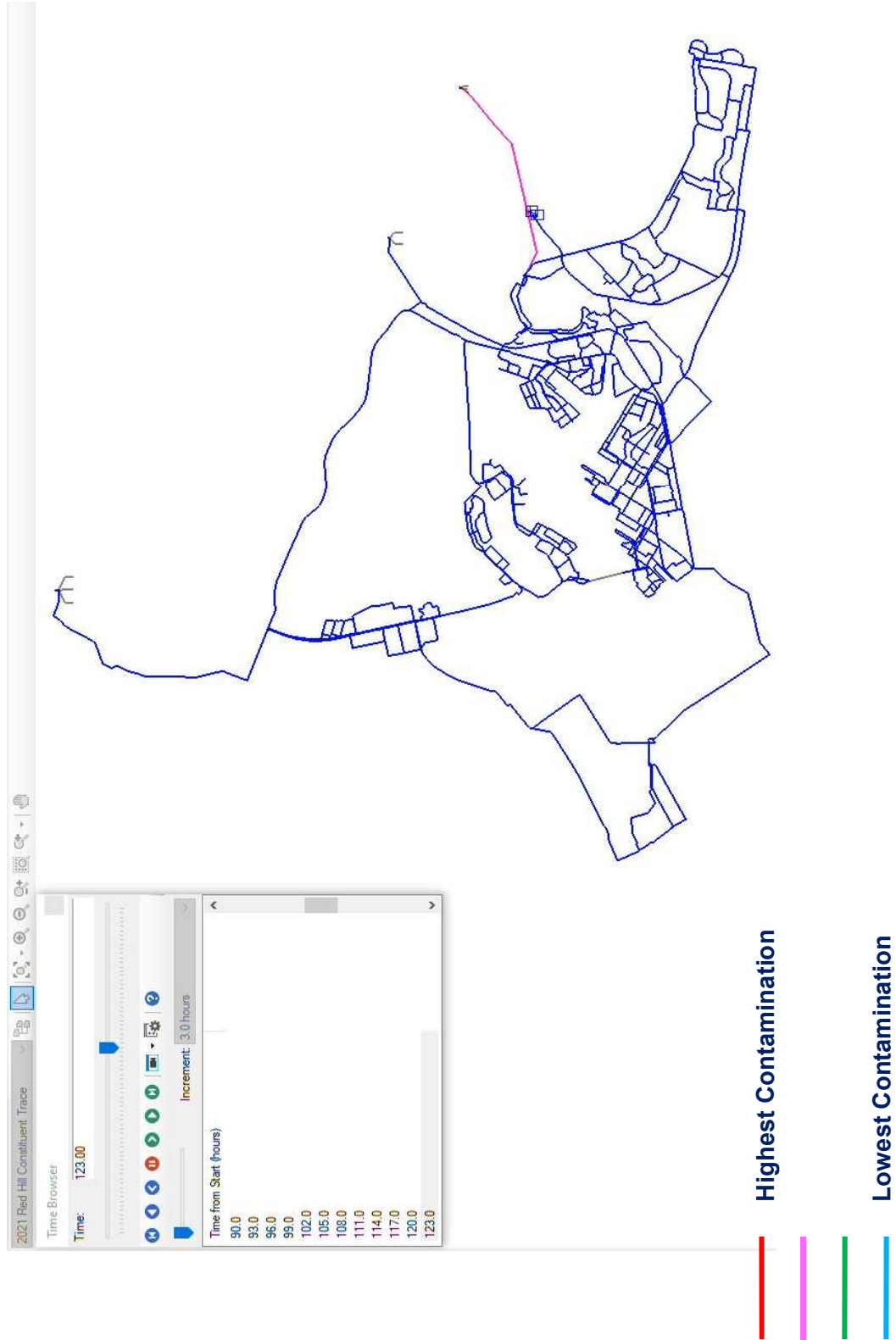


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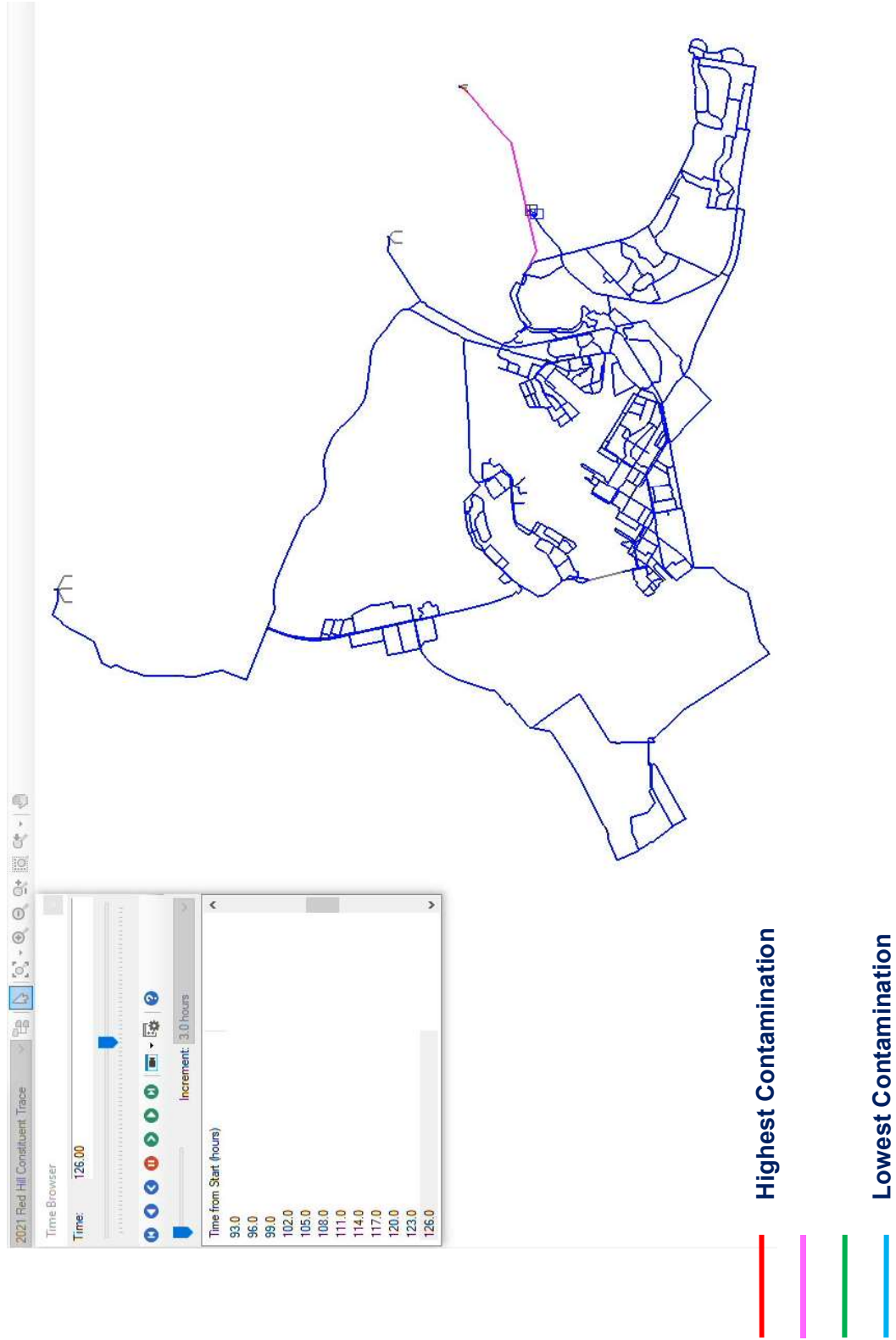




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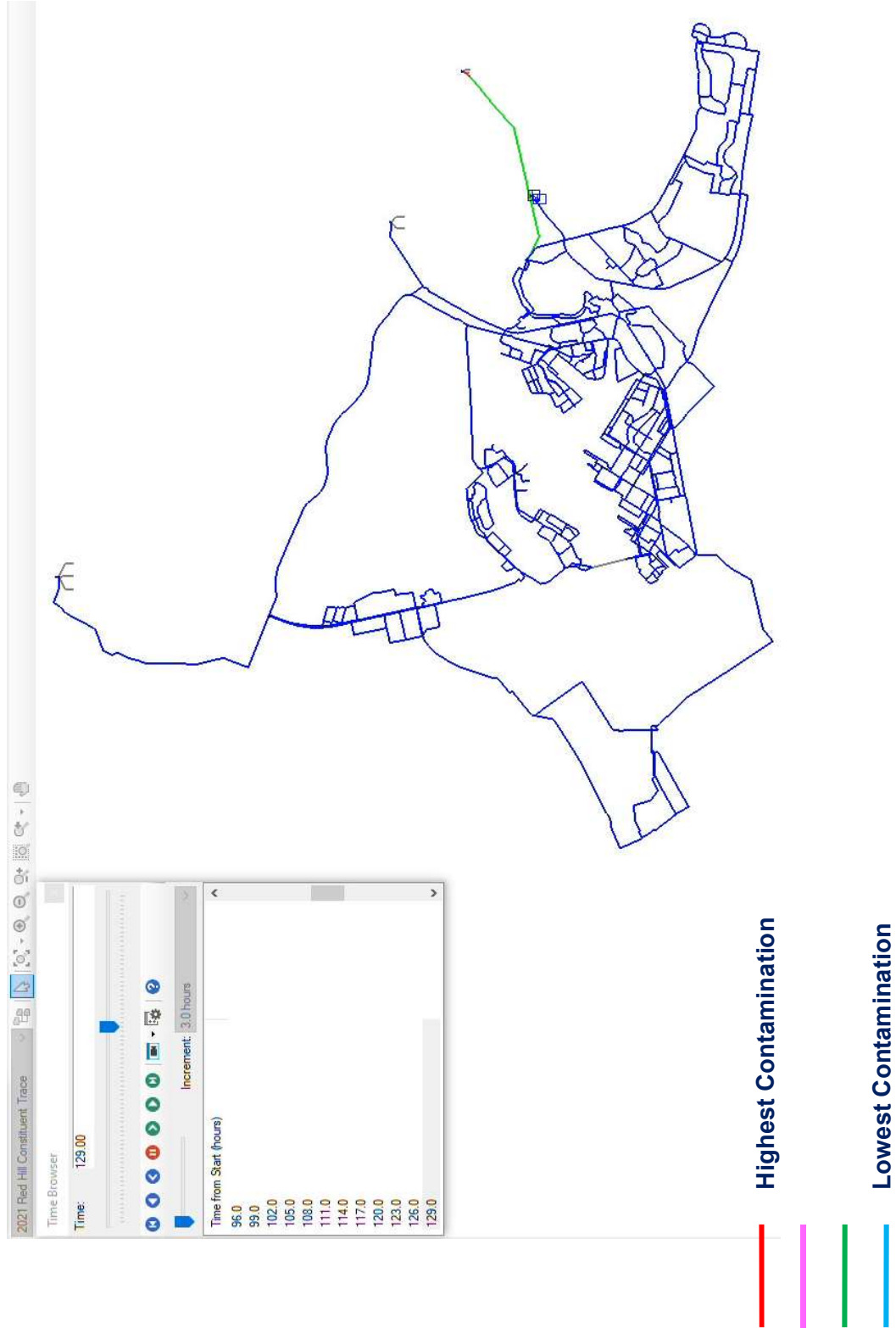


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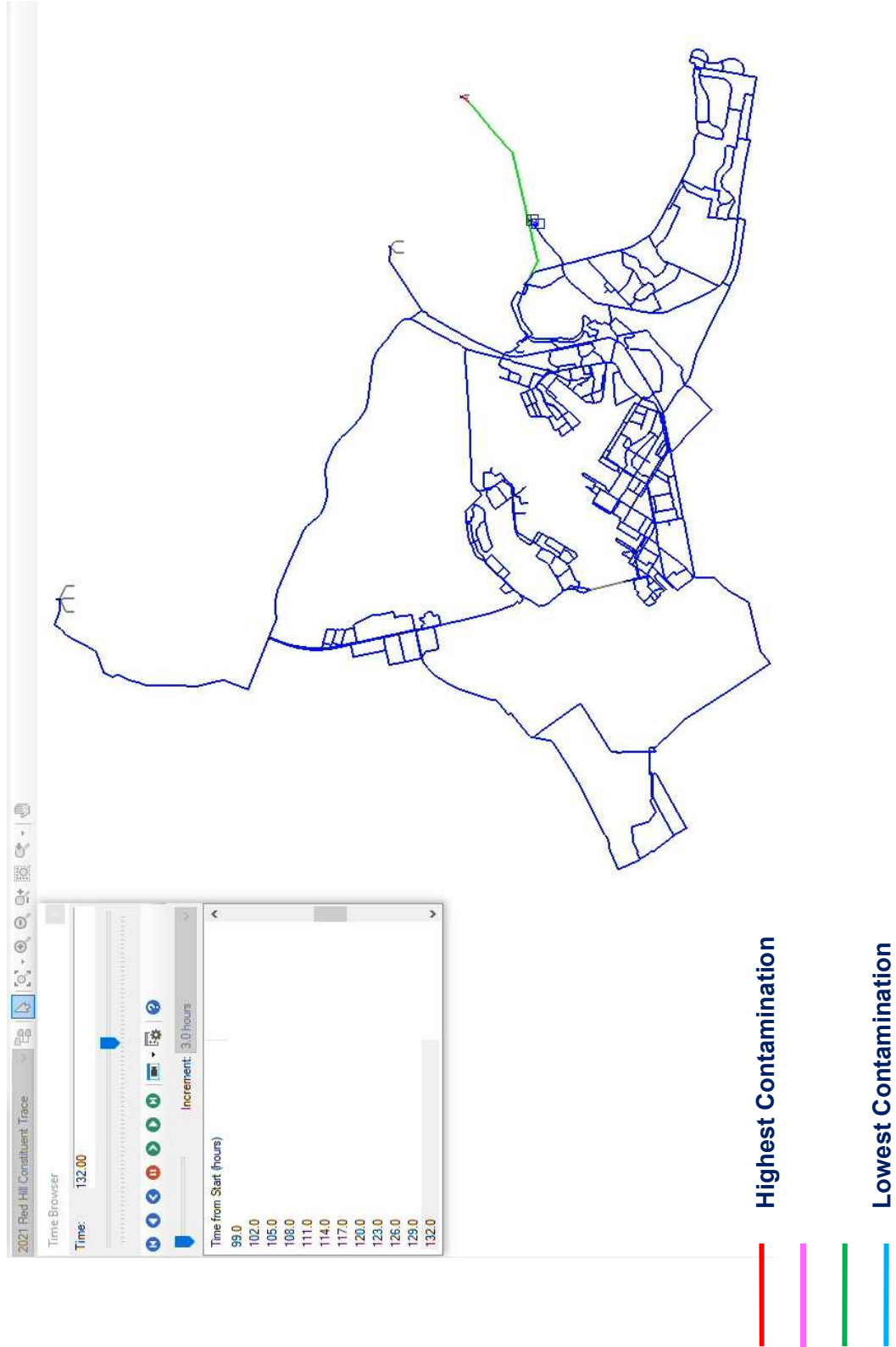


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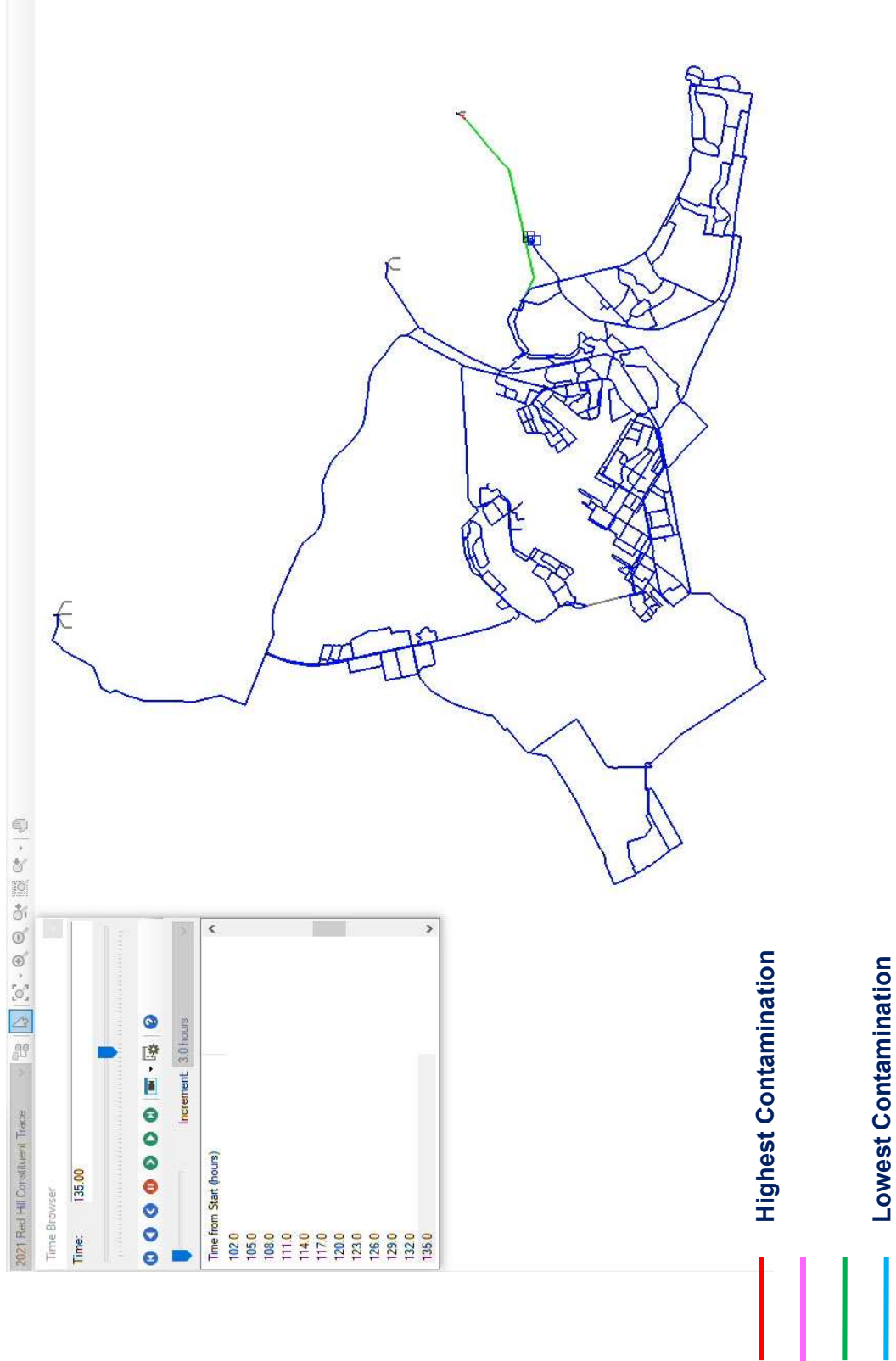


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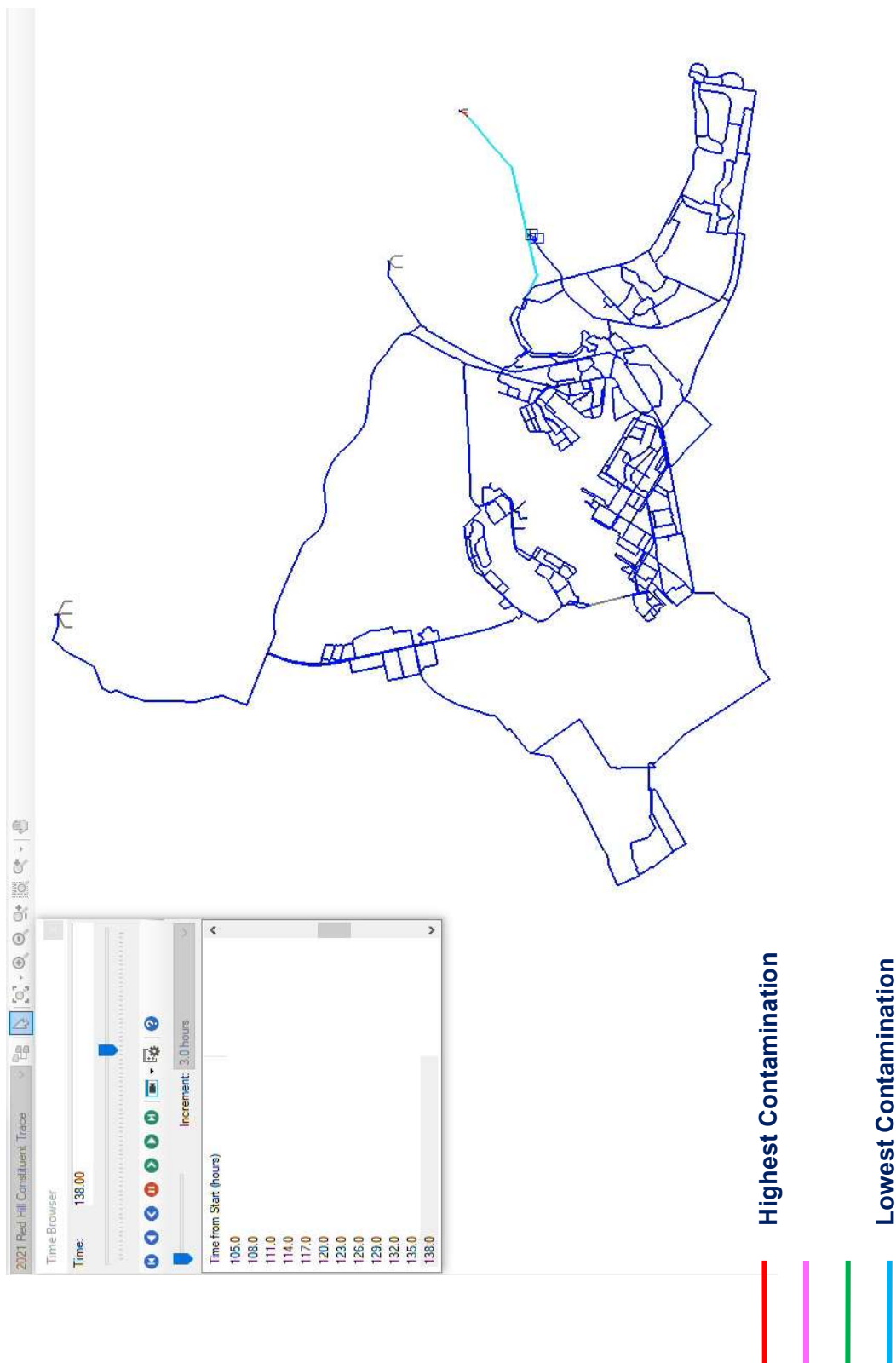


JBP HH Hydraulic Model





JBP HH Hydraulic Model



1 March 2022

MEMORANDUM

From: Naval Facilities Engineering Systems Command Representative, EWG Team
To: Interagency Drinking Water System Team

Subj: RECORDS OF COMPLETED DISTRIBUTION SYSTEM FLUSHING ZONE D3

Ref: (a) Drinking Water Distribution System Recovery Plan, December 2021

Encl: (1) Distribution System Flushing Records Zone D3

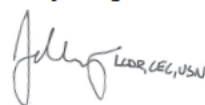
1. The completed records as shown in Enclosure (1), document the flushing of 14 hydrants in Zone D3 in accordance with Reference (a).
2. Field logs documenting the completion of the distribution flushing are summarized below demonstrate fulfillment of the criterion established in Reference (a):

Hydrant Location ID	Discharge Location Type	Flushed Volume (gallons)
143	Land Application	189,719
191	Land Application	187,017
202	Storm Drain	200,527
228	Storm Drain	69,866
245	Land Application	156,330
382	Sanitary Sewer (Navy)	80,028
426	Land Application	180,648
473	Storm Drain	215,195
476	Land Application	189,912
477	Storm Drain	171,577
801	Sanitary Sewer (Navy)	58,290
805	Sanitary Sewer (Navy)	53,580
812	Sanitary Sewer (Navy)	9,090
8103	Sanitary Sewer (Navy)	27,390

Total: 1,789,169 gallons

3. Zone D3 was required to flush 1,400,000 gallons per Reference (a), para 2.5.1.6, which was exceeded.

Very respectfully,



DALY JOHN.FRANCIS.III.136
5462468
2022.02.28 21:14:53 -10'00'

J. F. DALY III
LCDR, CEC, USN

TABLE OF CONTENTS

Section A - Utilitiesmen Flushing Log Roll-up

Section A contains a summary of the information from the Utilitiesmen log books and a calculation of the volume of water flushed based on actual times.

Section B - Utilitiesmen Log During Volumetric Exchange

Section B contains the scanned Navy log books that recorded location and time of flushing during distribution system flushing.

Section C – Officer in Charge of Flushing Daily Report

Section C contains the Officer in Charge of Flushing's daily report to his chain of command summarizing information received from the field.

143		Shift		Flush Time		Documentation	
Date		Begin	End	Start	Stop	RunTime	UT Log
4-Jan		8:00	20:00		18:01	1:59	20220104 0800-2000 N/A
4-Jan		20:00	8:00			12:00	20220104 2000-0800 N/A
5-Jan		8:00	20:00		10:24	2:24	20220105 0800-2000 N/A
TOTAL RUN @ FLOW of 200							
TIME				16:23			
VOLUME				196600 Gallons			

191		Shift		Flush Time		Documentation	
Date		Begin	End	Start	Stop	RunTime	UT Log
3-Jan		8:00	20:00		14:31	17:00	2:29 20220103 0800-2000 Y
3-Jan		20:00	8:00		22:05	9:55	20220103 2000-0800 Y
4-Jan		8:00	20:00		11:45	3:45	20220104 0800-2000 Y
TOTAL RUN @ FLOW of 200							
TIME				16:09			
VOLUME				193800 Gallons			

202		Shift		Flush Time		Documentation	
Date		Begin	End	Start	Stop	RunTime	UT Log
2-Jan		8:00	20:00		16:50	3:10	20220102 0800-2000 Y
2-Jan		20:00	8:00			12:00	20220102 2000-0800 N/A
3-Jan		8:00	20:00		10:09	2:09	20220103 0800-2000 Y
TOTAL RUN @ FLOW of 200							
TIME				17:19			
VOLUME				207800 Gallons			

228		Shift		Flush Time		Documentation	
Date		Begin	End	Start	Stop	RunTime	UT Log
31-Dec		8:00	20:00		14:56	16:59	2:03 20211231 0800-2000 N/A
31-Dec		20:00	8:00		22:25	1:09	2:44 20211231 2000-0800 Y
31-Dec		20:00	8:00		7:15		0:45 20211231 2000-0800 Y
1-Jan		8:00	20:00		8:30		0:30 20211231 2000-0800 Y
TOTAL RUN @ FLOW of 200							
TIME				6:02			
VOLUME				72400 Gallons			

245		Shift		Flush Time		Documentation	
Date		Begin	End	Start	Stop	RunTime	UT Log
31-Dec		8:00	20:00		13:59		6:01 20211231 0800-2000 N/A
31-Dec		20:00	8:00		20:38		0:38 20211231 2000-0800 Y
31-Dec		20:00	8:00		22:00	3:00	5:00 20211231 2000-0800 Y
31-Dec		20:00	8:00		7:06	8:57	1:51 20211231 2000-0800 Y
TOTAL RUN @ FLOW of 200							
TIME				13:30			
VOLUME				162000 Gallons			

382		Shift		Flush Time		Documentation	
Date		Begin	End	Start	Stop	RunTime	UT Log
4-Jan		20:00	8:00		21:36		10:24 20220104 2000-0800 N/A
5-Jan		8:00	20:00		14:42		6:42 20220105 0800-2000 N/A
TOTAL RUN @ FLOW of 100							
TIME				17:06			
VOLUME				102600 Gallons			

426		Shift		Flush Time		Documentation	
Date		Begin	End	Start	Stop	RunTime	UT Log
2-Jan		8:00	20:00		18:06	1:54	20220102 0800-2000 Y
2-Jan		20:00	8:00			12:00	20220102 2000-0800 N/A
3-Jan		8:00	20:00		9:42	1:42	20220103 0800-2000 Y
TOTAL RUN @ FLOW of 200							
TIME				15:36			
VOLUME				280800 Gallons			

473		Shift		Flush Time		Documentation	
Date		Begin	End	Start	Stop	RunTime	UT Log
2-Jan		8:00	20:00		16:00	4:00	20220102 0800-2000 Y
2-Jan		20:00	8:00			12:00	20220102 2000-0800 N/A
3-Jan		8:00	20:00		10:35	2:35	20220103 0800-2000 Y
TOTAL RUN @ FLOW of 200							
TIME				18:35			
VOLUME				223000 Gallons			

476		Shift		Flush Time		Documentation	
Date		Begin	End	Start	Stop	RunTime	UT Log
4-Jan		8:00	20:00		17:53	2:07	20220104 0800-2000 N/A
4-Jan		20:00	8:00			12:00	20220104 2000-0800 N/A
5-Jan		8:00	20:00		10:17	2:17	20220105 0800-2000 N/A
TOTAL RUN @ FLOW of 200							
TIME				16:24			
VOLUME				196800 Gallons			

477		Shift		Flush Time		Documentation	
Date		Begin	End	Start	Stop	RunTime	UT Log
31-Dec		8:00	20:00		12:26	7:34	20211231 0800-2000 N/A
31-Dec		20:00	8:00		20:28	0:28	20211231 2000-0800 Y
31-Dec		20:00	8:00		22:10	4:31	5:00 20211231 2000-0800 Y
31-Dec		20:00	8:00		6:55	8:42	1:47 20211231 2000-0800 Y
TOTAL RUN @ FLOW of 200							
TIME				14:49			
VOLUME				177800 Gallons			

801		Shift		Flush Time		Documentation	
Date		Begin	End	Start	Stop	RunTime	UT Log
31-Dec		8:00	20:00		12:15	7:45	20211231 0800-2000 N/A
31-Dec		20:00	8:00		5:40	9:40	20211231 2000-0800 N/A
4-Jan		20:00	8:00		21:08	10:52	20220104 0800-2000 N/A
5-Jan		8:00	20:00		12:06	4:06	20220105 0800-2000 N/A
TOTAL RUN @ FLOW of 40							
TIME				32:23			
VOLUME				77720 Gallons			

805		Shift		Flush Time		Documentation	
Date		Begin	End	Start	Stop	RunTime	UT Log
31-Dec		8:00	20:00		12:30	19:13	6:43 20211231 0800-2000 Y
31-Dec		20:00	8:00		22:40	3:15	4:35 20211231 2000-0800 Y
31-Dec		20:00	8:00		5:40		2:20 20211231 2000-0800 Y
1-Jan		8:00	20:00		9:06		1:06 20211231 2000-0800 Y
4-Jan		20:00	8:00		20:54	11:06	20220104 0800-2000 N/A
5-Jan		8:00	20:00		11:56	3:56	20220105 0800-2000 Y
TOTAL RUN @ FLOW of 40							
TIME				29:46			
VOLUME				71440 Gallons			

812		Shift		Flush Time		Documentation	
Date	Begin	End	Start	Stop	RunTime	Email Summary	UT Log
4-Jan	20:00	8:00	20:32	1:35	5:03	20220104 0800-2000	Y
TOTAL RUN @ FLOW of 40							
TIME 5:03							
VOLUME 12120 Gallons							

8103		Shift		Flush Time		Documentation	
Date	Begin	End	Start	Stop	RunTime	Email Summary	UT Log
4-Jan	20:00	8:00	20:29	11:31	11:02	20220104 0800-2000	N/A
5-Jan	8:00	20:00		11:42	3:42	20220105 0800-2000	Y
TOTAL RUN @ FLOW of 40							
TIME 15:13							
VOLUME 36520 Gallons							

Hydrant Volume	
143	196,600
191	193,800
202	207,800
228	72,400
245	162,000
382	102,600
426	280,800
473	223,000
476	196,800
477	177,800
801	77,720
805	71,440
812	12,120
8103	36,520
TOTAL	2,011,400

31 DEC 2021

0001	START OF NEW DAY.	
0037	HYDRANT 429 OPEN, UCC/EOC NOTIFIED.	
0107	HYDRANT 331 (MARKED 325)	
	OPEN, UCC/EOC NOTIFIED.	
0506	WATER LEVEL 32.3.	
0528	HYDRANT 429 CLOSED, POOR WEATHER.	
	PONDING, UCC/EOC NOTIFIED.	
0538	LOGBOOK ENTRIES SENT TO (316) 252-746	
0543	HYDRANT 331 (325) CLOSED, POOR WEATHER.	
	PONDING, UCC/EOC NOTIFIED.	
0638	UT STIFFERMAN DELAYED BY UT RAIN.	
0645	CHECKED IN AT UCC	
0730	DEPARTED FOR LOWE.	
0748	FH 425 CLOSED	
0805	FH 276 CLOSED	
0827	FH 325 CLOSED	
0841	FH 363 CLOSED	
0901	FH 1-14 CLOSED	
0946	FH 18 HOSE RUPTURE IN DRAINAGE	
1008	CLOSED ADJUSTED DEPTH.	
L.G. 0845	PRESSURE LOW ON FH 18. RAINED	
	PRESSURE.	
1024	FH 5/16 CLOSED	
1221	UT STAFFED	
1400	2ND STAFFED	
1430	THROTTLED 2ND FOR SAMPLING	
1445	RESUMED 2ND FOR NORMAL OPERATION.	

31 DEC 21

1457	228 OPERATIONAL.	
1500	RELIEVED BY UT 2 DOMANSKI.	
1601	FH-202 SOAKING APPROX 2-1 HOURS UNTIL OPERATIONAL.	
1604	STARTED ROVE.	
1605	FH-228 PRESSURE ADJUSTED DUE TO SAMPLING.	
1609	WATER LEVEL 28.1.	
1640	GAC 23 NEEDS PARTS, FH-191.	
1654	FH-228 DOWN DUE TO WEATHER	
1701	FH-23 DOWN DUE TO WEATHER, PART	
1703	CLEAR HARDOR DOWN DUE TO WEATHER	
1801	ALL EOC UPDATES TO BU2 134RR (320) 383-393.	
1909	SHUT DOWN ALL SITES. FOOD ADVISORY. 2230 RESTART.	
1913	FH-805 DOWN.	
1924	FH-21 DOWN.	
1940	FH-114 DOWN.	
1936	FH-18 DOWN.	
1939	FH-8 DOWN.	
1945	FH-806 DOWN.	
1950	FH-76A DOWN.	
2007	FH-801 DOWN.	
2028	FH-477 DOWN.	
2038	FH-245 DOWN.	
2200	FH-245 UP	
2210	FH-477 UP.	
2225	FH-228 UP.	
2240	FH-805 UP.	

71 DEC 21

2247	801 UP.	START NEW DAY,
2300	18 UP.	FH 228 CLOSED DUE TO INCREMENT
2304	FH-8 UP.	WEATHER, VCC/EOC NOTIFIED.
2312	FH-606 UP.	WATER LEVEL 36.1.
2319	FH-36A UP.	DIRECTED TO CLOSE HYDRANTS DUE
2327	FH-21 UP.	TO FLASH FLOOD WARNING IN EFFECT
2330	FH-11A UP.	UNTIL 0545.
2330	UTZ DOMANSKI RELIEVED BY UT	FH 245 CLOSED, VCC/EOC NOTIFIED
	STIEFERMANN,	FH 805 CLOSED VCC/EOC NOTIFIED
2359	END OF DAY,	FH 803 CLOSED VCC/EOC NOTIFIED
		FH 18 CLOSED VCC/EOC NOTIFIED
		FH 8 CLOSED VCC/EOC NOTIFIED
		FH 11A CLOSED VCC/EOC NOTIFIED
		FH 21 CLOSED VCC/EOC NOTIFIED
		FH 36A CLOSED VCC/EOC NOTIFIED
		FH 606 CLOSED VCC/EOC NOTIFIED
		FH 477 CLOSED VCC/EOC NOTIFIED
		FLASH FLOOD WARNING ENDED, REOPENING
		HYDRANTS.
		FH 803 OPEN, VCC/EOC NOTIFIED
		FH 805 OPEN, VCC/EOC NOTIFIED
		FH 11A OPEN, VCC/EOC NOTIFIED
		FH 21 OPEN, VCC/EOC NOTIFIED
		FH 36A OPEN VCC/EOC NOTIFIED
		FH 606 OPEN VCC/EOC NOTIFIED
		FH 8 OPEN VCC/EOC NOTIFIED
		FH 18 OPEN VCC/EOC NOTIFIED
		FH 477 OPEN VCC/EOC NOTIFIED

AFETP
47 (NEW/OLD) STIEFERMANN

01 JAN 2022

0041	START NEW DAY,
0109	FH 228 CLOSED DUE TO INCREMENT
	WEATHER, VCC/EOC NOTIFIED.
0145	WATER LEVEL 36.1.
0245	DIRECTED TO CLOSE HYDRANTS DUE
	TO FLASH FLOOD WARNING IN EFFECT
	UNTIL 0545.
0300	FH 245 CLOSED, VCC/EOC NOTIFIED
0315	FH 805 CLOSED VCC/EOC NOTIFIED
0320	FH 803 CLOSED VCC/EOC NOTIFIED
0331	FH 18 CLOSED VCC/EOC NOTIFIED
0336	FH 8 CLOSED VCC/EOC NOTIFIED
0343	FH 11A CLOSED VCC/EOC NOTIFIED
0354	FH 21 CLOSED VCC/EOC NOTIFIED
0400	FH 36A CLOSED VCC/EOC NOTIFIED
0408	FH 606 CLOSED VCC/EOC NOTIFIED
0431	FH 477 CLOSED VCC/EOC NOTIFIED
0528	FLASH FLOOD WARNING ENDED, REOPENING
	HYDRANTS.
0538	FH 803 OPEN, VCC/EOC NOTIFIED
0542	FH 805 OPEN, VCC/EOC NOTIFIED
0556	FH 11A OPEN, VCC/EOC NOTIFIED
0602	FH 21 OPEN, VCC/EOC NOTIFIED
0613	FH 36A OPEN VCC/EOC NOTIFIED
0623	FH 606 OPEN VCC/EOC NOTIFIED
0631	FH 8 OPEN VCC/EOC NOTIFIED
0638	FH 18 OPEN VCC/EOC NOTIFIED
0655	FH 477 OPEN VCC/EOC NOTIFIED

01 JAN 2022

01 JAN 2022

0705	FH 243 OPEN, UCC/EOC NOTIFIED
0714	FH 288 OPEN, UCC/EOC NOTIFIED
0730	BACKLOG LOGBOOK ENTRIES SENT TO EOC.
0715	UT RHINE AS DUTY UT.
0730	CHECKS IN AT UCC,
0800	RECEIVED CALL TO SHUT OFF ALL SYSTEM.
0830	208 CLOSED
0842	477 CLOSED
0807	245 CLOSED
0906	805 CLOSED
0907	403 CLOSED
0906	11A CLOSED
0921	21 CLOSED
0925	36A CLOSED
0931	606 CLOSED
0934	8 CLOSED
0937	18 CLOSED
1500	UT2 DOMANSKI PROPERTY ASSUMES ALL DUTIES AS DUTY UT.
	UT1 RHINE PROPERTY RELIEVED AS DUTY UT.
1811	WATER LEVEL 34".
1910	FH-40, FH-42, FH-426 PRIMED AND STAND BY.
2140	61-18 UP.
2200	61-26 UP.
2300	UT2 DOMANSKI RELIEVED BY UT STIEFERMANN
2325	FH-606 UP.
2340	FH-716A UP.
2355	FH-21 UP.

2350 11A OPEN.
2359 END OF DAY.

NFETP

UT (SCW/EXW) STIEFERMANN

02 JAN 2022

2 JAN 22

0800	START OF NEW DAY	1313	18(C.S.) OFF
0820	WATER LEVEL 29.9, NAUFAC (MATH)	1316	26(68) OFF
	NOTIFIED	1415	DEVED 473/23 FOR TESTING
0827	WATER LEVEL 28.7	1445	CLOSED 473/23
0830	SENT LOGBOOK ENTRIES TO EOC	1500	UTI RHINE RELIEVED AS DUTY UT. VT 2
0812	WATER LEVEL 28.1		DOMANSKI ASSUMES DUTY UT.
0835	UT STIEFERMANN RELIEVED BY UT RHINE	1520	RESUME ALL OPERATIONS. PER LT CRUZ.
0845	CHECKED W WITH VES	1522	FH-405, FH-426, FH-1, OPERATIONAL.
0848	BEGAN R.O.E.	1554	FH-405 OPEN.
0852	FH 1 STARTED IN FZ	1600	FH-473 OPEN.
0859	FH 18 (FAMILY S.) ON	1600	WATER LEVEL 26.2.
094704	FH 40 (FZ) ON	1650	FH-202 OPEN.
094704	FH 42 (FZ) ON	1655	FH-34 OPEN.
1050	THROTTLED 40(FZ) FOR TESTING	1710	FH-1 OPEN AND SAMPLED. "SOUTH"
1055	RESUMED 10501 ON 40(FZ)	1730	FH-40 OPEN.
1105	THROTTLED 1 IN FZ FOR TESTING.	1746	FH-42 OPEN AND SAMPLED.
1110	RESUMED NORMAL PRESSURE OF FH 1 IN FZ	1758	FH-11A OPEN.
1237	202 OFC (D3)	1807	FH-21 OPEN.
1240	40-266 (FZ)	1807	GAC 18 FH-426, FLAT TRAILER TIRE. DEEDED
1249	34 OFC (FZ)		OPERATIONAL PER LT CRUZ.
1253	1-055 FZ	1806	FH-426 OPEN.
1300	11A OFC	1801	FH-36A OPEN.
1305	21 OFF	1818	FH-606 OPEN.
1309	42000	1818	FH-42 CLOSED UNTIL FURTHER NOTICE DUE
1315	19		TO HIGH PH LEVELS.
0109	36A	1831	FH-18204 F1 OPEN.
1320	606	1906	G1 FH-18 OPEN.
		1925	G1 FH-26 OPEN.

02 JAN 22

1945 191 SATURATED. UT CONTRACTOR WATCH SEVERE
 1945 WATER LEVEL 30'.
 2017 FH-1 NORTH OPEN.
 2040 WATER LEVEL 28'.
 2227 UT DOMANSKI RELIEVED BY UT STIEFERMANN.
 2350 HYDRANT 405 CLOSED DUE TO FLOODING.
 2359 END OF DAY.

03 JAN 2022

0001 START OF NEW DAY.
 0135 HYDRANT 405 OPENED. VCC/EOC NOTIFIED.
 0213 VCC REPORTED BURST HOSE FH G1 B.
 0233 HYDRANT FH G1 B CLOSED. DAMAGED
 SECTION OF HOSE ROLLED AND PLACED
 WITH GAC. VCC/EOC NOTIFIED.
 0527 LOGBOOK ENTRIES SUBMITTED TO EOC.
 0528 WATER LEVEL 31.7'.
 0645 UT STIEFERMANN RELIEVED BY UT RHINE
 0700 CHECKED INS AT VCC.
 0715 BEGAN RAIN
 0909 405 SHUT DOWN
 0942 426 SHUT DOWN
 0957 34 SHUT DOWN
 1016 1 NORTH SHUT DOWN
 1029 1 SOUTH SHUT DOWN
 1009 202 SHUT DOWN
 1030 273 SHUT DOWN
 1027 LE UT CIRCLED TO CLOSE ALL HYDRANT
 FOR FLOOD WARNING
 1038 26(GS) CLOSED
 1050 11 A CLOSED
 1054 21 CLOSED
 1059 36A CLOSED (WILL BE FOR G.H. 4)
 1105 606 CLOSED
 1120 18 CLOSED
 1720 REQUIRED CALL TO OPEN HYDRANTS

NRKTP
 41 (GUY/KEVIN) STIEFERMANN

3 JAN 32

1306 18 - OPENED
 1317 606 - OPENED
 1325 21 - OPENED NO WATCH ON SITE
 1346 ARMY WATCH ON SITE.
 1351 11A - OPENED
 1405 26 (C.S.) OPENED.
 1500 81 ACTIVATED
 1431 191 ACTIVATED
 1530 VTI RHINE RELIEVED AS DUTY UT. VTI DOMANSKI ASSUMES DUTY
 1642 FH-36A OPEN.
 1700 FH-191 CLOSED DUE TO FLOODING STREET.
 1750 WATER LEVEL 22.9'.
 1919 WATER LEVEL 22.8'.
 1940 FH-410 OPEN.
 2009 FH-465 OPEN.
 2100 FH-800
 2100 FH-191 OPEN.
 2245 UT² DOMANSKI RELIEVED BY UT¹ STIVERMANN
 2334 FH-442 OPENED BY CONTRACTORS.
 2359 END OF DAY.

NETED
 UT¹ (GUY/END) STIVERMANN

04 JAN 2022

0001 START @ FNEW DAY.
 0211 FH-540 OPENED.
 0334 FH-118 CLOSED DUE TO FLOODING.
 0345 FH-912 CLOSED DUE TO FLOODING
 0450 WATER LEVEL 34.1'
 0530 SUBMITTED LOGBOOK ENTRIES TO EOC
 0630 VTI RHINE NEGOTIATES AGREEMENT
 0645 FH-26 (C.S.) OPENED
 0900 FLOODING AS COM W/ TESTING ON
 0945 442
 0935 ASSIGNED AS COM W/ TESTING ON
 465
 0950 ASSIGNED W/ TESTING ON 410
 1033 RECEIVED WORD TO SHUT ALL SITES
 1040 DOWN DUE TO FLOODING.
 1040 SHUT DOWN 606;
 1015 42, SHUT DOWN 410
 1215 SHUT OFF FH-118 (FI)
 1315 RECEIVED WORD TO START HYDRAULIC
 1400 STARTED 476.
 1425 STARTED FLOODING SHUT OFF 476
 1450 STARTED 48
 1456 STARTED 13
 1540 STARTED 26 (C.S.)
 1500-1505 STARTED TESTING ON 78, 13
 1622 VTI DOMANSKI ASSUMES DUTY UT. VTI RHINE PROPERLY RELIEVED
 1640 FH-123 OPEN.
 1700 FH-1705 OPEN.
 1705 FH-542 OPEN.

045AN22

05 JAN 2022

1746	WATER LEVEL 28".	0041	START OF NEW DAY.
1750	FH-535 OPEN.	0030	START RAVE.
1805	FH-143 OPEN.	0150	OPEN FH 812, VCC/EOC NOTIFIED.
1837	FH-535 OPEN. FH-542	0251	CLOSED FH 812. WATER AT TOP
1853	FH-50 OPEN.		OF SEWER, VCC/EOC NOTIFIED.
1910	FH-26 "G" CLOSED, DUE TO FLOODING.	0427	CLOSED FH 143 DUE TO FLOODING.
2019	FH-8103 OPEN.		VCC/EOC NOTIFIED.
2019	FH-812 OPEN. CHANGED FROM 23.	0507	HYDRANT 26 OPENED, VCC/EOC NOTIFIED.
2039	FH-801 MOVED TO 803 OPEN.	0522	WATER LEVEL 53.8'
2040	FH-804 MOVED TO 805 OPEN.	0530	LOGBOOK ENTRIES SUBMITTED TO EOC
2043	BACK LOG TO 1543. - FH-503 OPEN	0640	UT RHINE ASSUMES DUTIES AS ADJUT.
2057	1709 "BACK LOG" - FH-476 OPEN	0700	CHECKS IN AT VCC
2126	FH-302 OPEN	0730	RESERVED CALL 542 FLOODING OUT.
2212	FH-512 MOVED TO FH-511 OPEN.	0740	ARRIVED AT SITE, CLOSED 542, SENT WARNING
2250	FH-812 CLOSED, DUE TO FLOODING. WASTE WATER		TO VCC.
2300	WILL COME TO CLEAR LINE IN MORNING.	0817	503 SHUT DOWN
2309	UT ² DOMANSKY RELIEVED BY UT ¹ STINEFELDER	0936	535 SHUT DOWN
	END OF DAY.	0917	123 SHUT DOWN
		1917	476 SHUT DOWN
		1024	143 SHUT DOWN
		1035	FH 14 (EZ) OPEN
		1042	FH 14 (EZ) OPEN
		1124	FH 13 SHUT DOWN
		1131	FH 504 SHUT DOWN
		1142	FH 8103 SHUT DOWN
		1151	FH 805 SHUT DOWN
		1206	FH 803 SHUT DOWN

NOTED
 (Signature)
 STEPHEN HAN

SPR 22

05 JAN 2022

1210	CAUSED TO OPEN FH7.	1245	UT DOMANSKI RELIEVED BY UT STIEFFERMAN
1215	AT FUEL HYDRANT 7, NO HOSE ON	2350	END OF DAY.
	SITE, ASLON, DEPT SAN STATION ON		
	SITE		
1305	NAVFA BRUNG HOSES, TESTING BELO		
	100 G.P.M.		
1334	FH17 OPENED.		
1345	ARRIVE AT FH25, NO ACCOM		
	ON SITE FOR TESTING.		
1420	ASLON ARRIVES, COMBUST TESTING		
1347	300# 318 OPERATIONAL,		
1425	R/H 25 OPERATIONAL		
1442	R/H 38 IS OPERATIONAL		
1443	FH382 CLOSED		
1444	FH812 CLOSED		
1505	FH511 CLOSED		
1530	UTZ DOMANSKI ASSUMES DUTIES ASUT		
	UT,		
1542	UT DOMANSKI ASSUMES DUTY UT. UTILARINE RELIEVED IN DUTY UT.		
1622	WATER LEVEL 28'.		
1652	FH-457 OPEN.		
1715	FH-7 CLOSED DUE TO FLOOD ADVISORY.		
1722	FH-25 CLOSED DUE TO FLOOD ADVISORY.		
1746	FH-926, START UP ATTEMPTED, LEAKING CAN LOCK AS		
	WELL AS CLOGGED STORM DRAIN.		
1840	FH-926 OPEN, SITE TESTED.		
1921	FH-7 OPEN.		
1928	FH-25 OPEN.		

NFETP
UT (Gen/Ext) STIEFFERMAN

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA) <[REDACTED]>
Sent: Tuesday, January 4, 2022 9:53 PM
To: Kelly, Austin A 1st Lt USAF 647 ABG (USA); Joseph, Craig M MSgt USAF (USA); Duarte, Israel A MSgt USAF (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A CMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); [REDACTED]; Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaría T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED] Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN
Subject: RE: INFO: 04 Jan 22 0800L - 2000L JBPHH DWDSRP Flush Report
Attachments: SKM_C36822010420490.pdf
Signed By: [REDACTED]

Attached is the flush report for Tuesday, 04 Jan 22, 0800L – 2000L. Also below is a summary on distribution flushing below.

Current Location Summary:

Zone / FH# / GAC # / Flushing Status

C1 / 535 / 6 / Flushing started (First time 1910)
 C2 / 123 / 11 / Flushing started (First time 1647)
 D3 / 143 / 18 / Flushing started 1801
 D3 / 382 / NO GAC / Flushing started (First time 2134)
 D3 / 476 / 16 / Flushing started 1753
 D3 / 803 / NO GAC / Flushing started (First time 2108)
 D3 / 805 / NO GAC / Flushing started (First time 2054)
 D3 / 812 / NO GAC / Flushing started (First time 2032)
 D3 / 8103 / NO GAC / Flushing started (First time 2029)
 G1 / 26 / 4 / Flushing resumed 2020
 F2 / 13 / 19 / Flushing started 1613
 F2 / 48 / 5 / Flushing started (First time 1513)
 F2 / 50 / 20 / Flushing started 1920
 C1 / 503 / 8 / Offline (projected to start in current shift)
 C1 / 512 / NO GAC / Offline (projected to start in current shift)
 C1 / 542 / 7 / Offline (projected to start in current shift)

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Wiley, Scottie R Maj USAF 647 ABG (USA) <[REDACTED]>
Sent: Wednesday, January 5, 2022 2:28 PM
To: Kelly, Austin A 1st Lt USAF 647 ABG (USA); Joseph, Craig M MSgt USAF (USA); Duarte, Israel A MSgt USAF (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A CMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaría T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Cc: EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN; Szczepanik, Brittany A 2d LT USAF (USA)
Cc: 647 CES/UCC
Subject: INFO: 20220105 2000L - 0800L JBPHH DWDSRP Flush Report
Attachments: 20220105 2000L - 0800L JBPHH DWDSRP Flush Report.pdf

Ladies & Gentlemen,

Attached is the flush report for Monday/Tuesday, 04/05 Jan 22, 2000L – 0800L. Also below is a summary on distribution flushing below.

Current Location Summary:

Zone / FH# / GAC # / Flushing Status

C1 / 535 / 6 / No change
 C2 / 123 / 11 / No change
 D3 / 143 / 18 / No change
 D3 / 382 / NO GAC / No change
 D3 / 476 / 16 / No change
 D3 / 803 / NO GAC / No change
 D3 / 805 / NO GAC / No change
 D3 / 812 / NO GAC / No change
 D3 / 8103 / NO GAC / No change
 G1 / 26 / 4 / No change
 F2 / 13 / 19 / No change
 F2 / 48 / 5 / No change
 F2 / 50 / 20 / No change
 C1 / 503 / 8 / Flushing began
 C1 / 512 / NO GAC / Flushing began
 C1 / 542 / 7 / Flushing began

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: SZCZEPANIK, BRITTANY A 2d Lt USAF AETC 71 STUS/STU <[REDACTED]>
Sent: Wednesday, January 5, 2022 10:13 PM
To: Wiley, Scottie R Maj USAF 647 ABG (USA); Kelly, Austin A 1st Lt USAF 647 ABG (USA); [REDACTED]; Duarte, Israel A MSgt USAF (USA); [REDACTED]; Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); [REDACTED]; Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); [REDACTED]; Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaría T PO2 USN (USA); [REDACTED]; Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN 647 CES/UCC
Cc:
Subject: INFO: 20220105 0800L - 2000L JBPHH DWDSRP Flush Report
Attachments: 20220105 0800L - 2000L JBPHH DWDSRP Flush Report.pdf
Signed By: [REDACTED]

Ladies & Gentlemen,

Attached is the flush report for Wednesday, 05 Jan 22, 0800L – 2000L. Below is a summary of current distribution flushing.

Current Location Summary:

Zone	Hydrant / GAC	Latest Status	
F2	FH 5 / 20	Flushing Started	on at 16:53 UT Watch
C2	FH 318 / 25	Flushing Started	on at 13:47 UT LOG
C2	FH 300 / 23	Flushing Started	on at 13:47 UT LOG
C2	FH 315 / 10	Flushing Started	on at 13:46 UT Watch
F2	FH 19 / 12	Flushing Started (First Time)	on at 10:35 Flush LOG
F2	FH 33	Flushing Started (First Time)	on at 14:42 UT LOG
F2	FH 14 / 17	Flushing Started	on at 09:53 Flush LOG
F2	FH 7	Flushing Resumed	on at 13:34 closed at 17:15 on at 19:21 UT LOG
F2	FH 25	Flushing Resumed	on at 14:25 closed at 17:22 on at 19:38 UT LOG
D4	FH 168 / 14	Flushing Started	on at 12:00 Flush LOG
D4	FH 457	Flushing Started (First Time)	on at 16:52 UT LOG
E1	FH 924	Flushing Resumed	on at 18:40 UT LOG

Section C Officer in Charge of Flushing Daily Report

G1	FH 26 / 4	Flushing Started	closed at 08:20	Flush LOG
D3	FH143	Flushing stopped	10:24	UT LOG

BRITTANY A. SZCZEPANIK, 2d Lt, USAF
 Project Programmer/ ICAP Engineer
 NAVFAC HI, FMD JBPHH
 647 CES/CEN
 DSN: [REDACTED]

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA) <[REDACTED]>
Sent: Monday, January 3, 2022 9:39 PM
To: Kelly, Austin A 1st Lt USAF 647 ABG (USA); Joseph, Craig M TSgt USAF (USA); Duarte, Israel A MSgt USAF (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A SMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); [REDACTED]; Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaría T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN
Subject: INFO: 03 Jan 22 0800L - 2000L JBPHH DWDSRP Flush Report
Attachments: 03 Jan 2022 - 0800L 2000L - Flush Reports.pdf
Signed By: [REDACTED]

Ladies & Gentlemen,

Attached is the flush report for Monday, 03 Jan 22, 0800L – 2000L. Also below is a summary on distribution flushing below.

Current Location Summary:

Zone / FH# / GAC # / Flushing Status

F1 / 36A / 6 / Continuous Flushing This Period
 F1 / 21 / 7 / Continuous Flushing This Period
 F1 / 11A / 8 / Continuous Flushing This Period
 F1 / 42 / 9 / Flushing Paused – High PH level
 F1 / 18 / 3 / Continuous Flushing This Period
 F1 / 606 / 1 / Continuous Flushing This Period
 F2 / 51 / 20 / Flushing Paused (24/7 manning required for the gates)
 G1 / 18 / 17 / Flushing Resumed 1902
 G1 / 26 / 4 / Continuous Flushing This Period
 C1 / 410 / 12 / Flushing (First Start – 1902)
 C1 / 442 / 18 / Flushing (First Start – 1902)
 C1 / 465 / 14 / Flushing (First Start – 1554)
 C1 / 548 / 25 / Flushing (First Start – 1734)
 D3 / 191 / 23 / Flushing Paused, requires additional hose to prevent overflow

Started 14:31, closed 1700 UT LOG

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Wiley, Scottie R Maj USAF 647 ABG (USA) <[REDACTED]>
Sent: Tuesday, January 4, 2022 1:11 PM
To: Kelly, Austin A 1st Lt USAF 647 ABG (USA); Joseph, Craig M MSgt USAF (USA); Duarte, Israel A MSgt USAF (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A CMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaría T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Cc: EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN 647 CES/UCC
Cc:
Subject: INFO: 20220104 2000L - 0800L JBPHH DWDSRP Flush Report
Attachments: 20220104 2000L - 0800L JBPHH DWDSRP Flush Report.pdf

Ladies & Gentlemen,

Attached is the flush report for Sunday/Monday, 03/04 Jan 22, 2000L – 0800L. Also below is a summary on distribution flushing below.

Current Location Summary:

Zone / FH# / GAC # / Flushing Status

F1 / 36A / 6 / Continuous Flushing This Period
 F1 / 21 / 7 / Continuous Flushing This Period
 F1 / 11A / 8 / Continuous Flushing This Period
 F1 / 42 / 9 / Flushing Paused This Period (High PH level)
 F1 / 18 / 3 / Continuous Flushing This Period
 F1 / 606 / 1 / Continuous Flushing This Period
 F2 / 51 / 20 / Flushing Resumed 0018L
 G1 / 18 / 17 / Flushing Paused 0335L (Flooding)
 G1 / 26 / 4 / Flushing Paused 0345L (Flooding)
 C1 / 410 / 12 / Continuous Flushing This Period
 C1 / 442 / 18 / Continuous Flushing This Period
 C1 / 465 / 14 / Continuous Flushing This Period
 C1 / 548 / 25 / Flushing Resumed 0212L
 D3 / 191 / 23 / ~~Flushing Paused 2152L~~, Flushing Resumed 2205L (Re-position discharge hose)

r/

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA) <[REDACTED]>
Sent: Tuesday, January 4, 2022 9:53 PM
To: Kelly, Austin A 1st Lt USAF 647 ABG (USA); Joseph, Craig M MSgt USAF (USA); Duarte, Israel A MSgt USAF (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A CMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); [REDACTED] Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaría T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN
Subject: RE: INFO: 04 Jan 22 0800L - 2000L JBPHH DWDSRP Flush Report
Attachments: SKM_C36822010420490.pdf
Signed By: [REDACTED]

Attached is the flush report for Tuesday, 04 Jan 22, 0800L – 2000L. Also below is a summary on distribution flushing below.

Current Location Summary:

Zone / FH# / GAC # / Flushing Status

C1 / 535 / 6 / Flushing started (First time 1910)
 C2 / 123 / 11 / Flushing started (First time 1647)
 D3 / 143 / 18 / Flushing started 1801
 D3 / 382 / NO GAC / Flushing started (First time 2134)
 D3 / 476 / 16 / Flushing started 1753
 D3 / 803 / NO GAC / Flushing started (First time 2108)
 D3 / 805 / NO GAC / Flushing started (First time 2054)
 D3 / 812 / NO GAC / Flushing started (First time 2032)
 D3 / 8103 / NO GAC / Flushing started (First time 2029)
 G1 / 26 / 4 / Flushing resumed 2020
 F2 / 13 / 19 / Flushing started 1613
 F2 / 48 / 5 / Flushing started (First time 1513)
 F2 / 50 / 20 / Flushing started 1920
 C1 / 503 / 8 / Offline (projected to start in current shift)
 C1 / 512 / NO GAC / Offline (projected to start in current shift)
 C1 / 542 / 7 / Offline (projected to start in current shift)

D3/191 closed 1145 UT LOG

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Kelly, Austin A 1st Lt USAF 647 ABG (USA)
Sent: Sunday, January 2, 2022 10:12 PM
To: Joseph, Craig M TSgt USAF (USA); Duarte, Israel A MSgt USAF (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A SMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; [REDACTED] Gruber, Marjorie J LCDR USN CBMU 303 (USA); [REDACTED]; Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamar T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Cc: EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN; Wiley, Scottie R Capt USAF 647 ABG (USA)
Cc: 647 CES/UCC
Subject: INFO: 02 Jan 22 0800L - 2000L JBPHH DWDSRP Flush Report
Attachments: 02 Jan 2022 0800L - 2000L JBPHH DWDSRP FLUSH REPORT.pdf
Signed By: [REDACTED]

Ladies & Gentlemen,

Attached is the flush report for Sunday, 02 Jan 22, 0800L – 2000L. Also below is a summary on distribution flushing below.

Current Location Summary:

Zone / FH# / GAC # / Flushing Status

C1 / 405 / 14 / ON 15:22
D3 / 426 / 18 / ON 18:06
D3 / 202 / 19 / ON 16:50
D3 / 273 / 16 / ON 16:00
F1 / 36A / 6 / ON 18:11
F1 / 21 / 7 / ON 18:03
F1 / 11A / 8 / ON 17:58
F1 / 42 / 9 / OFF due to 10:40on, 13:09 off, 17:46 on, 18:28 off
F1 / 18 / 3 / ON 13:15on, 13:43 off, 18:31 on
F1 / 606 / 1 / ON 13:30 off, 18:18 on
F2 / 1 South / 10 / ON 17:10
F2 / 1 North / 12 / ON 20:17
F2 / 34 / 11 / ON 12:49 off 16:55 on
F2 / 40 / 5 / ON 0917 on, 12:46 off, 17:30 on
F2 / 51 / 20 / OFF
G1 / 18 / 17 / ON 19:06

Times from UT Log

G1 / 26 / 4 / ON 19:25

Very Respectfully,

Austin Kelly, 1st Lt, USAF
Airfield Deputy Assistant Public Works Officer
Naval Facilities Engineering Systems Command HI
Public Works Department, JBPHH
DSN: [REDACTED]
[REDACTED]

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Wiley, Scottie R Capt USAF 647 ABG (USA) <[REDACTED]>
Sent: Monday, January 3, 2022 1:44 PM
To: Kelly, Austin A 1st Lt USAF 647 ABG (USA); Joseph, Craig M TSgt USAF (USA); Duarte, Israel A MSgt USAF (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A SMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); [REDACTED]; Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED] Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaria T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED] Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Cc: EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN 647 CES/UCC
Cc:
Subject: INFO: 20220103 2000L - 0800L JBPHH DWDSRP Flush Report
Attachments: 20220103 2000L - 0800L JBPHH DWDSRP Flush Report.pdf

Ladies & Gentlemen,

Attached is the flush report for Sunday/Monday, 02/03 Jan 22, 2000L – 0800L. Also below is a summary on distribution flushing below.

Current Location Summary:

Zone / FH# / GAC # / Flushing Status

C1 / 405 / 14 / Flushing Paused 2350L and Resumed 0135L
D3 / 426 / 18 / Continuous Flushing This Period
D3 / 202 / 19 / Continuous Flushing This Period
D3 / 273 / 16 / Continuous Flushing This Period
F1 / 36A / 6 / Continuous Flushing This Period
F1 / 21 / 7 / Continuous Flushing This Period
F1 / 11A / 8 / Continuous Flushing This Period
F1 / 42 / 9 / Continuous Flushing This Period
F1 / 18 / 3 / Continuous Flushing This Period
F1 / 606 / 1 / Continuous Flushing This Period
F2 / 1 South / 10 / Continuous Flushing This Period
F2 / 1 North / 12 / Flushing Resumed 2018L
F2 / 34 / 11 / Continuous Flushing This Period
F2 / 40 / 5 / Continuous Flushing This Period
F2 / 51 / 20 / Flushing Paused This Period
G1 / 18 / 17 / Flushing Paused 0234L (Ruptured Hose)
G1 / 26 / 4 / Continuous Flushing This Period

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA) <[REDACTED]>
Sent: Monday, January 3, 2022 9:39 PM
To: Kelly, Austin A 1st Lt USAF 647 ABG (USA); Joseph, Craig M TSgt USAF (USA); Duarte, Israel A MSgt USAF (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A SMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); [REDACTED] Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED] Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaría T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN
Subject: INFO: 03 Jan 22 0800L - 2000L JBPHH DWDSRP Flush Report
Attachments: 03 Jan 2022 - 0800L 2000L - Flush Reports.pdf
Signed By: [REDACTED]

Ladies & Gentlemen,

Attached is the flush report for Monday, 03 Jan 22, 0800L – 2000L. Also below is a summary on distribution flushing below.

Current Location Summary:

Zone / FH# / GAC # / Flushing Status

F1 / 36A / 6 / Continuous Flushing This Period
 F1 / 21 / 7 / Continuous Flushing This Period
 F1 / 11A / 8 / Continuous Flushing This Period
 F1 / 42 / 9 / Flushing Paused – High PH level
 F1 / 18 / 3 / Continuous Flushing This Period
 F1 / 606 / 1 / Continuous Flushing This Period
 F2 / 51 / 20 / Flushing Paused (24/7 manning required for the gates)
 G1 / 18 / 17 / Flushing Resumed 1902
 G1 / 26 / 4 / Continuous Flushing This Period
 C1 / 410 / 12 / Flushing (First Start – 1902)
 C1 / 442 / 18 / Flushing (First Start – 1902)
 C1 / 465 / 14 / Flushing (First Start – 1554)
 C1 / 548 / 25 / Flushing (First Start – 1734)
 D3 / 191 / 23 / Flushing Paused, requires additional hose to prevent overflow

D3/ 202/ closed 1030 Flush LOG

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Duarte, Israel A MSgt USAF (USA)
Sent: Friday, December 31, 2021 9:31 PM
To: Wiley, Scottie R Capt USAF 647 ABG (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A SMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]
 [REDACTED] Gruber, Marjorie J LCDR USN CBMU 303 (USA); Kelly, Austin A 1st Lt USAF 647 ABG (USA); [REDACTED]; Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaria T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA)
Cc: EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN
Subject: INFO: 20211231 0800L - 2000L JBPHH DWDSRP Flush Report
Attachments: 20211231 0800L - 2000L JBPHH DWDSRP Flush Report.pdf
Signed By: [REDACTED]

Ladies & Gentlemen,

Please see the attached flush report for Friday, 31 Dec 21, 0800L – 2000L. A summary update on distribution flushing is listed below for this period.

Current Location Summary:

A2 FH ID 1-3 – Flushing Paused 1035L
 A2 FH ID 1-14 – Flushing Paused 0950L
 A2 FH ID 5-16 – Flushing Paused 1027L
 D2 FH ID 003 – Flushing Paused 0914L
 D2 FH ID 006 (No GAC) – Flushing Complete 1130L
 D2 FH ID 276 – Flushing Paused 0817L
 D2 FH ID 325 – Flushing Paused 0839L
 D2 FH ID 363 – Flushing Paused 0904L
 F1 FH ID FH-8 (No GAC) – Flushing Paused 1937L
 F1 FH ID 11A – Flushing Paused 1930L
 F1 FH ID 18 – Flushing Paused 1938L
 F1 FH ID 21 – Flushing Paused 1925L
 F1 FH ID 36A – Flushing Paused 1953L
 F1 FH ID 606 – Flushing Paused 1945L
 D3 FH ID 801 – Flushing Started 1215L
 D3 FH ID 805 – Flushing Started 1230L, Flushing Paused 1913L
 D3 FH ID 245 – Flushing Started 1359L
 D3 FH ID 228 – Flushing Started 1456L, Flushing Paused 1659L
 D3 FH ID 477 – Flushing Started 1226L

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Joseph, Craig M TSgt USAF (USA) <[REDACTED]>
Sent: Saturday, January 1, 2022 9:56 AM
To: Duarte, Israel A MSgt USAF (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A SMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); Kelly, Austin A 1st Lt USAF 647 ABG (USA); [REDACTED]; Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaria T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Cc: EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN; Wiley, Scottie R Capt USAF 647 ABG (USA)
Subject: INFO: 01 Jan 22 2000L - 0800L JBPHH DWDSRP Flush Report
Attachments: 20210101 2000L - 0800L JBPHH DWDSRP Flush Report.pdf
Signed By: [REDACTED]

ALCON,

Attached is the flush report for Friday-Saturday, 31 Dec 21 – 01 Jan 22, 2000L – 0800L. Also below is a summary on distribution flushing below.

Current Location Summary:

F1 FH 228 / 11 – Flushing Paused (0108 L)
 D3 FH 245 / 17– Flushing Paused (0300 L)
 D3 FH 805 (FH 804) – Flushing Paused (0315 L)
 D3 SA FH 801 (FH 803) – Flushing Paused (0320 L)
 F1 FH 18 / 7– Flushing Paused (0331 L)
 F1 FH 8– Flushing Paused (0336 L)
 F1 FH 11A/ 5– Flushing Paused (0343 L)
 F1 FH 21 / 3– Flushing Paused (0354 L)
 F1 FH 36A / 2– Flushing Paused (0400 L)
 F1 FH 606 / 6– Flushing Paused (0408 L)
 D3 FH 477– Flushing Paused (0431 L)
 D3 FH 801 (FH 803) – Flushing Resumed (0540 L)
 D3 FH 805 (FH 804) – Flushing Resumed (0545 L)

F1 FH 11A / 5– Flushing Resumed (0556 L)

F1 FH 21 / 3– Flushing Resumed (0603 L)

F1 FH 36A / 2– Flushing Resumed (0615 L)

F1 FH 8– Flushing Resumed (0632 L)

F1 FH 18 / 7– Flushing Resumed (0638 L)



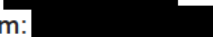
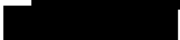
D3 FH 477 / 12– Flushing Resumed (0655 L)

D3 FH 245 / 17– Flushing Resumed (0706 L)

D3 FH 228 / 11– Flushing Resumed (0715 L)

resumed at 22:25, paused at
01:09, (resumed at 0706)
completed 08:30 per UT Log

v/r

CRAIG M. JOSEPH, TSgt, USAF 
NCOIC Pavements & Equipment
647th Civil Engineer Squadron
Joint Base Pearl Harbor-Hickam, HI 96853-5111
DSN: 
Comm: 
Cell: 

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Duarte, Israel A MSgt USAF (USA)
Sent: Friday, December 31, 2021 9:31 PM
To: Wiley, Scottie R Capt USAF 647 ABG (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A SMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); Kelly, Austin A 1st Lt USAF 647 ABG (USA); [REDACTED]; Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaria T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA)
Cc: EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN
Subject: INFO: 20211231 0800L - 2000L JBPHH DWDSRP Flush Report
Attachments: 20211231 0800L - 2000L JBPHH DWDSRP Flush Report.pdf
Signed By: [REDACTED]

Ladies & Gentlemen,

Please see the attached flush report for Friday, 31 Dec 21, 0800L – 2000L. A summary update on distribution flushing is listed below for this period.

Current Location Summary:

A2 FH ID 1-3 – Flushing Paused 1035L
 A2 FH ID 1-14 – Flushing Paused 0950L
 A2 FH ID 5-16 – Flushing Paused 1027L
 D2 FH ID 003 – Flushing Paused 0914L
 D2 FH ID 006 (No GAC) – Flushing Complete 1130L
 D2 FH ID 276 – Flushing Paused 0817L
 D2 FH ID 325 – Flushing Paused 0839L
 D2 FH ID 363 – Flushing Paused 0904L
 F1 FH ID FH-8 (No GAC) – Flushing Paused 1937L
 F1 FH ID 11A – Flushing Paused 1930L
 F1 FH ID 18 – Flushing Paused 1938L
 F1 FH ID 21 – Flushing Paused 1925L
 F1 FH ID 36A – Flushing Paused 1953L
 F1 FH ID 606 – Flushing Paused 1945L
 D3 FH ID 801 – Flushing Started 1215L
 D3 FH ID 805 – Flushing Started 1230L, Flushing Paused 1913L
 D3 FH ID 245 – Flushing Started 1359L
 D3 FH ID 228 – Flushing Started 1456L, Flushing Paused 1659L
 D3 FH ID 477 – Flushing Started 1226L

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Joseph, Craig M TSgt USAF (USA) <[REDACTED]>
Sent: Saturday, January 1, 2022 9:56 AM
To: Duarte, Israel A MSgt USAF (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A SMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); Kelly, Austin A 1st Lt USAF 647 ABG (USA); [REDACTED] Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaria T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED]; [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Cc: EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN; Wiley, Scottie R Capt USAF 647 ABG (USA)
Subject: INFO: 01 Jan 22 2000L - 0800L JBPHH DWDSRP Flush Report
Attachments: 20210101 2000L - 0800L JBPHH DWDSRP Flush Report.pdf
Signed By: [REDACTED]

ALCON,

Attached is the flush report for Friday-Saturday, 31 Dec 21 – 01 Jan 22, 2000L – 0800L. Also below is a summary on distribution flushing below.

Current Location Summary:

F1 FH 228 / 11 – Flushing Paused (0108 L)
 D3 FH 245 / 17– Flushing Paused (0300 L)
 D3 FH 805 (FH 804) – Flushing Paused (0315 L)
 D3 SA FH 801 (FH 803) – Flushing Paused (0320 L)
 F1 FH 18 / 7– Flushing Paused (0331 L)
 F1 FH 8– Flushing Paused (0336 L)
 F1 FH 11A/ 5– Flushing Paused (0343 L)
 F1 FH 21 / 3– Flushing Paused (0354 L)
 F1 FH 36A / 2– Flushing Paused (0400 L)
 F1 FH 606 / 6– Flushing Paused (0408 L)
 D3 FH 477– Flushing Paused (0431 L)
 D3 FH 801 (FH 803) – Flushing Resumed (0540 L)
 D3 FH 805 (FH 804) – Flushing Resumed (0545 L)

F1 FH 11A / 5– Flushing Resumed (0556 L)

F1 FH 21 / 3– Flushing Resumed (0603 L)

F1 FH 36A / 2– Flushing Resumed (0615 L)

F1 FH 8– Flushing Resumed (0632 L)

F1 FH 18 / 7– Flushing Resumed (0638 L)



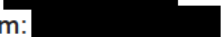
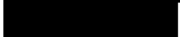
D3 FH 477 / 12– Flushing Resumed (0655 L)

D3 FH 245 / 17– Flushing Resumed (0706 L)

D3 FH 228 / 11– Flushing Resumed (0715 L)

Paused 2038, up at 2200,
paused at 0300 per UT
LOG

v/r

CRAIG M. JOSEPH, TSgt, USAF 
NCOIC Pavements & Equipment
647th Civil Engineer Squadron
Joint Base Pearl Harbor-Hickam, HI 96853-5111
DSN: 
Comm: 
Cell: 

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Wiley, Scottie R Maj USAF 647 ABG (USA) <[REDACTED]>
Sent: Wednesday, January 5, 2022 2:28 PM
To: Kelly, Austin A 1st Lt USAF 647 ABG (USA); Joseph, Craig M MSgt USAF (USA); Duarte, Israel A MSgt USAF (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A CMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamarita T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED] Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Cc: EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN; Szczepanik, Brittany A 2d LT USAF (USA)
Cc: 647 CES/UCC
Subject: INFO: 20220105 2000L - 0800L JBPHH DWDSRP Flush Report
Attachments: 20220105 2000L - 0800L JBPHH DWDSRP Flush Report.pdf

Ladies & Gentlemen,

Attached is the flush report for Monday/Tuesday, 04/05 Jan 22, 2000L – 0800L. Also below is a summary on distribution flushing below.

Current Location Summary:

Zone / FH# / GAC # / Flushing Status

C1 / 535 / 6 / No change
 C2 / 123 / 11 / No change
 D3 / 143 / 18 / No change
 D3 / 382 / NO GAC / No change 2136 start per UT Log
 D3 / 476 / 16 / No change
 D3 / 803 / NO GAC / No change
 D3 / 805 / NO GAC / No change
 D3 / 812 / NO GAC / No change
 D3 / 8103 / NO GAC / No change
 G1 / 26 / 4 / No change
 F2 / 13 / 19 / No change
 F2 / 48 / 5 / No change
 F2 / 50 / 20 / No change
 C1 / 503 / 8 / Flushing began
 C1 / 512 / NO GAC / Flushing began
 C1 / 542 / 7 / Flushing began

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: SZCZEPANIK, BRITTANY A 2d Lt USAF AETC 71 STUS/STU <[REDACTED]>
Sent: Wednesday, January 5, 2022 10:13 PM
To: Wiley, Scottie R Maj USAF 647 ABG (USA); Kelly, Austin A 1st Lt USAF 647 ABG (USA); [REDACTED]; Duarte, Israel A MSgt USAF (USA); [REDACTED]; Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); [REDACTED]; Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); [REDACTED]; Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaría T PO2 USN (USA); [REDACTED]; Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN 647 CES/UCC
Cc:
Subject: INFO: 20220105 0800L - 2000L JBPHH DWDSRP Flush Report
Attachments: 20220105 0800L - 2000L JBPHH DWDSRP Flush Report.pdf
Signed By: [REDACTED]

Ladies & Gentlemen,

Attached is the flush report for Wednesday, 05 Jan 22, 0800L – 2000L. Below is a summary of current distribution flushing.

Current Location Summary:

Zone	Hydrant / GAC	Latest Status	
F2	FH 5 / 20	Flushing Started	on at 16:53 UT Watch
C2	FH 318 / 25	Flushing Started	on at 13:47 UT LOG
C2	FH 300 / 23	Flushing Started	on at 13:47 UT LOG
C2	FH 315 / 10	Flushing Started	on at 13:46 UT Watch
F2	FH 19 / 12	Flushing Started (First Time)	on at 10:35 Flush LOG
F2	FH 33	Flushing Started (First Time)	on at 14:42 UT LOG
F2	FH 14 / 17	Flushing Started	on at 09:53 Flush LOG
F2	FH 7	Flushing Resumed	on at 13:34 closed at 17:15 on at 19:21 UT LOG
F2	FH 25	Flushing Resumed	on at 14:25 closed at 17:22 on at 19:38 UT LOG
D4	FH 168 / 14	Flushing Started	on at 12:00 Flush LOG
D4	FH 457	Flushing Started (First Time)	on at 16:52 UT LOG
E1	FH 924	Flushing Resumed	on at 18:40 UT LOG

G1	FH 26 / 4	Flushing Started	closed at 08:20	Flush LOG
D3	FH382/n/a	Flushing stopped 1442	UT LOG	

Very Respectfully,

BRITTANY A. SZCZEPANIK, 2d Lt, USAF
 Project Programmer/ ICAP Engineer
 NAVFAC HI, FMD JBPHH
 647 CES/CEN
 DSN: [REDACTED]

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Kelly, Austin A 1st Lt USAF 647 ABG (USA)
Sent: Sunday, January 2, 2022 10:12 PM
To: Joseph, Craig M TSgt USAF (USA); Duarte, Israel A MSgt USAF (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A SMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]
 [REDACTED] Gruber, Marjorie J LCDR USN CBMU 303 (USA); [REDACTED]; Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamar T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Cc: EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN; Wiley, Scottie R Capt USAF 647 ABG (USA)
Cc: 647 CES/UCC
Subject: INFO: 02 Jan 22 0800L - 2000L JBPHH DWDSRP Flush Report
Attachments: 02 Jan 2022 0800L - 2000L JBPHH DWDSRP FLUSH REPORT.pdf
Signed By: [REDACTED]

Ladies & Gentlemen,

Attached is the flush report for Sunday, 02 Jan 22, 0800L – 2000L. Also below is a summary on distribution flushing below.

Current Location Summary:

Zone / FH# / GAC # / Flushing Status

C1 / 405 / 14 / ON 15:22
 D3 / 426 / 18 / ON 18:06
 D3 / 202 / 19 / ON 16:50
 D3 / 273 / 16 / ON 16:00
 F1 / 36A / 6 / ON 18:11
 F1 / 21 / 7 / ON 18:03
 F1 / 11A / 8 / ON 17:58
 F1 / 42 / 9 / OFF due to 10:40on, 13:09 off, 17:46 on, 18:28 off
 F1 / 18 / 3 / ON 13:15on, 13:43 off, 18:31 on
 F1 / 606 / 1 / ON 13:30 off, 18:18 on
 F2 / 1 South / 10 / ON 17:10
 F2 / 1 North / 12 / ON 20:17
 F2 / 34 / 11 / ON 12:49 off 16:55 on
 F2 / 40 / 5 / ON 0917 on, 12:46 off, 17:30 on
 F2 / 51 / 20 / OFF
 G1 / 18 / 17 / ON 19:06

Times from UT Log

G1 / 26 / 4 / ON 19:25

Very Respectfully,

Austin Kelly, 1st Lt, USAF
Airfield Deputy Assistant Public Works Officer
Naval Facilities Engineering Systems Command HI
Public Works Department, JBPHH
DSN: [REDACTED]
Email: [REDACTED]

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Wiley, Scottie R Capt USAF 647 ABG (USA) <[REDACTED]>
Sent: Monday, January 3, 2022 1:44 PM
To: Kelly, Austin A 1st Lt USAF 647 ABG (USA); Joseph, Craig M TSgt USAF (USA); Duarte, Israel A MSgt USAF (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A SMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); [REDACTED] Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED] Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaria T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Cc: EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN 647 CES/UCC
Cc:
Subject: INFO: 20220103 2000L - 0800L JBPHH DWDSRP Flush Report
Attachments: 20220103 2000L - 0800L JBPHH DWDSRP Flush Report.pdf

Ladies & Gentlemen,

Attached is the flush report for Sunday/Monday, 02/03 Jan 22, 2000L – 0800L. Also below is a summary on distribution flushing below.

Current Location Summary:

Zone / FH# / GAC # / Flushing Status

C1 / 405 / 14 / Flushing Paused 2350L and Resumed 0135L
D3 / 426 / 18 / Continuous Flushing This Period
D3 / 202 / 19 / Continuous Flushing This Period
D3 / 273 / 16 / Continuous Flushing This Period
F1 / 36A / 6 / Continuous Flushing This Period
F1 / 21 / 7 / Continuous Flushing This Period
F1 / 11A / 8 / Continuous Flushing This Period
F1 / 42 / 9 / Continuous Flushing This Period
F1 / 18 / 3 / Continuous Flushing This Period
F1 / 606 / 1 / Continuous Flushing This Period
F2 / 1 South / 10 / Continuous Flushing This Period
F2 / 1 North / 12 / Flushing Resumed 2018L
F2 / 34 / 11 / Continuous Flushing This Period
F2 / 40 / 5 / Continuous Flushing This Period
F2 / 51 / 20 / Flushing Paused This Period
G1 / 18 / 17 / Flushing Paused 0234L (Ruptured Hose)
G1 / 26 / 4 / Continuous Flushing This Period

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA) <[REDACTED]>
Sent: Monday, January 3, 2022 9:39 PM
To: Kelly, Austin A 1st Lt USAF 647 ABG (USA); Joseph, Craig M TSgt USAF (USA); Duarte, Israel A MSgt USAF (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A SMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); [REDACTED]; Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaría T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED] Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN
Subject: INFO: 03 Jan 22 0800L - 2000L JBPHH DWDSRP Flush Report
Attachments: 03 Jan 2022 - 0800L 2000L - Flush Reports.pdf
Signed By: [REDACTED]

Ladies & Gentlemen,

Attached is the flush report for Monday, 03 Jan 22, 0800L – 2000L. Also below is a summary on distribution flushing below.

Current Location Summary:

Zone / FH# / GAC # / Flushing Status

F1 / 36A / 6 / Continuous Flushing This Period
 F1 / 21 / 7 / Continuous Flushing This Period
 F1 / 11A / 8 / Continuous Flushing This Period
 F1 / 42 / 9 / Flushing Paused – High PH level
 F1 / 18 / 3 / Continuous Flushing This Period
 F1 / 606 / 1 / Continuous Flushing This Period
 F2 / 51 / 20 / Flushing Paused (24/7 manning required for the gates)
 G1 / 18 / 17 / Flushing Resumed 1902
 G1 / 26 / 4 / Continuous Flushing This Period
 C1 / 410 / 12 / Flushing (First Start – 1902)
 C1 / 442 / 18 / Flushing (First Start – 1902)
 C1 / 465 / 14 / Flushing (First Start – 1554)
 C1 / 548 / 25 / Flushing (First Start – 1734)
 D3 / 191 / 23 / Flushing Paused, requires additional hose to prevent overflow

D3/ 101/ closed 09:42 UT LOG

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Kelly, Austin A 1st Lt USAF 647 ABG (USA)
Sent: Sunday, January 2, 2022 10:12 PM
To: Joseph, Craig M TSgt USAF (USA); Duarte, Israel A MSgt USAF (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A SMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); [REDACTED]; Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamar T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Cc: EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN; Wiley, Scottie R Capt USAF 647 ABG (USA)
Cc: 647 CES/UCC
Subject: INFO: 02 Jan 22 0800L - 2000L JBPHH DWDSRP Flush Report
Attachments: 02 Jan 2022 0800L - 2000L JBPHH DWDSRP FLUSH REPORT.pdf
Signed By: [REDACTED]

Ladies & Gentlemen,

Attached is the flush report for Sunday, 02 Jan 22, 0800L – 2000L. Also below is a summary on distribution flushing below.

Current Location Summary:

Zone / FH# / GAC # / Flushing Status

C1 / 405 / 14 / ON 15:22
D3 / 426 / 18 / ON 18:06
D3 / 202 / 19 / ON 16:50
D3 / 273 / 16 / ON 16:00
F1 / 36A / 6 / ON 18:11
F1 / 21 / 7 / ON 18:03
F1 / 11A / 8 / ON 17:58
F1 / 42 / 9 / OFF due to 10:40on, 13:09 off, 17:46 on, 18:28 off
F1 / 18 / 3 / ON 13:15on, 13:43 off, 18:31 on
F1 / 606 / 1 / ON 13:30 off, 18:18 on
F2 / 1 South / 10 / ON 17:10
F2 / 1 North / 12 / ON 20:17
F2 / 34 / 11 / ON 12:49 off 16:55 on
F2 / 40 / 5 / ON 0917 on, 12:46 off, 17:30 on
F2 / 51 / 20 / OFF
G1 / 18 / 17 / ON 19:06

Times from UT Log

G1 / 26 / 4 / ON 19:25

Very Respectfully,

Austin Kelly, 1st Lt, USAF
Airfield Deputy Assistant Public Works Officer
Naval Facilities Engineering Systems Command HI
Public Works Department, JBPHH
DSN: [REDACTED]
Email: [REDACTED]

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Wiley, Scottie R Capt USAF 647 ABG (USA) <[REDACTED]>
Sent: Monday, January 3, 2022 1:44 PM
To: Kelly, Austin A 1st Lt USAF 647 ABG (USA); Joseph, Craig M TSgt USAF (USA); Duarte, Israel A MSgt USAF (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A SMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); [REDACTED]; Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaria T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Cc: EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN 647 CES/UCC
Cc:
Subject: INFO: 20220103 2000L - 0800L JBPHH DWDSRP Flush Report
Attachments: 20220103 2000L - 0800L JBPHH DWDSRP Flush Report.pdf

Ladies & Gentlemen,

Attached is the flush report for Sunday/Monday, 02/03 Jan 22, 2000L – 0800L. Also below is a summary on distribution flushing below.

Current Location Summary:

Zone / FH# / GAC # / Flushing Status

C1 / 405 / 14 / Flushing Paused 2350L and Resumed 0135L
D3 / 426 / 18 / Continuous Flushing This Period
D3 / 202 / 19 / Continuous Flushing This Period
D3 / 273 / 16 / Continuous Flushing This Period
F1 / 36A / 6 / Continuous Flushing This Period
F1 / 21 / 7 / Continuous Flushing This Period
F1 / 11A / 8 / Continuous Flushing This Period
F1 / 42 / 9 / Continuous Flushing This Period
F1 / 18 / 3 / Continuous Flushing This Period
F1 / 606 / 1 / Continuous Flushing This Period
F2 / 1 South / 10 / Continuous Flushing This Period
F2 / 1 North / 12 / Flushing Resumed 2018L
F2 / 34 / 11 / Continuous Flushing This Period
F2 / 40 / 5 / Continuous Flushing This Period
F2 / 51 / 20 / Flushing Paused This Period
G1 / 18 / 17 / Flushing Paused 0234L (Ruptured Hose)
G1 / 26 / 4 / Continuous Flushing This Period

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA) <[REDACTED]>
Sent: Monday, January 3, 2022 9:39 PM
To: Kelly, Austin A 1st Lt USAF 647 ABG (USA); Joseph, Craig M TSgt USAF (USA); Duarte, Israel A MSgt USAF (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A SMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); [REDACTED]; Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaría T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN
Subject: INFO: 03 Jan 22 0800L - 2000L JBPHH DWDSRP Flush Report
Attachments: 03 Jan 2022 - 0800L 2000L - Flush Reports.pdf
Signed By: [REDACTED]

Ladies & Gentlemen,

Attached is the flush report for Monday, 03 Jan 22, 0800L – 2000L. Also below is a summary on distribution flushing below.

Current Location Summary:

Zone / FH# / GAC # / Flushing Status

F1 / 36A / 6 / Continuous Flushing This Period
 F1 / 21 / 7 / Continuous Flushing This Period
 F1 / 11A / 8 / Continuous Flushing This Period
 F1 / 42 / 9 / Flushing Paused – High PH level
 F1 / 18 / 3 / Continuous Flushing This Period
 F1 / 606 / 1 / Continuous Flushing This Period
 F2 / 51 / 20 / Flushing Paused (24/7 manning required for the gates)
 G1 / 18 / 17 / Flushing Resumed 1902
 G1 / 26 / 4 / Continuous Flushing This Period
 C1 / 410 / 12 / Flushing (First Start – 1902)
 C1 / 442 / 18 / Flushing (First Start – 1902)
 C1 / 465 / 14 / Flushing (First Start – 1554)
 C1 / 548 / 25 / Flushing (First Start – 1734)
 D3 / 191 / 23 / Flushing Paused, requires additional hose to prevent overflow

D3/ 273/ closed 10:35 Flush LOG

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA) <[REDACTED]>
Sent: Tuesday, January 4, 2022 9:53 PM
To: Kelly, Austin A 1st Lt USAF 647 ABG (USA); Joseph, Craig M MSgt USAF (USA); Duarte, Israel A MSgt USAF (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A CMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); [REDACTED]; Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaría T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN
Subject: RE: INFO: 04 Jan 22 0800L - 2000L JBPHH DWDSRP Flush Report
Attachments: SKM_C36822010420490.pdf
Signed By: [REDACTED]

Attached is the flush report for Tuesday, 04 Jan 22, 0800L – 2000L. Also below is a summary on distribution flushing below.

Current Location Summary:

Zone / FH# / GAC # / Flushing Status

C1 / 535 / 6 / Flushing started (First time 1910)
 C2 / 123 / 11 / Flushing started (First time 1647)
 D3 / 143 / 18 / Flushing started 1801
 D3 / 382 / NO GAC / Flushing started (First time 2134)
 D3 / 476 / 16 / Flushing started 1753
 D3 / 803 / NO GAC / Flushing started (First time 2108)
 D3 / 805 / NO GAC / Flushing started (First time 2054)
 D3 / 812 / NO GAC / Flushing started (First time 2032)
 D3 / 8103 / NO GAC / Flushing started (First time 2029)
 G1 / 26 / 4 / Flushing resumed 2020
 F2 / 13 / 19 / Flushing started 1613
 F2 / 48 / 5 / Flushing started (First time 1513)
 F2 / 50 / 20 / Flushing started 1920
 C1 / 503 / 8 / Offline (projected to start in current shift)
 C1 / 512 / NO GAC / Offline (projected to start in current shift)
 C1 / 542 / 7 / Offline (projected to start in current shift)

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Wiley, Scottie R Maj USAF 647 ABG (USA) <[REDACTED]>
Sent: Wednesday, January 5, 2022 2:28 PM
To: Kelly, Austin A 1st Lt USAF 647 ABG (USA); Joseph, Craig M MSgt USAF (USA); Duarte, Israel A MSgt USAF (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A CMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED] Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaría T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Cc: EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN; Szczepanik, Brittany A 2d LT USAF (USA)
Cc: 647 CES/UCC
Subject: INFO: 20220105 2000L - 0800L JBPHH DWDSRP Flush Report
Attachments: 20220105 2000L - 0800L JBPHH DWDSRP Flush Report.pdf

Ladies & Gentlemen,

Attached is the flush report for Monday/Tuesday, 04/05 Jan 22, 2000L – 0800L. Also below is a summary on distribution flushing below.

Current Location Summary:

Zone / FH# / GAC # / Flushing Status

C1 / 535 / 6 / No change
 C2 / 123 / 11 / No change
 D3 / 143 / 18 / No change
 D3 / 382 / NO GAC / No change
 D3 / 476 / 16 / No change
 D3 / 803 / NO GAC / No change
 D3 / 805 / NO GAC / No change
 D3 / 812 / NO GAC / No change
 D3 / 8103 / NO GAC / No change
 G1 / 26 / 4 / No change
 F2 / 13 / 19 / No change
 F2 / 48 / 5 / No change
 F2 / 50 / 20 / No change
 C1 / 503 / 8 / Flushing began
 C1 / 512 / NO GAC / Flushing began
 C1 / 542 / 7 / Flushing began

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: SZCZEPANIK, BRITTANY A 2d Lt USAF AETC 71 STUS/STU <[REDACTED]>
Sent: Wednesday, January 5, 2022 10:13 PM
To: Wiley, Scottie R Maj USAF 647 ABG (USA); Kelly, Austin A 1st Lt USAF 647 ABG (USA); [REDACTED]; Duarte, Israel A MSgt USAF (USA); [REDACTED]; Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); [REDACTED]; Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); [REDACTED]; Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaría T PO2 USN (USA); [REDACTED]; Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN 647 CES/UCC
Cc:
Subject: INFO: 20220105 0800L - 2000L JBPHH DWDSRP Flush Report
Attachments: 20220105 0800L - 2000L JBPHH DWDSRP Flush Report.pdf
Signed By: [REDACTED]

Ladies & Gentlemen,

Attached is the flush report for Wednesday, 05 Jan 22, 0800L – 2000L. Below is a summary of current distribution flushing.

Current Location Summary:

Zone	Hydrant / GAC	Latest Status	
F2	FH 5 / 20	Flushing Started	on at 16:53 UT Watch
C2	FH 318 / 25	Flushing Started	on at 13:47 UT LOG
C2	FH 300 / 23	Flushing Started	on at 13:47 UT LOG
C2	FH 315 / 10	Flushing Started	on at 13:46 UT Watch
F2	FH 19 / 12	Flushing Started (First Time)	on at 10:35 Flush LOG
F2	FH 33	Flushing Started (First Time)	on at 14:42 UT LOG
F2	FH 14 / 17	Flushing Started	on at 09:53 Flush LOG
F2	FH 7	Flushing Resumed	on at 13:34 closed at 17:15 on at 19:21 UT LOG
F2	FH 25	Flushing Resumed	on at 14:25 closed at 17:22 on at 19:38 UT LOG
D4	FH 168 / 14	Flushing Started	on at 12:00 Flush LOG
D4	FH 457	Flushing Started (First Time)	on at 16:52 UT LOG
E1	FH 924	Flushing Resumed	on at 18:40 UT LOG

G1	FH 26 / 4	Flushing Started	closed at 08:20	Flush LOG
D3	FH 476	Flushing stopped 1017	UT LOG	

Very Respectfully,

BRITTANY A. SZCZEPANIK, 2d Lt, USAF
 Project Programmer/ ICAP Engineer
 NAVFAC HI, FMD JBPHH
 647 CES/CEN
 DSN: [REDACTED]

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Duarte, Israel A MSgt USAF (USA)
Sent: Friday, December 31, 2021 9:31 PM
To: Wiley, Scottie R Capt USAF 647 ABG (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A SMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); Kelly, Austin A 1st Lt USAF 647 ABG (USA); [REDACTED] Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaria T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA)
Cc: EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN
Subject: INFO: 20211231 0800L - 2000L JBPHH DWDSRP Flush Report
Attachments: 20211231 0800L - 2000L JBPHH DWDSRP Flush Report.pdf
Signed By: [REDACTED]

Ladies & Gentlemen,

Please see the attached flush report for Friday, 31 Dec 21, 0800L – 2000L. A summary update on distribution flushing is listed below for this period.

Current Location Summary:

A2 FH ID 1-3 – Flushing Paused 1035L
 A2 FH ID 1-14 – Flushing Paused 0950L
 A2 FH ID 5-16 – Flushing Paused 1027L
 D2 FH ID 003 – Flushing Paused 0914L
 D2 FH ID 006 (No GAC) – Flushing Complete 1130L
 D2 FH ID 276 – Flushing Paused 0817L
 D2 FH ID 325 – Flushing Paused 0839L
 D2 FH ID 363 – Flushing Paused 0904L
 F1 FH ID FH-8 (No GAC) – Flushing Paused 1937L
 F1 FH ID 11A – Flushing Paused 1930L
 F1 FH ID 18 – Flushing Paused 1938L
 F1 FH ID 21 – Flushing Paused 1925L
 F1 FH ID 36A – Flushing Paused 1953L
 F1 FH ID 606 – Flushing Paused 1945L
 D3 FH ID 801 – Flushing Started 1215L
 D3 FH ID 805 – Flushing Started 1230L, Flushing Paused 1913L
 D3 FH ID 245 – Flushing Started 1359L
 D3 FH ID 228 – Flushing Started 1456L, Flushing Paused 1659L
 D3 FH ID 477 – Flushing Started 1226L

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Joseph, Craig M TSgt USAF (USA) <[REDACTED]>
Sent: Saturday, January 1, 2022 9:56 AM
To: Duarte, Israel A MSgt USAF (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A SMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); Kelly, Austin A 1st Lt USAF 647 ABG (USA); [REDACTED]; Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED] Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaria T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Cc: EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN; Wiley, Scottie R Capt USAF 647 ABG (USA)
Subject: INFO: 01 Jan 22 2000L - 0800L JBPHH DWDSRP Flush Report
Attachments: 20210101 2000L - 0800L JBPHH DWDSRP Flush Report.pdf
Signed By: [REDACTED]

ALCON,

Attached is the flush report for Friday-Saturday, 31 Dec 21 – 01 Jan 22, 2000L – 0800L. Also below is a summary on distribution flushing below.

Current Location Summary:

F1 FH 228 / 11 – Flushing Paused (0108 L)
D3 FH 245 / 17– Flushing Paused (0300 L)
D3 FH 805 (FH 804) – Flushing Paused (0315 L)
D3 SA FH 801 (FH 803) – Flushing Paused (0320 L)
F1 FH 18 / 7– Flushing Paused (0331 L)
F1 FH 8– Flushing Paused (0336 L)
F1 FH 11A/ 5– Flushing Paused (0343 L)
F1 FH 21 / 3– Flushing Paused (0354 L)
F1 FH 36A / 2– Flushing Paused (0400 L)
F1 FH 606 / 6– Flushing Paused (0408 L)
D3 FH 477– Flushing Paused (0431 L) **Paused 2028, up at 2210, (paused at 0431), up at 06:55, down at 08:42 per UT LOG**
D3 FH 801 (FH 803) – Flushing Resume
D3 FH 805 (FH 804) – Flushing Resumed (0545 L)

F1 FH 11A / 5– Flushing Resumed (0556 L)

F1 FH 21 / 3– Flushing Resumed (0603 L)

F1 FH 36A / 2– Flushing Resumed (0615 L)

F1 FH 8– Flushing Resumed (0632 L)



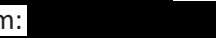

F1 FH 18 / 7– Flushing Resumed (0638 L)

D3 FH 477 / 12– Flushing Resumed (0655 L)

D3 FH 245 / 17– Flushing Resumed (0706 L)

D3 FH 228 / 11– Flushing Resumed (0715 L)

v/r

CRAIG M. JOSEPH, TSgt, USAF 
NCOIC Pavements & Equipment
647th Civil Engineer Squadron
Joint Base Pearl Harbor-Hickam, HI 96853-5111
DSN: 
Comm: 
Cell: 

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Duarte, Israel A MSgt USAF (USA)
Sent: Friday, December 31, 2021 9:31 PM
To: Wiley, Scottie R Capt USAF 647 ABG (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A SMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); Kelly, Austin A 1st Lt USAF 647 ABG (USA); [REDACTED]; Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaria T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED] Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA)
Cc: EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN
Subject: INFO: 20211231 0800L - 2000L JBPHH DWDSRP Flush Report
Attachments: 20211231 0800L - 2000L JBPHH DWDSRP Flush Report.pdf
Signed By: [REDACTED]

Ladies & Gentlemen,

Please see the attached flush report for Friday, 31 Dec 21, 0800L – 2000L. A summary update on distribution flushing is listed below for this period.

Current Location Summary:

A2 FH ID 1-3 – Flushing Paused 1035L
 A2 FH ID 1-14 – Flushing Paused 0950L
 A2 FH ID 5-16 – Flushing Paused 1027L
 D2 FH ID 003 – Flushing Paused 0914L
 D2 FH ID 006 (No GAC) – Flushing Complete 1130L
 D2 FH ID 276 – Flushing Paused 0817L
 D2 FH ID 325 – Flushing Paused 0839L
 D2 FH ID 363 – Flushing Paused 0904L
 F1 FH ID FH-8 (No GAC) – Flushing Paused 1937L
 F1 FH ID 11A – Flushing Paused 1930L
 F1 FH ID 18 – Flushing Paused 1938L
 F1 FH ID 21 – Flushing Paused 1925L
 F1 FH ID 36A – Flushing Paused 1953L
 F1 FH ID 606 – Flushing Paused 1945L
 D3 FH ID 801 – Flushing Started 1215L
 D3 FH ID 805 – Flushing Started 1230L, Flushing Paused 1913L
 D3 FH ID 245 – Flushing Started 1359L
 D3 FH ID 228 – Flushing Started 1456L, Flushing Paused 1659L
 D3 FH ID 477 – Flushing Started 1226L

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Joseph, Craig M TSgt USAF (USA) <[REDACTED]>
Sent: Saturday, January 1, 2022 9:56 AM
To: Duarte, Israel A MSgt USAF (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A SMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); Kelly, Austin A 1st Lt USAF 647 ABG (USA); [REDACTED]; Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamarita T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Cc: EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN; Wiley, Scottie R Capt USAF 647 ABG (USA)
Subject: INFO: 01 Jan 22 2000L - 0800L JBPHH DWDSRP Flush Report
Attachments: 20210101 2000L - 0800L JBPHH DWDSRP Flush Report.pdf
Signed By: [REDACTED]

ALCON,



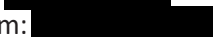
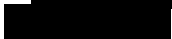
Attached is the flush report for Friday-Saturday, 31 Dec 21 – 01 Jan 22, 2000L – 0800L. Also below is a summary on distribution flushing below.

Current Location Summary:

F1 FH 228 / 11 – Flushing Paused (0108 L)
 D3 FH 245 / 17– Flushing Paused (0300 L)
 D3 FH 805 (FH 804) – Flushing Paused (0315 L)
 D3 SA FH 801 (FH 803) – Flushing Paused (0320 L)
 F1 FH 18 / 7– Flushing Paused (0331 L)
 F1 FH 8– Flushing Paused (0336 L)
 F1 FH 11A/ 5– Flushing Paused (0343 L)
 F1 FH 21 / 3– Flushing Paused (0354 L)
 F1 FH 36A / 2– Flushing Paused (0400 L)
 F1 FH 606 / 6– Flushing Paused (0408 L)
 D3 FH 477– Flushing Paused (0431 L)
 D3 FH 801 (FH 803) – Flushing Resumed (0540 L)
 D3 FH 805 (FH 804) – Flushing Resumed (0545 L)

F1 FH 11A / 5– Flushing Resumed (0556 L)
F1 FH 21 / 3– Flushing Resumed (0603 L)
F1 FH 36A / 2– Flushing Resumed (0615 L)
F1 FH 8– Flushing Resumed (0632 L)
F1 FH 18 / 7– Flushing Resumed (0638 L)
D3 FH 477 / 12– Flushing Resumed (0655 L)
D3 FH 245 / 17– Flushing Resumed (0706 L)
D3 FH 228 / 11– Flushing Resumed (0715 L)

v/r

CRAIG M. JOSEPH, TSgt, USAF 
NCOIC Pavements & Equipment
647th Civil Engineer Squadron
Joint Base Pearl Harbor-Hickam, HI 96853-5111
DSN: 
Comm: 
Cell: 

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA) <[REDACTED]>
Sent: Tuesday, January 4, 2022 9:53 PM
To: Kelly, Austin A 1st Lt USAF 647 ABG (USA); Joseph, Craig M MSgt USAF (USA); Duarte, Israel A MSgt USAF (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A CMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); [REDACTED]; Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaría T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN
Subject: RE: INFO: 04 Jan 22 0800L - 2000L JBPHH DWDSRP Flush Report
Attachments: SKM_C36822010420490.pdf
Signed By: [REDACTED]

Attached is the flush report for Tuesday, 04 Jan 22, 0800L – 2000L. Also below is a summary on distribution flushing below.

Current Location Summary:

Zone / FH# / GAC # / Flushing Status

C1 / 535 / 6 / Flushing started (First time 1910)
 C2 / 123 / 11 / Flushing started (First time 1647)
 D3 / 143 / 18 / Flushing started 1801
 D3 / 382 / NO GAC / Flushing started (First time 2134)
 D3 / 476 / 16 / Flushing started 1753
 D3 / 803 / NO GAC / Flushing started (First time 2108)
 D3 / 805 / NO GAC / Flushing started (First time 2054)
 D3 / 812 / NO GAC / Flushing started (First time 2032)
 D3 / 8103 / NO GAC / Flushing started (First time 2029)
 G1 / 26 / 4 / Flushing resumed 2020
 F2 / 13 / 19 / Flushing started 1613
 F2 / 48 / 5 / Flushing started (First time 1513)
 F2 / 50 / 20 / Flushing started 1920
 C1 / 503 / 8 / Offline (projected to start in current shift)
 C1 / 512 / NO GAC / Offline (projected to start in current shift)
 C1 / 542 / 7 / Offline (projected to start in current shift)

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Wiley, Scottie R Maj USAF 647 ABG (USA) <[REDACTED]>
Sent: Wednesday, January 5, 2022 2:28 PM
To: Kelly, Austin A 1st Lt USAF 647 ABG (USA); Joseph, Craig M MSgt USAF (USA); Duarte, Israel A MSgt USAF (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A CMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaría T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED] Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Cc: EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN; Szczepanik, Brittany A 2d LT USAF (USA)
Cc: 647 CES/UCC
Subject: INFO: 20220105 2000L - 0800L JBPHH DWDSRP Flush Report
Attachments: 20220105 2000L - 0800L JBPHH DWDSRP Flush Report.pdf

Ladies & Gentlemen,

Attached is the flush report for Monday/Tuesday, 04/05 Jan 22, 2000L – 0800L. Also below is a summary on distribution flushing below.

Current Location Summary:

Zone / FH# / GAC # / Flushing Status

C1 / 535 / 6 / No change
 C2 / 123 / 11 / No change
 D3 / 143 / 18 / No change
 D3 / 382 / NO GAC / No change
 D3 / 476 / 16 / No change
 D3 / 803 / NO GAC / No change
 D3 / 805 / NO GAC / No change
 D3 / 812 / NO GAC / No change
 D3 / 8103 / NO GAC / No change
 G1 / 26 / 4 / No change
 F2 / 13 / 19 / No change
 F2 / 48 / 5 / No change
 F2 / 50 / 20 / No change
 C1 / 503 / 8 / Flushing began
 C1 / 512 / NO GAC / Flushing began
 C1 / 542 / 7 / Flushing began

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: SZCZEPANIK, BRITTANY A 2d Lt USAF AETC 71 STUS/STU <[REDACTED]>
Sent: Wednesday, January 5, 2022 10:13 PM
To: Wiley, Scottie R Maj USAF 647 ABG (USA); Kelly, Austin A 1st Lt USAF 647 ABG (USA); [REDACTED]; Duarte, Israel A MSgt USAF (USA); [REDACTED]; Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); [REDACTED]; Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); [REDACTED]; Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaría T PO2 USN (USA); [REDACTED]; Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN 647 CES/UCC
Cc:
Subject: INFO: 20220105 0800L - 2000L JBPHH DWDSRP Flush Report
Attachments: 20220105 0800L - 2000L JBPHH DWDSRP Flush Report.pdf
Signed By: [REDACTED]

Ladies & Gentlemen,

Attached is the flush report for Wednesday, 05 Jan 22, 0800L – 2000L. Below is a summary of current distribution flushing.

Current Location Summary:

Zone	Hydrant / GAC	Latest Status	
F2	FH 5 / 20	Flushing Started	on at 16:53 UT Watch
C2	FH 318 / 25	Flushing Started	on at 13:47 UT LOG
C2	FH 300 / 23	Flushing Started	on at 13:47 UT LOG
C2	FH 315 / 10	Flushing Started	on at 13:46 UT Watch
F2	FH 19 / 12	Flushing Started (First Time)	on at 10:35 Flush LOG
F2	FH 33	Flushing Started (First Time)	on at 14:42 UT LOG
F2	FH 14 / 17	Flushing Started	on at 09:53 Flush LOG
F2	FH 7	Flushing Resumed	on at 13:34 closed at 17:15 on at 19:21 UT LOG
F2	FH 25	Flushing Resumed	on at 14:25 closed at 17:22 on at 19:38 UT LOG
D4	FH 168 / 14	Flushing Started	on at 12:00 Flush LOG
D4	FH 457	Flushing Started (First Time)	on at 16:52 UT LOG
E1	FH 924	Flushing Resumed	on at 18:40 UT LOG

G1	FH 26 / 4	Flushing Started	closed at 08:20	Flush LOG
D3	FH 476	Flushing stopped 1017	UT LOG	

Very Respectfully,

BRITTANY A. SZCZEPANIK, 2d Lt, USAF
 Project Programmer/ ICAP Engineer
 NAVFAC HI, FMD JBPHH
 647 CES/CEN
 DSN: [REDACTED]

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Duarte, Israel A MSgt USAF (USA)
Sent: Friday, December 31, 2021 9:31 PM
To: Wiley, Scottie R Capt USAF 647 ABG (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A SMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); Kelly, Austin A 1st Lt USAF 647 ABG (USA); [REDACTED]; Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaria T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA)
Cc: EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN
Subject: INFO: 20211231 0800L - 2000L JBPHH DWDSRP Flush Report
Attachments: 20211231 0800L - 2000L JBPHH DWDSRP Flush Report.pdf
Signed By: [REDACTED]

Ladies & Gentlemen,

Please see the attached flush report for Friday, 31 Dec 21, 0800L – 2000L. A summary update on distribution flushing is listed below for this period.

Current Location Summary:

A2 FH ID 1-3 – Flushing Paused 1035L
 A2 FH ID 1-14 – Flushing Paused 0950L
 A2 FH ID 5-16 – Flushing Paused 1027L
 D2 FH ID 003 – Flushing Paused 0914L
 D2 FH ID 006 (No GAC) – Flushing Complete 1130L
 D2 FH ID 276 – Flushing Paused 0817L
 D2 FH ID 325 – Flushing Paused 0839L
 D2 FH ID 363 – Flushing Paused 0904L
 F1 FH ID FH-8 (No GAC) – Flushing Paused 1937L
 F1 FH ID 11A – Flushing Paused 1930L
 F1 FH ID 18 – Flushing Paused 1938L
 F1 FH ID 21 – Flushing Paused 1925L
 F1 FH ID 36A – Flushing Paused 1953L
 F1 FH ID 606 – Flushing Paused 1945L
 D3 FH ID 801 – Flushing Started 1215L
 D3 FH ID 805 – Flushing Started 1230L, Flushing Paused 1913L
 D3 FH ID 245 – Flushing Started 1359L
 D3 FH ID 228 – Flushing Started 1456L, Flushing Paused 1659L
 D3 FH ID 477 – Flushing Started 1226L

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Joseph, Craig M TSgt USAF (USA) <[REDACTED]>
Sent: Saturday, January 1, 2022 9:56 AM
To: Duarte, Israel A MSgt USAF (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A SMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); Kelly, Austin A 1st Lt USAF 647 ABG (USA); [REDACTED]; Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamarita T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Cc: EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN; Wiley, Scottie R Capt USAF 647 ABG (USA)
Subject: INFO: 01 Jan 22 2000L - 0800L JBPHH DWDSRP Flush Report
Attachments: 20210101 2000L - 0800L JBPHH DWDSRP Flush Report.pdf
Signed By: [REDACTED]

ALCON,

Attached is the flush report for Friday-Saturday, 31 Dec 21 – 01 Jan 22, 2000L – 0800L. Also below is a summary on distribution flushing below.



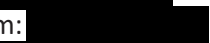

Current Location Summary:

F1 FH 228 / 11 – Flushing Paused (0108 L)
 D3 FH 245 / 17– Flushing Paused (0300 L)
 D3 FH 805 (FH 804) – Flushing Paused (0315 L)
 D3 SA FH 801 (FH 803) – Flushing Paused (0320 L)
 F1 FH 18 / 7– Flushing Paused (0331 L)
 F1 FH 8– Flushing Paused (0336 L)
 F1 FH 11A/ 5– Flushing Paused (0343 L)
 F1 FH 21 / 3– Flushing Paused (0354 L)
 F1 FH 36A / 2– Flushing Paused (0400 L)
 F1 FH 606 / 6– Flushing Paused (0408 L)
 D3 FH 477– Flushing Paused (0431 L)
 D3 FH 801 (FH 803) – Flushing Resumed (0540 L)
 D3 FH 805 (FH 804) – Flushing Resumed (0545 L)

Paused 19:13 up at 22:40 paused at 0315 (up at 0545) down at 09:06 per UT LOG

F1 FH 11A / 5– Flushing Resumed (0556 L)
F1 FH 21 / 3– Flushing Resumed (0603 L)
F1 FH 36A / 2– Flushing Resumed (0615 L)
F1 FH 8– Flushing Resumed (0632 L)
F1 FH 18 / 7– Flushing Resumed (0638 L)
D3 FH 477 / 12– Flushing Resumed (0655 L)
D3 FH 245 / 17– Flushing Resumed (0706 L)
D3 FH 228 / 11– Flushing Resumed (0715 L)

v/r

CRAIG M. JOSEPH, TSgt, USAF 
NCOIC Pavements & Equipment
647th Civil Engineer Squadron
Joint Base Pearl Harbor-Hickam, HI 96853-5111
DSN: 
Comm: 
Cell: 

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA) [REDACTED]

Sent: Tuesday, January 4, 2022 9:53 PM

To: Kelly, Austin A 1st Lt USAF 647 ABG (USA); Joseph, Craig M MSgt USAF (USA); Duarte, Israel A MSgt USAF (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A CMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); [REDACTED] Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaría T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN

Subject: RE: INFO: 04 Jan 22 0800L - 2000L JBPHH DWDSRP Flush Report

Attachments: SKM_C36822010420490.pdf

Signed By: [REDACTED]

Attached is the flush report for Tuesday, 04 Jan 22, 0800L – 2000L. Also below is a summary on distribution flushing below.

Current Location Summary:

Zone / FH# / GAC # / Flushing Status

C1 / 535 / 6 / Flushing started (First time 1910)
 C2 / 123 / 11 / Flushing started (First time 1647)
 D3 / 143 / 18 / Flushing started 1801
 D3 / 382 / NO GAC / Flushing started (First time 2134)
 D3 / 476 / 16 / Flushing started 1753
 D3 / 803 / NO GAC / Flushing started (First time 2108)
 D3 / 805 / NO GAC / Flushing started (First time 2054)
 D3 / 812 / NO GAC / Flushing started (First time 2032)
 D3 / 8103 / NO GAC / Flushing started (First time 2029)
 G1 / 26 / 4 / Flushing resumed 2020
 F2 / 13 / 19 / Flushing started 1613
 F2 / 48 / 5 / Flushing started (First time 1513)
 F2 / 50 / 20 / Flushing started 1920
 C1 / 503 / 8 / Offline (projected to start in current shift)
 C1 / 512 / NO GAC / Offline (projected to start in current shift)
 C1 / 542 / 7 / Offline (projected to start in current shift)

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Wiley, Scottie R Maj USAF 647 ABG (USA) <[REDACTED]>
Sent: Wednesday, January 5, 2022 2:28 PM
To: Kelly, Austin A 1st Lt USAF 647 ABG (USA); Joseph, Craig M MSgt USAF (USA); Duarte, Israel A MSgt USAF (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A CMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED] Gruber, Marjorie J LCDR USN CBMU 303 (USA); [REDACTED] Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaría T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Cc: EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN; Szczepanik, Brittany A 2d LT USAF (USA)
Cc: 647 CES/UCC
Subject: INFO: 20220105 2000L - 0800L JBPHH DWDSRP Flush Report
Attachments: 20220105 2000L - 0800L JBPHH DWDSRP Flush Report.pdf

Ladies & Gentlemen,

Attached is the flush report for Monday/Tuesday, 04/05 Jan 22, 2000L – 0800L. Also below is a summary on distribution flushing below.

Current Location Summary:

Zone / FH# / GAC # / Flushing Status

C1 / 535 / 6 / No change
 C2 / 123 / 11 / No change
 D3 / 143 / 18 / No change
 D3 / 382 / NO GAC / No change
 D3 / 476 / 16 / No change
 D3 / 803 / NO GAC / No change
 D3 / 805 / NO GAC / No change
 D3 / 812 / NO GAC / No change
 D3 / 8103 / NO GAC / No change
 G1 / 26 / 4 / No change
 F2 / 13 / 19 / No change
 F2 / 48 / 5 / No change
 F2 / 50 / 20 / No change
 C1 / 503 / 8 / Flushing began
 C1 / 512 / NO GAC / Flushing began
 C1 / 542 / 7 / Flushing began

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: SZCZEPANIK, BRITTANY A 2d Lt USAF AETC 71 STUS/STU <[REDACTED]>
Sent: Wednesday, January 5, 2022 10:13 PM
To: Wiley, Scottie R Maj USAF 647 ABG (USA); Kelly, Austin A 1st Lt USAF 647 ABG (USA); [REDACTED]; Duarte, Israel A MSgt USAF (USA); [REDACTED]; Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); [REDACTED]; Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); [REDACTED]; Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaría T PO2 USN (USA); [REDACTED]; Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN 647 CES/UCC
Cc:
Subject: INFO: 20220105 0800L - 2000L JBPHH DWDSRP Flush Report
Attachments: 20220105 0800L - 2000L JBPHH DWDSRP Flush Report.pdf
Signed By: [REDACTED]

Ladies & Gentlemen,

Attached is the flush report for Wednesday, 05 Jan 22, 0800L – 2000L. Below is a summary of current distribution flushing.

Current Location Summary:

Zone	Hydrant / GAC	Latest Status	
F2	FH 5 / 20	Flushing Started	on at 16:53 UT Watch
C2	FH 318 / 25	Flushing Started	on at 13:47 UT LOG
C2	FH 300 / 23	Flushing Started	on at 13:47 UT LOG
C2	FH 315 / 10	Flushing Started	on at 13:46 UT Watch
F2	FH 19 / 12	Flushing Started (First Time)	on at 10:35 Flush LOG
F2	FH 33	Flushing Started (First Time)	on at 14:42 UT LOG
F2	FH 14 / 17	Flushing Started	on at 09:53 Flush LOG
F2	FH 7	Flushing Resumed	on at 13:34 closed at 17:15 on at 19:21 UT LOG
F2	FH 25	Flushing Resumed	on at 14:25 closed at 17:22 on at 19:38 UT LOG
D4	FH 168 / 14	Flushing Started	on at 12:00 Flush LOG
D4	FH 457	Flushing Started (First Time)	on at 16:52 UT LOG
E1	FH 924	Flushing Resumed	on at 18:40 UT LOG

G1	FH 26 / 4	Flushing Started	closed at 08:20	Flush LOG
D3	FH 805	Flushing stopped 11:56	UT LOG	

Very Respectfully,

BRITTANY A. SZCZEPANIK, 2d Lt, USAF
 Project Programmer/ ICAP Engineer
 NAVFAC HI, FMD JBPHH
 647 CES/CEN
 DSN: [REDACTED]

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA) [REDACTED]

Sent: Tuesday, January 4, 2022 9:53 PM

To: Kelly, Austin A 1st Lt USAF 647 ABG (USA); Joseph, Craig M MSgt USAF (USA); Duarte, Israel A MSgt USAF (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A CMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); [REDACTED]; Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED] Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaría T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN

Subject: RE: INFO: 04 Jan 22 0800L - 2000L JBPHH DWDSRP Flush Report

Attachments: SKM_C36822010420490.pdf

Signed By: [REDACTED]

Attached is the flush report for Tuesday, 04 Jan 22, 0800L – 2000L. Also below is a summary on distribution flushing below.

Current Location Summary:

Zone / FH# / GAC # / Flushing Status

C1 / 535 / 6 / Flushing started (First time 1910)
 C2 / 123 / 11 / Flushing started (First time 1647)
 D3 / 143 / 18 / Flushing started 1801
 D3 / 382 / NO GAC / Flushing started (First time 2134)
 D3 / 476 / 16 / Flushing started 1753
 D3 / 803 / NO GAC / Flushing started (First time 2108)
 D3 / 805 / NO GAC / Flushing started (First time 2054)
 D3 / 812 / NO GAC / Flushing started (First time 2032)
 D3 / 8103 / NO GAC / Flushing started (First time 2029)
 G1 / 26 / 4 / Flushing resumed 2020
 F2 / 13 / 19 / Flushing started 1613
 F2 / 48 / 5 / Flushing started (First time 1513)
 F2 / 50 / 20 / Flushing started 1920
 C1 / 503 / 8 / Offline (projected to start in current shift)
 C1 / 512 / NO GAC / Offline (projected to start in current shift)
 C1 / 542 / 7 / Offline (projected to start in current shift)

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Wiley, Scottie R Maj USAF 647 ABG (USA) <[REDACTED]>
Sent: Wednesday, January 5, 2022 2:28 PM
To: Kelly, Austin A 1st Lt USAF 647 ABG (USA); Joseph, Craig M MSgt USAF (USA); Duarte, Israel A MSgt USAF (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A CMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaría T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Cc: EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN; Szczepanik, Brittany A 2d LT USAF (USA)
Cc: 647 CES/UCC
Subject: INFO: 20220105 2000L - 0800L JBPHH DWDSRP Flush Report
Attachments: 20220105 2000L - 0800L JBPHH DWDSRP Flush Report.pdf

Ladies & Gentlemen,

Attached is the flush report for Monday/Tuesday, 04/05 Jan 22, 2000L – 0800L. Also below is a summary on distribution flushing below.

Current Location Summary:

Zone / FH# / GAC # / Flushing Status

C1 / 535 / 6 / No change
 C2 / 123 / 11 / No change
 D3 / 143 / 18 / No change
 D3 / 382 / NO GAC / No change
 D3 / 476 / 16 / No change
 D3 / 803 / NO GAC / No change
 D3 / 805 / NO GAC / No change
 D3 / 812 / NO GAC / No change off at 01:35 per flush log
 D3 / 8103 / NO GAC / No change
 G1 / 26 / 4 / No change
 F2 / 13 / 19 / No change
 F2 / 48 / 5 / No change
 F2 / 50 / 20 / No change
 C1 / 503 / 8 / Flushing began
 C1 / 512 / NO GAC / Flushing began
 C1 / 542 / 7 / Flushing began

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA) <[REDACTED]>
Sent: Tuesday, January 4, 2022 9:53 PM
To: Kelly, Austin A 1st Lt USAF 647 ABG (USA); Joseph, Craig M MSgt USAF (USA); Duarte, Israel A MSgt USAF (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A CMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); [REDACTED]; Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaría T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN
Subject: RE: INFO: 04 Jan 22 0800L - 2000L JBPHH DWDSRP Flush Report
Attachments: SKM_C36822010420490.pdf
Signed By: [REDACTED]

Attached is the flush report for Tuesday, 04 Jan 22, 0800L – 2000L. Also below is a summary on distribution flushing below.

Current Location Summary:

Zone / FH# / GAC # / Flushing Status

C1 / 535 / 6 / Flushing started (First time 1910)
 C2 / 123 / 11 / Flushing started (First time 1647)
 D3 / 143 / 18 / Flushing started 1801
 D3 / 382 / NO GAC / Flushing started (First time 2134)
 D3 / 476 / 16 / Flushing started 1753
 D3 / 803 / NO GAC / Flushing started (First time 2108)
 D3 / 805 / NO GAC / Flushing started (First time 2054)
 D3 / 812 / NO GAC / Flushing started (First time 2032)
 D3 / 8103 / NO GAC / Flushing started (First time 2029)
 G1 / 26 / 4 / Flushing resumed 2020
 F2 / 13 / 19 / Flushing started 1613
 F2 / 48 / 5 / Flushing started (First time 1513)
 F2 / 50 / 20 / Flushing started 1920
 C1 / 503 / 8 / Offline (projected to start in current shift)
 C1 / 512 / NO GAC / Offline (projected to start in current shift)
 C1 / 542 / 7 / Offline (projected to start in current shift)

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: Wiley, Scottie R Maj USAF 647 ABG (USA) <[REDACTED]>
Sent: Wednesday, January 5, 2022 2:28 PM
To: Kelly, Austin A 1st Lt USAF 647 ABG (USA); Joseph, Craig M MSgt USAF (USA); Duarte, Israel A MSgt USAF (USA); AhLeong, Peter A MSgt USAF 647 ABG (USA); Collins, Jason A CMSgt USAF USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); [REDACTED] Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); Williams, Malcolm J Capt USAF 647 ABG (USA); Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); Natsuhara, Brent T LT USN NAVFAC MARIANAS GU (USA); Cope, Jimmy Lee CPO USN COMEXSTRKGRU TWO (USA); Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED] Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaría T PO2 USN (USA); Credle, Gregory E III PO2 USN (USA); Lett, Julius J SMSgt USAF (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Cc: EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN; Szczepanik, Brittany A 2d LT USAF (USA)
Cc: 647 CES/UCC
Subject: INFO: 20220105 2000L - 0800L JBPHH DWDSRP Flush Report
Attachments: 20220105 2000L - 0800L JBPHH DWDSRP Flush Report.pdf

Ladies & Gentlemen,

Attached is the flush report for Monday/Tuesday, 04/05 Jan 22, 2000L – 0800L. Also below is a summary on distribution flushing below.

Current Location Summary:

Zone / FH# / GAC # / Flushing Status

C1 / 535 / 6 / No change
 C2 / 123 / 11 / No change
 D3 / 143 / 18 / No change
 D3 / 382 / NO GAC / No change
 D3 / 476 / 16 / No change
 D3 / 803 / NO GAC / No change
 D3 / 805 / NO GAC / No change
 D3 / 812 / NO GAC / No change
 D3 / 8103 / NO GAC / No change
 G1 / 26 / 4 / No change
 F2 / 13 / 19 / No change
 F2 / 48 / 5 / No change
 F2 / 50 / 20 / No change
 C1 / 503 / 8 / Flushing began
 C1 / 512 / NO GAC / Flushing began
 C1 / 542 / 7 / Flushing began

Cruz, Nicholas D LT USN NAVFAC SE JAX FL (USA)

From: SZCZEPANIK, BRITTANY A 2d Lt USAF AETC 71 STUS/STU <[REDACTED]>
Sent: Wednesday, January 5, 2022 10:13 PM
To: Wiley, Scottie R Maj USAF 647 ABG (USA); Kelly, Austin A 1st Lt USAF 647 ABG (USA); [REDACTED]; Duarte, Israel A MSgt USAF (USA); [REDACTED]; Williams, Malcolm J Capt USAF 647 ABG (USA); [REDACTED]; Gruber, Marjorie J LCDR USN CBMU 303 (USA); [REDACTED]; Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); Huang, Andy D CIV USN NAVFAC HAWAII PEARL (USA); Spencer, Matthew A CIV USN COMNAVREG SW SAN CA (USA); Poche, Brennan W LT USN NAVFAC HAWAII PEARL (USA); [REDACTED]; Donovan, Luke T Lt Col USAF 49 MSG (USA); Beattie, Aaron J MAJ USARMY USARPAC (USA); 647 CES/UCC; Howard, Spencer L LT USN CBMU 303 (USA); [REDACTED] Baranowski, Phillip J CPO USN NAVFAC SE JAX FL (USA); [REDACTED]; Hawkins, Brian A PO1 USN NAS KEY WEST FL (USA); Barr, Justin A PO2 USN (USA); Harris, Jamel W PO2 USN (USA); Johnson, Jamaría T PO2 USN (USA); [REDACTED]; Lett, Julius J SMSgt USAF (USA); [REDACTED] Asistio, Maria Angela Grace L 2d LT USAF USN NAVFAC HAWAII PEARL (USA); EDWARDS, PHYLYSHA C SSgt USAF PACAF 647 CES/CEOER; Pendleton, Cole R SrA USAF 647 ABG (USA); Mchenry, Kevin G MSgt USAF 647 ABG (USA); Corum, Michael L II MSgt USAF 647 ABG (USA); CORUM, MICHAEL L II MSgt USAF PACAF 647 CES/CEN 647 CES/UCC
Cc:
Subject: INFO: 20220105 0800L - 2000L JBPHH DWDSRP Flush Report
Attachments: 20220105 0800L - 2000L JBPHH DWDSRP Flush Report.pdf
Signed By: [REDACTED]

Ladies & Gentlemen,

Attached is the flush report for Wednesday, 05 Jan 22, 0800L – 2000L. Below is a summary of current distribution flushing.

Current Location Summary:

Zone	Hydrant / GAC	Latest Status	
F2	FH 5 / 20	Flushing Started	on at 16:53 UT Watch
C2	FH 318 / 25	Flushing Started	on at 13:47 UT LOG
C2	FH 300 / 23	Flushing Started	on at 13:47 UT LOG
C2	FH 315 / 10	Flushing Started	on at 13:46 UT Watch
F2	FH 19 / 12	Flushing Started (First Time)	on at 10:35 Flush LOG
F2	FH 33	Flushing Started (First Time)	on at 14:42 UT LOG
F2	FH 14 / 17	Flushing Started	on at 09:53 Flush LOG
F2	FH 7	Flushing Resumed	on at 13:34 closed at 17:15 on at 19:21 UT LOG
F2	FH 25	Flushing Resumed	on at 14:25 closed at 17:22 on at 19:38 UT LOG
D4	FH 168 / 14	Flushing Started	on at 12:00 Flush LOG
D4	FH 457	Flushing Started (First Time)	on at 16:52 UT LOG
E1	FH 924	Flushing Resumed	on at 18:40 UT LOG

G1	FH 26 / 4	Flushing Started	closed at 08:20	Flush LOG
D3	FH 8103	Flushing stopped 11:42	UT LOG	

Very Respectfully,

BRITTANY A. SZCZEPANIK, 2d Lt, USAF
 Project Programmer/ ICAP Engineer
 NAVFAC HI, FMD JBPHH
 647 CES/CEN
 DSN: [REDACTED]

February 26, 2022

From: Naval Facilities Engineering Systems Command Representative, IDWS Team
To: Interagency Drinking Water System Team

SUBJ: WATER STORAGE FACILITIES AND WATER SOURCE FOR ZONES A1, A2, A3, B1, C1, C2, C3, D1, D2, D3, D4, G1, E1, F1, F2, H1, H2, H3, AND I1

Ref: (a) Drinking Water Sampling Plan, December 2021
(b) Drinking Water Distribution System Recovery Plan, December 2021

Encl: (1) Joint Base Pearl Harbor Hickam Potable Water System Description
(2) S1 and S2 Water Storage Tank Flushing Report Memo
(3) Inspection, Maintenance, and Cleaning of Potable Water Tanks Memo
(4) Ford Island/Shipyard Water Transmission Line Status
(5) JBPHH/Iroquois Point Water Transmission Line Status
(6) Board of Water Supply Interconnection Status

1. This letter and associated enclosures describes and documents the flushing of the water storage facilities that serve the Joint Base Pearl Harbor Hickam (JBPHH) public water system (PWS No. 360). The flushing of the JBPHH water storage facilities and distribution system was completed in accordance with reference (a) and (b). Enclosure (1) describes the JBPHH public water system and storage tanks associated with the system. Page 8 of reference (a) has the flushing zones and water storage facilities located in each zone. The flushing of each zone identified in phase 1 of reference (a) included five volumetric turnovers. The volumetric turnover requirement included the water tank storage and distribution system volume for each zone. The water testing of the distribution system after flushing a zone's water storage tank and distribution system was the confirmation that contamination was removed from the system and that the water tanks was not a source of contamination. Enclosure (2) documents the Hawaii Department of Health's approved change from reference (a) for the flushing of Halawa S-1 and Halawa S-2.

2. Zones A1, A2, A3, B1, C1, C2, C3, D1, D2, D3, D4, G1, E1, F1, F2, H1, H2, H3 and I1 are currently fed by the Waiawa Shaft water supply source. The pumps from the shafts generally run continuous and range from 6,000 to 14,000 gallons per minute based on the demand of the JBPHH potable water system. The pressure throughout the JBPHH distribution system is aided by the two Halawa water storage tanks. The Halawa S-1 tank is currently in service and the Halawa S-2 tank has been taken offline for maintenance as documented in enclosure (2). Enclosure (3) documents the planned timeline associated with the inspection, maintenance and cleaning of the Navy owned water storage tanks. The planned work is scheduled to be completed before the end of this calendar year. The inspection of the water storage tanks will be conducted in accordance with American Water Works Association (AWWA) Standard for Inspecting and Repairing Steel Water Tanks, Standpipes, Reservoirs, and Elevated Tanks by personnel with the requisite qualifications outlined in this AWWA standard. Zone I1 (Red Hill) is served by Navy owned water storage tanks. The Army operates the consecutive Aliamanu public water system (PWS No. 337) which receives its water from the JBPHH public water

SUBJ: WATER STORAGE FACILITIES AND WATER SOURCE FOR ZONES A1, A2, A3, B1, C1, C2, C3, D1, D2, D3, D4, G1, E1, F1, F2, H1, H2, H3, AND I1

system. The Army's public water system serves the Aliamanu Military Reservation (AMR). The AMR area was subdivided into three flushing zones which included Zones H1, H2, and H3. The planned timeline associated with the inspection, maintenance, and cleaning of the Army owned water storage tanks will be submitted as part of the removal action reports for Zones H1, H2, H3.

3. At this time, there are two water transmission lines that are not in operation. The water transmission line between Ford Island and the Shipyard was offline at the time of the incident as described in Enclosure (3) and is currently going through repairs. The valves at each end of the underwater water transmission line between JBPHH and Iroquois Point were closed on December 5, 2021 and the valves have remained closed since that date as documented in Enclosure (4). Enclosure (5) documents the method for reopening the underwater water transmission line between JBPHH and Iroquois Point to prevent potential contamination and adverse water quality issues. The Navy will notify the Hawaii Department of Health prior to reopening the underwater water transmission line the between JBPHH and Iroquois Point. Additional interconnections with Board of Water Supply (BWS) are described in Enclosure (6). Water being distributed in the system and being stored in water storage tanks that maintain pressure in Zones A1, A2, A3, B1, C1, C2, C3, D1, D2, D3, D4, G1, E1, F1, and F2 have been flushed in accordance with reference (b) and the distribution system tested in accordance with reference (a). The removal action reports for Zones H1, H2, H3, and I1 document the flushing of the water storage tanks that specifically serve those zones.

4. I certify under penalty of law that I have personally examined and I am familiar with the information submitted and the submitted information is true, accurate, and complete.

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Joint Base Pearl Harbor Hickam (JBPHH) Potable Water Description

Major components of the JBPHH potable water system include:

- Supply sources
 - Waiawa Shaft/Pumping Station
 - Red Hill Shaft/Pumping Station
 - Halawa Shaft/Pumping Station
 - Emergency Interconnections (2 locations)
- Water storage facilities
- 2-6,000,000 gallon steel storage tanks at Halawa
 - 2-200,000 gallon concrete storage tanks at Camp Smith
 - 1-250,000 gallon glass-fused steel storage tank at Camp Smith with a usable storage capacity of 140,000 gallons
 - 2-250,000 gallon glass-fused steel storage tank at Red Hill
- Distribution system
 - Camp Smith Booster Pump (to convey water to the Camp Smith water system)
 - Red Hill Booster Pumps (to convey water to the storage tank)
 - Moanalua Terrace Booster Pumps (to pressurize the water system serving the Moanalua Terrace Housing area)
 - Boneyard Booster Pumps (to pressurize the water system serving the upper elevation of Moanalua Terrace Housing area)
 - Manana Booster Pumps (to pressurize the water system serving the Manana Housing area)
 - A network of pipes, meters, valves, and hydrants for distribution and fire protection

Water Storage Facilities:

Fresh water storage facilities store water for normal, fire, and maximum demand use, and serve to maintain relatively constant pressure in the water system. The JBPHH water system is equipped with two welded steel tanks, each with a storage capacity of six million gallons. These tanks are identified as the Halawa storage tanks S-1 and S-2. Both of these tanks are located adjacent to the Aliamanu Military Reservation at a ground elevation of 140 feet. The diameter of the tanks are 164 feet each, with a nominal height of 48 feet. The spillway elevations of the S-1 and S-2 tanks are 178.5 feet. The tanks are interconnected by a 10-inch line. Water from each of the tanks discharges through separate 24-inch mains and combines to a single 30-inch transmission main.

Other water storage tanks in the JBPHH system include the three tanks at Camp Smith, a storage tank serving the Red Hill Housing area, and three storage tanks serving the Army's Aliamanu Housing area. The Red Hill and Aliamanu tanks are supplied by separate booster pump stations located at the Red Hill Water Pumping Station and the Halawa Storage Tanks, respectively. These tanks are dedicated to serving these two non-Navy housing areas.

February 11, 2022

From: Naval Facilities Engineering Systems Command Representative, IDWS Team
To: Interagency Drinking Water System Team

SUBJ: S1 AND S2 WATER STORAGE TANK FLUSHING REPORT

Ref: (a) Drinking Water Distribution System Recovery Plan, December 2021

1. This letter documents the current status of the S1 and S2 water storage tanks. In accordance with reference (a), the S1 and S2 water storage tanks were part of the Zone F1 flushing plan. The flushing plan for Zone F1 included both water storage tanks in the five volumetric turnover calculations. The calculated turnover volume was 61.35 million gallons of water. The S1 tank was flushed by cycling the water tank for five volumetric flushes. In order to conserve the amount of water being used in the flushing of Zone F1, the S2 water storage tank was taken out of service and remains out of service to date. This decision resulted in the conservation of approximately 25 million gallons of water. The Hawaii Department of Health (HDOH) was notified of the Navy's modified flushing plan and provided concurrence. The S2 water storage tank is being scheduled for cleaning and maintenance. The Navy will provide details to HDOH on the method and procedures for cleaning and maintenance of the S2 water storage tank prior to the start of work. The Navy will notify the HDOH upon completion of the work and the tank being placed back into service.

2. I certify under penalty of law that I have personally examined and I am familiar with the information submitted and the submitted information is true, accurate, and complete.

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M. W. Meno
Captain, U.S. Navy Civil Engineer Corps

ENCL(2)

25 February 2022

MEMORANDUM FOR RECORD

SUBJECT: Inspection, Maintenance, and Cleaning of Potable Water Tanks

1. This Memorandum for Record (MFR) is to document the summary processes for inspection, maintaining, and cleaning storage tanks within the Joint Base Pearl Harbor-Hickam potable water system. There are seven potable water storage tanks. Each tank holds water that is consistently in flux – rising and falling according to the dynamic demands for water under certain pressures at specific times. As such, the tanks are continually cycling fresh water recently pumped from the well and chlorinated at the treatment plant. JBPH-H does not drain and clean the tanks per a schedule, however the following records indicate recent cleaning. Tank cleaning follows AWWA M42 - Steel Water Storage Tanks.
 - a. S1 tank inspected and cleaned in 2010, cleaned by in-house EV remediation shop, mainly to remove sediment from the tank floor.
 - b. S2 tank inspected and cleaned 2007, cleaned by in-house remediation shop, mainly to remove sediment from the tank floor.
 - c. Red Hill tank No. 685 was inspected in 2013, via remote camera vehicle
 - d. Red Hill tank No. 316 was installed in 2017 and has not yet been inspected
 - e. Camp Smith tanks (3) were inspected and cleaned in 2013.
2. As the seven tanks have not been inspected a group for several years, the Public Works Department shall funds and contract a complete inspection and cleaning for all tanks in accordance with AWWA standards by then end CY 2022.
3. Tanks are monitored and operated using a Supervisory Control and Data Acquisition (SCADA) system to ensure that they are at the right levels and pumps and valves are operating at prescribed times and speeds, overseen by Utilities staff 24/7. Our field team is regularly physically engaged with these tanks to ensure functionality, condition, and security of the tanks. There are frequent field actions near and connected to the tanks – they are routinely inspected per the requirements to manage the system.
4. As the tank hardware ages and requires repair and replacement, a tank may be isolated, drained and taken out of service to conduct this work. At these times, when work involved the interior of the tank, a full cleaning and refilling is conducted. This is typically done with a contract.
5. The S2 tank, a 6 MG tank that, with the S1 tank, provides the ability to keep pressurized water in the system for firefighting while serving the domestic demand, has been secured from the rest of the system since December 22, 2021. The water in the tank has been sampled and the results have shown a non-detect for TPH. Public work will make repairs and clean this tank within the next 90 days. The process to flush, clean and return the tank to the system is as follows:
 - a. Repair S1/S2 overflow 24" drain line with Cured-in-Place Pipe
 - b. Drain S2 tank via existing drain line, leading to the city storm drainage system
 - c. Clean and Disinfect S2 tank (Following ANSI/AWWA C652-02: Disinfection of Water-Storage Facilities)
 - d. Perform bacteriological and TPH sampling and testing
 - e. Return S2 tank to service

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CAPT R. Harmeyer
Public Works Officer
Joint Base Pearl Harbor Hickam

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22 February 2022

MEMORANDUM FOR RECORD

SUBJECT: Ford Island/Shipyard Water Transmission Line Status

1. This Memorandum for Record (MFR) is to document the status of the underwater crossing water transmission line (pipe) that connects the Ford Island and Shipyard areas of the Joint Base Pearl Harbor-Hickam Potable Water System.
2. As part of the P-209 Dry Dock 3 Replacement design effort, a contractor was performing soil borings at Hospital Point near the Shipyard. The contractor damaged the 24-inch underwater crossing during one of their borings on 15 June 21, by drilling through the casing and pipe.
3. JBPHH has begun plans for repairing or replacing this damaged line. A Design consultant is scheduled to start the design on the repairs in March of 2022. Construction funds for the repair are allocated for Fiscal Year 2023.
4. The water transmission line was secured from the JBPHH system via an isolation valve on the Ford Island side, and physical pipe removal on the Shipyard side. Enclosure [1] is a picture taken on 22 January 2022 of the physical pipe removal at Hospital Point.
5. The Ford Island isolation valve is less than 5 years old, and PWD personnel have verified in the field that there are no indications of leak-by, via audible tests and noting the lack of vibrations.
6. a pitot-style flow meter that has been sending false readings is located in the currently isolated section is, as there is no water flow in this not-in-service piping. Isolation was performed with in-house NAVFAC forces on 5 Dec 2021. PWD has not explored the root cause of the false reading, as the piping is isolated, and the meter is not used for any other purposes. Possible cause of the flow readings may be air trapped in the lines that shows pressure differentials as tide changes.

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CAPT R. Harmeyer
Public Works Officer
Joint Base Pearl Harbor Hickam



25 February 2022

MEMORANDUM FOR RECORD

SUBJECT: Joint Base Pearl Harbor-Hickam – Iroquois Point Water Connection

ENCL.: (1) Interconnection line drainage schematic

1. This Memorandum for Record (MFR) is to document the process to reopen and flush the 24" potable water system interconnection line between Iroquois Point and Bishop Point on Joint Base Pearl Harbor-Hickam.
2. Like most looped systems, the water in this interconnection flows in both directions depending on demand. On work days, when residents are typically not on Iroquois Point and the Joint Base is operating, water typically flows from west to east. On nights and weekends, the water may flow from east to west, depending on if the Kapilina Homes in Iroquois Point is operating the irrigation system, and similarly, what the demand is on the Joint Base proper from housing communities near Bishop Point. The long-term closure of the line is possible because each zone has multiple feeds. The presence of these looped interconnections allows redundancy – if one feed goes off-line for maintenance or unexpectedly, the area has a redundant feed to continue service.
3. The interconnection was secured on 05 Dec. 2021 by closing the gate valve on each end (shore) of the interconnection. The water between these valves has not moved since then. When we bring this section back online, the process will be as follows, and according to the diagram in Enclosure (1).
 - a. Secure two additional valves (126 and 130 at West Loch). See Enclosure (1).
 - b. Open valve 128 (currently shut) at West Loch
 - c. Open valve at Hickam that is currently shut
 - d. Open and flush from hydrant no. 64 at West Loch, located between valves 126 and 128.
 - e. Flush transmission line for 6-8 hours to the sanitary sewer.
 - f. Flushing, chlorination and testing of the transmission main will follow ANSI/AWWA C651-05: Disinfecting Water Mains.
 - g. Collect first sample for bacteriological testing after flushing.
 - h. Collect second sample (at least 24 hours after first sample) for bacteriological testing.
 - i. Open valves 126 and 130 and valves on Bishop Point, completing the loop.

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CAPT R. Harmeyer
Public Works Officer
Joint Base Pearl Harbor Hickam

ENCL(5)

The diagram is a hand-drawn schematic of a water distribution system. It features several key components and annotations:

- Top Section:** A horizontal line represents a main water line. A blue arrow points down to it from the top edge. Below this line, handwritten text reads "INST. 1953" and "20\" B.W. ACROSS CHANNEL FROM HICKAM".
- Left Side:** A vertical line is labeled "DEWATERING". To its left, a red box contains the text "Flush from fire hydrant 64 inside EOD Compound". A red arrow points from this box to a circled valve labeled "64".
- Central Area:** A diagonal line runs from the top left towards the bottom right. Along this line, there are several valves labeled "128", "127", "126", and "130". A blue box with the text "Valve 128 currently shut, will need to open to flush through hydrant 64" has a blue arrow pointing to valve 128.
- Bottom Left:** A circular feature is labeled "METER". Below it, a blue box contains the text "Will need to shut valves 130 and 126 (currently open)". A blue arrow points from this box to valve 126.
- Bottom Right:** A dashed line is labeled "FW 2\" PVC". A building footprint is sketched in the lower right corner.
- Other Labels:** "0391" and "0345" are written near the top left. "PLUG" is written near the bottom center. "ENCLOSURE 1" is written in the bottom right corner.

22 February 2022

MEMORANDUM FOR RECORD

SUBJECT: Board of Water Supply Interconnection Status

Ref: [1] Management Inquiry Into Manana Booster/BWS dtd 29 Dec 2021

1. This Memorandum for Record (MFR) is to document the status of the Board of Water Supply (BWS) interconnections with the Joint Base Pearl Harbor Hickam Potable Water System. The JBPHH system has four interconnection points with BWS: (1) Puuloa Road, (2) Halawa Heights Road, (3) Manana Housing, and (4) Red Hill.
2. BWS physically removed the meters from two of the interconnections, creating an “air gap” between the BWS system and the Navy system at both the Puuloa Road location and the Halawa Heights Road location. BWS performed that work on or around 10 December 2021. PWD personnel confirmed that the meters were removed on 14 December 2021.
3. Red Hill and Manana Housing BWS interconnections are still physically connected. The Red Hill interconnection is isolated on both the BWS side and Navy side of the connection. Manana interconnection was opened on 16 November 2021, and is feeding Manana housing. Isolation valves have been secured from the Navy supply to Manana, to isolate Manana Housing from the JBPHH System (Reference [1]).
4. Prior to December 2017, there was a fifth BWS interconnection with the JBPHH system, located at Geiger Road. The Kalaeloa area of the JBPHH water system was transferred from Navy to the Kalaeloa Water Company in December 2017. The BWS interconnection was included in the transfer. Shortly after the transfer, PWD Utilities personnel physically removed the connection from West Loch to Geiger Road piping, “air gapping” the KWC system and the JBPHH system.

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CAPT R. Harmeyer
Public Works Officer
Joint Base Pearl Harbor Hickam

ENCL(6)

February 27, 2022

From: Naval Facilities Engineering Systems Command Representative, IDWS Team

To: Interagency Drinking Water System Team

SUBJ: ZONE D3 DISTRIBUTION SYSTEM EXCEEDANCE INVESTIGATION SUMMARY
AND RESULTS

Encl: (1) Stage 2 Distribution Sampling Report
(2) Zone D3 Distribution System Sampling Report

1. The Zone D3 Distribution System sampling results are listed in enclosures (1) and (2). The samples of the distribution system were taken at the hydrants. The categories of the results are broken down into non-detect, detect below limit levels, and exceedance. A non-detect occurs when the laboratory does not detect a measurable amount of an analyte. A detect below limit levels occurs when the laboratory detects a measurable amount of an analyte below Incident Specific Parameters (ISPs), Department of Health (DoH) Environmental Action Levels (EALs) or Maximum Contaminant Levels (MCLs), or Environmental Protection Agency (EPA) MCLs. An exceedance occurs when the laboratory detects a chemical and the amount detected is higher than established acceptable thresholds. All chemical and metal detections are shown in enclosures (1) and (2). The various agency limits are listed for reference and the result along with the location of the exceedance sample is listed in tabular form. Results highlighted in yellow exceed the ISP. Results in purple font also exceed the EAL. Results in green font also exceed the DOH MCL. Results in blue font also exceed the EPA MCL.

2. Enclosure (1) contains the initial distribution system sample results for Zone D3. Enclosure (2) documents additional distribution samples that were taken in Zone D3. Based on this information, there were no sample results above the MCLs or sample results above an ISP for the Zone D3 distribution system that required further investigation.

3. I certify under penalty of law that I have personally examined and I am familiar with the information submitted and the submitted information is true, accurate, and complete.

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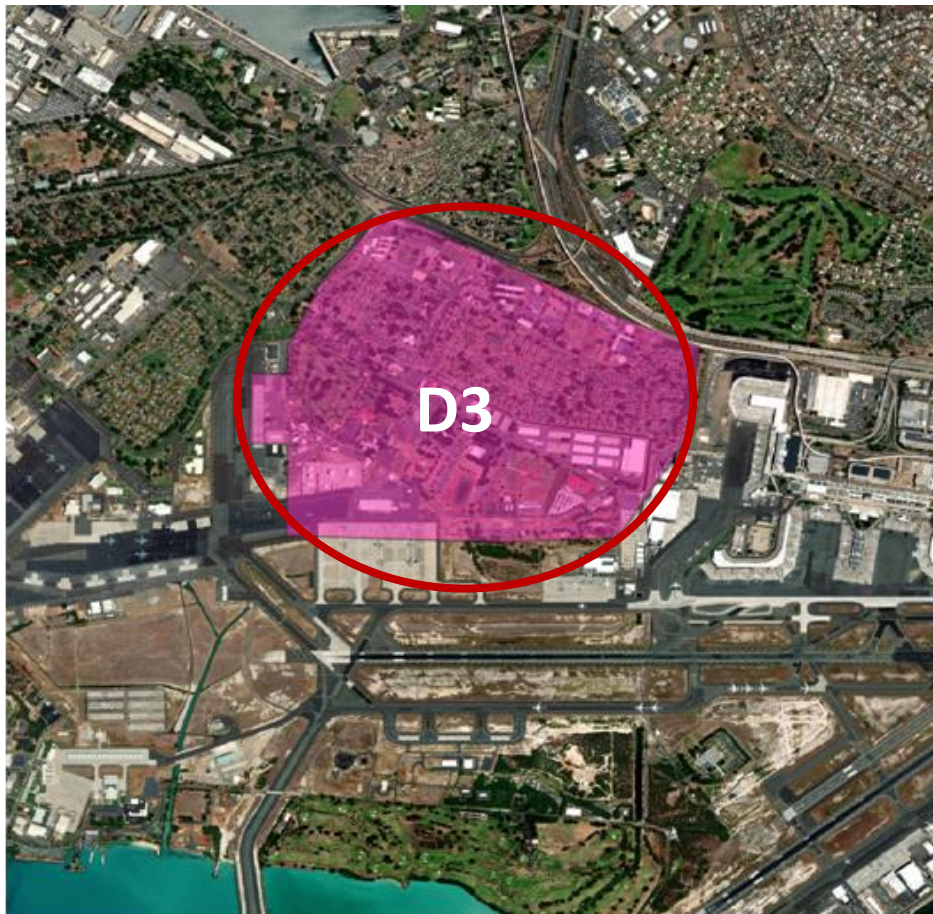


Interagency Drinking Water System Team

Drinking Water Distribution System Recovery Plan: *Stage 2 Sampling* *Results for Zone D3*

Joint Base Pearl Harbor-Hickam (JBPHH)

27 January 2022



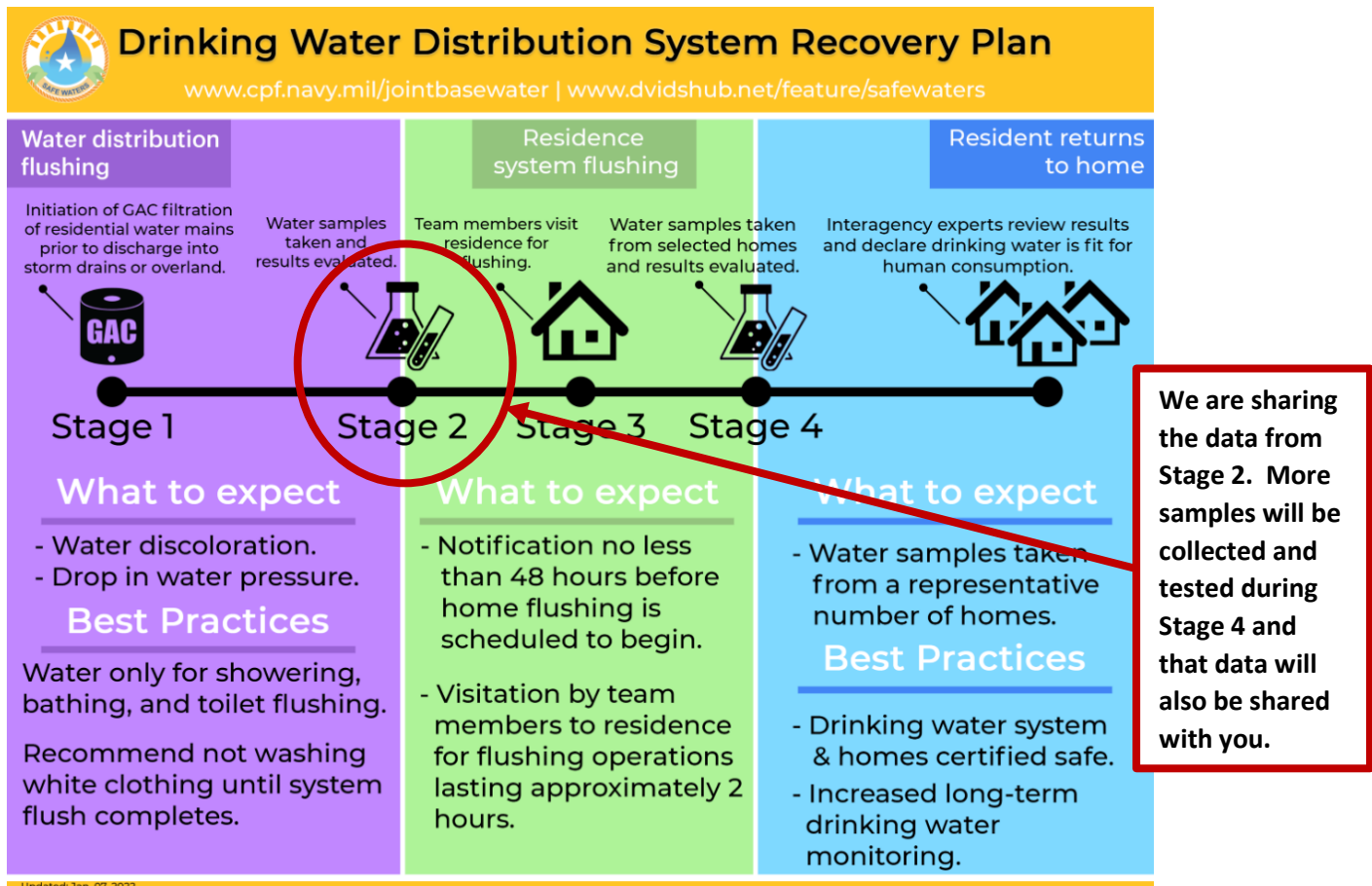
Neighborhoods included in Zone D3: Earhart Village

EXECUTIVE SUMMARY FOR ZONE D3

The State of Hawaii Department of Health's (DOH) November 29, 2021 [Public Health Advisory for the JPBHH Public Water System](#) for Zone D3 remains in effect. DOH recommends all Navy water system users should avoid using the water for drinking, cooking, or oral hygiene. This includes consumption by pets. Navy water system users who detect a fuel-like odor from their water should also avoid using the water for bathing, dishwashing or laundry.

We have thoroughly flushed, sampled, and tested the water distribution system lines (Water Mains) in Zone D3. This Zone has moved to Stage 3—Building Flushing/Stage 4—Building Sampling, in the Drinking Water Distribution System Recovery Plan (see the Figure below). Based on the samples collected and tested, to date, this water meets all U.S. Environmental Protection Agency (EPA) and State of Hawaii Department of Health (DOH) standards that are applicable to the Navy Water System Incident.

No final conclusions or recommendations can be made at this time for the drinking water in your zone because more drinking water samples are being collected and tested from Water Mains, residences, buildings, schools, and child development centers (after they have been flushed). We are sharing this information to keep you updated on our progress towards restoring the water supply being provided to your community.



For additional information, please visit: <https://www.cpf.navy.mil/JPBHH-Water-Updates/>.

Table 1. Contaminants Detected in Drinking Water Samples Collected from Water Mains in Zone D3

Contaminant	Sampling Date	Units	DOH Project Screening Level	Basis of DOH Screening Level ²	Highest Level Detected	Meets DOH Screening Level? (Yes / No)	Typical Source of Contaminant
Contaminants of Concern¹							
Benzene	01/06/2022	ppb	5	MCL	ND	Yes	Discharge from factories; Leaching from gas storage tanks and landfills
Ethylbenzene	01/06/2022	ppb	700	MCL	ND	Yes	Discharge from petroleum refineries
Toluene	01/06/2022	ppb	1000	MCL	ND	Yes	Discharge from petroleum factories
m,p-Xylenes	01/06/2022	ppb	10000	MCL	ND	Yes	Discharge from petroleum factories; Discharge from chemical factories
o-Xylenes	01/06/2022	ppb	10000	MCL	ND	Yes	
1-Methylnaphthalene	01/06/2022	ppb	2.1	ISP	ND	Yes	Used to make other chemicals such as dyes, and resins; also, present in cigarette smoke, wood smoke, tar, asphalt, and at some hazardous waste sites
2-Methylnaphthalene	01/06/2022	ppb	4.7	ISP	ND	Yes	Used to make other chemicals such as dyes, and resins; also used to make vitamin K; and is present in cigarette smoke, wood smoke, tar, asphalt, and at some hazardous waste sites
Naphthalene	01/06/2022	ppb	12	ISP	ND	Yes	Naphthalene is found in coal tar or crude oil and is used in the manufacture of plastics, resins, fuels, and dyes, and as a fumigant
Lead	01/06/2022	ppb	15	ISP	0.35	Yes	Corrosion of household plumbing systems; Erosion of natural deposits
Total Petroleum Hydrocarbons (TPH)-Gasoline	01/06/2022	ppb	200	ISP	ND	Yes	Gasoline is a petroleum product that can contaminate drinking water through spills and other releases into the environment
TPH-Diesel	01/06/2022	ppb	200	ISP	ND	Yes	Diesel is a petroleum product that can contaminate drinking water through spills and other releases into the environment
TPH-Oil	01/06/2022	ppb	200	ISP	ND	Yes	Oil is a petroleum product that can contaminate drinking water through spills and other releases into the environment
Total Organic Carbon (TOC)	01/06/2022	ppb	2000	ISP	ND	Yes	Naturally present in the environment, but also can be an indicator of contamination, including petroleum or other sources

Contaminant	Sampling Date	Units	DOH Project Screening Level	Basis of DOH Screening Level ²	Highest Level Detected	Meets DOH Screening Level? (Yes / No)	Typical Source of Contaminant
Metals							
Barium	01/06/2022	ppb	2000	MCL	2.0	Yes	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Chromium	01/06/2022	ppb	100	MCL	1.5	Yes	Corrosion of galvanized pipes; Erosion of natural deposits; Discharge from metal refineries; Runoff from waste batteries and paints
Copper	01/06/2022	ppb	1300	AL	4.1	Yes	Corrosion of household plumbing systems; Erosion of natural deposits
Volatile Organic Compounds - ND							
Synthetic Organic Compounds (SOCs) or Semi-Volatile Organic Compounds (SVOCs) - ND							

Notes:

1. These contaminants are listed whether detected or non-detected (ND) because these are incident specific. All other contaminants are only listed if detected.
2. DOH uses multiple criteria to assess the safety of the drinking water including maximum contaminant levels (MCLs) previously established environmental action levels (EALs) and incident specific parameters (ISPs).
3. Acronyms and explanation of terms used in this table are presented on the following pages. For assistance in understanding and interpreting information in this table, refer to FACT SHEET, Understanding You Water Quality Summary Table, available online at: <https://www.cpf.navy.mil/JPBH-Water-Updates/>.
4. For more information regarding Total Petroleum Hydrocarbons, refer to the FACT SHEET What Are Petroleum Hydrocarbons?, available online at: https://health.hawaii.gov/about/files/2021/12/21.12.16_What-Are-Petroleum-Hydrocarbons.pdf.

Drinking Water Distribution System Recovery Plan: Stage 2 Sampling Results for Zone D3

What is the purpose of this Stage 2 Sampling Results Report?

This is a progress report and presents the testing results from drinking water distribution system samples that have been collected, to date, from the water distribution system lines (Water Mains) in your Zone. These samples were collected after extensive flushing of the distribution system was performed using clean water from the Navy Waiawa Shaft. This is Stage 2 of the 4-Stage process described in the [Drinking Water Distribution System Recovery Plan](#).

No final conclusions or recommendations can be made at this time for the drinking water in your zone because more drinking water samples are being collected and tested from Water Mains, residences, buildings, schools, and child development centers. We are sharing this information to keep you updated on our progress towards restoring the water supply being provided to your community.

What was found?

The table presented above (Table 1) presents all contaminants that were detected in drinking water samples that have been collected, to date, from the Water Mains in your Zone during Stage 2. Hawaii DOH used multiple standards/criteria (called DOH Project Screening Levels) to assess the safety of the drinking water to include:

- EPA and Hawaii DOH Maximum Contaminant Levels (MCLs) standards for drinking water,
- Previously established Environmental Action Levels (EALs); and
- Incident Specific Parameters (ISPs).

Based on these data, this Zone moved to Stage 3—Building/Home Flushing, in the [Drinking Water Distribution System Recovery Plan](#).

What contaminants were tested?

Drinking water, including bottled water, can contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants tested can be obtained by calling the Hawaii DOH Safe Drinking Water Branch at 808-586-4258.

In order to ensure that drinking water is safe to drink, EPA and Hawaii DOH regulate the amount of certain contaminants in water provided by public water systems. The primary categories of monitored contaminants include volatile organic compounds (VOCs), synthetic organic chemicals (SOCs)/semi-volatile organic compounds (SVOCs), metals, Total Petroleum Hydrocarbons (TPH), Total Organic Carbon (TOC) chlorine and pH. A description of these contaminant categories can be found under Explanation of Terms located at the end of this report. The full list of contaminants that were tested for are

presented in the laboratory reports are located at: <https://www.cpf.navy.mil/JBPHH-Water-Updates/>.

What happened leading up to Public Health Advisory being issued?

After receiving reports of a fuel-like smell or visual sheen in the drinking water from residents of Joint Base Pearl Harbor – Hickam (JBPHH) on November 28, 2021, the Navy immediately stopped using water from the Red Hill Shaft. Out of abundance of caution, the Navy also stopped using water from the Navy Aiea Halawa Shaft. The Navy's water system provides drinking water to JBPHH, including the Army, Air Force, Marine Corps, and Hawaii residents in some neighborhoods close to JBPHH. The Hawaii DOH issued a [Public Health Advisory on November 29, 2021](#). The Hawaii DOH, the United States Environmental Protection Agency (EPA), Navy, and Marine Corps Public Health Center, and Army formed the Interagency Drinking Water System Team (IDWST) to work on a coordinated effort to restore safe drinking water to all Navy Water System users.

Has the Public Health Advisory been amended or lifted?

No. Please continue to follow the Public Health Advisory for Navy Water System users and only use your drinking water for non-consumptive purposes as long as your water does not have a visible sheen and remains odor free. Your service may have provided more restrictive guidance. As stated above, we are at Stage 2 of the 4-Stage process described in the Drinking Water System Recovery Plan and the Public Health Advisory will be re-evaluated by Hawaii DOH after Stage 4 in the process.

Where does our water come from?

The source of all water for all Navy Water System users now comes only from the Navy Waiawa Shaft, which was not impacted by the release of Jet Fuel (JP-5) that occurred at Red Hill in late November 2021. The Waiawa Shaft has been sampled and EPA and DOH confirmed that it meets all federal and state drinking water standards and it will continue to be sampled in accordance with EPHA and DOH requirements.

What is the IDWST doing to clean the drinking water distribution system?

The IDWST evaluated multiple options for cleaning the Navy drinking water distribution system and determined that high-volume flushing of the Navy drinking water distribution system (all water mains/laterals/buildings) with 3 to 5 volumes of clean water from the Waiawa Shaft, followed by extensive testing to confirm that flushing worked, would restore safe drinking water to all Navy Water System users.

When was Water Main flushing conducted in Zone D3?

The final round of distribution water main flushing in Zone D3 was completed on January 04, 2022.

How much water was flushed through the water distribution system in Zone D3?

From December 31, 2021 – January 04, 2022, a total of 1.4 million gallons was flushed through Zone D3.

Where can I get more information about the potential health effects associated with these contaminants?

Hawaii Department of Health (DOH)

<https://health.hawaii.gov/about/navy-water-system-quality-updates/>.

Call the DOH Safe Drinking Water Branch at 808-586-4258

US Environmental Protection Agency (EPA)

<https://www.epa.gov/ground-water-and-drinking-water/forms/online-form-epas-office-ground-water-and-drinking-water>.

Call EPA Region 9's Environmental Information Center at 1-866-372-9378

See the FACT SHEET, Understanding Your Water Quality Summary Table, available online at: <https://www.cpf.navy.mil/JPBPHH-Water-Updates/>.

Acronyms used in the Table

AL	Action Level (for Lead and Copper)
DOH	Hawaii Department of Health
EAL	Environmental Action Level
EPA	U.S. Environmental Protection Agency
ISP	Incident Specific Parameter
MCL	Maximum Contaminant Level
ND	Non-Detect
ppb	parts per billion (or ug/L)
SDWA	Safe Drinking Water Act
SOCs	Synthetic Organic Compounds (also known as SVOCs)
SVOCs	Semi-Volatile Organic Compounds (same as SOC's)
TPH	Total Petroleum Hydrocarbons
TOC	Total Organic Carbon
ug/L	micrograms per liter (or ppb)
VOCs	Volatile Organic Compounds

Explanation of Terms used in this Report

Action Level (AL). This AL is for Lead and Copper. The AL is a measure of the effectiveness of the corrosion control treatment in water systems. The AL is not a standard for establishing a safe level of lead or copper. The AL is the point at which certain provisions of the proposed standards must be initiated.

Contaminant. Contaminant is any physical, chemical, biological, or radiological substance or matter in water, and can be either healthy or unhealthy, depending on the particular substance and concentration. It could also be a physical parameter monitored like pH or temperature.

Incident Specific Parameters (ISP). To more comprehensively monitor and respond to this specific petroleum contamination of drinking water, the DOH identified contaminants that require additional action prior to amending the Health Advisory. The ISP is used as a line of evidence to evaluate the data generated in each Zone during the investigation conducted by the IDWST.

Maximum Contaminant Level (MCL). An MCL is the maximum permissible level of a contaminant in water which is delivered to any user of a public water system. The MCL is set to protect the public from acute and chronic health risks associated with consuming water containing these contaminants.

Metals. Metals are chemicals that are not derived from living sources and in general do not contain carbon. Metals include antimony, arsenic, asbestos, barium, beryllium, cadmium, chromium, copper, cyanide, fluoride, lead, mercury, nitrate, nitrite, selenium, and thallium. These contaminants get into drinking water supplies through industrial discharge or spills, erosion of natural deposits, corrosion, sewage discharge, fertilizer runoff, and other sources.

Project Specific Screening Level. DOH uses multiple criteria to assess the safety of the drinking water including maximum contaminant levels (MCLs), previously established environmental action levels (EALs) and incident specific parameters (ISPs).

Synthetic Organic Compounds (SOCs)/Semi-Volatile Organic Compounds (SVOCs). SOCs and SVOCs may be used interchangeably and are man-made, organic (carbon-based) chemicals that are less volatile than Volatile Organic Contaminants (VOCs). They are used as pesticides, defoliants, fuel additives, and as ingredients for other organic chemicals.

Tier 1 Environmental Action Level (EAL). Tier 1 Environmental Action Levels (Tier 1 EALs) are concentrations of contaminants in drinking water and other media (e.g., soil, soil gas, and groundwater) below which the contaminants are assumed to not pose a significant threat to human health or the environment. Exceeding the Tier 1 EAL does not necessarily indicate that contamination at the site poses environmental hazards but generally warrants additional investigation.

Total Petroleum Hydrocarbons (TPH). TPH is a term used to describe a large family of several hundred chemical compounds that come from crude oil. Crude oil is used to make petroleum products, which can contaminate the environment. TPH is grouped by TPH-Gasoline, TPH-Diesel, and TPH-Oil.

Total Organic Carbon (TOC). TOC is naturally present in the environment, but also can be an indicator of contamination, including petroleum or other sources.

Units. A unit is the concentration of contaminant found in the water. For this report, the units are expressed in U.S. Standard Units.

U.S. Standard Unit (Name)	Acronym	Equivalent International System of Units (Name)	Acronym
parts per million	ppm*	milligrams per Liter	mg/L
parts per billion	ppb*	micrograms per Liter	ug/L

*One (1) part per million (ppm) is 1,000 parts per billion (ppb).

Volatile Organic Compounds (VOCs). VOCs are a class of chemicals that contain carbon and evaporate, or volatilize, easily into air at room temperature. VOCs are found in a variety of commercial, industrial, and residential products, including gasoline, solvents, cleaners and degreasers, paints, inks and dyes, and pesticides.

D3 Zone Distribution Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Location ID:	D3-HYD0188				D3-HYD0213	D3-HYD0219	D3-HYD0222	D3-HYD0411	D3-HYD0520	D3-HYD0592
Location Type:	Hydrant				Hydrant	Hydrant	Hydrant	Hydrant	Hydrant	Hydrant
Residence:	FH 188				FH 213	FH 219	FH 222	FH 411	FH 520	FH 592
Field Sample ID:	220115-D3-WT01				220116-D3-YT01	220115-D3-ZT04	220115-D3-WT02	220115-D3-YT01	220116-D3-YT04	220115-D3-YT02
Sample Date:	2022-01-15				2022-01-16	2022-01-15	2022-01-15	2022-01-15	2022-01-16	2022-01-15
Sample Type:	N				N	N	N	N	N	N

GENCHEM (mg/L)	Incident Specific Parameters	2	DOH		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels		SDG:	
			Environmental Action Levels Table D-1A Groundwater	None	None	None	Environmental Protection Agency Maximum Contaminant Levels	None	980752	C22A029
Total Organic Carbon									0.370	2.17
									0.380	3.61
									0.380	3.74
									1.69	1.63

HC (µg/L)	Incident Specific Parameters	200	DOH		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels		SDG:	
			Environmental Action Levels Table D-1A Groundwater	None	None	None	Environmental Protection Agency Maximum Contaminant Levels	None	5801093601	5801094401
Petroleum Hydrocarbons (as Diesel)									94.0 U	90.0 U
Petroleum Hydrocarbons (as Gasoline)									100 UJ	100 UJ
Petroleum Hydrocarbons (as Motor Oil)									190 U	180 U
									190 U	180 U

HERB (µg/L)	Incident Specific Parameters	None	DOH		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels		SDG:	
			Environmental Action Levels Table D-1A Groundwater	None	None	None	Environmental Protection Agency Maximum Contaminant Levels	None	980752	810123221
Pentachlorophenol									0.0200 U	0.0200 U
									0.0200 U	0.0200 U

HG (µg/L)	Incident Specific Parameters	0.025	DOH		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels		SDG:	
			Environmental Action Levels Table D-1A Groundwater	0.025	2	2	Environmental Protection Agency Maximum Contaminant Levels	2	2A17049	2A17049
Mercury									0.0170 U	0.0170 U
									0.0250 U	0.0250 U

METAL (µg/L)	Incident Specific Parameters	6	DOH		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels		SDG:	
			Environmental Action Levels Table D-1A Groundwater	6	6	6	Environmental Protection Agency Maximum Contaminant Levels	6	980752	DA40956
Antimony									0.110 U	0.100 U
Arsenic									0.260 J	0.500 U
Barium									0.248 J	0.258 J
Beryllium									2.00	1.95
Cadmium									1.90 J	2.10
Chromium									0.0910 U	0.150 U
Copper									0.0624 U	0.150 U
Lead									0.0290 U	0.0500 U
Mercury									0.0416 U	0.0500 U
Selenium									1.70	1.55
Thallium									1.70	1.90 J
									1.60	2.90
									2.60	2.90
									0.320 J	1.00
									1.70	1.00
									14.5	7.00
									4.00	2.57
									0.280 J	0.339
									1.40	1.00
									--	--
									0.0200 U	--
									1.10 J	0.390 J
									0.720 J	1.29
									0.0430 J	0.0210 U
									0.0430 J	0.0500 U

D3 Zone Distribution Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Location ID:	D3-HYD0188	D3-HYD0213	D3-HYD0219	D3-HYD0222	D3-HYD0411	D3-HYD0520	D3-HYD0592
Location Type:	Hydrant	Hydrant	Hydrant	Hydrant	Hydrant	Hydrant	Hydrant
Residence:	FH 188	FH 213	FH 219	FH 222	FH 411	FH 520	FH 592
Field Sample ID:	220115-D3-WT01	220116-D3-YT01	220115-D3-ZT04	220115-D3-WT02	220115-D3-YT01	220116-D3-YT04	220115-D3-YT02
Sample Date:	2022-01-15	2022-01-16	2022-01-15	2022-01-15	2022-01-15	2022-01-16	2022-01-15
Sample Type:	N	N	N	N	N	N	N

Incident Specific Parameters		DOH Environmental Action Levels Table D-1A		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels		SDG: 980752		SDG: 2A17049		SDG: 980751		SDG: DA40956		SDG: 2A17049		SDG: DA40956	
		Groundwater Action Levels																	
SVOC (µg/L)	2.1	10	None	None	None	None	None	--	0.00801 U	--	--	--	0.240 U	0.00801 U	0.240 U	--	--	0.240 U	--
1-Methylnaphthalene							None	--											
2-Ethylhexyl adipate	None	None	None	None	None	None	None	--	5.00 U	--	--	--	5.00 U	5.00 U	--	--	--		
2-Methylnaphthalene	4.7	10	None	None	None	None	None	--	0.00904 U	--	--	--	0.240 U	0.00904 U	0.240 U	--	--	0.240 U	
Alachlor	None	None	None	None	None	None	None	0.0220 U	0.0110 U	0.0220 U	0.0220 U	0.0220 U	--	0.0110 U	--	--	--	--	
Atrazine	None	None	None	None	None	None	None	0.0480 U	0.00734 U	0.0480 U	0.0480 U	0.0480 U	--	0.00734 U	--	--	--	--	
Benzo(a)pyrene	0.06	0.06	0.2	0.2	0.2	0.2	0.2	0.0110 U	0.0117 UJ	0.0110 U	0.0110 U	0.0110 U	0.00950 U	0.0117 UJ	0.00950 U	0.0117 UJ	0.00950 U	0.00960 U	
Bis(2-ethylhexyl)phthalate	3	3	6	6	6	6	6	0.150 U	0.437 U	0.150 U	0.150 U	0.150 U	0.380 U	0.437 U	0.380 U	0.437 U	0.380 U	0.380 U	
Chlordane	None	None	None	None	None	None	None	0.0320 U	0.0669 U	0.0320 U	0.0320 U	0.0320 U	--	0.0669 U	--	--	--	--	
Diocetyl adipate	None	None	None	None	None	None	None	0.0630 U	--	0.0630 U	0.0630 U	0.0630 U	--	--	--	--	--	--	
Endrin	None	None	None	None	None	None	None	0.00500 U	0.00991 U	0.00500 U	0.00500 U	0.00500 U	--	0.00991 U	--	--	--	--	
gamma-BHC (Lindane)	None	None	None	None	None	None	None	0.00700 U	0.00633 U	0.00700 U	0.00700 U	0.00700 U	--	0.00633 U	--	--	--	--	
Heptachlor	None	None	None	None	None	None	None	0.00300 U	0.00965 U	0.00300 U	0.00300 U	0.00300 U	--	0.00965 U	--	--	--	--	
Heptachlor epoxide	None	None	None	None	None	None	None	0.00500 U	0.0122 U	0.00500 U	0.00500 U	0.00500 U	--	0.0122 U	--	--	--	--	
Hexachlorobenzene	0.0003	0.0003	1	1	1	1	1	0.0410 U	0.0980 U	0.0410 U	0.0410 U	0.0410 U	0.0200 U	0.0980 U	0.0200 U	0.0980 U	0.0200 U	0.0200 U	
Hexachlorocyclopentadiene	50	None	50	50	50	50	50	0.0380 U	0.00594 U	0.0380 U	0.0380 U	0.0380 U	0.0400 U	0.00594 U	0.0400 U	0.00594 U	0.0400 U	0.0400 U	
Methoxychlor	None	None	None	None	None	None	None	0.0320 U	0.00863 U	0.0320 U	0.0320 U	0.0320 U	--	0.00863 U	--	--	--	--	
Naphthalene	12	17	None	None	None	None	None	0.0110 U	0.0103 U	0.0110 U	0.0110 U	0.0110 U	0.240 U	0.0103 U	0.240 U	0.0103 U	0.240 U	0.240 U	
PCB, Total	None	None	None	None	None	None	None	--	0.0940 U	--	--	--	--	0.0940 U	--	--	--	--	
PCB-1016 (Aroclor 1016)	None	None	None	None	None	None	None	0.0220 U	0.0157 U	0.0220 U	0.0220 U	0.0220 U	--	0.0157 U	--	--	--	--	
PCB-1221 (Aroclor 1221)	None	None	None	None	None	None	None	0.0790 U	0.0436 U	0.0790 U	0.0790 U	0.0790 U	--	0.0436 U	--	--	--	--	
PCB-1232 (Aroclor 1232)	None	None	None	None	None	None	None	0.0850 U	0.0102 U	0.0850 U	0.0850 U	0.0850 U	--	0.0102 U	--	--	--	--	
PCB-1242 (Aroclor 1242)	None	None	None	None	None	None	None	0.0720 U	0.0737 U	0.0720 U	0.0720 U	0.0720 U	--	0.0737 U	--	--	--	--	
PCB-1248 (Aroclor 1248)	None	None	None	None	None	None	None	0.0230 U	0.0941 U	0.0230 U	0.0230 U	0.0230 U	--	0.0941 U	--	--	--	--	
PCB-1254 (Aroclor 1254)	None	None	None	None	None	None	None	0.0350 U	0.0869 U	0.0350 U	0.0350 U	0.0350 U	--	0.0869 U	--	--	--	--	
PCB-1260 (Aroclor 1260)	None	None	None	None	None	None	None	0.0330 U	0.0379 U	0.0330 U	0.0330 U	0.0330 U	--	0.0379 U	--	--	--	--	
Pentachlorophenol	None	None	None	None	None	None	None	--	0.0242 U	--	--	--	--	0.0242 U	--	--	--	--	
Simazine	None	None	None	None	None	None	None	0.0280 U	0.00734 U	0.0280 U	0.0280 U	0.0280 U	--	0.00734 U	--	--	--	--	

Incident Specific Parameters		DOH Environmental Action Levels Table D-1A		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels		SDG: 980752		SDG: 2A17049		SDG: 980751		SDG: DA40956		SDG: 2A17049		SDG: DA40956	
		Groundwater Action Levels																	
VOC (µg/L)	11	11	200	200	200	200	200	0.0790 U	0.256 U	0.0790 U	0.0790 U	0.0790 U	0.500 U	0.256 U	0.500 U	0.256 U	0.500 U	0.500 U	
1,1,1-Trichloroethane							200	0.0790 U		0.0790 U		0.0790 U		0.500 U		0.256 U		0.500 U	
1,1,2-Trichloroethane	5	5	3	3	3	5	5	0.0750 U	0.190 U	0.0750 U	0.0750 U	0.0750 U	0.500 U	0.190 U	0.500 U	0.190 U	0.500 U	0.500 U	
1,1-Dichloroethene	7	7	7	7	7	7	7	0.110 U	0.160 U	0.110 U	0.110 U	0.110 U	0.500 U	0.160 U	0.500 U	0.160 U	0.500 U	0.500 U	

D3 Zone Distribution Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Location ID:	D3-HYD0188	D3-HYD0213	D3-HYD0219	D3-HYD0222	D3-HYD0411	D3-HYD0520	D3-HYD0592
Location Type:	Hydrant	Hydrant	Hydrant	Hydrant	Hydrant	Hydrant	Hydrant
Residence:	FH 188	FH 213	FH 219	FH 222	FH 411	FH 520	FH 592
Field Sample ID:	220115-D3-WT01	220116-D3-YT01	220115-D3-ZT04	220115-D3-WT02	220115-D3-YT01	220116-D3-YT04	220115-D3-YT02
Sample Date:	2022-01-15	2022-01-16	2022-01-15	2022-01-15	2022-01-15	2022-01-16	2022-01-15
Sample Type:	N	N	N	N	N	N	N

Incident Specific Parameters		DOH Environmental Action Levels Table D-1A	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels	SDG: 980752	SDG: 2A17049	SDG: 980750	SDG: 980751	SDG: DA40956	SDG: 2A17049	SDG: DA40956
VOC (µg/L)	70	70	70	70	70	70	70	70	70	70	70
1,2,4-Trichlorobenzene											
1,2-Dichlorobenzene	10	10	600	600	0.0760 U	0.190 U	0.0760 U	0.0760 U	0.500 U	0.170 U	0.500 U
1,2-Dichloroethane	5	5	5	5	0.120 U	0.243 U	0.120 U	0.120 U	0.500 U	0.120 U	0.500 U
1,2-Dichloropropane	5	5	5	5	0.0710 U	0.130 U	0.0710 U	0.0710 U	0.500 U	0.130 U	0.500 U
1,4-Dichlorobenzene	5	5	75	None	0.0920 U	0.180 U	0.0920 U	0.0920 U	0.500 U	0.180 U	0.500 U
Benzene	5	5	5	5	0.120 U	0.150 U	0.120 U	0.120 U	0.500 U	0.150 U	0.500 U
Carbon Tetrachloride	5	5	5	5	0.0870 U	0.270 U	0.0870 U	0.0870 U	0.500 U	0.270 U	0.500 U
Chlorobenzene	25	25	100	100	0.0660 U	0.150 U	0.0660 U	0.0660 U	0.500 U	0.150 U	0.500 U
cis-1,2-Dichloroethene	70	70	70	70	0.140 U	0.250 U	0.140 U	0.140 U	0.500 U	0.250 U	0.500 U
Ethylbenzene	700	7.3	700	700	0.110 U	0.210 U	0.110 U	0.110 U	0.500 U	0.210 U	0.500 U
m,p-Xylene	10000	13	None	None	0.230 U	0.330 U	0.230 U	0.230 U	0.500 U	0.330 U	0.500 U
Methylene chloride	5	5	5	5	0.0740 U	0.303 U	0.0740 U	0.0740 U	0.500 U	0.303 U	0.500 U
o-Xylene	10000	13	None	None	0.0720 U	0.200 U	0.0720 U	0.0720 U	0.500 U	0.200 U	0.500 U
Styrene	10	10	100	100	0.110 U	0.190 U	0.110 U	0.110 U	0.500 U	0.190 U	0.500 U
Tetrachloroethene (PCE)	5	5	5	5	0.280 U	0.180 U	0.280 U	0.280 U	0.500 U	0.180 U	0.500 U
Toluene	1000	9.8	1000	1000	0.0570 U	0.294 U	0.0570 U	0.0570 U	0.500 U	0.294 U	0.500 U
trans-1,2-Dichloroethene	100	100	100	100	0.100 U	0.259 U	0.100 U	0.100 U	0.500 U	0.259 U	0.500 U
Trichloroethene (TCE)	5	5	5	5	0.0970 U	0.180 U	0.0970 U	0.0970 U	0.500 U	0.180 U	0.500 U
Vinyl chloride	2	2	2	2	0.0770 U	0.180 U	0.0770 U	0.0770 U	0.500 U	0.180 U	0.500 U

Notes:

-- indicates that the sample was Not Analyzed for the analyte

Results highlighted yellow exceed the ISP
Results in purple font also exceed the EALs
Results in green font also exceed the DOH MCL
Results in blue font also exceed the EPA MCL

µg/L = Micrograms per Liter



Interagency Drinking Water System Team
Zone D3 Removal Action Report
March 2022

Line of Evidence 2b

Water in Premise Plumbing of Homes/Buildings does not exceed State and Federal Drinking Water MCLs, specified State EALs, and ISPs

Table 1: Lines of Evidence Under Evaluation – Ensure no contamination remains in the system and water chemistry concerns are addressed.

Objective 2b - Water in premise plumbing of homes/buildings does not exceed State and Federal DW MCLs, specified State EALs, and ISPs.

Incident Specific Criteria –

- Flushing Plan includes procedures to ensure no service connections will re-contaminate the distribution system.
- Sample Plan includes 72-hour stagnation to account for leaching of contaminants from premise plumbing.
- Sample results show water in homes/buildings does not exceed State and Federal DW MCLs, specified State EALs, and ISPs.

Lines of Evidence	Completion Status	Outstanding Items
Flushing Plan includes procedures to ensure no service connections will re-contaminate the distribution system.	Complete	<ul style="list-style-type: none"> • None.

February 20, 2022

From: Naval Facilities Engineering Systems Command Representative, IDWS Team
To: Interagency Drinking Water System Team

SUBJ: SUMMARY OF LINE OF EVIDENCE OBJECTIVE 2B – WATER IN PREMISE OF PLUMBING OF HOMES/BUILDINGS DOES NOT EXCEED STATE AND FEDERAL DW MCLs, SPECIFIED STATE EALs, AND ISPs

Encl: (1) 2b.1 Flushing Records and Distribution System Pressure Logs During Residential Flushing
(2) 2b.2 Residential Sampling Report for Flushing Zone
(3) 2b.3 Exceedance Investigation Summary and Resample Results
(4) 2b.4 Certification of Completed Irrigation Flushing
(5) 2b.5 DOH Guidance for Active Irrigation Line Purging and Flushing

1. Enclosures (1) through (5) document completion of Line of Evidence 2b, that water in premise of plumbing of homes/buildings does not exceed State of Hawaii and Federal Drinking Water standards, Maximum Contaminate Levels, Environmental Action Levels and Incident Specific Parameters. On the evening of November 28, 2021, the Red Hill Shaft was secured from operation and all pumping operations ceased. The Aiea/Halawa shaft briefly served as the secondary source starting on November 28, 2021, but it was shut down on December 3, 2021 to prevent potential westward contaminant migration in the aquifer and because there were concerns over high chloride concentrations caused by saltwater intrusion. Since December 3, 2021, the Waiawa Shaft has been the sole water source providing potable water to the Joint Base Pearl Harbor-Hickam (JBPHH) distribution network. Zone D3 is part of the JBPHH Drinking Water system that is operated and maintained by the United States Navy. Flushing operations are summarized in Enclosure (1), signed by CDR Trevor Bingham, team lead for the Drinking Water Residential and Non-residential Recovery Team.

2. Enclosure (1) documents the flushing records for all facilities within Zone D3, as well as pressure logs for the distribution system during facility flushing operations. The completion of irrigation flushing in Zone D3, described in Enclosure (5), is documented in Enclosure (4). Sampling data collected after flushing is summarized in Enclosure (2).

3. Sample results with analyte detections exceeding the prescribed Maximum Contaminant Level (MCL), Environmental Action Level (EAL), or Incident Specific Parameter (ISP) are documented in Enclosure (3). The follow-on investigation summary and additional sampling results are also documented in Enclosure (3).

4. This information documents completion of Line of Evidence 2b, that water in premise of plumbing of homes/buildings does not exceed State of Hawaii and Federal Drinking Water standards, MCLs, EALs, or ISPs.

5. I certify under penalty of law that I have personally examined and I am familiar with the information submitted and I believe the submitted information is true, accurate, and complete.

WETZEL.CHRISTOPHE
R.JAMES.1540194862
C. J. Wetzel
LT, CEC, USN

Digitally signed by
WETZEL.CHRISTOPHER.JAMES.1
540194862
Date: 2022.02.20 13:54:53 -08'00'

28 February 2022

MEMORANDUM

From: Naval Facilities Engineering Systems Command Representative, EWG Team
To: Interagency Drinking Water System Team

Subj: RECORDS OF COMPLETED RESIDENTIAL AND NON-RESIDENTIAL FLUSHING
ZONE D3

Ref: (a) Single Family Home Flushing Plan Checklist and Standard Operating Procedures,
December 2021
(b) Non-Residential Flushing Plan, January 2022

Encl: (1) EDMS Residential Flushing Records Zone D3
(2) EDMS Non-Residential Flushing Records Zone D3
(3) JBPHH System Pressure SCADA Data
(4) Distribution System Pressure Log Zone D3

1. This memo documents the completion of residential and non-residential flushing in Zone D3. The completed records of residential flushing, as shown in Enclosure (1), document the flushing of 912/912 homes in EDMS. The completed records of non-residential flushing, as shown in Enclosure (2), document the flushing of all 118 facilities in EDMS.
2. The distribution system pressure was monitored by Construction Battalion Maintenance Unit (CBMU) 303. Enclosure (4) demonstrates sustained pressure above 30 pounds per square inch (psi) during the flushing period.
3. Meter 1485, located in Zone D3 at the Nimitz Ballfield, documents that the distribution system maintained a pressure of at least 30 psi for the duration of residential and non-residential flushing, as shown in Enclosure (3).
4. I certify under penalty of law that I have personally examined and I am familiar with the information submitted, and the submitted information is true, accurate, and complete.

Very respectfully,

BINGHAM.TREVOR.A
MMON.1131940048

T. A. BINGHAM
CDR, CEC, USN

Digitally signed by
BINGHAM.TREVOR.AMMON.113
1940048
Date: 2022.02.28 12:41:31 -10'00'

Flushing Zone D3

2022-01-19 - 2023-01-20

Total Homes	Percent Complete	No Access	Flushed on Selected Dates
912	100.0 %	0	912

Zone	Address	Arrive Date	Start Time	Finish Time	Certified	Summary General Notes	Unable To Access	Access Reason
Flushing Zone D3	71 Aupaka Street (D3-AUPA0071)	19-Jan-22	10:06	11:06	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	73 Aupaka Street (D3-AUPA0073)	19-Jan-22	10:06	11:07	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	75 Aupaka Street (D3-AUPA0075)	19-Jan-22	11:07	12:02	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	77 Aupaka Street (D3-AUPA0077)	19-Jan-22	08:00	09:06	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	81 Aupaka Street (D3-AUPA0081)	19-Jan-22	08:32	09:36	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	83 Aupaka Street (D3-AUPA0083)	19-Jan-22	09:12	11:36	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	85 Aupaka Street (D3-AUPA0085)	19-Jan-22	09:44	11:09	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	87 Aupaka Street (D3-AUPA0087)	19-Jan-22	23:00	12:04	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	117 Aupaka Street (D3-AUPA0117)	19-Jan-22	08:00	09:08	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	119 Aupaka Street (D3-AUPA0119)	19-Jan-22	08:00	09:08	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	121 Aupaka Street (D3-AUPA0121)	19-Jan-22	09:11	10:29	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	123 Aupaka Street (D3-AUPA0123)	19-Jan-22	09:12	10:47	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	125 Aupaka Street (D3-AUPA0125)	19-Jan-22	12:00	13:07	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	127 Aupaka Street (D3-AUPA0127)	19-Jan-22	08:00	09:07	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	129 Aupaka Street (D3-AUPA0129)	19-Jan-22	08:00	09:07	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	131 Aupaka Street (D3-AUPA0131)	19-Jan-22	09:12	10:09	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	133 Aupaka Street (D3-AUPA0133)	19-Jan-22	10:08	13:10	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	135 Aupaka Street (D3-AUPA0135)	19-Jan-22	10:15	11:05	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	137 Aupaka Street (D3-AUPA0137)	19-Jan-22	08:00	09:45	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	139 Aupaka Street (D3-AUPA0139)	19-Jan-22	08:00	09:47	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	1001 Halehaka Street (D3-HALE1001)	20-Jan-22	13:27	14:27	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	1002 Halehaka Street (D3-HALE1002)	19-Jan-22	08:13	12:32	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	1003 Halehaka Street (D3-HALE1003)	19-Jan-22	08:00	11:25	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	1004 Halehaka Street (D3-HALE1004)	19-Jan-22	08:13	10:25	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	1005 Halehaka Street (D3-HALE1005)	19-Jan-22	08:22	11:54	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	1006 Halehaka Street (D3-HALE1006)	19-Jan-22	08:00	10:08	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	1007 Halehaka Street (D3-HALE1007)	19-Jan-22	08:21	11:55	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	1008 Halehaka Street (D3-HALE1008)	19-Jan-22	08:00	09:45	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	1032 Halehaka Street (D3-HALE1032)	19-Jan-22	10:20	12:02	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	1034 Halehaka Street (D3-HALE1034)	19-Jan-22	10:40	12:41	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	1036 Halehaka Street (D3-HALE1036)	19-Jan-22	12:45	14:30	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	1038 Halehaka Street (D3-HALE1038)	19-Jan-22	13:00	14:58	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	140 Halena Court (D3-HALE0140)	19-Jan-22	10:00	11:03	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	142 Halena Court (D3-HALE0142)	19-Jan-22	10:00	16:13	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	144 Halena Court (D3-HALE0144)	19-Jan-22	08:55	10:55	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	146 Halena Court (D3-HALE0146)	19-Jan-22	07:53	09:09	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	148 Halena Court (D3-HALE0148)	19-Jan-22	10:00	13:34	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	150 Halena Court (D3-HALE0150)	19-Jan-22	10:15	12:07	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	141 Halena Place (D3-HALE0141)	19-Jan-22	07:50	09:11	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	143 Halena Place (D3-HALE0143)	19-Jan-22	08:05	09:13	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	145 Halena Place (D3-HALE0145)	19-Jan-22	09:00	16:02	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	147 Halena Place (D3-HALE0147)	19-Jan-22	09:00	16:02	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	149 Halena Place (D3-HALE0149)	19-Jan-22	09:10	09:55	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	151 Halena Place (D3-HALE0151)	19-Jan-22	09:00	10:10	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	132 Honohono Street (D3-HONO0132)	19-Jan-22	08:16	10:10	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	133 Honohono Street (D3-HONO0133)	19-Jan-22	15:33	16:33	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	134 Honohono Street (D3-HONO0134)	19-Jan-22	08:32	10:32	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	135 Honohono Street (D3-HONO0135)	19-Jan-22	15:14	16:50	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	136 Honohono Street (D3-HONO0136)	19-Jan-22	09:37	10:26	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	137 Honohono Street (D3-HONO0137)	19-Jan-22	14:55	17:16	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	138 Honohono Street (D3-HONO0138)	19-Jan-22	10:37	17:17	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	139 Honohono Street (D3-HONO0139)	19-Jan-22	14:21	15:32	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	141 Honohono Street (D3-HONO0141)	19-Jan-22	13:43	14:54	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	142 Honohono Street (D3-HONO0142)	19-Jan-22	10:49	11:43	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	143 Honohono Street (D3-HONO0143)	19-Jan-22	13:30	14:21	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	144 Honohono Street (D3-HONO0144)	19-Jan-22	11:51	14:02	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	146 Honohono Street (D3-HONO0146)	19-Jan-22	08:27	11:02	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	148 Honohono Street (D3-HONO0148)	19-Jan-22	08:27	10:51	<input checked="" type="checkbox"/>		<input type="checkbox"/>	

Section 2b.1 Flushing Records and Distribution System Pressure Logs During Residential Flushing

Flushing Zone D3

2022-01-19 - 2023-01-20

Flushing Zone D3	181 Honohono Street (D3-HONO0181)	19-Jan-22	07:51	08:54	<input checked="" type="checkbox"/>
Flushing Zone D3	183 Honohono Street (D3-HONO0183)	19-Jan-22	08:03	10:55	<input checked="" type="checkbox"/>
Flushing Zone D3	185 Honohono Street (D3-HONO0185)	19-Jan-22	08:23	09:21	<input checked="" type="checkbox"/>
Flushing Zone D3	187 Honohono Street (D3-HONO0187)	19-Jan-22	08:23	10:59	<input checked="" type="checkbox"/>
Flushing Zone D3	189 Honohono Street (D3-HONO0189)	19-Jan-22	08:03	10:17	<input checked="" type="checkbox"/>
Flushing Zone D3	191 Honohono Street (D3-HONO0191)	19-Jan-22	09:03	11:29	<input checked="" type="checkbox"/>
Flushing Zone D3	94 Ilima Street (D3-ILIM0094)	19-Jan-22	12:01	14:37	<input checked="" type="checkbox"/>
Flushing Zone D3	96 Ilima Street (D3-ILIM0096)	19-Jan-22	10:55	13:37	<input checked="" type="checkbox"/>
Flushing Zone D3	97 Ilima Street (D3-ILIM0097)	19-Jan-22	11:20	12:49	<input checked="" type="checkbox"/>
Flushing Zone D3	99 Ilima Street (D3-ILIM0099)	19-Jan-22	10:47	13:57	<input checked="" type="checkbox"/>
Flushing Zone D3	102 Ilima Street (D3-ILIM0102)	19-Jan-22	15:54	17:04	<input checked="" type="checkbox"/>
Flushing Zone D3	104 Ilima Street (D3-ILIM0104)	19-Jan-22	15:30	17:28	<input checked="" type="checkbox"/>
Flushing Zone D3	106 Ilima Street (D3-ILIM0106)	19-Jan-22	15:00	17:28	<input checked="" type="checkbox"/>
Flushing Zone D3	108 Ilima Street (D3-ILIM0108)	19-Jan-22	13:00	15:54	<input checked="" type="checkbox"/>
Flushing Zone D3	112 Ilima Street (D3-ILIM0112)	19-Jan-22	15:55	17:03	<input checked="" type="checkbox"/>
Flushing Zone D3	114 Ilima Street (D3-ILIM0114)	20-Jan-22	10:00	11:17	<input checked="" type="checkbox"/>
Flushing Zone D3	116 Ilima Street (D3-ILIM0116)	19-Jan-22	11:21	15:23	<input checked="" type="checkbox"/>
Flushing Zone D3	118 Ilima Street (D3-ILIM0118)	19-Jan-22	10:00	13:22	<input checked="" type="checkbox"/>
Flushing Zone D3	121 Ilima Street (D3-ILIM0121)	19-Jan-22	10:50	12:58	<input checked="" type="checkbox"/>
Flushing Zone D3	123 Ilima Street (D3-ILIM0123)	19-Jan-22	10:53	13:00	<input checked="" type="checkbox"/>
Flushing Zone D3	125 Ilima Street (D3-ILIM0125)	19-Jan-22	10:50	13:02	<input checked="" type="checkbox"/>
Flushing Zone D3	127 Ilima Street (D3-ILIM0127)	19-Jan-22	08:16	10:46	<input checked="" type="checkbox"/>
Flushing Zone D3	131 Ilima Street (D3-ILIM0131)	19-Jan-22	08:41	10:43	<input checked="" type="checkbox"/>
Flushing Zone D3	133 Ilima Street (D3-ILIM0133)	19-Jan-22	08:20	10:23	<input checked="" type="checkbox"/>
Flushing Zone D3	135 Ilima Street (D3-ILIM0135)	19-Jan-22	08:30	10:23	<input checked="" type="checkbox"/>
Flushing Zone D3	137 Ilima Street (D3-ILIM0137)	19-Jan-22	08:40	10:25	<input checked="" type="checkbox"/>
Flushing Zone D3	702 Kikanai Loop (D3-KIKA0702)	20-Jan-22	08:30	10:39	<input checked="" type="checkbox"/>
Flushing Zone D3	703 Kikanai Loop (D3-KIKA0703)	20-Jan-22	10:57	13:08	<input checked="" type="checkbox"/>
Flushing Zone D3	704 Kikanai Loop (D3-KIKA0704)	20-Jan-22	11:15	13:04	<input checked="" type="checkbox"/>
Flushing Zone D3	705 Kikanai Loop (D3-KIKA0705)	20-Jan-22	11:31	12:56	<input checked="" type="checkbox"/>
Flushing Zone D3	706 Kikanai Loop (D3-KIKA0706)	20-Jan-22	08:59	11:24	<input checked="" type="checkbox"/>
Flushing Zone D3	707 Kikanai Loop (D3-KIKA0707)	20-Jan-22	08:29	11:16	<input checked="" type="checkbox"/>
Flushing Zone D3	708 Kikanai Loop (D3-KIKA0708)	20-Jan-22	08:35	13:52	<input checked="" type="checkbox"/>
Flushing Zone D3	709 Kikanai Loop (D3-KIKA0709)	20-Jan-22	11:30	13:44	<input checked="" type="checkbox"/>
Flushing Zone D3	712 Kikanai Loop (D3-KIKA0712)	20-Jan-22	10:52	12:42	<input checked="" type="checkbox"/>
Flushing Zone D3	714 Kikanai Loop (D3-KIKA0714)	20-Jan-22	08:50	10:23	<input checked="" type="checkbox"/>
Flushing Zone D3	716 Kikanai Loop (D3-KIKA0716)	20-Jan-22	10:25	11:41	<input checked="" type="checkbox"/>
Flushing Zone D3	718 Kikanai Loop (D3-KIKA0718)	20-Jan-22	11:34	13:08	<input checked="" type="checkbox"/>
Flushing Zone D3	722 Kikanai Loop (D3-KIKA0722)	20-Jan-22	08:28	10:40	<input checked="" type="checkbox"/>
Flushing Zone D3	724 Kikanai Loop (D3-KIKA0724)	20-Jan-22	08:30	11:20	<input checked="" type="checkbox"/>
Flushing Zone D3	726 Kikanai Loop (D3-KIKA0726)	20-Jan-22	10:42	12:41	<input checked="" type="checkbox"/>
Flushing Zone D3	728 Kikanai Loop (D3-KIKA0728)	20-Jan-22	08:30	12:13	<input checked="" type="checkbox"/>
Flushing Zone D3	732 Kikanai Loop (D3-KIKA0732)	20-Jan-22	08:30	11:14	<input checked="" type="checkbox"/>
Flushing Zone D3	734 Kikanai Loop (D3-KIKA0734)	20-Jan-22	11:15	14:38	<input checked="" type="checkbox"/>
Flushing Zone D3	736 Kikanai Loop (D3-KIKA0736)	20-Jan-22	11:00	13:18	<input checked="" type="checkbox"/>
Flushing Zone D3	738 Kikanai Loop (D3-KIKA0738)	20-Jan-22	10:00	11:56	<input checked="" type="checkbox"/>
Flushing Zone D3	742 Kikanai Loop (D3-KIKA0742)	20-Jan-22	08:00	11:51	<input checked="" type="checkbox"/>
Flushing Zone D3	744 Kikanai Loop (D3-KIKA0744)	20-Jan-22	20:54	11:29	<input checked="" type="checkbox"/>
Flushing Zone D3	746 Kikanai Loop (D3-KIKA0746)	20-Jan-22	20:30	11:31	<input checked="" type="checkbox"/>
Flushing Zone D3	748 Kikanai Loop (D3-KIKA0748)	20-Jan-22	08:40	10:08	<input checked="" type="checkbox"/>
Flushing Zone D3	752 Kikanai Loop (D3-KIKA0752)	20-Jan-22	08:40	11:10	<input checked="" type="checkbox"/>
Flushing Zone D3	753 Kikanai Loop (D3-KIKA0753)	20-Jan-22	09:10	11:15	<input checked="" type="checkbox"/>
Flushing Zone D3	754 Kikanai Loop (D3-KIKA0754)	20-Jan-22	08:35	11:05	<input checked="" type="checkbox"/>
Flushing Zone D3	755 Kikanai Loop (D3-KIKA0755)	20-Jan-22	08:41	11:12	<input checked="" type="checkbox"/>
Flushing Zone D3	756 Kikanai Loop (D3-KIKA0756)	20-Jan-22	08:36	11:02	<input checked="" type="checkbox"/>
Flushing Zone D3	757 Kikanai Loop (D3-KIKA0757)	20-Jan-22	08:45	14:06	<input checked="" type="checkbox"/>
Flushing Zone D3	758 Kikanai Loop (D3-KIKA0758)	20-Jan-22	11:10	14:07	<input checked="" type="checkbox"/>
Flushing Zone D3	759 Kikanai Loop (D3-KIKA0759)	20-Jan-22	08:30	14:07	<input checked="" type="checkbox"/>
Flushing Zone D3	72 Kokio Lane (D3-KOK0072)	19-Jan-22	08:03	10:05	<input checked="" type="checkbox"/>
Flushing Zone D3	74 Kokio Lane (D3-KOK0074)	19-Jan-22	10:44	12:13	<input checked="" type="checkbox"/>
Flushing Zone D3	76 Kokio Lane (D3-KOK0076)	19-Jan-22	10:45	12:41	<input checked="" type="checkbox"/>
Flushing Zone D3	78 Kokio Lane (D3-KOK0078)	19-Jan-22	08:47	10:04	<input checked="" type="checkbox"/>
Flushing Zone D3	82 Kokio Lane (D3-KOK0082)	19-Jan-22	10:05	12:13	<input checked="" type="checkbox"/>

Section 2b.1 Flushing Records and Distribution System Pressure Logs During Residential Flushing

Flushing Zone D3

2022-01-19 - 2023-01-20

Flushing Zone D3	84 Kokio Lane (D3-KOK(0084)	19-Jan-22	15:45	16:55	<input checked="" type="checkbox"/>
Flushing Zone D3	86 Kokio Lane (D3-KOK(0086)	19-Jan-22	14:25	15:32	<input checked="" type="checkbox"/>
Flushing Zone D3	88 Kokio Lane (D3-KOK(0088)	19-Jan-22	15:32	16:13	<input checked="" type="checkbox"/>
Flushing Zone D3	101 Kokomalei Street (D3-KOKO0101)	19-Jan-22	09:35	12:16	<input checked="" type="checkbox"/>
Flushing Zone D3	102 Kokomalei Street (D3-KOKO0102)	19-Jan-22	08:08	11:00	<input checked="" type="checkbox"/>
Flushing Zone D3	103 Kokomalei Street (D3-KOKO0103)	19-Jan-22	08:15	09:35	<input checked="" type="checkbox"/>
Flushing Zone D3	104 Kokomalei Street (D3-KOKO0104)	19-Jan-22	08:33	11:06	<input checked="" type="checkbox"/>
Flushing Zone D3	105 Kokomalei Street (D3-KOKO0105)	19-Jan-22	08:32	10:38	<input checked="" type="checkbox"/>
Flushing Zone D3	106 Kokomalei Street (D3-KOKO0106)	19-Jan-22	11:10	13:27	<input checked="" type="checkbox"/>
Flushing Zone D3	107 Kokomalei Street (D3-KOKO0107)	19-Jan-22	10:38	12:44	<input checked="" type="checkbox"/>
Flushing Zone D3	108 Kokomalei Street (D3-KOKO0108)	19-Jan-22	11:32	13:24	<input checked="" type="checkbox"/>
Flushing Zone D3	111 Kokomalei Street (D3-KOKO0111)	19-Jan-22	13:30	14:58	<input checked="" type="checkbox"/>
Flushing Zone D3	112 Kokomalei Street (D3-KOKO0112)	19-Jan-22	13:27	14:33	<input checked="" type="checkbox"/>
Flushing Zone D3	113 Kokomalei Street (D3-KOKO0113)	19-Jan-22	08:07	13:39	<input checked="" type="checkbox"/>
Flushing Zone D3	114 Kokomalei Street (D3-KOKO0114)	19-Jan-22	13:39	16:36	<input checked="" type="checkbox"/>
Flushing Zone D3	115 Kokomalei Street (D3-KOKO0115)	19-Jan-22	08:00	12:11	<input checked="" type="checkbox"/>
Flushing Zone D3	116 Kokomalei Street (D3-KOKO0116)	19-Jan-22	07:57	13:36	<input checked="" type="checkbox"/>
Flushing Zone D3	117 Kokomalei Street (D3-KOKO0117)	19-Jan-22	12:00	15:08	<input checked="" type="checkbox"/>
Flushing Zone D3	118 Kokomalei Street (D3-KOKO0118)	19-Jan-22	08:39	13:36	<input checked="" type="checkbox"/>
Flushing Zone D3	121 Kokomalei Street (D3-KOKO0121)	19-Jan-22	12:00	15:32	<input checked="" type="checkbox"/>
Flushing Zone D3	122 Kokomalei Street (D3-KOKO0122)	19-Jan-22	11:31	13:38	<input checked="" type="checkbox"/>
Flushing Zone D3	123 Kokomalei Street (D3-KOKO0123)	19-Jan-22	10:33	12:57	<input checked="" type="checkbox"/>
Flushing Zone D3	124 Kokomalei Street (D3-KOKO0124)	19-Jan-22	11:13	13:23	<input checked="" type="checkbox"/>
Flushing Zone D3	125 Kokomalei Street (D3-KOKO0125)	19-Jan-22	08:21	10:14	<input checked="" type="checkbox"/>
Flushing Zone D3	126 Kokomalei Street (D3-KOKO0126)	19-Jan-22	13:50	16:08	<input checked="" type="checkbox"/>
Flushing Zone D3	127 Kokomalei Street (D3-KOKO0127)	19-Jan-22	08:32	11:13	<input checked="" type="checkbox"/>
Flushing Zone D3	128 Kokomalei Street (D3-KOKO0128)	19-Jan-22	08:20	09:31	<input checked="" type="checkbox"/>
Flushing Zone D3	131 Kokomalei Street (D3-KOKO0131)	19-Jan-22	10:45	14:22	<input checked="" type="checkbox"/>
Flushing Zone D3	132 Kokomalei Street (D3-KOKO0132)	19-Jan-22	09:32	11:30	<input checked="" type="checkbox"/>
Flushing Zone D3	133 Kokomalei Street (D3-KOKO0133)	19-Jan-22	12:36	14:26	<input checked="" type="checkbox"/>
Flushing Zone D3	134 Kokomalei Street (D3-KOKO0134)	19-Jan-22	10:31	11:54	<input checked="" type="checkbox"/>
Flushing Zone D3	135 Kokomalei Street (D3-KOKO0135)	19-Jan-22	13:01	14:59	<input checked="" type="checkbox"/>
Flushing Zone D3	136 Kokomalei Street (D3-KOKO0136)	19-Jan-22	15:10	16:03	<input checked="" type="checkbox"/>
Flushing Zone D3	137 Kokomalei Street (D3-KOKO0137)	19-Jan-22	14:23	17:25	<input checked="" type="checkbox"/>
Flushing Zone D3	138 Kokomalei Street (D3-KOKO0138)	19-Jan-22	12:20	13:39	<input checked="" type="checkbox"/>
Flushing Zone D3	141 Kokomalei Street (D3-KOKO0141)	19-Jan-22	11:23	13:33	<input checked="" type="checkbox"/>
Flushing Zone D3	143 Kokomalei Street (D3-KOKO0143)	19-Jan-22	11:24	12:50	<input checked="" type="checkbox"/>
Flushing Zone D3	145 Kokomalei Street (D3-KOKO0145)	19-Jan-22	08:00	10:30	<input checked="" type="checkbox"/>
Flushing Zone D3	147 Kokomalei Street (D3-KOKO0147)	19-Jan-22	08:46	11:30	<input checked="" type="checkbox"/>
Flushing Zone D3	151 Kokomalei Street (D3-KOKO0151)	19-Jan-22	14:02	16:39	<input checked="" type="checkbox"/>
Flushing Zone D3	153 Kokomalei Street (D3-KOKO0153)	19-Jan-22	14:03	16:43	<input checked="" type="checkbox"/>
Flushing Zone D3	155 Kokomalei Street (D3-KOKO0155)	19-Jan-22	16:19	18:29	<input checked="" type="checkbox"/>
Flushing Zone D3	157 Kokomalei Street (D3-KOKO0157)	19-Jan-22	16:45	18:29	<input checked="" type="checkbox"/>
Flushing Zone D3	161 Kokomalei Street (D3-KOKO0161)	19-Jan-22	14:00	17:20	<input checked="" type="checkbox"/>
Flushing Zone D3	163 Kokomalei Street (D3-KOKO0163)	19-Jan-22	15:07	13:35	<input checked="" type="checkbox"/>
Flushing Zone D3	165 Kokomalei Street (D3-KOKO0165)	20-Jan-22	10:00	11:12	<input checked="" type="checkbox"/>
Flushing Zone D3	167 Kokomalei Street (D3-KOKO0167)	19-Jan-22	16:30	17:43	<input checked="" type="checkbox"/>
Flushing Zone D3	171 Kokomalei Street (D3-KOKO0171)	19-Jan-22	15:01	17:27	<input checked="" type="checkbox"/>
Flushing Zone D3	173 Kokomalei Street (D3-KOKO0173)	19-Jan-22	16:27	18:46	<input checked="" type="checkbox"/>
Flushing Zone D3	175 Kokomalei Street (D3-KOKO0175)	19-Jan-22	16:48	18:11	<input checked="" type="checkbox"/>
Flushing Zone D3	177 Kokomalei Street (D3-KOKO0177)	19-Jan-22	16:47	17:53	<input checked="" type="checkbox"/>
Flushing Zone D3	111 Kopiko Street (D3-KOPI0111)	19-Jan-22	12:59	13:51	<input checked="" type="checkbox"/>
Flushing Zone D3	112 Kopiko Street (D3-KOPI0112)	19-Jan-22	12:59	13:52	<input checked="" type="checkbox"/>
Flushing Zone D3	113 Kopiko Street (D3-KOPI0113)	19-Jan-22	13:03	14:01	<input checked="" type="checkbox"/>
Flushing Zone D3	114 Kopiko Street (D3-KOPI0114)	19-Jan-22	14:04	15:08	<input checked="" type="checkbox"/>
Flushing Zone D3	115 Kopiko Street (D3-KOPI0115)	19-Jan-22	13:20	14:24	<input checked="" type="checkbox"/>
Flushing Zone D3	116 Kopiko Street (D3-KOPI0116)	19-Jan-22	14:20	17:06	<input checked="" type="checkbox"/>
Flushing Zone D3	117 Kopiko Street (D3-KOPI0117)	19-Jan-22	13:19	15:07	<input checked="" type="checkbox"/>
Flushing Zone D3	118 Kopiko Street (D3-KOPI0118)	19-Jan-22	13:19	15:06	<input checked="" type="checkbox"/>
Flushing Zone D3	120 Kopiko Street (D3-KOPI0120)	19-Jan-22	13:19	15:07	<input checked="" type="checkbox"/>
Flushing Zone D3	121 Kopiko Street (D3-KOPI0121)	19-Jan-22	13:19	17:08	<input checked="" type="checkbox"/>
Flushing Zone D3	122 Kopiko Street (D3-KOPI0122)	19-Jan-22	12:50	14:35	<input checked="" type="checkbox"/>
Flushing Zone D3	123 Kopiko Street (D3-KOPI0123)	19-Jan-22	14:46	15:58	<input checked="" type="checkbox"/>

Section 2b.1 Flushing Records and Distribution System Pressure Logs During Residential Flushing

Flushing Zone D3

2022-01-19 - 2023-01-20

Flushing Zone D3	125 Kopiko Street (D3-KOPI0125)	19-Jan-22	14:47	15:56	<input checked="" type="checkbox"/>
Flushing Zone D3	127 Kopiko Street (D3-KOPI0127)	19-Jan-22	12:55	14:46	<input checked="" type="checkbox"/>
Flushing Zone D3	131 Kopiko Street (D3-KOPI0131)	19-Jan-22	13:26	14:25	<input checked="" type="checkbox"/>
Flushing Zone D3	133 Kopiko Street (D3-KOPI0133)	19-Jan-22	13:27	14:25	<input checked="" type="checkbox"/>
Flushing Zone D3	135 Kopiko Street (D3-KOPI0135)	19-Jan-22	14:50	15:53	<input checked="" type="checkbox"/>
Flushing Zone D3	137 Kopiko Street (D3-KOPI0137)	19-Jan-22	14:26	15:53	<input checked="" type="checkbox"/>
Flushing Zone D3	301 Lehua Lane (D3-LEHU0301)	19-Jan-22	11:15	13:14	<input checked="" type="checkbox"/>
Flushing Zone D3	302 Lehua Lane (D3-LEHU0302)	19-Jan-22	11:20	13:15	<input checked="" type="checkbox"/>
Flushing Zone D3	303 Lehua Lane (D3-LEHU0303)	19-Jan-22	11:25	13:16	<input checked="" type="checkbox"/>
Flushing Zone D3	304 Lehua Lane (D3-LEHU0304)	19-Jan-22	11:35	13:17	<input checked="" type="checkbox"/>
Flushing Zone D3	305 Lehua Lane (D3-LEHU0305)	19-Jan-22	14:18	16:44	<input checked="" type="checkbox"/>
Flushing Zone D3	306 Lehua Lane (D3-LEHU0306)	19-Jan-22	14:50	16:41	<input checked="" type="checkbox"/>
Flushing Zone D3	307 Lehua Lane (D3-LEHU0307)	19-Jan-22	13:24	17:17	<input checked="" type="checkbox"/>
Flushing Zone D3	308 Lehua Lane (D3-LEHU0308)	19-Jan-22	14:50	16:41	<input checked="" type="checkbox"/>
Flushing Zone D3	311 Lehua Lane (D3-LEHU0311)	19-Jan-22	12:30	16:30	<input checked="" type="checkbox"/>
Flushing Zone D3	312 Lehua Lane (D3-LEHU0312)	19-Jan-22	11:00	14:46	<input checked="" type="checkbox"/>
Flushing Zone D3	313 Lehua Lane (D3-LEHU0313)	19-Jan-22	11:00	16:30	<input checked="" type="checkbox"/>
Flushing Zone D3	314 Lehua Lane (D3-LEHU0314)	19-Jan-22	11:00	14:48	<input checked="" type="checkbox"/>
Flushing Zone D3	315 Lehua Lane (D3-LEHU0315)	19-Jan-22	09:00	12:15	<input checked="" type="checkbox"/>
Flushing Zone D3	316 Lehua Lane (D3-LEHU0316)	19-Jan-22	08:52	14:49	<input checked="" type="checkbox"/>
Flushing Zone D3	317 Lehua Lane (D3-LEHU0317)	19-Jan-22	08:17	10:55	<input checked="" type="checkbox"/>
Flushing Zone D3	318 Lehua Lane (D3-LEHU0318)	19-Jan-22	08:17	14:49	<input checked="" type="checkbox"/>
Flushing Zone D3	251 Lilia Street (D3-LILI0251)	19-Jan-22	09:00	11:04	<input checked="" type="checkbox"/>
Flushing Zone D3	253 Lilia Street (D3-LILI0253)	19-Jan-22	09:00	11:06	<input checked="" type="checkbox"/>
Flushing Zone D3	255 Lilia Street (D3-LILI0255)	19-Jan-22	23:36	12:38	<input checked="" type="checkbox"/>
Flushing Zone D3	257 Lilia Street (D3-LILI0257)	19-Jan-22	08:03	10:03	<input checked="" type="checkbox"/>
Flushing Zone D3	111 Liliwai Street (D3-LILI0111)	19-Jan-22	07:50	12:58	<input checked="" type="checkbox"/>
Flushing Zone D3	113 Liliwai Street (D3-LILI0113)	19-Jan-22	11:14	13:01	<input checked="" type="checkbox"/>
Flushing Zone D3	115 Liliwai Street (D3-LILI0115)	19-Jan-22	09:11	11:02	<input checked="" type="checkbox"/>
Flushing Zone D3	117 Liliwai Street (D3-LILI0117)	19-Jan-22	07:56	09:34	<input checked="" type="checkbox"/>
Flushing Zone D3	121 Liliwai Street (D3-LILI0121)	19-Jan-22	09:00	13:28	<input checked="" type="checkbox"/>
Flushing Zone D3	123 Liliwai Street (D3-LILI0123)	19-Jan-22	09:00	13:28	<input checked="" type="checkbox"/>
Flushing Zone D3	125 Liliwai Street (D3-LILI0125)	19-Jan-22	09:00	15:35	<input checked="" type="checkbox"/>
Flushing Zone D3	127 Liliwai Street (D3-LILI0127)	19-Jan-22	08:00	10:35	<input checked="" type="checkbox"/>
Flushing Zone D3	131 Liliwai Street (D3-LILI0131)	19-Jan-22	10:00	13:29	<input checked="" type="checkbox"/>
Flushing Zone D3	133 Liliwai Street (D3-LILI0133)	19-Jan-22	09:00	11:09	<input checked="" type="checkbox"/>
Flushing Zone D3	135 Liliwai Street (D3-LILI0135)	19-Jan-22	08:00	10:05	<input checked="" type="checkbox"/>
Flushing Zone D3	137 Liliwai Street (D3-LILI0137)	19-Jan-22	08:00	10:23	<input checked="" type="checkbox"/>
Flushing Zone D3	141 Liliwai Street (D3-LILI0141)	19-Jan-22	10:30	11:34	<input checked="" type="checkbox"/>
Flushing Zone D3	143 Liliwai Street (D3-LILI0143)	19-Jan-22	09:00	10:49	<input checked="" type="checkbox"/>
Flushing Zone D3	145 Liliwai Street (D3-LILI0145)	19-Jan-22	09:20	10:51	<input checked="" type="checkbox"/>
Flushing Zone D3	147 Liliwai Street (D3-LILI0147)	19-Jan-22	08:00	09:50	<input checked="" type="checkbox"/>
Flushing Zone D3	152 Liliwai Street (D3-LILI0152)	19-Jan-22	08:00	09:51	<input checked="" type="checkbox"/>
Flushing Zone D3	154 Liliwai Street (D3-LILI0154)	19-Jan-22	08:20	10:26	<input checked="" type="checkbox"/>
Flushing Zone D3	156 Liliwai Street (D3-LILI0156)	19-Jan-22	08:31	10:33	<input checked="" type="checkbox"/>
Flushing Zone D3	158 Liliwai Street (D3-LILI0158)	19-Jan-22	08:44	10:34	<input checked="" type="checkbox"/>
Flushing Zone D3	162 Liliwai Street (D3-LILI0162)	19-Jan-22	07:59	10:17	<input checked="" type="checkbox"/>
Flushing Zone D3	164 Liliwai Street (D3-LILI0164)	19-Jan-22	08:17	10:18	<input checked="" type="checkbox"/>
Flushing Zone D3	166 Liliwai Street (D3-LILI0166)	19-Jan-22	10:28	12:07	<input checked="" type="checkbox"/>
Flushing Zone D3	168 Liliwai Street (D3-LILI0168)	19-Jan-22	10:54	12:30	<input checked="" type="checkbox"/>
Flushing Zone D3	172 Liliwai Street (D3-LILI0172)	19-Jan-22	07:56	09:18	<input checked="" type="checkbox"/>
Flushing Zone D3	174 Liliwai Street (D3-LILI0174)	19-Jan-22	08:23	09:59	<input checked="" type="checkbox"/>
Flushing Zone D3	176 Liliwai Street (D3-LILI0176)	19-Jan-22	09:23	10:43	<input checked="" type="checkbox"/>
Flushing Zone D3	178 Liliwai Street (D3-LILI0178)	19-Jan-22	10:01	11:24	<input checked="" type="checkbox"/>
Flushing Zone D3	1010 Makalika Loop (D3-MAKA1010)	19-Jan-22	13:00	15:29	<input checked="" type="checkbox"/>
Flushing Zone D3	1012 Makalika Loop (D3-MAKA1012)	20-Jan-22	08:00	14:37	<input checked="" type="checkbox"/>
Flushing Zone D3	1014 Makalika Loop (D3-MAKA1014)	19-Jan-22	16:00	17:09	<input checked="" type="checkbox"/>
Flushing Zone D3	1016 Makalika Loop (D3-MAKA1016)	19-Jan-22	15:00	15:59	<input checked="" type="checkbox"/>
Flushing Zone D3	1018 Makalika Loop (D3-MAKA1018)	20-Jan-22	16:00	16:36	<input checked="" type="checkbox"/>
Flushing Zone D3	1020 Makalika Loop (D3-MAKA1020)	19-Jan-22	15:00	16:43	<input checked="" type="checkbox"/>
Flushing Zone D3	1022 Makalika Loop (D3-MAKA1022)	19-Jan-22	16:57	16:59	<input checked="" type="checkbox"/>
Flushing Zone D3	1024 Makalika Loop (D3-MAKA1024)	19-Jan-22	13:22	16:24	<input checked="" type="checkbox"/>
Flushing Zone D3	1026 Makalika Loop (D3-MAKA1026)	20-Jan-22	10:00	11:52	<input checked="" type="checkbox"/>

Section 2b.1 Flushing Records and Distribution System Pressure Logs During Residential Flushing

Flushing Zone D3

2022-01-19 - 2023-01-20

Flushing Zone D3	1028 Makalka Loop (D3-MAKA1028)	20-Jan-22	08:00	14:36	<input checked="" type="checkbox"/>
Flushing Zone D3	1030 Makalka Loop (D3-MAKA1030)	19-Jan-22	14:00	15:41	<input checked="" type="checkbox"/>
Flushing Zone D3	1032 Makalka Loop (D3-MAKA1032)	19-Jan-22	14:00	15:42	<input checked="" type="checkbox"/>
Flushing Zone D3	1034 Makalka Loop (D3-MAKA1034)	19-Jan-22	13:00	14:54	<input checked="" type="checkbox"/>
Flushing Zone D3	1036 Makalka Loop (D3-MAKA1036)	19-Jan-22	14:00	17:08	<input checked="" type="checkbox"/>
Flushing Zone D3	1038 Makalka Loop (D3-MAKA1038)	19-Jan-22	13:00	14:52	<input checked="" type="checkbox"/>
Flushing Zone D3	1040 Makalka Loop (D3-MAKA1040)	19-Jan-22	13:00	14:51	<input checked="" type="checkbox"/>
Flushing Zone D3	201 Melia Street (D3-MELI0201)	19-Jan-22	10:00	13:03	<input checked="" type="checkbox"/>
Flushing Zone D3	202 Melia Street (D3-MELI0202)	19-Jan-22	12:00	14:15	<input checked="" type="checkbox"/>
Flushing Zone D3	203 Melia Street (D3-MELI0203)	19-Jan-22	10:00	13:04	<input checked="" type="checkbox"/>
Flushing Zone D3	204 Melia Street (D3-MELI0204)	19-Jan-22	12:00	14:16	<input checked="" type="checkbox"/>
Flushing Zone D3	205 Melia Street (D3-MELI0205)	19-Jan-22	16:00	19:02	<input checked="" type="checkbox"/>
Flushing Zone D3	206 Melia Street (D3-MELI0206)	19-Jan-22	12:00	14:17	<input checked="" type="checkbox"/>
Flushing Zone D3	207 Melia Street (D3-MELI0207)	19-Jan-22	11:00	13:05	<input checked="" type="checkbox"/>
Flushing Zone D3	208 Melia Street (D3-MELI0208)	19-Jan-22	12:00	14:18	<input checked="" type="checkbox"/>
Flushing Zone D3	211 Melia Street (D3-MELI0211)	19-Jan-22	13:00	15:08	<input checked="" type="checkbox"/>
Flushing Zone D3	212 Melia Street (D3-MELI0212)	19-Jan-22	12:00	13:07	<input checked="" type="checkbox"/>
Flushing Zone D3	213 Melia Street (D3-MELI0213)	19-Jan-22	13:00	15:09	<input checked="" type="checkbox"/>
Flushing Zone D3	214 Melia Street (D3-MELI0214)	19-Jan-22	11:00	15:31	<input checked="" type="checkbox"/>
Flushing Zone D3	215 Melia Street (D3-MELI0215)	19-Jan-22	13:00	15:13	<input checked="" type="checkbox"/>
Flushing Zone D3	216 Melia Street (D3-MELI0216)	19-Jan-22	12:00	15:32	<input checked="" type="checkbox"/>
Flushing Zone D3	217 Melia Street (D3-MELI0217)	19-Jan-22	13:00	15:14	<input checked="" type="checkbox"/>
Flushing Zone D3	218 Melia Street (D3-MELI0218)	19-Jan-22	15:00	17:06	<input checked="" type="checkbox"/>
Flushing Zone D3	221 Melia Street (D3-MELI0221)	19-Jan-22	08:00	09:40	<input checked="" type="checkbox"/>
Flushing Zone D3	222 Melia Street (D3-MELI0222)	19-Jan-22	07:50	11:28	<input checked="" type="checkbox"/>
Flushing Zone D3	223 Melia Street (D3-MELI0223)	19-Jan-22	08:00	11:31	<input checked="" type="checkbox"/>
Flushing Zone D3	224 Melia Street (D3-MELI0224)	19-Jan-22	08:00	11:29	<input checked="" type="checkbox"/>
Flushing Zone D3	225 Melia Street (D3-MELI0225)	19-Jan-22	09:45	11:29	<input checked="" type="checkbox"/>
Flushing Zone D3	226 Melia Street (D3-MELI0226)	19-Jan-22	09:15	11:27	<input checked="" type="checkbox"/>
Flushing Zone D3	227 Melia Street (D3-MELI0227)	19-Jan-22	08:00	11:10	<input checked="" type="checkbox"/>
Flushing Zone D3	228 Melia Street (D3-MELI0228)	19-Jan-22	09:25	11:30	<input checked="" type="checkbox"/>
Flushing Zone D3	231 Melia Street (D3-MELI0231)	19-Jan-22	08:13	09:17	<input checked="" type="checkbox"/>
Flushing Zone D3	232 Melia Street (D3-MELI0232)	19-Jan-22	11:55	13:39	<input checked="" type="checkbox"/>
Flushing Zone D3	233 Melia Street (D3-MELI0233)	19-Jan-22	08:23	09:12	<input checked="" type="checkbox"/>
Flushing Zone D3	234 Melia Street (D3-MELI0234)	19-Jan-22	12:00	13:43	<input checked="" type="checkbox"/>
Flushing Zone D3	235 Melia Street (D3-MELI0235)	19-Jan-22	09:28	10:41	<input checked="" type="checkbox"/>
Flushing Zone D3	236 Melia Street (D3-MELI0236)	19-Jan-22	10:26	11:51	<input checked="" type="checkbox"/>
Flushing Zone D3	237 Melia Street (D3-MELI0237)	19-Jan-22	09:28	10:34	<input checked="" type="checkbox"/>
Flushing Zone D3	238 Melia Street (D3-MELI0238)	19-Jan-22	08:08	13:40	<input checked="" type="checkbox"/>
Flushing Zone D3	241 Melia Street (D3-MELI0241)	19-Jan-22	10:00	11:30	<input checked="" type="checkbox"/>
Flushing Zone D3	242 Melia Street (D3-MELI0242)	19-Jan-22	08:09	09:25	<input checked="" type="checkbox"/>
Flushing Zone D3	243 Melia Street (D3-MELI0243)	19-Jan-22	10:08	11:31	<input checked="" type="checkbox"/>
Flushing Zone D3	244 Melia Street (D3-MELI0244)	19-Jan-22	08:20	09:52	<input checked="" type="checkbox"/>
Flushing Zone D3	245 Melia Street (D3-MELI0245)	19-Jan-22	12:00	13:32	<input checked="" type="checkbox"/>
Flushing Zone D3	246 Melia Street (D3-MELI0246)	19-Jan-22	09:40	13:41	<input checked="" type="checkbox"/>
Flushing Zone D3	247 Melia Street (D3-MELI0247)	19-Jan-22	12:00	13:40	<input checked="" type="checkbox"/>
Flushing Zone D3	248 Melia Street (D3-MELI0248)	19-Jan-22	09:50	11:27	<input checked="" type="checkbox"/>
Flushing Zone D3	301 Melia Street (D3-MELI0301)	19-Jan-22	08:00	10:57	<input checked="" type="checkbox"/>
Flushing Zone D3	303 Melia Street (D3-MELI0303)	19-Jan-22	10:58	12:30	<input checked="" type="checkbox"/>
Flushing Zone D3	305 Melia Street (D3-MELI0305)	19-Jan-22	10:59	12:49	<input checked="" type="checkbox"/>
Flushing Zone D3	307 Melia Street (D3-MELI0307)	19-Jan-22	12:50	13:49	<input checked="" type="checkbox"/>
Flushing Zone D3	311 Melia Street (D3-MELI0311)	19-Jan-22	11:30	13:50	<input checked="" type="checkbox"/>
Flushing Zone D3	313 Melia Street (D3-MELI0313)	19-Jan-22	13:00	13:44	<input checked="" type="checkbox"/>
Flushing Zone D3	315 Melia Street (D3-MELI0315)	19-Jan-22	13:49	15:10	<input checked="" type="checkbox"/>
Flushing Zone D3	317 Melia Street (D3-MELI0317)	19-Jan-22	15:14	16:43	<input checked="" type="checkbox"/>
Flushing Zone D3	332 Melia Street (D3-MELI0332)	19-Jan-22	16:27	18:03	<input checked="" type="checkbox"/>
Flushing Zone D3	334 Melia Street (D3-MELI0334)	19-Jan-22	16:27	18:04	<input checked="" type="checkbox"/>
Flushing Zone D3	336 Melia Street (D3-MELI0336)	19-Jan-22	14:15	18:12	<input checked="" type="checkbox"/>
Flushing Zone D3	338 Melia Street (D3-MELI0338)	19-Jan-22	14:06	16:21	<input checked="" type="checkbox"/>
Flushing Zone D3	341 Melia Street (D3-MELI0341)	19-Jan-22	12:00	15:20	<input checked="" type="checkbox"/>
Flushing Zone D3	342 Melia Street (D3-MELI0342)	19-Jan-22	14:50	16:14	<input checked="" type="checkbox"/>
Flushing Zone D3	343 Melia Street (D3-MELI0343)	19-Jan-22	12:08	14:10	<input checked="" type="checkbox"/>
Flushing Zone D3	344 Melia Street (D3-MELI0344)	19-Jan-22	14:50	16:13	<input checked="" type="checkbox"/>

Section 2b.1 Flushing Records and Distribution System Pressure Logs During Residential Flushing

Flushing Zone D3

2022-01-19 - 2023-01-20

Flushing Zone D3	345 Melia Street (D3-MELI0345)	19-Jan-22	15:00	16:36	<input checked="" type="checkbox"/>
Flushing Zone D3	346 Melia Street (D3-MELI0346)	19-Jan-22	16:20	17:02	<input checked="" type="checkbox"/>
Flushing Zone D3	347 Melia Street (D3-MELI0347)	19-Jan-22	14:18	15:59	<input checked="" type="checkbox"/>
Flushing Zone D3	348 Melia Street (D3-MELI0348)	19-Jan-22	16:20	19:07	<input checked="" type="checkbox"/>
Flushing Zone D3	351 Melia Street (D3-MELI0351)	19-Jan-22	14:05	15:55	<input checked="" type="checkbox"/>
Flushing Zone D3	352 Melia Street (D3-MELI0352)	19-Jan-22	16:00	17:19	<input checked="" type="checkbox"/>
Flushing Zone D3	353 Melia Street (D3-MELI0353)	19-Jan-22	14:08	15:44	<input checked="" type="checkbox"/>
Flushing Zone D3	354 Melia Street (D3-MELI0354)	19-Jan-22	16:00	18:11	<input checked="" type="checkbox"/>
Flushing Zone D3	355 Melia Street (D3-MELI0355)	19-Jan-22	15:10	16:13	<input checked="" type="checkbox"/>
Flushing Zone D3	356 Melia Street (D3-MELI0356)	19-Jan-22	16:00	18:05	<input checked="" type="checkbox"/>
Flushing Zone D3	357 Melia Street (D3-MELI0357)	19-Jan-22	15:30	16:42	<input checked="" type="checkbox"/>
Flushing Zone D3	358 Melia Street (D3-MELI0358)	19-Jan-22	16:00	18:17	<input checked="" type="checkbox"/>
Flushing Zone D3	881 Nanu Street (D3-NANU0881)	19-Jan-22	12:37	14:43	<input checked="" type="checkbox"/>
Flushing Zone D3	882 Nanu Street (D3-NANU0882)	19-Jan-22	12:56	14:36	<input checked="" type="checkbox"/>
Flushing Zone D3	883 Nanu Street (D3-NANU0883)	19-Jan-22	12:31	14:44	<input checked="" type="checkbox"/>
Flushing Zone D3	884 Nanu Street (D3-NANU0884)	19-Jan-22	12:43	14:29	<input checked="" type="checkbox"/>
Flushing Zone D3	885 Nanu Street (D3-NANU0885)	20-Jan-22	09:00	10:11	<input checked="" type="checkbox"/>
Flushing Zone D3	886 Nanu Street (D3-NANU0886)	19-Jan-22	12:00	13:29	<input checked="" type="checkbox"/>
Flushing Zone D3	887 Nanu Street (D3-NANU0887)	19-Jan-22	12:00	14:45	<input checked="" type="checkbox"/>
Flushing Zone D3	888 Nanu Street (D3-NANU0888)	19-Jan-22	12:07	13:26	<input checked="" type="checkbox"/>
Flushing Zone D3	891 Nanu Street (D3-NANU0891)	19-Jan-22	13:21	15:21	<input checked="" type="checkbox"/>
Flushing Zone D3	893 Nanu Street (D3-NANU0893)	19-Jan-22	13:58	15:16	<input checked="" type="checkbox"/>
Flushing Zone D3	895 Nanu Street (D3-NANU0895)	19-Jan-22	14:00	15:13	<input checked="" type="checkbox"/>
Flushing Zone D3	897 Nanu Street (D3-NANU0897)	19-Jan-22	13:30	15:56	<input checked="" type="checkbox"/>
Flushing Zone D3	901 Nanu Street (D3-NANU0901)	19-Jan-22	13:26	15:08	<input checked="" type="checkbox"/>
Flushing Zone D3	903 Nanu Street (D3-NANU0903)	19-Jan-22	12:45	15:22	<input checked="" type="checkbox"/>
Flushing Zone D3	905 Nanu Street (D3-NANU0905)	19-Jan-22	12:45	15:30	<input checked="" type="checkbox"/>
Flushing Zone D3	907 Nanu Street (D3-NANU0907)	20-Jan-22	07:31	09:46	<input checked="" type="checkbox"/>
Flushing Zone D3	911 Nanu Street (D3-NANU0911)	19-Jan-22	10:30	15:18	<input checked="" type="checkbox"/>
Flushing Zone D3	913 Nanu Street (D3-NANU0913)	19-Jan-22	11:30	18:00	<input checked="" type="checkbox"/>
Flushing Zone D3	915 Nanu Street (D3-NANU0915)	19-Jan-22	13:43	16:21	<input checked="" type="checkbox"/>
Flushing Zone D3	917 Nanu Street (D3-NANU0917)	19-Jan-22	12:52	16:22	<input checked="" type="checkbox"/>
Flushing Zone D3	921 Nanu Street (D3-NANU0921)	20-Jan-22	07:35	10:11	<input checked="" type="checkbox"/>
Flushing Zone D3	922 Nanu Street (D3-NANU0922)	19-Jan-22	14:45	16:52	<input checked="" type="checkbox"/>
Flushing Zone D3	923 Nanu Street (D3-NANU0923)	19-Jan-22	13:48	15:12	<input checked="" type="checkbox"/>
Flushing Zone D3	924 Nanu Street (D3-NANU0924)	19-Jan-22	14:45	16:42	<input checked="" type="checkbox"/>
Flushing Zone D3	925 Nanu Street (D3-NANU0925)	19-Jan-22	12:15	13:40	<input checked="" type="checkbox"/>
Flushing Zone D3	926 Nanu Street (D3-NANU0926)	19-Jan-22	13:00	14:45	<input checked="" type="checkbox"/>
Flushing Zone D3	927 Nanu Street (D3-NANU0927)	19-Jan-22	12:24	13:45	<input checked="" type="checkbox"/>
Flushing Zone D3	928 Nanu Street (D3-NANU0928)	19-Jan-22	13:00	14:44	<input checked="" type="checkbox"/>
Flushing Zone D3	931 Nanu Street (D3-NANU0931)	19-Jan-22	12:12	13:37	<input checked="" type="checkbox"/>
Flushing Zone D3	932 Nanu Street (D3-NANU0932)	20-Jan-22	07:27	09:56	<input checked="" type="checkbox"/>
Flushing Zone D3	933 Nanu Street (D3-NANU0933)	19-Jan-22	12:31	14:19	<input checked="" type="checkbox"/>
Flushing Zone D3	934 Nanu Street (D3-NANU0934)	19-Jan-22	12:15	15:05	<input checked="" type="checkbox"/>
Flushing Zone D3	935 Nanu Street (D3-NANU0935)	19-Jan-22	13:41	15:10	<input checked="" type="checkbox"/>
Flushing Zone D3	936 Nanu Street (D3-NANU0936)	19-Jan-22	12:15	15:07	<input checked="" type="checkbox"/>
Flushing Zone D3	937 Nanu Street (D3-NANU0937)	20-Jan-22	08:28	10:32	<input checked="" type="checkbox"/>
Flushing Zone D3	938 Nanu Street (D3-NANU0938)	20-Jan-22	08:00	12:18	<input checked="" type="checkbox"/>
Flushing Zone D3	941 Nanu Street (D3-NANU0941)	20-Jan-22	08:00	15:53	<input checked="" type="checkbox"/>
Flushing Zone D3	942 Nanu Street (D3-NANU0942)	19-Jan-22	13:45	15:49	<input checked="" type="checkbox"/>
Flushing Zone D3	943 Nanu Street (D3-NANU0943)	19-Jan-22	15:00	17:01	<input checked="" type="checkbox"/>
Flushing Zone D3	944 Nanu Street (D3-NANU0944)	19-Jan-22	12:30	16:11	<input checked="" type="checkbox"/>
Flushing Zone D3	945 Nanu Street (D3-NANU0945)	19-Jan-22	13:00	15:12	<input checked="" type="checkbox"/>
Flushing Zone D3	946 Nanu Street (D3-NANU0946)	19-Jan-22	13:20	15:45	<input checked="" type="checkbox"/>
Flushing Zone D3	947 Nanu Street (D3-NANU0947)	19-Jan-22	13:00	15:09	<input checked="" type="checkbox"/>
Flushing Zone D3	948 Nanu Street (D3-NANU0948)	20-Jan-22	08:00	10:39	<input checked="" type="checkbox"/>
Flushing Zone D3	1001 Nehhe Street (D3-NEHE1001)	20-Jan-22	09:00	11:20	<input checked="" type="checkbox"/>
Flushing Zone D3	1002 Nehhe Street (D3-NEHE1002)	20-Jan-22	09:13	11:23	<input checked="" type="checkbox"/>
Flushing Zone D3	1003 Nehhe Street (D3-NEHE1003)	20-Jan-22	09:16	13:20	<input checked="" type="checkbox"/>
Flushing Zone D3	1004 Nehhe Street (D3-NEHE1004)	20-Jan-22	09:14	11:23	<input checked="" type="checkbox"/>
Flushing Zone D3	1005 Nehhe Street (D3-NEHE1005)	20-Jan-22	09:14	11:08	<input checked="" type="checkbox"/>
Flushing Zone D3	1006 Nehhe Street (D3-NEHE1006)	20-Jan-22	09:14	10:49	<input checked="" type="checkbox"/>
Flushing Zone D3	1007 Nehhe Street (D3-NEHE1007)	20-Jan-22	09:14	10:29	<input checked="" type="checkbox"/>

Section 2b.1 Flushing Records and Distribution System Pressure Logs During Residential Flushing

Flushing Zone D3
2022-01-19 - 2023-01-20

Flushing Zone D3	1008 Nehu Street (D3-NEHE1008)	20-Jan-22	09:14	10:49	<input checked="" type="checkbox"/>
Flushing Zone D3	1012 Nehu Street (D3-NEHE1012)	20-Jan-22	09:15	10:52	<input checked="" type="checkbox"/>
Flushing Zone D3	1014 Nehu Street (D3-NEHE1014)	20-Jan-22	09:15	12:31	<input checked="" type="checkbox"/>
Flushing Zone D3	1016 Nehu Street (D3-NEHE1016)	20-Jan-22	11:42	12:28	<input checked="" type="checkbox"/>
Flushing Zone D3	1018 Nehu Street (D3-NEHE1018)	20-Jan-22	10:51	12:28	<input checked="" type="checkbox"/>
Flushing Zone D3	1022 Nehu Street (D3-NEHE1022)	20-Jan-22	10:52	12:28	<input checked="" type="checkbox"/>
Flushing Zone D3	1024 Nehu Street (D3-NEHE1024)	20-Jan-22	11:18	12:24	<input checked="" type="checkbox"/>
Flushing Zone D3	1026 Nehu Street (D3-NEHE1026)	20-Jan-22	13:00	15:03	<input checked="" type="checkbox"/>
Flushing Zone D3	1028 Nehu Street (D3-NEHE1028)	20-Jan-22	10:28	13:38	<input checked="" type="checkbox"/>
Flushing Zone D3	1032 Nehu Street (D3-NEHE1032)	20-Jan-22	11:07	13:06	<input checked="" type="checkbox"/>
Flushing Zone D3	1034 Nehu Street (D3-NEHE1034)	20-Jan-22	11:00	13:08	<input checked="" type="checkbox"/>
Flushing Zone D3	1036 Nehu Street (D3-NEHE1036)	20-Jan-22	10:47	13:08	<input checked="" type="checkbox"/>
Flushing Zone D3	1038 Nehu Street (D3-NEHE1038)	20-Jan-22	08:33	10:45	<input checked="" type="checkbox"/>
Flushing Zone D3	101 Ohana Nui Circle (D3-OHAN0101)	19-Jan-22	15:00	16:51	<input checked="" type="checkbox"/>
Flushing Zone D3	103 Ohana Nui Circle (D3-OHAN0103)	19-Jan-22	15:00	16:45	<input checked="" type="checkbox"/>
Flushing Zone D3	105 Ohana Nui Circle (D3-OHAN0105)	19-Jan-22	15:00	16:52	<input checked="" type="checkbox"/>
Flushing Zone D3	107 Ohana Nui Circle (D3-OHAN0107)	19-Jan-22	15:00	16:46	<input checked="" type="checkbox"/>
Flushing Zone D3	111 Ohana Nui Circle (D3-OHAN0111)	19-Jan-22	13:00	15:22	<input checked="" type="checkbox"/>
Flushing Zone D3	113 Ohana Nui Circle (D3-OHAN0113)	19-Jan-22	13:00	15:23	<input checked="" type="checkbox"/>
Flushing Zone D3	115 Ohana Nui Circle (D3-OHAN0115)	19-Jan-22	13:00	15:24	<input checked="" type="checkbox"/>
Flushing Zone D3	117 Ohana Nui Circle (D3-OHAN0117)	19-Jan-22	16:16	17:14	<input checked="" type="checkbox"/>
Flushing Zone D3	121 Ohana Nui Circle (D3-OHAN0121)	19-Jan-22	15:00	17:09	<input checked="" type="checkbox"/>
Flushing Zone D3	122 Ohana Nui Circle (D3-OHAN0122)	19-Jan-22	13:00	16:02	<input checked="" type="checkbox"/>
Flushing Zone D3	123 Ohana Nui Circle (D3-OHAN0123)	19-Jan-22	16:09	17:24	<input checked="" type="checkbox"/>
Flushing Zone D3	124 Ohana Nui Circle (D3-OHAN0124)	19-Jan-22	13:00	16:20	<input checked="" type="checkbox"/>
Flushing Zone D3	125 Ohana Nui Circle (D3-OHAN0125)	19-Jan-22	16:00	17:08	<input checked="" type="checkbox"/>
Flushing Zone D3	126 Ohana Nui Circle (D3-OHAN0126)	19-Jan-22	13:00	16:03	<input checked="" type="checkbox"/>
Flushing Zone D3	127 Ohana Nui Circle (D3-OHAN0127)	19-Jan-22	15:00	17:07	<input checked="" type="checkbox"/>
Flushing Zone D3	128 Ohana Nui Circle (D3-OHAN0128)	19-Jan-22	08:00	11:55	<input checked="" type="checkbox"/>
Flushing Zone D3	131 Ohana Nui Circle (D3-OHAN0131)	19-Jan-22	15:00	17:03	<input checked="" type="checkbox"/>
Flushing Zone D3	133 Ohana Nui Circle (D3-OHAN0133)	19-Jan-22	13:00	14:39	<input checked="" type="checkbox"/>
Flushing Zone D3	135 Ohana Nui Circle (D3-OHAN0135)	19-Jan-22	11:00	13:44	<input checked="" type="checkbox"/>
Flushing Zone D3	137 Ohana Nui Circle (D3-OHAN0137)	19-Jan-22	11:00	12:24	<input checked="" type="checkbox"/>
Flushing Zone D3	141 Ohana Nui Circle (D3-OHAN0141)	19-Jan-22	08:00	08:58	<input checked="" type="checkbox"/>
Flushing Zone D3	143 Ohana Nui Circle (D3-OHAN0143)	19-Jan-22	09:00	10:03	<input checked="" type="checkbox"/>
Flushing Zone D3	145 Ohana Nui Circle (D3-OHAN0145)	19-Jan-22	09:00	09:55	<input checked="" type="checkbox"/>
Flushing Zone D3	147 Ohana Nui Circle (D3-OHAN0147)	19-Jan-22	10:00	11:02	<input checked="" type="checkbox"/>
Flushing Zone D3	151 Ohana Nui Circle (D3-OHAN0151)	19-Jan-22	09:00	12:17	<input checked="" type="checkbox"/>
Flushing Zone D3	152 Ohana Nui Circle (D3-OHAN0152)	19-Jan-22	10:00	12:31	<input checked="" type="checkbox"/>
Flushing Zone D3	153 Ohana Nui Circle (D3-OHAN0153)	19-Jan-22	10:00	12:19	<input checked="" type="checkbox"/>
Flushing Zone D3	154 Ohana Nui Circle (D3-OHAN0154)	19-Jan-22	10:00	12:34	<input checked="" type="checkbox"/>
Flushing Zone D3	155 Ohana Nui Circle (D3-OHAN0155)	19-Jan-22	10:00	12:20	<input checked="" type="checkbox"/>
Flushing Zone D3	156 Ohana Nui Circle (D3-OHAN0156)	19-Jan-22	11:00	12:36	<input checked="" type="checkbox"/>
Flushing Zone D3	157 Ohana Nui Circle (D3-OHAN0157)	19-Jan-22	10:00	12:21	<input checked="" type="checkbox"/>
Flushing Zone D3	158 Ohana Nui Circle (D3-OHAN0158)	19-Jan-22	09:00	10:08	<input checked="" type="checkbox"/>
Flushing Zone D3	161 Ohana Nui Circle (D3-OHAN0161)	19-Jan-22	08:00	09:16	<input checked="" type="checkbox"/>
Flushing Zone D3	162 Ohana Nui Circle (D3-OHAN0162)	19-Jan-22	08:00	09:05	<input checked="" type="checkbox"/>
Flushing Zone D3	163 Ohana Nui Circle (D3-OHAN0163)	19-Jan-22	16:32	14:42	<input checked="" type="checkbox"/>
Flushing Zone D3	164 Ohana Nui Circle (D3-OHAN0164)	19-Jan-22	09:00	09:47	<input checked="" type="checkbox"/>
Flushing Zone D3	165 Ohana Nui Circle (D3-OHAN0165)	19-Jan-22	10:00	10:57	<input checked="" type="checkbox"/>
Flushing Zone D3	166 Ohana Nui Circle (D3-OHAN0166)	19-Jan-22	10:00	10:59	<input checked="" type="checkbox"/>
Flushing Zone D3	167 Ohana Nui Circle (D3-OHAN0167)	19-Jan-22	11:00	12:27	<input checked="" type="checkbox"/>
Flushing Zone D3	168 Ohana Nui Circle (D3-OHAN0168)	19-Jan-22	09:00	18:00	<input checked="" type="checkbox"/>
Flushing Zone D3	202 Ohana Nui Circle (D3-OHAN0202)	19-Jan-22	08:14	11:18	<input checked="" type="checkbox"/>
Flushing Zone D3	204 Ohana Nui Circle (D3-OHAN0204)	19-Jan-22	09:48	11:49	<input checked="" type="checkbox"/>
Flushing Zone D3	206 Ohana Nui Circle (D3-OHAN0206)	19-Jan-22	08:04	10:06	<input checked="" type="checkbox"/>
Flushing Zone D3	208 Ohana Nui Circle (D3-OHAN0208)	19-Jan-22	22:29	12:31	<input checked="" type="checkbox"/>
Flushing Zone D3	212 Ohana Nui Circle (D3-OHAN0212)	19-Jan-22	08:55	10:56	<input checked="" type="checkbox"/>
Flushing Zone D3	214 Ohana Nui Circle (D3-OHAN0214)	19-Jan-22	22:11	12:14	<input checked="" type="checkbox"/>
Flushing Zone D3	216 Ohana Nui Circle (D3-OHAN0216)	19-Jan-22	10:24	11:47	<input checked="" type="checkbox"/>
Flushing Zone D3	218 Ohana Nui Circle (D3-OHAN0218)	19-Jan-22	08:57	10:58	<input checked="" type="checkbox"/>
Flushing Zone D3	232 Ohana Nui Circle (D3-OHAN0232)	19-Jan-22	21:34	12:35	<input checked="" type="checkbox"/>
Flushing Zone D3	234 Ohana Nui Circle (D3-OHAN0234)	19-Jan-22	21:32	12:33	<input checked="" type="checkbox"/>

Section 2b.1 Flushing Records and Distribution System Pressure Logs During Residential Flushing

Flushing Zone D3

2022-01-19 - 2023-01-20

Flushing Zone D3	236 Ohana Nui Circle (D3-OHAN0236)	19-Jan-22	08:37	11:41	<input checked="" type="checkbox"/>
Flushing Zone D3	238 Ohana Nui Circle (D3-OHAN0238)	19-Jan-22	08:39	11:40	<input checked="" type="checkbox"/>
Flushing Zone D3	302 Ohana Nui Circle (D3-OHAN0302)	19-Jan-22	08:00	13:03	<input checked="" type="checkbox"/>
Flushing Zone D3	304 Ohana Nui Circle (D3-OHAN0304)	19-Jan-22	08:00	13:04	<input checked="" type="checkbox"/>
Flushing Zone D3	311 Ohana Nui Circle (D3-OHAN0311)	19-Jan-22	08:00	09:11	<input checked="" type="checkbox"/>
Flushing Zone D3	312 Ohana Nui Circle (D3-OHAN0312)	19-Jan-22	08:00	13:05	<input checked="" type="checkbox"/>
Flushing Zone D3	313 Ohana Nui Circle (D3-OHAN0313)	19-Jan-22	08:00	09:13	<input checked="" type="checkbox"/>
Flushing Zone D3	314 Ohana Nui Circle (D3-OHAN0314)	19-Jan-22	09:00	12:14	<input checked="" type="checkbox"/>
Flushing Zone D3	321 Ohana Nui Circle (D3-OHAN0321)	19-Jan-22	09:00	13:06	<input checked="" type="checkbox"/>
Flushing Zone D3	323 Ohana Nui Circle (D3-OHAN0323)	19-Jan-22	09:00	13:07	<input checked="" type="checkbox"/>
Flushing Zone D3	331 Ohana Nui Circle (D3-OHAN0331)	19-Jan-22	09:00	11:26	<input checked="" type="checkbox"/>
Flushing Zone D3	332 Ohana Nui Circle (D3-OHAN0332)	19-Jan-22	08:00	09:58	<input checked="" type="checkbox"/>
Flushing Zone D3	333 Ohana Nui Circle (D3-OHAN0333)	20-Jan-22	10:36	11:37	<input checked="" type="checkbox"/>
Flushing Zone D3	334 Ohana Nui Circle (D3-OHAN0334)	19-Jan-22	09:00	11:28	<input checked="" type="checkbox"/>
Flushing Zone D3	341 Ohana Nui Circle (D3-OHAN0341)	19-Jan-22	09:00	11:27	<input checked="" type="checkbox"/>
Flushing Zone D3	342 Ohana Nui Circle (D3-OHAN0342)	19-Jan-22	08:00	11:23	<input checked="" type="checkbox"/>
Flushing Zone D3	343 Ohana Nui Circle (D3-OHAN0343)	19-Jan-22	11:00	13:13	<input checked="" type="checkbox"/>
Flushing Zone D3	344 Ohana Nui Circle (D3-OHAN0344)	19-Jan-22	08:00	11:24	<input checked="" type="checkbox"/>
Flushing Zone D3	351 Ohana Nui Circle (D3-OHAN0351)	19-Jan-22	10:00	12:07	<input checked="" type="checkbox"/>
Flushing Zone D3	352 Ohana Nui Circle (D3-OHAN0352)	19-Jan-22	10:00	11:37	<input checked="" type="checkbox"/>
Flushing Zone D3	353 Ohana Nui Circle (D3-OHAN0353)	19-Jan-22	10:00	12:07	<input checked="" type="checkbox"/>
Flushing Zone D3	354 Ohana Nui Circle (D3-OHAN0354)	19-Jan-22	10:00	11:38	<input checked="" type="checkbox"/>
Flushing Zone D3	361 Ohana Nui Circle (D3-OHAN0361)	19-Jan-22	08:06	11:07	<input checked="" type="checkbox"/>
Flushing Zone D3	363 Ohana Nui Circle (D3-OHAN0363)	19-Jan-22	08:41	10:46	<input checked="" type="checkbox"/>
Flushing Zone D3	401 Ohana Nui Circle (D3-OHAN0401)	20-Jan-22	07:25	09:25	<input checked="" type="checkbox"/>
Flushing Zone D3	402 Ohana Nui Circle (D3-OHAN0402)	20-Jan-22	09:16	11:51	<input checked="" type="checkbox"/>
Flushing Zone D3	403 Ohana Nui Circle (D3-OHAN0403)	20-Jan-22	07:31	08:36	<input checked="" type="checkbox"/>
Flushing Zone D3	404 Ohana Nui Circle (D3-OHAN0404)	20-Jan-22	08:17	11:16	<input checked="" type="checkbox"/>
Flushing Zone D3	406 Ohana Nui Circle (D3-OHAN0406)	20-Jan-22	07:41	10:13	<input checked="" type="checkbox"/>
Flushing Zone D3	408 Ohana Nui Circle (D3-OHAN0408)	20-Jan-22	10:19	12:19	<input checked="" type="checkbox"/>
Flushing Zone D3	411 Ohana Nui Circle (D3-OHAN0411)	20-Jan-22	08:42	10:12	<input checked="" type="checkbox"/>
Flushing Zone D3	412 Ohana Nui Circle (D3-OHAN0412)	20-Jan-22	09:31	11:06	<input checked="" type="checkbox"/>
Flushing Zone D3	413 Ohana Nui Circle (D3-OHAN0413)	20-Jan-22	09:29	10:59	<input checked="" type="checkbox"/>
Flushing Zone D3	414 Ohana Nui Circle (D3-OHAN0414)	20-Jan-22	07:50	09:47	<input checked="" type="checkbox"/>
Flushing Zone D3	416 Ohana Nui Circle (D3-OHAN0416)	20-Jan-22	09:45	11:07	<input checked="" type="checkbox"/>
Flushing Zone D3	418 Ohana Nui Circle (D3-OHAN0418)	20-Jan-22	07:43	09:21	<input checked="" type="checkbox"/>
Flushing Zone D3	421 Ohana Nui Circle (D3-OHAN0421)	20-Jan-22	07:34	09:24	<input checked="" type="checkbox"/>
Flushing Zone D3	423 Ohana Nui Circle (D3-OHAN0423)	20-Jan-22	09:07	10:33	<input checked="" type="checkbox"/>
Flushing Zone D3	431 Ohana Nui Circle (D3-OHAN0431)	20-Jan-22	07:54	09:08	<input checked="" type="checkbox"/>
Flushing Zone D3	432 Ohana Nui Circle (D3-OHAN0432)	20-Jan-22	08:24	09:34	<input checked="" type="checkbox"/>
Flushing Zone D3	433 Ohana Nui Circle (D3-OHAN0433)	20-Jan-22	07:44	09:06	<input checked="" type="checkbox"/>
Flushing Zone D3	434 Ohana Nui Circle (D3-OHAN0434)	20-Jan-22	08:28	09:34	<input checked="" type="checkbox"/>
Flushing Zone D3	436 Ohana Nui Circle (D3-OHAN0436)	20-Jan-22	09:58	10:49	<input checked="" type="checkbox"/>
Flushing Zone D3	438 Ohana Nui Circle (D3-OHAN0438)	20-Jan-22	09:52	10:51	<input checked="" type="checkbox"/>
Flushing Zone D3	451 Ohana Nui Circle (D3-OHAN0451)	20-Jan-22	07:31	10:14	<input checked="" type="checkbox"/>
Flushing Zone D3	453 Ohana Nui Circle (D3-OHAN0453)	20-Jan-22	07:59	10:30	<input checked="" type="checkbox"/>
Flushing Zone D3	461 Ohana Nui Circle (D3-OHAN0461)	20-Jan-22	08:00	10:59	<input checked="" type="checkbox"/>
Flushing Zone D3	463 Ohana Nui Circle (D3-OHAN0463)	20-Jan-22	08:00	11:00	<input checked="" type="checkbox"/>
Flushing Zone D3	501 Ohana Nui Circle (D3-OHAN0501)	20-Jan-22	07:30	10:23	<input checked="" type="checkbox"/>
Flushing Zone D3	502 Ohana Nui Circle (D3-OHAN0502)	20-Jan-22	08:05	09:59	<input checked="" type="checkbox"/>
Flushing Zone D3	503 Ohana Nui Circle (D3-OHAN0503)	20-Jan-22	07:30	10:34	<input checked="" type="checkbox"/>
Flushing Zone D3	504 Ohana Nui Circle (D3-OHAN0504)	20-Jan-22	08:00	10:13	<input checked="" type="checkbox"/>
Flushing Zone D3	506 Ohana Nui Circle (D3-OHAN0506)	20-Jan-22	08:03	10:13	<input checked="" type="checkbox"/>
Flushing Zone D3	508 Ohana Nui Circle (D3-OHAN0508)	20-Jan-22	10:47	12:12	<input checked="" type="checkbox"/>
Flushing Zone D3	511 Ohana Nui Circle (D3-OHAN0511)	20-Jan-22	08:00	11:11	<input checked="" type="checkbox"/>
Flushing Zone D3	512 Ohana Nui Circle (D3-OHAN0512)	20-Jan-22	14:59	19:46	<input checked="" type="checkbox"/>
Flushing Zone D3	513 Ohana Nui Circle (D3-OHAN0513)	20-Jan-22	08:00	10:30	<input checked="" type="checkbox"/>
Flushing Zone D3	514 Ohana Nui Circle (D3-OHAN0514)	20-Jan-22	08:16	09:32	<input checked="" type="checkbox"/>
Flushing Zone D3	516 Ohana Nui Circle (D3-OHAN0516)	20-Jan-22	08:18	09:33	<input checked="" type="checkbox"/>
Flushing Zone D3	518 Ohana Nui Circle (D3-OHAN0518)	20-Jan-22	08:26	09:44	<input checked="" type="checkbox"/>
Flushing Zone D3	521 Ohana Nui Circle (D3-OHAN0521)	20-Jan-22	08:34	10:59	<input checked="" type="checkbox"/>
Flushing Zone D3	522 Ohana Nui Circle (D3-OHAN0522)	20-Jan-22	07:38	10:07	<input checked="" type="checkbox"/>
Flushing Zone D3	523 Ohana Nui Circle (D3-OHAN0523)	20-Jan-22	08:20	09:57	<input checked="" type="checkbox"/>

Section 2b.1 Flushing Records and Distribution System Pressure Logs During Residential Flushing

Flushing Zone D3

2022-01-19 - 2023-01-20

Flushing Zone D3	524 Ohana Nui Circle (D3-OHAN0524)	20-Jan-22	07:38	10:11	<input checked="" type="checkbox"/>
Flushing Zone D3	526 Ohana Nui Circle (D3-OHAN0526)	20-Jan-22	10:07	11:47	<input checked="" type="checkbox"/>
Flushing Zone D3	528 Ohana Nui Circle (D3-OHAN0528)	20-Jan-22	10:08	11:49	<input checked="" type="checkbox"/>
Flushing Zone D3	531 Ohana Nui Circle (D3-OHAN0531)	20-Jan-22	08:26	12:20	<input checked="" type="checkbox"/>
Flushing Zone D3	532 Ohana Nui Circle (D3-OHAN0532)	20-Jan-22	08:37	13:05	<input checked="" type="checkbox"/>
Flushing Zone D3	533 Ohana Nui Circle (D3-OHAN0533)	20-Jan-22	09:08	11:38	<input checked="" type="checkbox"/>
Flushing Zone D3	534 Ohana Nui Circle (D3-OHAN0534)	20-Jan-22	08:19	12:38	<input checked="" type="checkbox"/>
Flushing Zone D3	536 Ohana Nui Circle (D3-OHAN0536)	20-Jan-22	08:37	13:06	<input checked="" type="checkbox"/>
Flushing Zone D3	538 Ohana Nui Circle (D3-OHAN0538)	20-Jan-22	08:26	12:47	<input checked="" type="checkbox"/>
Flushing Zone D3	541 Ohana Nui Circle (D3-OHAN0541)	20-Jan-22	07:53	11:32	<input checked="" type="checkbox"/>
Flushing Zone D3	542 Ohana Nui Circle (D3-OHAN0542)	20-Jan-22	08:21	11:04	<input checked="" type="checkbox"/>
Flushing Zone D3	543 Ohana Nui Circle (D3-OHAN0543)	20-Jan-22	09:09	11:13	<input checked="" type="checkbox"/>
Flushing Zone D3	544 Ohana Nui Circle (D3-OHAN0544)	20-Jan-22	08:19	10:40	<input checked="" type="checkbox"/>
Flushing Zone D3	546 Ohana Nui Circle (D3-OHAN0546)	20-Jan-22	08:12	10:39	<input checked="" type="checkbox"/>
Flushing Zone D3	548 Ohana Nui Circle (D3-OHAN0548)	20-Jan-22	08:15	10:38	<input checked="" type="checkbox"/>
Flushing Zone D3	551 Ohana Nui Circle (D3-OHAN0551)	20-Jan-22	08:22	11:46	<input checked="" type="checkbox"/>
Flushing Zone D3	553 Ohana Nui Circle (D3-OHAN0553)	20-Jan-22	13:54	19:25	<input checked="" type="checkbox"/>
Flushing Zone D3	561 Ohana Nui Circle (D3-OHAN0561)	20-Jan-22	08:00	11:06	<input checked="" type="checkbox"/>
Flushing Zone D3	562 Ohana Nui Circle (D3-OHAN0562)	20-Jan-22	08:00	12:22	<input checked="" type="checkbox"/>
Flushing Zone D3	563 Ohana Nui Circle (D3-OHAN0563)	20-Jan-22	08:00	11:08	<input checked="" type="checkbox"/>
Flushing Zone D3	564 Ohana Nui Circle (D3-OHAN0564)	20-Jan-22	10:28	11:49	<input checked="" type="checkbox"/>
Flushing Zone D3	566 Ohana Nui Circle (D3-OHAN0566)	20-Jan-22	10:28	11:50	<input checked="" type="checkbox"/>
Flushing Zone D3	568 Ohana Nui Circle (D3-OHAN0568)	20-Jan-22	10:28	11:51	<input checked="" type="checkbox"/>
Flushing Zone D3	581 Ohana Nui Circle (D3-OHAN0581)	20-Jan-22	09:55	11:26	<input checked="" type="checkbox"/>
Flushing Zone D3	583 Ohana Nui Circle (D3-OHAN0583)	20-Jan-22	09:55	11:26	<input checked="" type="checkbox"/>
Flushing Zone D3	601 Ohana Nui Circle (D3-OHAN0601)	20-Jan-22	08:28	10:34	<input checked="" type="checkbox"/>
Flushing Zone D3	603 Ohana Nui Circle (D3-OHAN0603)	20-Jan-22	08:29	10:53	<input checked="" type="checkbox"/>
Flushing Zone D3	611 Ohana Nui Circle (D3-OHAN0611)	20-Jan-22	08:30	10:42	<input checked="" type="checkbox"/>
Flushing Zone D3	612 Ohana Nui Circle (D3-OHAN0612)	20-Jan-22	11:10	13:17	<input checked="" type="checkbox"/>
Flushing Zone D3	613 Ohana Nui Circle (D3-OHAN0613)	20-Jan-22	10:54	12:58	<input checked="" type="checkbox"/>
Flushing Zone D3	614 Ohana Nui Circle (D3-OHAN0614)	20-Jan-22	09:57	12:46	<input checked="" type="checkbox"/>
Flushing Zone D3	616 Ohana Nui Circle (D3-OHAN0616)	20-Jan-22	08:49	10:16	<input checked="" type="checkbox"/>
Flushing Zone D3	618 Ohana Nui Circle (D3-OHAN0618)	20-Jan-22	08:30	09:57	<input checked="" type="checkbox"/>
Flushing Zone D3	622 Ohana Nui Circle (D3-OHAN0622)	20-Jan-22	10:45	11:35	<input checked="" type="checkbox"/>
Flushing Zone D3	624 Ohana Nui Circle (D3-OHAN0624)	20-Jan-22	10:08	10:53	<input checked="" type="checkbox"/>
Flushing Zone D3	626 Ohana Nui Circle (D3-OHAN0626)	20-Jan-22	09:22	10:24	<input checked="" type="checkbox"/>
Flushing Zone D3	628 Ohana Nui Circle (D3-OHAN0628)	20-Jan-22	08:35	09:41	<input checked="" type="checkbox"/>
Flushing Zone D3	711 Ohana Nui Circle (D3-OHAN0711)	20-Jan-22	08:40	10:01	<input checked="" type="checkbox"/>
Flushing Zone D3	713 Ohana Nui Circle (D3-OHAN0713)	20-Jan-22	08:45	10:47	<input checked="" type="checkbox"/>
Flushing Zone D3	715 Ohana Nui Circle (D3-OHAN0715)	20-Jan-22	10:47	14:48	<input checked="" type="checkbox"/>
Flushing Zone D3	717 Ohana Nui Circle (D3-OHAN0717)	20-Jan-22	09:50	11:20	<input checked="" type="checkbox"/>
Flushing Zone D3	721 Ohana Nui Circle (D3-OHAN0721)	20-Jan-22	08:20	10:13	<input checked="" type="checkbox"/>
Flushing Zone D3	723 Ohana Nui Circle (D3-OHAN0723)	20-Jan-22	08:54	10:33	<input checked="" type="checkbox"/>
Flushing Zone D3	725 Ohana Nui Circle (D3-OHAN0725)	20-Jan-22	10:42	12:57	<input checked="" type="checkbox"/>
Flushing Zone D3	727 Ohana Nui Circle (D3-OHAN0727)	20-Jan-22	11:04	13:16	<input checked="" type="checkbox"/>
Flushing Zone D3	731 Ohana Nui Circle (D3-OHAN0731)	20-Jan-22	08:30	11:57	<input checked="" type="checkbox"/>
Flushing Zone D3	733 Ohana Nui Circle (D3-OHAN0733)	20-Jan-22	11:55	15:22	<input checked="" type="checkbox"/>
Flushing Zone D3	735 Ohana Nui Circle (D3-OHAN0735)	20-Jan-22	22:30	13:30	<input checked="" type="checkbox"/>
Flushing Zone D3	737 Ohana Nui Circle (D3-OHAN0737)	20-Jan-22	08:30	10:26	<input checked="" type="checkbox"/>
Flushing Zone D3	741 Ohana Nui Circle (D3-OHAN0741)	20-Jan-22	08:27	10:06	<input checked="" type="checkbox"/>
Flushing Zone D3	743 Ohana Nui Circle (D3-OHAN0743)	20-Jan-22	09:10	11:15	<input checked="" type="checkbox"/>
Flushing Zone D3	745 Ohana Nui Circle (D3-OHAN0745)	20-Jan-22	11:16	12:37	<input checked="" type="checkbox"/>
Flushing Zone D3	747 Ohana Nui Circle (D3-OHAN0747)	20-Jan-22	12:34	13:32	<input checked="" type="checkbox"/>
Flushing Zone D3	751 Ohana Nui Circle (D3-OHAN0751)	20-Jan-22	07:30	12:52	<input checked="" type="checkbox"/>
Flushing Zone D3	752 Ohana Nui Circle (D3-OHAN0752)	20-Jan-22	09:00	10:17	<input checked="" type="checkbox"/>
Flushing Zone D3	753 Ohana Nui Circle (D3-OHAN0753)	20-Jan-22	12:00	13:02	<input checked="" type="checkbox"/>
Flushing Zone D3	754 Ohana Nui Circle (D3-OHAN0754)	20-Jan-22	09:00	10:19	<input checked="" type="checkbox"/>
Flushing Zone D3	755 Ohana Nui Circle (D3-OHAN0755)	20-Jan-22	12:00	13:02	<input checked="" type="checkbox"/>
Flushing Zone D3	756 Ohana Nui Circle (D3-OHAN0756)	20-Jan-22	09:00	11:08	<input checked="" type="checkbox"/>
Flushing Zone D3	757 Ohana Nui Circle (D3-OHAN0757)	20-Jan-22	12:00	13:03	<input checked="" type="checkbox"/>
Flushing Zone D3	758 Ohana Nui Circle (D3-OHAN0758)	20-Jan-22	10:00	11:34	<input checked="" type="checkbox"/>
Flushing Zone D3	761 Ohana Nui Circle (D3-OHAN0761)	20-Jan-22	10:00	11:54	<input checked="" type="checkbox"/>
Flushing Zone D3	762 Ohana Nui Circle (D3-OHAN0762)	20-Jan-22	11:00	12:10	<input checked="" type="checkbox"/>

Section 2b.1 Flushing Records and Distribution System Pressure Logs During Residential Flushing

Flushing Zone D3

2022-01-19 - 2023-01-20

Flushing Zone D3	763 Ohana Nui Circle (D3-OHAN0763)	20-Jan-22	09:00	10:26	<input checked="" type="checkbox"/>
Flushing Zone D3	764 Ohana Nui Circle (D3-OHAN0764)	20-Jan-22	11:00	12:11	<input checked="" type="checkbox"/>
Flushing Zone D3	765 Ohana Nui Circle (D3-OHAN0765)	20-Jan-22	09:00	10:14	<input checked="" type="checkbox"/>
Flushing Zone D3	766 Ohana Nui Circle (D3-OHAN0766)	20-Jan-22	11:00	12:15	<input checked="" type="checkbox"/>
Flushing Zone D3	767 Ohana Nui Circle (D3-OHAN0767)	20-Jan-22	09:00	10:28	<input checked="" type="checkbox"/>
Flushing Zone D3	768 Ohana Nui Circle (D3-OHAN0768)	20-Jan-22	11:00	12:17	<input checked="" type="checkbox"/>
Flushing Zone D3	771 Ohana Nui Circle (D3-OHAN0771)	20-Jan-22	09:00	11:29	<input checked="" type="checkbox"/>
Flushing Zone D3	773 Ohana Nui Circle (D3-OHAN0773)	20-Jan-22	09:00	11:30	<input checked="" type="checkbox"/>
Flushing Zone D3	775 Ohana Nui Circle (D3-OHAN0775)	20-Jan-22	10:00	11:31	<input checked="" type="checkbox"/>
Flushing Zone D3	777 Ohana Nui Circle (D3-OHAN0777)	21-Jan-22	14:48	15:59	<input checked="" type="checkbox"/>
Flushing Zone D3	781 Ohana Nui Circle (D3-OHAN0781)	20-Jan-22	09:00	10:11	<input checked="" type="checkbox"/>
Flushing Zone D3	783 Ohana Nui Circle (D3-OHAN0783)	20-Jan-22	09:00	10:12	<input checked="" type="checkbox"/>
Flushing Zone D3	785 Ohana Nui Circle (D3-OHAN0785)	20-Jan-22	10:00	11:07	<input checked="" type="checkbox"/>
Flushing Zone D3	787 Ohana Nui Circle (D3-OHAN0787)	20-Jan-22	10:00	11:56	<input checked="" type="checkbox"/>
Flushing Zone D3	791 Ohana Nui Circle (D3-OHAN0791)	20-Jan-22	08:00	09:49	<input checked="" type="checkbox"/>
Flushing Zone D3	792 Ohana Nui Circle (D3-OHAN0792)	20-Jan-22	10:00	11:05	<input checked="" type="checkbox"/>
Flushing Zone D3	793 Ohana Nui Circle (D3-OHAN0793)	20-Jan-22	08:00	09:51	<input checked="" type="checkbox"/>
Flushing Zone D3	794 Ohana Nui Circle (D3-OHAN0794)	20-Jan-22	08:00	09:53	<input checked="" type="checkbox"/>
Flushing Zone D3	795 Ohana Nui Circle (D3-OHAN0795)	20-Jan-22	08:00	09:52	<input checked="" type="checkbox"/>
Flushing Zone D3	796 Ohana Nui Circle (D3-OHAN0796)	20-Jan-22	10:00	11:06	<input checked="" type="checkbox"/>
Flushing Zone D3	797 Ohana Nui Circle (D3-OHAN0797)	21-Jan-22	16:00	17:00	<input checked="" type="checkbox"/>
Flushing Zone D3	798 Ohana Nui Circle (D3-OHAN0798)	20-Jan-22	11:00	12:53	<input checked="" type="checkbox"/>
Flushing Zone D3	801 Ohana Nui Circle (D3-OHAN0801)	20-Jan-22	10:00	12:06	<input checked="" type="checkbox"/>
Flushing Zone D3	803 Ohana Nui Circle (D3-OHAN0803)	20-Jan-22	10:00	12:07	<input checked="" type="checkbox"/>
Flushing Zone D3	805 Ohana Nui Circle (D3-OHAN0805)	20-Jan-22	09:15	12:09	<input checked="" type="checkbox"/>
Flushing Zone D3	807 Ohana Nui Circle (D3-OHAN0807)	20-Jan-22	09:15	12:12	<input checked="" type="checkbox"/>
Flushing Zone D3	811 Ohana Nui Circle (D3-OHAN0811)	20-Jan-22	08:00	14:23	<input checked="" type="checkbox"/>
Flushing Zone D3	812 Ohana Nui Circle (D3-OHAN0812)	20-Jan-22	10:47	12:33	<input checked="" type="checkbox"/>
Flushing Zone D3	813 Ohana Nui Circle (D3-OHAN0813)	20-Jan-22	09:45	12:35	<input checked="" type="checkbox"/>
Flushing Zone D3	814 Ohana Nui Circle (D3-OHAN0814)	22-Jan-22	08:10	12:36	<input checked="" type="checkbox"/>
Flushing Zone D3	815 Ohana Nui Circle (D3-OHAN0815)	20-Jan-22	10:00	12:37	<input checked="" type="checkbox"/>
Flushing Zone D3	816 Ohana Nui Circle (D3-OHAN0816)	20-Jan-23	07:45	13:45	<input checked="" type="checkbox"/>
Flushing Zone D3	817 Ohana Nui Circle (D3-OHAN0817)	20-Jan-22	13:53	15:00	<input checked="" type="checkbox"/>
Flushing Zone D3	818 Ohana Nui Circle (D3-OHAN0818)	20-Jan-22	07:45	12:40	<input checked="" type="checkbox"/>
Flushing Zone D3	821 Ohana Nui Circle (D3-OHAN0821)	22-Jan-22	09:20	12:41	<input checked="" type="checkbox"/>
Flushing Zone D3	822 Ohana Nui Circle (D3-OHAN0822)	22-Jan-22	07:45	12:42	<input checked="" type="checkbox"/>
Flushing Zone D3	823 Ohana Nui Circle (D3-OHAN0823)	22-Jan-22	09:20	12:45	<input checked="" type="checkbox"/>
Flushing Zone D3	824 Ohana Nui Circle (D3-OHAN0824)	20-Jan-22	08:15	12:46	<input checked="" type="checkbox"/>
Flushing Zone D3	825 Ohana Nui Circle (D3-OHAN0825)	22-Jan-22	09:15	12:47	<input checked="" type="checkbox"/>
Flushing Zone D3	826 Ohana Nui Circle (D3-OHAN0826)	20-Jan-22	08:00	12:48	<input checked="" type="checkbox"/>
Flushing Zone D3	827 Ohana Nui Circle (D3-OHAN0827)	22-Jan-22	09:40	12:49	<input checked="" type="checkbox"/>
Flushing Zone D3	828 Ohana Nui Circle (D3-OHAN0828)	20-Jan-22	08:00	12:50	<input checked="" type="checkbox"/>
Flushing Zone D3	831 Ohana Nui Circle (D3-OHAN0831)	20-Jan-22	07:53	09:59	<input checked="" type="checkbox"/>
Flushing Zone D3	832 Ohana Nui Circle (D3-OHAN0832)	22-Jan-22	07:45	12:51	<input checked="" type="checkbox"/>
Flushing Zone D3	833 Ohana Nui Circle (D3-OHAN0833)	20-Jan-22	07:44	09:27	<input checked="" type="checkbox"/>
Flushing Zone D3	834 Ohana Nui Circle (D3-OHAN0834)	20-Jan-22	07:47	12:52	<input checked="" type="checkbox"/>
Flushing Zone D3	835 Ohana Nui Circle (D3-OHAN0835)	20-Jan-22	09:00	13:48	<input checked="" type="checkbox"/>
Flushing Zone D3	836 Ohana Nui Circle (D3-OHAN0836)	20-Jan-22	07:55	12:54	<input checked="" type="checkbox"/>
Flushing Zone D3	837 Ohana Nui Circle (D3-OHAN0837)	20-Jan-22	07:53	10:10	<input checked="" type="checkbox"/>
Flushing Zone D3	838 Ohana Nui Circle (D3-OHAN0838)	20-Jan-22	07:55	11:38	<input checked="" type="checkbox"/>
Flushing Zone D3	851 Ohana Nui Circle (D3-OHAN0851)	20-Jan-22	08:10	09:55	<input checked="" type="checkbox"/>
Flushing Zone D3	852 Ohana Nui Circle (D3-OHAN0852)	20-Jan-22	08:10	11:41	<input checked="" type="checkbox"/>
Flushing Zone D3	853 Ohana Nui Circle (D3-OHAN0853)	20-Jan-22	08:05	09:43	<input checked="" type="checkbox"/>
Flushing Zone D3	854 Ohana Nui Circle (D3-OHAN0854)	20-Jan-22	07:55	11:44	<input checked="" type="checkbox"/>
Flushing Zone D3	855 Ohana Nui Circle (D3-OHAN0855)	20-Jan-22	08:10	09:35	<input checked="" type="checkbox"/>
Flushing Zone D3	856 Ohana Nui Circle (D3-OHAN0856)	20-Jan-22	07:45	11:45	<input checked="" type="checkbox"/>
Flushing Zone D3	857 Ohana Nui Circle (D3-OHAN0857)	20-Jan-22	07:40	11:17	<input checked="" type="checkbox"/>
Flushing Zone D3	858 Ohana Nui Circle (D3-OHAN0858)	20-Jan-22	08:00	11:47	<input checked="" type="checkbox"/>
Flushing Zone D3	861 Ohana Nui Circle (D3-OHAN0861)	20-Jan-22	08:00	09:53	<input checked="" type="checkbox"/>
Flushing Zone D3	862 Ohana Nui Circle (D3-OHAN0862)	20-Jan-22	07:50	11:48	<input checked="" type="checkbox"/>
Flushing Zone D3	863 Ohana Nui Circle (D3-OHAN0863)	20-Jan-22	07:35	09:39	<input checked="" type="checkbox"/>
Flushing Zone D3	864 Ohana Nui Circle (D3-OHAN0864)	20-Jan-22	07:50	11:51	<input checked="" type="checkbox"/>
Flushing Zone D3	865 Ohana Nui Circle (D3-OHAN0865)	20-Jan-22	08:00	09:34	<input checked="" type="checkbox"/>

Section 2b.1 Flushing Records and Distribution System Pressure Logs During Residential Flushing

Flushing Zone D3

2022-01-19 - 2023-01-20

Flushing Zone D3	866 Ohana Nui Circle (D3-OHAN0866)	20-Jan-22	07:50	11:52	<input checked="" type="checkbox"/>
Flushing Zone D3	867 Ohana Nui Circle (D3-OHAN0867)	20-Jan-22	08:00	12:44	<input checked="" type="checkbox"/>
Flushing Zone D3	868 Ohana Nui Circle (D3-OHAN0868)	20-Jan-22	07:45	12:01	<input checked="" type="checkbox"/>
Flushing Zone D3	871 Ohana Nui Circle (D3-OHAN0871)	20-Jan-22	08:07	10:12	<input checked="" type="checkbox"/>
Flushing Zone D3	873 Ohana Nui Circle (D3-OHAN0873)	20-Jan-22	08:11	11:20	<input checked="" type="checkbox"/>
Flushing Zone D3	875 Ohana Nui Circle (D3-OHAN0875)	20-Jan-22	09:20	12:42	<input checked="" type="checkbox"/>
Flushing Zone D3	877 Ohana Nui Circle (D3-OHAN0877)	20-Jan-22	08:00	09:11	<input checked="" type="checkbox"/>
Flushing Zone D3	881 Ohana Nui Circle (D3-OHAN0881)	20-Jan-22	07:45	09:06	<input checked="" type="checkbox"/>
Flushing Zone D3	883 Ohana Nui Circle (D3-OHAN0883)	20-Jan-22	08:20	09:25	<input checked="" type="checkbox"/>
Flushing Zone D3	885 Ohana Nui Circle (D3-OHAN0885)	20-Jan-22	08:00	09:56	<input checked="" type="checkbox"/>
Flushing Zone D3	887 Ohana Nui Circle (D3-OHAN0887)	20-Jan-22	07:40	09:29	<input checked="" type="checkbox"/>
Flushing Zone D3	901 Ohana Nui Circle (D3-OHAN0901)	19-Jan-22	08:15	10:14	<input checked="" type="checkbox"/>
Flushing Zone D3	902 Ohana Nui Circle (D3-OHAN0902)	19-Jan-22	12:21	14:05	<input checked="" type="checkbox"/>
Flushing Zone D3	903 Ohana Nui Circle (D3-OHAN0903)	19-Jan-22	08:39	12:51	<input checked="" type="checkbox"/>
Flushing Zone D3	904 Ohana Nui Circle (D3-OHAN0904)	19-Jan-22	08:39	11:01	<input checked="" type="checkbox"/>
Flushing Zone D3	905 Ohana Nui Circle (D3-OHAN0905)	19-Jan-22	10:43	15:57	<input checked="" type="checkbox"/>
Flushing Zone D3	906 Ohana Nui Circle (D3-OHAN0906)	19-Jan-22	09:55	13:15	<input checked="" type="checkbox"/>
Flushing Zone D3	907 Ohana Nui Circle (D3-OHAN0907)	19-Jan-22	11:04	15:58	<input checked="" type="checkbox"/>
Flushing Zone D3	908 Ohana Nui Circle (D3-OHAN0908)	19-Jan-22	11:13	14:05	<input checked="" type="checkbox"/>
Flushing Zone D3	911 Ohana Nui Circle (D3-OHAN0911)	19-Jan-22	16:11	18:32	<input checked="" type="checkbox"/>
Flushing Zone D3	913 Ohana Nui Circle (D3-OHAN0913)	19-Jan-22	16:18	17:11	<input checked="" type="checkbox"/>
Flushing Zone D3	915 Ohana Nui Circle (D3-OHAN0915)	19-Jan-22	15:55	14:50	<input checked="" type="checkbox"/>
Flushing Zone D3	917 Ohana Nui Circle (D3-OHAN0917)	19-Jan-22	15:58	17:28	<input checked="" type="checkbox"/>
Flushing Zone D3	921 Ohana Nui Circle (D3-OHAN0921)	19-Jan-22	16:00	17:33	<input checked="" type="checkbox"/>
Flushing Zone D3	922 Ohana Nui Circle (D3-OHAN0922)	19-Jan-22	14:00	14:53	<input checked="" type="checkbox"/>
Flushing Zone D3	923 Ohana Nui Circle (D3-OHAN0923)	19-Jan-22	14:00	16:04	<input checked="" type="checkbox"/>
Flushing Zone D3	924 Ohana Nui Circle (D3-OHAN0924)	19-Jan-22	14:00	15:58	<input checked="" type="checkbox"/>
Flushing Zone D3	925 Ohana Nui Circle (D3-OHAN0925)	19-Jan-22	14:30	17:41	<input checked="" type="checkbox"/>
Flushing Zone D3	926 Ohana Nui Circle (D3-OHAN0926)	19-Jan-22	14:21	17:33	<input checked="" type="checkbox"/>
Flushing Zone D3	927 Ohana Nui Circle (D3-OHAN0927)	19-Jan-22	14:30	17:56	<input checked="" type="checkbox"/>
Flushing Zone D3	928 Ohana Nui Circle (D3-OHAN0928)	19-Jan-22	14:21	19:11	<input checked="" type="checkbox"/>
Flushing Zone D3	931 Ohana Nui Circle (D3-OHAN0931)	19-Jan-22	14:13	18:04	<input checked="" type="checkbox"/>
Flushing Zone D3	932 Ohana Nui Circle (D3-OHAN0932)	19-Jan-22	14:30	16:16	<input checked="" type="checkbox"/>
Flushing Zone D3	933 Ohana Nui Circle (D3-OHAN0933)	19-Jan-22	14:00	18:03	<input checked="" type="checkbox"/>
Flushing Zone D3	934 Ohana Nui Circle (D3-OHAN0934)	19-Jan-22	14:31	16:19	<input checked="" type="checkbox"/>
Flushing Zone D3	935 Ohana Nui Circle (D3-OHAN0935)	19-Jan-22	13:55	18:44	<input checked="" type="checkbox"/>
Flushing Zone D3	936 Ohana Nui Circle (D3-OHAN0936)	20-Jan-22	08:52	10:12	<input checked="" type="checkbox"/>
Flushing Zone D3	937 Ohana Nui Circle (D3-OHAN0937)	19-Jan-22	11:21	18:46	<input checked="" type="checkbox"/>
Flushing Zone D3	938 Ohana Nui Circle (D3-OHAN0938)	19-Jan-22	14:38	17:19	<input checked="" type="checkbox"/>
Flushing Zone D3	941 Ohana Nui Circle (D3-OHAN0941)	19-Jan-22	12:40	15:41	<input checked="" type="checkbox"/>
Flushing Zone D3	942 Ohana Nui Circle (D3-OHAN0942)	19-Jan-22	13:27	17:20	<input checked="" type="checkbox"/>
Flushing Zone D3	943 Ohana Nui Circle (D3-OHAN0943)	19-Jan-22	10:26	18:49	<input checked="" type="checkbox"/>
Flushing Zone D3	944 Ohana Nui Circle (D3-OHAN0944)	19-Jan-22	12:17	13:57	<input checked="" type="checkbox"/>
Flushing Zone D3	945 Ohana Nui Circle (D3-OHAN0945)	19-Jan-22	08:31	10:27	<input checked="" type="checkbox"/>
Flushing Zone D3	946 Ohana Nui Circle (D3-OHAN0946)	19-Jan-22	11:00	13:24	<input checked="" type="checkbox"/>
Flushing Zone D3	947 Ohana Nui Circle (D3-OHAN0947)	19-Jan-22	09:35	10:28	<input checked="" type="checkbox"/>
Flushing Zone D3	948 Ohana Nui Circle (D3-OHAN0948)	19-Jan-22	08:00	10:42	<input checked="" type="checkbox"/>
Flushing Zone D3	961 Ohana Nui Circle (D3-OHAN0961)	19-Jan-22	08:10	09:52	<input checked="" type="checkbox"/>
Flushing Zone D3	962 Ohana Nui Circle (D3-OHAN0962)	19-Jan-22	15:33	18:48	<input checked="" type="checkbox"/>
Flushing Zone D3	963 Ohana Nui Circle (D3-OHAN0963)	19-Jan-22	10:31	12:02	<input checked="" type="checkbox"/>
Flushing Zone D3	964 Ohana Nui Circle (D3-OHAN0964)	19-Jan-22	16:09	17:05	<input checked="" type="checkbox"/>
Flushing Zone D3	965 Ohana Nui Circle (D3-OHAN0965)	19-Jan-22	10:31	13:19	<input checked="" type="checkbox"/>
Flushing Zone D3	966 Ohana Nui Circle (D3-OHAN0966)	19-Jan-22	16:00	17:48	<input checked="" type="checkbox"/>
Flushing Zone D3	967 Ohana Nui Circle (D3-OHAN0967)	19-Jan-22	12:06	14:02	<input checked="" type="checkbox"/>
Flushing Zone D3	968 Ohana Nui Circle (D3-OHAN0968)	19-Jan-22	15:49	16:58	<input checked="" type="checkbox"/>
Flushing Zone D3	971 Ohana Nui Circle (D3-OHAN0971)	19-Jan-22	12:17	14:37	<input checked="" type="checkbox"/>
Flushing Zone D3	972 Ohana Nui Circle (D3-OHAN0972)	19-Jan-22	15:54	14:55	<input checked="" type="checkbox"/>
Flushing Zone D3	973 Ohana Nui Circle (D3-OHAN0973)	19-Jan-22	14:43	16:19	<input checked="" type="checkbox"/>
Flushing Zone D3	974 Ohana Nui Circle (D3-OHAN0974)	19-Jan-22	15:30	18:21	<input checked="" type="checkbox"/>
Flushing Zone D3	975 Ohana Nui Circle (D3-OHAN0975)	19-Jan-22	14:52	16:42	<input checked="" type="checkbox"/>
Flushing Zone D3	976 Ohana Nui Circle (D3-OHAN0976)	19-Jan-22	14:30	18:11	<input checked="" type="checkbox"/>
Flushing Zone D3	977 Ohana Nui Circle (D3-OHAN0977)	20-Jan-22	11:00	11:39	<input checked="" type="checkbox"/>
Flushing Zone D3	978 Ohana Nui Circle (D3-OHAN0978)	19-Jan-22	13:30	18:09	<input checked="" type="checkbox"/>

Section 2b.1 Flushing Records and Distribution System Pressure Logs During Residential Flushing

Flushing Zone D3

2022-01-19 - 2023-01-20

Flushing Zone D3	981 Ohana Nui Circle (D3-OHAN0981)	19-Jan-22	14:36	18:49	<input checked="" type="checkbox"/>
Flushing Zone D3	982 Ohana Nui Circle (D3-OHAN0982)	19-Jan-22	10:55	18:06	<input checked="" type="checkbox"/>
Flushing Zone D3	983 Ohana Nui Circle (D3-OHAN0983)	19-Jan-22	14:41	16:58	<input checked="" type="checkbox"/>
Flushing Zone D3	984 Ohana Nui Circle (D3-OHAN0984)	19-Jan-22	08:30	18:04	<input checked="" type="checkbox"/>
Flushing Zone D3	985 Ohana Nui Circle (D3-OHAN0985)	19-Jan-22	15:52	13:23	<input checked="" type="checkbox"/>
Flushing Zone D3	986 Ohana Nui Circle (D3-OHAN0986)	19-Jan-22	20:30	18:02	<input checked="" type="checkbox"/>
Flushing Zone D3	987 Ohana Nui Circle (D3-OHAN0987)	19-Jan-22	11:16	13:26	<input checked="" type="checkbox"/>
Flushing Zone D3	988 Ohana Nui Circle (D3-OHAN0988)	19-Jan-22	11:30	18:00	<input checked="" type="checkbox"/>
Flushing Zone D3	991 Ohana Nui Circle (D3-OHAN0991)	19-Jan-22	12:24	14:13	<input checked="" type="checkbox"/>
Flushing Zone D3	993 Ohana Nui Circle (D3-OHAN0993)	19-Jan-22	11:52	14:12	<input checked="" type="checkbox"/>
Flushing Zone D3	995 Ohana Nui Circle (D3-OHAN0995)	19-Jan-22	08:52	11:03	<input checked="" type="checkbox"/>
Flushing Zone D3	997 Ohana Nui Circle (D3-OHAN0997)	19-Jan-22	08:22	10:06	<input checked="" type="checkbox"/>
Flushing Zone D3	1001 Ohana Nui Circle (D3-OHAN1001)	19-Jan-22	15:00	16:54	<input checked="" type="checkbox"/>
Flushing Zone D3	1002 Ohana Nui Circle (D3-OHAN1002)	19-Jan-22	13:31	15:53	<input checked="" type="checkbox"/>
Flushing Zone D3	1003 Ohana Nui Circle (D3-OHAN1003)	19-Jan-22	15:13	17:15	<input checked="" type="checkbox"/>
Flushing Zone D3	1004 Ohana Nui Circle (D3-OHAN1004)	19-Jan-22	13:45	16:22	<input checked="" type="checkbox"/>
Flushing Zone D3	1005 Ohana Nui Circle (D3-OHAN1005)	19-Jan-22	14:17	16:19	<input checked="" type="checkbox"/>
Flushing Zone D3	1006 Ohana Nui Circle (D3-OHAN1006)	19-Jan-22	16:00	17:33	<input checked="" type="checkbox"/>
Flushing Zone D3	1007 Ohana Nui Circle (D3-OHAN1007)	19-Jan-22	13:44	17:08	<input checked="" type="checkbox"/>
Flushing Zone D3	1008 Ohana Nui Circle (D3-OHAN1008)	19-Jan-22	16:00	17:32	<input checked="" type="checkbox"/>
Flushing Zone D3	1021 Ohana Nui Circle (D3-OHAN1021)	20-Jan-22	08:00	14:33	<input checked="" type="checkbox"/>
Flushing Zone D3	1023 Ohana Nui Circle (D3-OHAN1023)	20-Jan-22	08:00	14:34	<input checked="" type="checkbox"/>
Flushing Zone D3	1025 Ohana Nui Circle (D3-OHAN1025)	19-Jan-22	12:38	16:40	<input checked="" type="checkbox"/>
Flushing Zone D3	1027 Ohana Nui Circle (D3-OHAN1027)	19-Jan-22	12:19	15:21	<input checked="" type="checkbox"/>
Flushing Zone D3	1031 Ohana Nui Circle (D3-OHAN1031)	19-Jan-22	10:00	13:21	<input checked="" type="checkbox"/>
Flushing Zone D3	1033 Ohana Nui Circle (D3-OHAN1033)	19-Jan-22	23:39	15:40	<input checked="" type="checkbox"/>
Flushing Zone D3	1035 Ohana Nui Circle (D3-OHAN1035)	19-Jan-22	23:51	15:43	<input checked="" type="checkbox"/>
Flushing Zone D3	1037 Ohana Nui Circle (D3-OHAN1037)	19-Jan-22	15:53	17:56	<input checked="" type="checkbox"/>
Flushing Zone D3	1041 Ohana Nui Circle (D3-OHAN1041)	19-Jan-22	12:38	14:40	<input checked="" type="checkbox"/>
Flushing Zone D3	1042 Ohana Nui Circle (D3-OHAN1042)	19-Jan-22	11:00	13:09	<input checked="" type="checkbox"/>
Flushing Zone D3	1043 Ohana Nui Circle (D3-OHAN1043)	20-Jan-22	08:00	14:32	<input checked="" type="checkbox"/>
Flushing Zone D3	1044 Ohana Nui Circle (D3-OHAN1044)	20-Jan-22	08:00	14:31	<input checked="" type="checkbox"/>
Flushing Zone D3	1045 Ohana Nui Circle (D3-OHAN1045)	20-Jan-22	00:00	13:23	<input checked="" type="checkbox"/>
Flushing Zone D3	1046 Ohana Nui Circle (D3-OHAN1046)	19-Jan-22	13:00	14:48	<input checked="" type="checkbox"/>
Flushing Zone D3	1047 Ohana Nui Circle (D3-OHAN1047)	19-Jan-22	12:01	14:02	<input checked="" type="checkbox"/>
Flushing Zone D3	1048 Ohana Nui Circle (D3-OHAN1048)	19-Jan-22	12:00	14:44	<input checked="" type="checkbox"/>
Flushing Zone D3	1051 Ohana Nui Circle (D3-OHAN1051)	19-Jan-22	23:41	14:42	<input checked="" type="checkbox"/>
Flushing Zone D3	1052 Ohana Nui Circle (D3-OHAN1052)	19-Jan-22	12:00	13:09	<input checked="" type="checkbox"/>
Flushing Zone D3	1053 Ohana Nui Circle (D3-OHAN1053)	19-Jan-22	13:50	16:13	<input checked="" type="checkbox"/>
Flushing Zone D3	1054 Ohana Nui Circle (D3-OHAN1054)	19-Jan-22	12:00	13:10	<input checked="" type="checkbox"/>
Flushing Zone D3	1055 Ohana Nui Circle (D3-OHAN1055)	19-Jan-22	15:49	17:51	<input checked="" type="checkbox"/>
Flushing Zone D3	1056 Ohana Nui Circle (D3-OHAN1056)	20-Jan-22	08:00	14:30	<input checked="" type="checkbox"/>
Flushing Zone D3	1057 Ohana Nui Circle (D3-OHAN1057)	19-Jan-22	16:00	17:05	<input checked="" type="checkbox"/>
Flushing Zone D3	1058 Ohana Nui Circle (D3-OHAN1058)	19-Jan-22	12:00	13:11	<input checked="" type="checkbox"/>
Flushing Zone D3	1061 Ohana Nui Circle (D3-OHAN1061)	19-Jan-22	14:14	16:16	<input checked="" type="checkbox"/>
Flushing Zone D3	1062 Ohana Nui Circle (D3-OHAN1062)	19-Jan-22	13:00	14:47	<input checked="" type="checkbox"/>
Flushing Zone D3	1063 Ohana Nui Circle (D3-OHAN1063)	19-Jan-22	12:17	15:19	<input checked="" type="checkbox"/>
Flushing Zone D3	1064 Ohana Nui Circle (D3-OHAN1064)	20-Jan-22	16:00	18:34	<input checked="" type="checkbox"/>
Flushing Zone D3	1065 Ohana Nui Circle (D3-OHAN1065)	19-Jan-22	22:38	12:40	<input checked="" type="checkbox"/>
Flushing Zone D3	1066 Ohana Nui Circle (D3-OHAN1066)	19-Jan-22	12:00	14:46	<input checked="" type="checkbox"/>
Flushing Zone D3	1067 Ohana Nui Circle (D3-OHAN1067)	20-Jan-22	08:49	10:19	<input checked="" type="checkbox"/>
Flushing Zone D3	1068 Ohana Nui Circle (D3-OHAN1068)	19-Jan-22	16:00	18:01	<input checked="" type="checkbox"/>
Flushing Zone D3	301 Okika Street (D3-OKIK0301)	19-Jan-22	13:30	14:35	<input checked="" type="checkbox"/>
Flushing Zone D3	302 Okika Street (D3-OKIK0302)	19-Jan-22	13:48	15:02	<input checked="" type="checkbox"/>
Flushing Zone D3	303 Okika Street (D3-OKIK0303)	19-Jan-22	13:38	13:24	<input checked="" type="checkbox"/>
Flushing Zone D3	304 Okika Street (D3-OKIK0304)	19-Jan-22	13:00	14:47	<input checked="" type="checkbox"/>
Flushing Zone D3	305 Okika Street (D3-OKIK0305)	19-Jan-22	13:41	14:32	<input checked="" type="checkbox"/>
Flushing Zone D3	306 Okika Street (D3-OKIK0306)	19-Jan-22	13:28	15:11	<input checked="" type="checkbox"/>
Flushing Zone D3	307 Okika Street (D3-OKIK0307)	19-Jan-22	13:42	14:32	<input checked="" type="checkbox"/>
Flushing Zone D3	308 Okika Street (D3-OKIK0308)	19-Jan-22	14:35	15:46	<input checked="" type="checkbox"/>
Flushing Zone D3	322 Okika Street (D3-OKIK0322)	19-Jan-22	03:00	16:17	<input checked="" type="checkbox"/>
Flushing Zone D3	324 Okika Street (D3-OKIK0324)	19-Jan-22	03:00	16:20	<input checked="" type="checkbox"/>
Flushing Zone D3	326 Okika Street (D3-OKIK0326)	19-Jan-22	15:09	14:58	<input checked="" type="checkbox"/>

Section 2b.1 Flushing Records and Distribution System Pressure Logs During Residential Flushing

Flushing Zone D3

2022-01-19 - 2023-01-20

Flushing Zone D3	328 Okika Street (D3-OKIK0328)	19-Jan-22	12:36	15:09	<input checked="" type="checkbox"/>
Flushing Zone D3	331 Okika Street (D3-OKIK0331)	19-Jan-22	03:00	16:03	<input checked="" type="checkbox"/>
Flushing Zone D3	332 Okika Street (D3-OKIK0332)	19-Jan-22	15:13	15:52	<input checked="" type="checkbox"/>
Flushing Zone D3	333 Okika Street (D3-OKIK0333)	20-Jan-22	14:00	15:17	<input checked="" type="checkbox"/>
Flushing Zone D3	334 Okika Street (D3-OKIK0334)	19-Jan-22	15:00	15:01	<input checked="" type="checkbox"/>
Flushing Zone D3	335 Okika Street (D3-OKIK0335)	19-Jan-22	12:00	15:11	<input checked="" type="checkbox"/>
Flushing Zone D3	336 Okika Street (D3-OKIK0336)	19-Jan-22	12:19	15:01	<input checked="" type="checkbox"/>
Flushing Zone D3	337 Okika Street (D3-OKIK0337)	20-Jan-22	09:31	10:24	<input checked="" type="checkbox"/>
Flushing Zone D3	338 Okika Street (D3-OKIK0338)	19-Jan-22	12:20	16:54	<input checked="" type="checkbox"/>
Flushing Zone D3	341 Okika Street (D3-OKIK0341)	19-Jan-22	14:00	17:31	<input checked="" type="checkbox"/>
Flushing Zone D3	342 Okika Street (D3-OKIK0342)	19-Jan-22	15:10	17:20	<input checked="" type="checkbox"/>
Flushing Zone D3	343 Okika Street (D3-OKIK0343)	19-Jan-22	12:00	15:01	<input checked="" type="checkbox"/>
Flushing Zone D3	344 Okika Street (D3-OKIK0344)	19-Jan-22	15:09	17:19	<input checked="" type="checkbox"/>
Flushing Zone D3	345 Okika Street (D3-OKIK0345)	19-Jan-22	12:00	18:09	<input checked="" type="checkbox"/>
Flushing Zone D3	346 Okika Street (D3-OKIK0346)	19-Jan-22	11:58	15:07	<input checked="" type="checkbox"/>
Flushing Zone D3	347 Okika Street (D3-OKIK0347)	19-Jan-22	16:15	17:51	<input checked="" type="checkbox"/>
Flushing Zone D3	348 Okika Street (D3-OKIK0348)	19-Jan-22	11:59	15:08	<input checked="" type="checkbox"/>
Flushing Zone D3	351 Okika Street (D3-OKIK0351)	19-Jan-22	10:29	12:04	<input checked="" type="checkbox"/>
Flushing Zone D3	353 Okika Street (D3-OKIK0353)	19-Jan-22	10:28	12:05	<input checked="" type="checkbox"/>
Flushing Zone D3	355 Okika Street (D3-OKIK0355)	19-Jan-22	08:51	10:28	<input checked="" type="checkbox"/>
Flushing Zone D3	357 Okika Street (D3-OKIK0357)	19-Jan-22	08:50	10:28	<input checked="" type="checkbox"/>
Flushing Zone D3	401 Pakalana Street (D3-PAKA0401)	20-Jan-22	10:00	10:55	<input checked="" type="checkbox"/>
Flushing Zone D3	402 Pakalana Street (D3-PAKA0402)	20-Jan-22	09:00	10:48	<input checked="" type="checkbox"/>
Flushing Zone D3	403 Pakalana Street (D3-PAKA0403)	20-Jan-22	10:00	11:51	<input checked="" type="checkbox"/>
Flushing Zone D3	404 Pakalana Street (D3-PAKA0404)	20-Jan-22	08:00	09:27	<input checked="" type="checkbox"/>
Flushing Zone D3	405 Pakalana Street (D3-PAKA0405)	20-Jan-22	08:05	10:51	<input checked="" type="checkbox"/>
Flushing Zone D3	406 Pakalana Street (D3-PAKA0406)	20-Jan-22	08:00	09:21	<input checked="" type="checkbox"/>
Flushing Zone D3	407 Pakalana Street (D3-PAKA0407)	20-Jan-22	09:15	10:50	<input checked="" type="checkbox"/>
Flushing Zone D3	408 Pakalana Street (D3-PAKA0408)	20-Jan-22	09:00	10:23	<input checked="" type="checkbox"/>
Flushing Zone D3	411 Pakalana Street (D3-PAKA0411)	20-Jan-22	08:00	10:04	<input checked="" type="checkbox"/>
Flushing Zone D3	412 Pakalana Street (D3-PAKA0412)	20-Jan-22	08:50	09:45	<input checked="" type="checkbox"/>
Flushing Zone D3	413 Pakalana Street (D3-PAKA0413)	20-Jan-22	09:05	10:00	<input checked="" type="checkbox"/>
Flushing Zone D3	414 Pakalana Street (D3-PAKA0414)	20-Jan-22	08:03	09:16	<input checked="" type="checkbox"/>
Flushing Zone D3	415 Pakalana Street (D3-PAKA0415)	20-Jan-22	08:30	10:01	<input checked="" type="checkbox"/>
Flushing Zone D3	416 Pakalana Street (D3-PAKA0416)	20-Jan-22	09:48	10:36	<input checked="" type="checkbox"/>
Flushing Zone D3	417 Pakalana Street (D3-PAKA0417)	20-Jan-22	09:40	10:30	<input checked="" type="checkbox"/>
Flushing Zone D3	418 Pakalana Street (D3-PAKA0418)	20-Jan-22	10:40	11:20	<input checked="" type="checkbox"/>
Flushing Zone D3	161 Plokeea Court (D3-PILO0161)	19-Jan-22	09:38	12:41	<input checked="" type="checkbox"/>
Flushing Zone D3	163 Plokeea Court (D3-PILO0163)	19-Jan-22	09:39	10:30	<input checked="" type="checkbox"/>
Flushing Zone D3	165 Plokeea Court (D3-PILO0165)	19-Jan-22	11:00	14:59	<input checked="" type="checkbox"/>
Flushing Zone D3	167 Plokeea Court (D3-PILO0167)	19-Jan-22	12:05	14:14	<input checked="" type="checkbox"/>
Flushing Zone D3	171 Plokeea Court (D3-PILO0171)	19-Jan-22	07:40	10:57	<input checked="" type="checkbox"/>
Flushing Zone D3	173 Plokeea Court (D3-PILO0173)	19-Jan-22	11:00	13:42	<input checked="" type="checkbox"/>
Flushing Zone D3	175 Plokeea Court (D3-PILO0175)	19-Jan-22	11:00	13:41	<input checked="" type="checkbox"/>
Flushing Zone D3	177 Plokeea Court (D3-PILO0177)	19-Jan-22	07:45	17:59	<input checked="" type="checkbox"/>
Flushing Zone D3	179 Plokeea Court (D3-PILO0179)	19-Jan-22	07:45	18:00	<input checked="" type="checkbox"/>
Flushing Zone D3	181 Plokeea Court (D3-PILO0181)	19-Jan-22	10:00	11:52	<input checked="" type="checkbox"/>
Flushing Zone D3	183 Plokeea Court (D3-PILO0183)	19-Jan-22	10:00	11:54	<input checked="" type="checkbox"/>
Flushing Zone D3	185 Plokeea Court (D3-PILO0185)	19-Jan-22	07:42	09:17	<input checked="" type="checkbox"/>
Flushing Zone D3	187 Plokeea Court (D3-PILO0187)	19-Jan-22	07:00	09:40	<input checked="" type="checkbox"/>
Flushing Zone D3	160 Plokeea Lane (D3-PILO0160)	19-Jan-22	07:32	10:19	<input checked="" type="checkbox"/>
Flushing Zone D3	162 Plokeea Lane (D3-PILO0162)	19-Jan-22	07:32	10:18	<input checked="" type="checkbox"/>
Flushing Zone D3	170 Plokeea Lane (D3-PILO0170)	19-Jan-22	10:20	12:17	<input checked="" type="checkbox"/>
Flushing Zone D3	172 Plokeea Lane (D3-PILO0172)	19-Jan-22	10:20	12:19	<input checked="" type="checkbox"/>
Flushing Zone D3	1001 Puakala Street (D3-PUAK1001)	20-Jan-22	07:30	12:49	<input checked="" type="checkbox"/>
Flushing Zone D3	1002 Puakala Street (D3-PUAK1002)	20-Jan-22	08:01	15:24	<input checked="" type="checkbox"/>
Flushing Zone D3	1003 Puakala Street (D3-PUAK1003)	20-Jan-22	08:00	10:16	<input checked="" type="checkbox"/>
Flushing Zone D3	1004 Puakala Street (D3-PUAK1004)	20-Jan-22	08:01	14:13	<input checked="" type="checkbox"/>
Flushing Zone D3	1005 Puakala Street (D3-PUAK1005)	20-Jan-22	07:45	10:10	<input checked="" type="checkbox"/>
Flushing Zone D3	1006 Puakala Street (D3-PUAK1006)	20-Jan-22	10:30	15:25	<input checked="" type="checkbox"/>
Flushing Zone D3	1007 Puakala Street (D3-PUAK1007)	20-Jan-22	07:30	10:08	<input checked="" type="checkbox"/>
Flushing Zone D3	1008 Puakala Street (D3-PUAK1008)	20-Jan-22	10:45	15:28	<input checked="" type="checkbox"/>

Section 2b.1 Flushing Records and Distribution System Pressure Logs During Residential Flushing

Flushing Zone D3

2022-01-19 - 2023-01-20

Flushing Zone D3	1012 Puakala Street (D3-PUAK1012)	20-Jan-22	11:00	15:26	✓	□
Flushing Zone D3	1014 Puakala Street (D3-PUAK1014)	20-Jan-22	11:00	15:27	✓	□
Flushing Zone D3	1016 Puakala Street (D3-PUAK1016)	20-Jan-22	08:00	10:42	✓	□
Flushing Zone D3	1018 Puakala Street (D3-PUAK1018)	20-Jan-22	08:00	10:30	✓	□
Flushing Zone D3	1022 Puakala Street (D3-PUAK1022)	20-Jan-22	08:00	10:34	✓	□
Flushing Zone D3	1024 Puakala Street (D3-PUAK1024)	20-Jan-22	08:00	10:36	✓	□
Flushing Zone D3	1026 Puakala Street (D3-PUAK1026)	20-Jan-22	11:00	12:47	✓	□
Flushing Zone D3	1028 Puakala Street (D3-PUAK1028)	20-Jan-22	11:00	12:48	✓	□
Flushing Zone D3	1031 Puakala Street (D3-PUAK1031)	20-Jan-22	08:08	11:50	✓	□
Flushing Zone D3	1032 Puakala Street (D3-PUAK1032)	20-Jan-22	09:00	14:16	✓	□
Flushing Zone D3	1033 Puakala Street (D3-PUAK1033)	20-Jan-22	09:00	11:54	✓	□
Flushing Zone D3	1034 Puakala Street (D3-PUAK1034)	20-Jan-22	08:30	11:28	✓	□
Flushing Zone D3	1035 Puakala Street (D3-PUAK1035)	20-Jan-22	09:00	12:45	✓	□
Flushing Zone D3	1036 Puakala Street (D3-PUAK1036)	20-Jan-22	11:29	13:43	✓	□
Flushing Zone D3	1037 Puakala Street (D3-PUAK1037)	20-Jan-22	11:35	12:45	✓	□
Flushing Zone D3	1038 Puakala Street (D3-PUAK1038)	20-Jan-22	11:29	13:43	✓	□
Flushing Zone D3	270 Puakauhi Court (D3-PUAK0270)	19-Jan-22	07:37	09:58	✓	□
Flushing Zone D3	271 Puakauhi Court (D3-PUAK0271)	19-Jan-22	07:44	09:56	✓	□
Flushing Zone D3	272 Puakauhi Court (D3-PUAK0272)	19-Jan-22	08:00	09:56	✓	□
Flushing Zone D3	273 Puakauhi Court (D3-PUAK0273)	19-Jan-22	07:44	09:36	✓	□
Flushing Zone D3	274 Puakauhi Court (D3-PUAK0274)	19-Jan-22	10:07	12:01	✓	□
Flushing Zone D3	275 Puakauhi Court (D3-PUAK0275)	19-Jan-22	10:00	13:46	✓	□
Flushing Zone D3	276 Puakauhi Court (D3-PUAK0276)	19-Jan-22	10:00	12:02	✓	□
Flushing Zone D3	277 Puakauhi Court (D3-PUAK0277)	19-Jan-22	10:17	13:49	✓	□
Flushing Zone D3	278 Puakauhi Court (D3-PUAK0278)	19-Jan-22	08:12	12:38	✓	□
Flushing Zone D3	280 Puakauhi Court (D3-PUAK0280)	19-Jan-22	07:45	10:22	✓	□
Flushing Zone D3	282 Puakauhi Court (D3-PUAK0282)	19-Jan-22	07:47	10:21	✓	□
Flushing Zone D3	284 Puakauhi Court (D3-PUAK0284)	19-Jan-22	08:30	14:03	✓	□
Flushing Zone D3	202 Puapilo Court (D3-PUAP0202)	19-Jan-22	08:00	10:06	✓	□
Flushing Zone D3	204 Puapilo Court (D3-PUAP0204)	19-Jan-22	09:00	11:15	✓	□
Flushing Zone D3	205 Puapilo Court (D3-PUAP0205)	19-Jan-22	07:30	10:22	✓	□
Flushing Zone D3	206 Puapilo Court (D3-PUAP0206)	19-Jan-22	09:00	10:56	✓	□
Flushing Zone D3	207 Puapilo Court (D3-PUAP0207)	19-Jan-22	07:31	10:29	✓	□
Flushing Zone D3	208 Puapilo Court (D3-PUAP0208)	19-Jan-22	09:00	11:19	✓	□
Flushing Zone D3	209 Puapilo Court (D3-PUAP0209)	19-Jan-22	09:59	12:17	✓	□
Flushing Zone D3	211 Puapilo Court (D3-PUAP0211)	20-Jan-22	10:40	11:34	✓	□
Flushing Zone D3	212 Puapilo Court (D3-PUAP0212)	19-Jan-22	11:00	13:16	✓	□
Flushing Zone D3	213 Puapilo Court (D3-PUAP0213)	19-Jan-22	07:38	09:44	✓	□
Flushing Zone D3	214 Puapilo Court (D3-PUAP0214)	19-Jan-22	11:00	13:21	✓	□
Flushing Zone D3	215 Puapilo Court (D3-PUAP0215)	19-Jan-22	09:46	12:39	✓	□
Flushing Zone D3	216 Puapilo Court (D3-PUAP0216)	19-Jan-22	08:00	09:36	✓	□
Flushing Zone D3	217 Puapilo Court (D3-PUAP0217)	19-Jan-22	10:49	13:31	✓	□
Flushing Zone D3	218 Puapilo Court (D3-PUAP0218)	19-Jan-22	09:30	11:15	✓	□
Flushing Zone D3	219 Puapilo Court (D3-PUAP0219)	19-Jan-22	13:33	15:34	✓	□
Flushing Zone D3	221 Puapilo Court (D3-PUAP0221)	19-Jan-22	08:00	09:07	✓	□
Flushing Zone D3	223 Puapilo Court (D3-PUAP0223)	19-Jan-22	08:00	11:27	✓	□
Flushing Zone D3	225 Puapilo Court (D3-PUAP0225)	19-Jan-22	08:00	12:15	✓	□
Flushing Zone D3	227 Puapilo Court (D3-PUAP0227)	19-Jan-22	08:00	12:55	✓	□
Flushing Zone D3	229 Puapilo Court (D3-PUAP0229)	19-Jan-22	08:00	13:38	✓	□
Flushing Zone D3	231 Puapilo Court (D3-PUAP0231)	19-Jan-22	08:00	13:46	✓	□
Flushing Zone D3	102 Puuloa Circle (D3-PUUL0102)	19-Jan-22	09:01	10:52	✓	□
Flushing Zone D3	104 Puuloa Circle (D3-PUUL0104)	19-Jan-22	08:31	09:23	✓	□
Flushing Zone D3	106 Puuloa Circle (D3-PUUL0106)	19-Jan-22	08:19	10:11	✓	□
Flushing Zone D3	108 Puuloa Circle (D3-PUUL0108)	19-Jan-22	08:19	10:10	✓	□
Flushing Zone D3	110 Puuloa Circle (D3-PUUL0110)	19-Jan-22	08:36	12:11	✓	□
Flushing Zone D3	112 Puuloa Circle (D3-PUUL0112)	19-Jan-22	08:00	10:42	✓	□
Flushing Zone D3	114 Puuloa Circle (D3-PUUL0114)	19-Jan-22	09:00	11:55	✓	□
Flushing Zone D3	116 Puuloa Circle (D3-PUUL0116)	19-Jan-22	10:04	14:21	✓	□
Flushing Zone D3	118 Puuloa Circle (D3-PUUL0118)	19-Jan-22	08:09	10:01	✓	□
Flushing Zone D3	120 Puuloa Circle (D3-PUUL0120)	19-Jan-22	08:35	10:50	✓	□
Flushing Zone D3	122 Puuloa Circle (D3-PUUL0122)	19-Jan-22	10:00	12:16	✓	□
Flushing Zone D3	124 Puuloa Circle (D3-PUUL0124)	19-Jan-22	10:00	12:17	✓	□
Flushing Zone D3	251 Wela Loop (D3-WELA0251)	19-Jan-22	08:00	10:51	✓	□

Section 2b.1 Flushing Records and Distribution System Pressure Logs During Residential Flushing

Flushing Zone D3

2022-01-19 - 2023-01-20

Flushing Zone D3	252 Wela Loop (D3-WELA0252)	19-Jan-22	08:00	11:24	<input checked="" type="checkbox"/>
Flushing Zone D3	253 Wela Loop (D3-WELA0253)	19-Jan-22	08:00	10:51	<input checked="" type="checkbox"/>
Flushing Zone D3	254 Wela Loop (D3-WELA0254)	19-Jan-22	08:00	11:12	<input checked="" type="checkbox"/>
Flushing Zone D3	255 Wela Loop (D3-WELA0255)	19-Jan-22	10:00	12:38	<input checked="" type="checkbox"/>
Flushing Zone D3	256 Wela Loop (D3-WELA0256)	19-Jan-22	11:00	14:41	<input checked="" type="checkbox"/>
Flushing Zone D3	257 Wela Loop (D3-WELA0257)	19-Jan-22	10:00	12:39	<input checked="" type="checkbox"/>
Flushing Zone D3	258 Wela Loop (D3-WELA0258)	19-Jan-22	13:00	15:18	<input checked="" type="checkbox"/>
Flushing Zone D3	261 Wela Loop (D3-WELA0261)	19-Jan-22	08:20	11:34	<input checked="" type="checkbox"/>
Flushing Zone D3	262 Wela Loop (D3-WELA0262)	19-Jan-22	09:30	12:35	<input checked="" type="checkbox"/>
Flushing Zone D3	263 Wela Loop (D3-WELA0263)	19-Jan-22	08:20	11:34	<input checked="" type="checkbox"/>
Flushing Zone D3	264 Wela Loop (D3-WELA0264)	19-Jan-22	11:00	14:40	<input checked="" type="checkbox"/>
Flushing Zone D3	265 Wela Loop (D3-WELA0265)	19-Jan-22	12:00	15:18	<input checked="" type="checkbox"/>
Flushing Zone D3	266 Wela Loop (D3-WELA0266)	19-Jan-22	12:30	14:35	<input checked="" type="checkbox"/>
Flushing Zone D3	267 Wela Loop (D3-WELA0267)	19-Jan-22	08:00	09:19	<input checked="" type="checkbox"/>
Flushing Zone D3	268 Wela Loop (D3-WELA0268)	19-Jan-22	10:57	12:14	<input checked="" type="checkbox"/>
Flushing Zone D3	271 Wela Loop (D3-WELA0271)	19-Jan-22	08:17	10:58	<input checked="" type="checkbox"/>
Flushing Zone D3	273 Wela Loop (D3-WELA0273)	19-Jan-22	10:22	12:00	<input checked="" type="checkbox"/>
Flushing Zone D3	275 Wela Loop (D3-WELA0275)	19-Jan-22	11:00	12:00	<input checked="" type="checkbox"/>
Flushing Zone D3	277 Wela Loop (D3-WELA0277)	19-Jan-22	10:10	11:59	<input checked="" type="checkbox"/>
Flushing Zone D3	281 Wela Loop (D3-WELA0281)	19-Jan-22	07:47	09:18	<input checked="" type="checkbox"/>
Flushing Zone D3	282 Wela Loop (D3-WELA0282)	19-Jan-22	08:02	10:04	<input checked="" type="checkbox"/>
Flushing Zone D3	283 Wela Loop (D3-WELA0283)	19-Jan-22	09:18	10:53	<input checked="" type="checkbox"/>
Flushing Zone D3	284 Wela Loop (D3-WELA0284)	19-Jan-22	08:02	10:05	<input checked="" type="checkbox"/>
Flushing Zone D3	285 Wela Loop (D3-WELA0285)	19-Jan-22	09:18	10:53	<input checked="" type="checkbox"/>
Flushing Zone D3	286 Wela Loop (D3-WELA0286)	19-Jan-22	10:18	11:53	<input checked="" type="checkbox"/>
Flushing Zone D3	287 Wela Loop (D3-WELA0287)	19-Jan-22	08:10	12:59	<input checked="" type="checkbox"/>
Flushing Zone D3	288 Wela Loop (D3-WELA0288)	19-Jan-22	10:05	11:42	<input checked="" type="checkbox"/>
Flushing Zone D3	291 Wela Loop (D3-WELA0291)	19-Jan-22	09:43	11:06	<input checked="" type="checkbox"/>
Flushing Zone D3	292 Wela Loop (D3-WELA0292)	19-Jan-22	09:32	10:55	<input checked="" type="checkbox"/>
Flushing Zone D3	293 Wela Loop (D3-WELA0293)	19-Jan-22	09:51	11:10	<input checked="" type="checkbox"/>
Flushing Zone D3	294 Wela Loop (D3-WELA0294)	19-Jan-22	09:32	10:55	<input checked="" type="checkbox"/>
Flushing Zone D3	295 Wela Loop (D3-WELA0295)	19-Jan-22	08:05	09:38	<input checked="" type="checkbox"/>
Flushing Zone D3	296 Wela Loop (D3-WELA0296)	19-Jan-22	08:02	09:26	<input checked="" type="checkbox"/>
Flushing Zone D3	297 Wela Loop (D3-WELA0297)	19-Jan-22	07:53	09:33	<input checked="" type="checkbox"/>
Flushing Zone D3	298 Wela Loop (D3-WELA0298)	19-Jan-22	07:50	09:26	<input checked="" type="checkbox"/>

Key

Not Started

No Access

In Progress

Complete

Section 2b.1 Flushing Records and Distribution System Pressure Logs During Residential Flushing

Flushing Zone D3

2022-01-10 - 2022-01-30

Total Facilities	Total	Percent Complete	No	Flushed on Selected Dates
118	118	100.0 %	0	118

Zone	Address	Arrive Date	Start Time	Finish Time	Certified	Summary General Notes	Unable To Access	Access Reason
Flushing Zone D3	BLDG 1852H - Dorm Airman Perm Party,	20-Jan-22	12:00	14:52	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	BLDG 1864H - Veterinary Clinic, 1864	18-Jan-22	13:00	13:58	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1, Assets School (D3-BLDG0001)	19-Jan-22	08:00	09:37	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1302HHECO VAULT NO. 594	19-Jan-22	13:00	13:17	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1303HMOKULELE ELEM BLDG G, 22-Jan-22	13:00	14:35	14:35	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1304HMOKULELE ELEM BLDG D, 22-Jan-22	13:00	14:25	14:25	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1305HMOKULELE ELEM BLDG E, 22-Jan-22	13:00	14:26	14:26	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1307HMOKULELE ELEM BLDG C, 22-Jan-22	13:00	14:34	14:34	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1308HMOKULELE ELEM BLDG B, 22-Jan-22	13:00	14:27	14:27	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1309HMOKULELE ELEM BLDG A, 22-Jan-22	13:00	14:27	14:27	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1310HMOKULELE ELEM BLDG F, 22-Jan-22	13:00	14:28	14:28	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1311HMOKULELE ELEM P1, 250	22-Jan-22	13:00	14:29	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1312HMOKULELE ELEM P2, 250	22-Jan-22	13:00	14:32	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1313HMOKULELE ELEM P3, 250	22-Jan-22	13:00	14:31	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1314HMOKULELE ELEM P4, 250	22-Jan-22	13:00	14:30	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1330HYOUTH CENTER, 234	19-Jan-22	12:00	11:14	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1333HSANITARY LATRINE (D3-	19-Jan-22	14:00	13:20	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1335HSCHOOLAGE CENTER -	20-Jan-22	08:00	11:53	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1399HYOUTH FITNESS CENTER	20-Jan-22	16:00	14:56	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1586HCHILDEVELOPMENT	19-Jan-22	16:00	11:20	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1587HHICKAM MAIN CDC-	19-Jan-22	16:00	11:22	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1588HCHILDEVELOPMENT	19-Jan-22	16:00	11:24	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1589HMAIN HIKAM CDC-	19-Jan-22	16:00	11:26	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1597AH/CDC COVERED	10-Jan-22	17:00	16:34	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1597HCHILDCARE CEN (D3-	10-Jan-22	17:00	16:34	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1598HCHILDEVELOPMENT	19-Jan-22	16:00	11:27	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1599HCHILDEVELOPMENT	19-Jan-22	16:00	11:29	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1628H/SAN SEWAGE PUMP STN	19-Jan-22	14:00	13:28	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1629H/ELEC PWR STN BLDG	19-Jan-22	14:00	13:30	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1654HCHILDEVELOPMENT	19-Jan-22	17:00	11:39	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1655H/CDC STORAGE (D3-	19-Jan-22	17:00	11:41	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1656H/CDC STORAGE (D3-	19-Jan-22	17:00	11:44	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1657H/CDC STORAGE (D3-	19-Jan-22	17:00	11:46	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1658HCHILDEVELOPMENT	19-Jan-22	17:00	11:48	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1713H/REC SUP/HSG SUP (D3-	18-Jan-22	04:00	13:33	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1720H/EXCH GARAGE (D3-	19-Jan-22	10:00	12:56	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1722H/GOO FURN (D3-	19-Jan-22	12:00	14:04	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1723H/WHSE/COMMUNITY	19-Jan-22	05:00	13:34	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1724H/GSA (D3-BLDG1724H)	20-Jan-22	08:00	15:21	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1725H/GSA (D3-BLDG1725H)	20-Jan-22	08:00	13:36	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1726H/GSA (D3-BLDG1726H)	14-Jan-22	09:00	15:16	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1728H/CENTRAL EXCHANGE	20-Jan-22	08:00	13:39	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1750H/CHAPEL CENTER (D3-	19-Jan-22	10:00	12:49	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1756H/AAFES MINI-MALL (D3-	20-Jan-22	08:00	13:40	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1760H/MWR IT/REC EQUIP	20-Jan-22	08:00	12:51	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1766H/HICKAM MEMORIAL	20-Jan-22	09:00	13:43	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1804AH/TRADEWINDS STORAGE	20-Jan-22	08:00	12:56	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1804H/TRADEWINDS ENLISTED	20-Jan-22	08:00	12:54	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1805H/DORMITORY AIRMAN PP	20-Jan-22	12:00	14:51	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1807H/UTILITY VAULT (D3-	19-Jan-22	17:00	13:44	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1809H/EQUIPMENT SHED (D3-	19-Jan-22	17:00	13:45	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1810H/SHED SUPPLIES AND	20-Jan-22	09:00	13:47	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1843H/DORM AIRMAN	20-Jan-22	12:00	14:53	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1845H/STORAGE SHED (D3-	20-Jan-22	00:00	13:48	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1846H/STORAGE SHED (D3-	20-Jan-22	14:00	13:48	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1847H/STORAGE SHED (D3-	20-Jan-22	00:00	13:49	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1848H/POST OFFICE (D3-	20-Jan-22	11:00	13:51	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Flushing Zone D3	Building 1849H/STORAGE SHED (D3-	20-Jan-22	14:00	13:50	<input checked="" type="checkbox"/>		<input type="checkbox"/>	

Section 2b.1 Flushing Records and Distribution System Pressure Logs During Residential Flushing

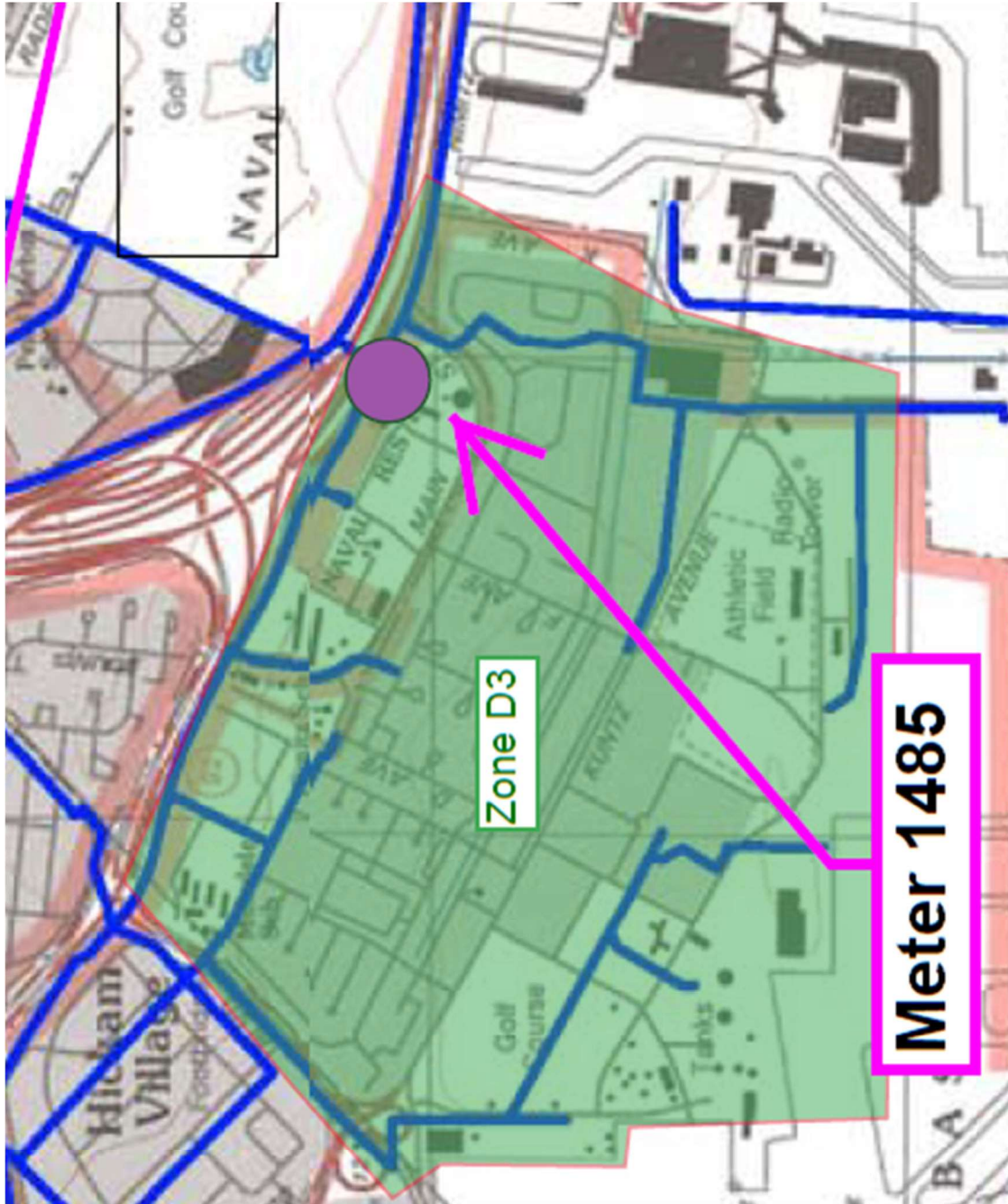
Flushing Zone D3

2022-01-10 - 2022-01-30

Flushing Zone D3	Building 1850H BINNICKER PNE CENTER	20-Jan-22	11:00	13:52	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 1851H FIRST TERM AIRMEN'S	20-Jan-22	12:00	12:57	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 1854H DORM AIRMAN PERM	18-Jan-22	13:54	13:54	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 1856H DORM AIRMAN	20-Jan-22	12:00	14:55	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 1859H MAKAI RECREATION	20-Jan-22	08:00	12:59	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 1860H HALE AINA (D3-	20-Jan-22	12:00	13:54	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 1861H ELECTRIC POWER	20-Jan-22	00:00	14:08	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 1889H ARTS AND CRAFTS	20-Jan-22	08:00	13:02	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 1891H BOWLING CENTER (D3-	20-Jan-22	08:00	13:05	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 2102H ELEC SWITCHING STN	20-Jan-22	13:00	13:56	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 2104H HAIR FORCE SECURITY	19-Jan-22	13:00	14:57	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 2105H GOLF CLUBHOUSE (D3-	20-Jan-22	08:00	13:07	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 2123H GENERAL STORAGE (D3-	20-Jan-22	13:00	15:19	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 2151H STANDBY GENERATOR	19-Jan-22	13:00	14:58	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 2152H PUMP STATION BLDG	16-Jan-22	10:00	14:25	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 2153H ELECTRIC POWER	20-Jan-22	11:00	14:10	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 2154H STANDBY GENERATOR	20-Jan-22	08:00	14:59	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 2155H WEAPON SYSTEM MAINT	19-Jan-22	12:00	12:50	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 2157H HYDRANT FUELING	16-Jan-22	13:00	14:28	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 2167H PETROLEUM	16-Jan-22	16:00	14:25	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 2169H ELECTRIC POWER	20-Jan-22	00:00	14:10	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 2171H CENTRAL EXCHANGE	19-Jan-22	10:00	14:41	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 2175H STOR LIQ OXYGEN (D3-	16-Jan-22	16:00	14:26	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 2176H 624TH RSG 48TH AP SQ	19-Jan-22	13:00	15:00	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 2177H PEST MANAGEMENT	20-Jan-22	06:00	14:14	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 2178H SAN SEWAGE PUMP STN	19-Jan-22	15:00	15:01	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 2181H BASE ENG PAV AND	20-Jan-22	15:00	15:03	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 2183H BASE ENG PAV AND	20-Jan-22	09:00	15:04	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 2184H FUEL MAINTENANCE	20-Jan-22	09:00	15:04	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 2191H Restrooms (D3-	20-Jan-22	12:00	15:05	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 2192H GOLF EQUIPMENT	20-Jan-22	08:00	13:08	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 3452H PUBLIC RR/ SNACK ST	19-Jan-22	10:00	13:59	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 3456H FLEET FAMILY READINESS	20-Jan-22	08:00	13:58	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 3950, Trinity Missionary Baptist	20-Jan-22	14:00	09:32	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 4002H HOBBY SHOP	19-Jan-22	10:00	12:54	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 4003H HOBBY SHOP	19-Jan-22	10:00	12:53	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 4008H SANITARY LATRINE (D3-	20-Jan-22	08:00	13:10	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 4016H UTILITY SYSTEMS SHOP	20-Jan-22	00:00	14:10	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 4017H UTILITY SYSTEMS	20-Jan-22	13:00	14:11	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 4030H UEM	20-Jan-22	10:00	14:19	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 4032H MILITARY WORKING	20-Jan-22	08:00	14:47	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 4068H MUNITIONS STORAGE	18-Jan-22	14:00	14:45	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 4069H TERMINAL AIR FREIGHT	19-Jan-22	00:00	14:06	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 4070H TRAFFIC CHECK HOUSE	20-Jan-22	17:00	15:15	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 4071H AF SECURITY SERVICE	19-Jan-22	12:00	13:03	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 4072H STANDBY GENERATOR	19-Jan-22	12:00	13:04	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 4073H TRAFFIC CHECK HOUSE	20-Jan-22	15:00	15:15	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 4074H UPS BUILDING (D3-	19-Jan-22	12:00	13:06	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 4100H RESERVE FORCES	19-Jan-22	15:00	14:20	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 4104H MOBILITY STORAGE	19-Jan-22	16:00	14:21	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 4115H VEHICLE OPS PARKING	20-Jan-22	12:00	15:07	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 4119H VEHICLE MAINTENANCE	20-Jan-22	09:00	15:08	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 515, Pearl Harbor Church of	30-Jan-22	16:00	09:34	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 520, Chester Nimitz Elementary	19-Jan-22	13:00	09:33	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 590, Defense POW/MIA	20-Jan-22	08:00	09:34	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 7474H SAN SEWAGE PUMP STN	20-Jan-22	08:00	15:08	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 7475H ELECTRIC POWER	20-Jan-22	00:00	14:11	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 75065H POV WASHRACK (D3-	19-Jan-22	16:00	15:11	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 830, Holy Family Catholic	22-Jan-22	09:00	09:35	<input checked="" type="checkbox"/>
Flushing Zone D3	Building 841 FLEET RESERVE	19-Jan-22	12:00	14:00	<input checked="" type="checkbox"/>

Key
☒ Not Started

Section 2b.1 Flushing Records and Distribution System Pressure Logs During Residential Flushing



Date	Time	Date/Time	4787	4127	4710	5004	5002	9050	7158	6780	2550	1846	1485
10-Jan-22	0:00:00	10-Jan-2200:00	70.1	34.5	79.0	76.0	76.3	71.4	74.0	65.0	37.0	63.0	65.0
10-Jan-22	0:30:00	10-Jan-2200:00	70.1	34.3	79.8	76.8	76.8	72.0	74.3	65.6	37.0	63.1	65.3
10-Jan-22	1:00:00	10-Jan-2201:00	70.1	32.5	80.0	76.7	77.0	72.0	74.0	66.0	37.3	63.2	66.0
10-Jan-22	1:30:00	10-Jan-2201:00	70.1	32.8	80.0	77.0	77.6	72.7	74.8	66.0	37.8	63.6	66.0
10-Jan-22	2:00:00	10-Jan-2202:00	62.6	34.5	76.0	71.2	71.9	70.5	70.6	64.6	36.4	62.5	64.7
10-Jan-22	2:30:00	10-Jan-2202:00	62.5	34.9	73.0	70.6	70.7	70.0	71.5	64.0	36.0	62.0	64.0
10-Jan-22	3:00:00	10-Jan-2203:00	62.5	35.5	73.0	70.0	70.2	70.0	71.0	63.9	36.0	61.5	63.7
10-Jan-22	3:30:00	10-Jan-2203:00	62.5	35.4	73.0	69.9	70.3	69.7	71.0	63.0	35.7	61.0	63.5
10-Jan-22	4:00:00	10-Jan-2204:00	60.9	34.5	73.0	69.0	70.0	69.2	70.4	63.0	35.1	61.0	63.0
10-Jan-22	4:30:00	10-Jan-2204:00	60.5	34.5	73.0	69.0	70.0	69.0	70.0	63.0	35.0	61.0	63.0
10-Jan-22	5:00:00	10-Jan-2205:00	60.5	34.5	72.2	69.0	69.5	69.0	70.0	62.1	34.8	60.7	62.7
10-Jan-22	5:30:00	10-Jan-2205:00	60.5	35.4	72.0	69.0	69.0	68.2	70.0	62.0	34.3	60.2	62.0
10-Jan-22	6:00:00	10-Jan-2206:00	60.5	35.5	71.0	68.0	68.6	68.0	69.8	62.0	34.0	59.9	62.0
10-Jan-22	6:30:00	10-Jan-2206:00	60.5	35.1	71.0	68.0	68.0	67.8	69.0	61.0	33.7	59.0	61.6
10-Jan-22	7:00:00	10-Jan-2207:00	58.6	35.2	71.0	67.4	68.0	67.0	69.0	61.0	33.3	59.0	61.0
10-Jan-22	7:30:00	10-Jan-2207:00	58.4	35.5	71.0	67.5	68.0	67.3	69.0	60.9	33.0	59.0	60.9
10-Jan-22	8:00:00	10-Jan-2208:00	66.1	33.9	71.4	71.2	72.0	68.3	70.6	61.2	33.9	59.5	62.6
10-Jan-22	8:30:00	10-Jan-2208:00	67.6	33.0	77.0	74.0	74.0	69.0	71.1	62.7	34.7	61.0	63.0
10-Jan-22	9:00:00	10-Jan-2209:00	67.6	34.3	77.0	74.0	74.2	69.3	72.0	63.0	35.0	60.8	63.0
10-Jan-22	9:30:00	10-Jan-2209:00	67.6	35.3	77.3	74.0	74.0	69.7	72.0	63.0	35.0	61.0	63.0
10-Jan-22	10:00:00	10-Jan-2210:00	67.6	36.9	77.3	74.0	74.0	69.4	72.0	63.0	35.0	61.0	63.3
10-Jan-22	10:30:00	10-Jan-2210:00	67.6	35.5	78.0	74.0	74.0	69.6	72.0	63.0	35.0	61.3	63.6
10-Jan-22	11:00:00	10-Jan-2211:00	68.1	34.9	78.0	74.3	74.3	69.8	72.3	63.4	35.0	61.3	63.9
10-Jan-22	11:30:00	10-Jan-2211:00	69.7	32.5	78.0	74.4	74.4	70.0	72.7	64.0	35.7	61.9	64.0
10-Jan-22	12:00:00	10-Jan-2212:00	69.7	32.5	78.0	75.0	75.0	70.2	73.0	64.0	36.0	61.7	64.0
10-Jan-22	12:30:00	10-Jan-2212:00	69.7	32.7	78.3	75.0	75.0	70.1	73.0	64.0	36.0	62.0	64.0
10-Jan-22	13:00:00	10-Jan-2213:00	69.7	35.0	79.0	75.0	75.3	70.4	73.0	64.6	36.0	62.0	64.3
10-Jan-22	13:30:00	10-Jan-2213:00	69.7	35.5	78.4	75.0	75.3	71.0	73.0	64.1	36.0	62.0	64.6
10-Jan-22	14:00:00	10-Jan-2214:00	69.7	34.7	78.0	75.0	75.0	71.0	73.0	64.7	36.3	62.3	64.8
10-Jan-22	14:30:00	10-Jan-2214:00	69.7	34.5	78.0	75.0	75.3	70.9	73.0	64.7	36.3	62.1	64.7
10-Jan-22	15:00:00	10-Jan-2215:00	69.7	34.5	78.0	75.3	75.2	71.1	73.0	64.9	36.3	62.5	64.6
10-Jan-22	15:30:00	10-Jan-2215:00	69.7	35.1	78.6	75.6	75.6	71.0	74.0	64.8	37.0	62.9	64.8
10-Jan-22	16:00:00	10-Jan-2216:00	69.7	35.5	79.0	75.0	74.9	71.0	74.0	65.0	37.0	62.7	65.0
10-Jan-22	16:30:00	10-Jan-2216:00	69.7	35.5	79.0	75.8	75.4	71.3	74.0	65.0	37.0	63.0	65.0
10-Jan-22	17:00:00	10-Jan-2217:00	69.7	35.5	79.0	75.1	75.0	71.0	74.0	65.0	37.0	63.0	65.0
10-Jan-22	17:30:00	10-Jan-2217:00	69.7	35.5	79.0	75.0	74.7	71.1	74.0	65.0	37.0	63.0	65.0

10-Jan-22	18:00:00	10-Jan-2218:00	67.8	35.5	78.9	74.4	73.4	71.4	73.8	65.0	36.9	63.0	64.5
10-Jan-22	18:30:00	10-Jan-2218:00	61.1	34.8	72.0	68.0	67.6	69.0	70.8	63.0	35.2	61.1	62.7
10-Jan-22	19:00:00	10-Jan-2219:00	59.1	31.8	71.4	67.1	66.1	68.2	70.0	62.0	34.4	60.2	62.0
10-Jan-22	19:30:00	10-Jan-2219:00	59.1	32.3	71.0	67.0	66.0	67.7	69.5	61.7	34.0	59.7	62.0
10-Jan-22	20:00:00	10-Jan-2220:00	59.1	34.5	70.5	66.2	65.2	67.2	69.0	61.3	34.0	59.2	61.6
10-Jan-22	20:30:00	10-Jan-2220:00	59.1	34.5	70.0	66.0	65.0	67.0	69.0	61.0	33.0	59.0	61.0
10-Jan-22	21:00:00	10-Jan-2221:00	62.6	34.5	70.0	67.5	66.4	67.0	70.7	61.1	33.0	59.3	61.1
10-Jan-22	21:30:00	10-Jan-2221:00	68.6	34.5	72.4	72.4	71.0	69.4	72.0	63.5	34.4	61.0	63.4
10-Jan-22	22:00:00	10-Jan-2222:00	68.6	32.3	77.0	72.7	70.7	70.0	72.0	64.0	35.0	61.4	64.0
10-Jan-22	22:30:00	10-Jan-2222:00	68.6	31.6	77.0	73.0	71.9	70.0	72.0	64.0	35.9	62.0	64.0
10-Jan-22	23:00:00	10-Jan-2223:00	68.6	31.8	77.0	73.0	71.0	70.0	72.0	64.0	36.0	62.0	64.0
10-Jan-22	23:30:00	10-Jan-2223:00	68.6	33.4	77.3	73.3	72.1	70.8	72.9	64.0	36.0	62.0	64.0
11-Jan-22	0:00:00	11-Jan-2200:00	68.6	33.6	77.9	73.0	71.6	70.4	73.0	64.0	36.0	62.0	64.0
11-Jan-22	0:30:00	11-Jan-2200:00	68.6	34.5	77.6	73.0	71.0	71.0	73.0	64.7	36.0	62.0	64.4
11-Jan-22	1:00:00	11-Jan-2201:00	68.6	34.5	78.0	73.4	71.0	71.0	73.0	65.0	36.2	62.6	65.0
11-Jan-22	1:30:00	11-Jan-2201:00	68.6	35.2	78.0	74.0	71.5	71.0	73.3	65.0	36.7	63.0	65.0
11-Jan-22	2:00:00	11-Jan-2202:00	68.6	35.5	78.0	74.0	72.0	71.7	74.0	65.0	37.0	63.0	65.0
11-Jan-22	2:30:00	11-Jan-2202:00	68.6	35.5	78.0	74.2	72.8	72.0	74.0	65.4	37.0	63.0	65.3
11-Jan-22	3:00:00	11-Jan-2203:00	68.6	35.3	78.9	74.7	73.7	72.0	74.0	66.0	37.0	63.0	66.0
11-Jan-22	3:30:00	11-Jan-2203:00	70.0	34.5	79.0	75.3	74.0	72.0	74.0	66.0	37.9	64.0	66.0
11-Jan-22	4:00:00	11-Jan-2204:00	63.0	34.5	79.0	71.2	69.8	70.5	72.2	64.3	36.3	62.6	64.1
11-Jan-22	4:30:00	11-Jan-2204:00	61.9	35.2	75.8	68.3	67.0	69.3	70.8	63.0	35.5	61.0	63.0
11-Jan-22	5:00:00	11-Jan-2205:00	59.9	35.5	72.0	67.7	67.0	68.7	70.0	62.6	35.0	60.7	62.7
11-Jan-22	5:30:00	11-Jan-2205:00	59.9	35.5	71.0	68.0	67.0	68.0	70.0	62.0	34.2	60.3	62.2
11-Jan-22	6:00:00	11-Jan-2206:00	59.9	35.5	71.0	67.2	66.7	68.0	69.1	61.9	34.0	60.0	62.0
11-Jan-22	6:30:00	11-Jan-2206:00	59.9	35.5	71.0	66.7	66.0	67.6	69.0	61.0	34.0	59.4	61.2
11-Jan-22	7:00:00	11-Jan-2207:00	57.9	35.5	69.3	66.1	65.7	66.2	68.1	60.3	32.4	57.4	60.2
11-Jan-22	7:30:00	11-Jan-2207:00	57.7	35.5	69.0	65.7	65.4	65.7	67.5	59.7	31.8	57.0	59.6
11-Jan-22	8:00:00	11-Jan-2208:00	59.4	34.7	69.0	65.1	65.1	64.9	67.2	59.1	31.2	56.5	59.2
11-Jan-22	8:30:00	11-Jan-2208:00	66.2	34.4	75.9	69.9	72.3	67.8	70.8	62.2	33.2	58.7	61.8
11-Jan-22	9:00:00	11-Jan-2209:00	66.2	33.5	76.0	72.7	73.0	68.3	70.9	62.0	33.6	59.0	62.0
11-Jan-22	9:30:00	11-Jan-2209:00	66.2	33.5	76.0	73.0	72.8	68.0	71.0	62.0	34.0	59.3	62.0
11-Jan-22	10:00:00	11-Jan-2210:00	67.0	33.5	76.5	73.0	73.4	68.0	71.0	62.0	33.7	59.0	62.0
11-Jan-22	10:30:00	11-Jan-2210:00	68.2	34.0	77.0	73.1	73.6	68.0	71.0	62.0	34.0	59.0	62.0
11-Jan-22	11:00:00	11-Jan-2211:00	68.2	33.1	76.8	73.5	73.8	68.0	71.0	62.3	34.0	59.4	62.0
11-Jan-22	11:30:00	11-Jan-2211:00	68.2	32.5	76.6	73.0	73.4	68.6	71.9	62.8	34.0	60.0	62.0
11-Jan-22	12:00:00	11-Jan-2212:00	68.2	32.6	77.0	74.0	73.5	69.0	71.6	62.4	34.0	60.0	62.0
11-Jan-22	12:30:00	11-Jan-2212:00	68.2	34.6	77.0	73.7	73.7	68.7	71.4	62.8	34.0	60.0	62.7

11-Jan-22	13:00:00	11-Jan-2213:00	68.2	35.5	77.0	74.0	74.0	69.0	72.0	63.0	34.0	60.0	63.0
11-Jan-22	13:30:00	11-Jan-2213:00	68.2	35.5	77.0	74.0	74.0	69.0	71.7	63.0	34.0	60.0	62.9
11-Jan-22	14:00:00	11-Jan-2214:00	68.2	34.8	77.0	74.0	74.0	69.0	72.0	63.0	34.0	60.0	62.8
11-Jan-22	14:30:00	11-Jan-2214:00	68.2	33.7	77.0	74.0	74.0	69.0	72.0	63.0	34.0	60.0	63.0
11-Jan-22	15:00:00	11-Jan-2215:00	68.2	33.5	77.0	74.0	74.0	69.0	72.0	63.0	34.4	60.0	63.0
11-Jan-22	15:30:00	11-Jan-2215:00	68.2	33.5	77.0	74.0	74.0	69.0	72.0	63.0	34.1	60.0	63.0
11-Jan-22	16:00:00	11-Jan-2216:00	68.2	33.5	77.0	74.0	74.0	69.0	72.0	63.0	34.3	60.0	63.0
11-Jan-22	16:30:00	11-Jan-2216:00	68.2	33.5	77.0	74.0	74.0	69.0	72.0	63.0	34.5	60.0	63.0
11-Jan-22	17:00:00	11-Jan-2217:00	68.2	33.5	77.0	73.2	72.3	69.0	72.0	63.0	35.0	60.0	63.0
11-Jan-22	17:30:00	11-Jan-2217:00	68.2	33.5	76.1	73.0	72.0	69.0	72.0	63.0	34.6	60.0	63.0
11-Jan-22	18:00:00	11-Jan-2218:00	68.2	33.5	76.8	72.5	70.4	69.0	71.4	63.0	34.0	60.0	63.0
11-Jan-22	18:30:00	11-Jan-2218:00	68.2	33.5	76.0	71.4	69.7	69.0	71.3	63.0	34.0	60.0	63.0
11-Jan-22	19:00:00	11-Jan-2219:00	66.2	33.5	76.0	70.3	67.5	69.0	71.2	62.1	34.0	60.0	62.4
11-Jan-22	19:30:00	11-Jan-2219:00	66.2	34.0	76.0	70.6	67.5	69.0	71.0	62.1	34.0	60.0	62.0
11-Jan-22	20:00:00	11-Jan-2220:00	66.2	34.5	75.4	70.0	66.0	69.0	71.0	62.1	34.0	60.0	62.0
11-Jan-22	20:30:00	11-Jan-2220:00	66.2	34.5	75.1	70.0	66.3	68.4	71.0	62.0	34.0	60.0	62.0
11-Jan-22	21:00:00	11-Jan-2221:00	66.2	34.5	75.0	69.7	65.4	68.4	71.0	62.0	34.0	60.0	62.0
11-Jan-22	21:30:00	11-Jan-2221:00	66.2	34.5	75.0	70.0	66.3	69.0	71.0	62.1	34.0	60.0	62.0
11-Jan-22	22:00:00	11-Jan-2222:00	66.2	32.1	75.2	70.0	66.0	69.0	71.0	62.7	34.0	60.0	62.5
11-Jan-22	22:30:00	11-Jan-2222:00	66.2	30.6	76.0	70.0	66.6	69.0	71.0	63.0	34.0	60.0	62.7
11-Jan-22	23:00:00	11-Jan-2223:00	66.2	31.1	75.3	70.0	65.1	69.0	71.0	63.0	34.0	60.0	62.7
11-Jan-22	23:30:00	11-Jan-2223:00	66.2	31.9	75.5	70.3	66.5	69.0	71.3	63.0	34.3	60.0	63.0
12-Jan-22	0:00:00	12-Jan-2200:00	66.2	32.5	76.0	70.0	65.0	69.0	71.0	63.0	34.0	60.0	63.0
12-Jan-22	0:30:00	12-Jan-2200:30	66.2	32.6	76.0	70.0	65.8	69.0	71.3	63.0	34.3	60.0	63.0
12-Jan-22	1:00:00	12-Jan-2201:00	66.2	33.5	75.3	70.0	66.3	69.0	71.7	63.0	34.0	60.0	63.0
12-Jan-22	1:30:00	12-Jan-2201:30	66.2	34.0	75.0	70.7	66.6	69.0	72.0	63.0	34.8	60.0	63.0
12-Jan-22	2:00:00	12-Jan-2202:00	66.2	34.5	75.8	70.4	66.3	69.0	72.0	63.0	35.0	60.0	63.0
12-Jan-22	2:30:00	12-Jan-2202:30	66.2	34.5	76.0	71.0	66.4	69.7	72.0	63.0	35.0	60.6	63.0
12-Jan-22	3:00:00	12-Jan-2203:00	66.2	34.5	76.0	71.0	67.5	70.0	72.0	63.0	35.0	60.6	63.0
12-Jan-22	3:30:00	12-Jan-2203:30	67.7	34.5	76.6	71.3	68.9	70.0	72.0	63.5	35.0	60.9	63.2
12-Jan-22	4:00:00	12-Jan-2204:00	68.2	33.9	76.5	71.2	67.4	70.0	72.0	63.1	35.0	61.0	63.1
12-Jan-22	4:30:00	12-Jan-2204:30	68.2	31.9	76.0	71.4	68.0	70.0	72.0	63.0	35.0	61.0	63.0
12-Jan-22	5:00:00	12-Jan-2205:00	68.2	32.7	76.3	71.2	68.0	70.0	72.0	63.0	35.0	60.7	63.0
12-Jan-22	5:30:00	12-Jan-2205:30	68.2	35.5	76.0	71.4	68.1	69.1	72.0	63.0	35.0	60.5	63.0
12-Jan-22	6:00:00	12-Jan-2206:00	68.2	35.5	76.0	71.5	69.2	69.3	72.0	63.0	35.0	60.3	63.0
12-Jan-22	6:30:00	12-Jan-2206:30	68.2	34.6	76.3	71.6	69.6	69.6	72.0	63.1	35.1	60.2	63.1
12-Jan-22	7:00:00	12-Jan-2207:00	68.2	34.2	77.0	73.1	71.1	70.0	72.5	64.0	36.0	61.9	64.0
12-Jan-22	7:30:00	12-Jan-2207:30	68.2	33.0	77.0	73.5	72.3	70.0	72.1	64.0	36.0	62.0	64.0

12-Jan-22	8:00:00	12-Jan-2208:00	68.2	33.0	76.9	73.0	72.0	70.0	72.0	63.8	36.0	62.0	64.0
12-Jan-22	8:30:00	12-Jan-2208:30	68.2	32.2	76.8	73.0	72.5	70.0	72.0	63.9	36.0	61.7	64.0
12-Jan-22	9:00:00	12-Jan-2209:00	68.2	30.0	77.0	73.3	73.1	70.0	72.0	64.0	36.0	62.0	64.0
12-Jan-22	9:30:00	12-Jan-2209:30	68.2	29.3	77.0	73.7	74.0	70.6	72.3	64.3	36.0	62.3	64.6
12-Jan-22	10:00:00	12-Jan-2210:00	68.2	29.5	77.0	74.0	72.9	70.0	72.4	64.2	36.0	62.0	64.0
12-Jan-22	10:30:00	12-Jan-2210:30	68.2	29.6	78.0	74.7	74.1	70.7	73.0	64.7	36.0	62.1	64.3
12-Jan-22	11:00:00	12-Jan-2211:00	68.2	29.6	78.0	74.4	73.9	71.0	73.0	64.7	36.0	62.2	64.7
12-Jan-22	11:30:00	12-Jan-2211:30	69.9	29.6	78.3	74.7	74.9	71.0	73.0	65.0	36.5	62.3	65.0
12-Jan-22	12:00:00	12-Jan-2212:00	70.2	29.6	78.0	75.0	74.5	71.0	73.0	65.0	36.7	62.7	65.0
12-Jan-22	12:30:00	12-Jan-2212:30	70.2	29.6	78.4	75.0	74.1	71.0	73.7	65.0	37.0	63.0	65.0
12-Jan-22	13:00:00	12-Jan-2213:00	70.2	29.6	79.2	75.8	75.5	71.9	74.2	65.9	37.3	63.7	65.6
12-Jan-22	13:30:00	12-Jan-2213:30	70.2	29.6	80.0	76.6	76.6	72.5	75.0	67.0	38.0	64.0	66.0
12-Jan-22	14:00:00	12-Jan-2214:00	62.3	28.9	75.5	73.1	72.8	71.6	73.6	65.0	36.6	62.3	64.8
12-Jan-22	14:30:00	12-Jan-2214:30	61.8	28.6	73.0	69.8	70.0	70.3	71.3	64.0	36.0	62.0	64.0
12-Jan-22	15:00:00	12-Jan-2215:00	61.8	27.9	73.0	69.9	70.6	70.0	71.0	64.0	36.0	62.0	64.0
12-Jan-22	15:30:00	12-Jan-2215:30	61.8	28.7	73.0	70.0	70.0	70.0	71.0	64.0	36.0	61.7	64.0
12-Jan-22	16:00:00	12-Jan-2216:00	61.8	29.8	72.8	69.5	69.8	70.0	71.0	64.0	36.0	62.0	64.0
12-Jan-22	16:30:00	12-Jan-2216:30	61.8	30.9	72.9	69.6	69.9	70.0	71.0	63.8	35.9	61.4	63.3
12-Jan-22	17:00:00	12-Jan-2217:00	61.8	31.6	72.0	69.0	69.2	69.7	71.0	63.0	35.0	61.3	63.0
12-Jan-22	17:30:00	12-Jan-2217:30	59.9	31.6	72.0	68.1	68.8	68.2	70.0	62.3	34.6	60.2	62.6
12-Jan-22	18:00:00	12-Jan-2218:00	59.7	31.6	71.3	67.3	67.6	68.0	69.2	61.7	34.0	59.7	62.0
12-Jan-22	18:30:00	12-Jan-2218:30	61.9	31.6	71.0	67.0	67.0	67.2	69.1	61.3	33.7	59.5	61.6
12-Jan-22	19:00:00	12-Jan-2219:00	68.6	31.6	76.9	74.1	73.9	69.9	72.0	63.4	33.9	60.9	63.4
12-Jan-22	19:30:00	12-Jan-2219:30	68.6	31.6	77.2	74.5	74.0	70.0	72.0	63.7	35.0	61.3	64.0
12-Jan-22	20:00:00	12-Jan-2220:00	68.6	31.6	78.0	74.4	74.3	70.0	72.0	64.0	35.4	61.0	64.0
12-Jan-22	20:30:00	12-Jan-2220:30	68.6	32.1	78.0	74.7	75.0	70.0	72.8	64.0	36.0	61.7	64.0
12-Jan-22	21:00:00	12-Jan-2221:00	68.6	32.7	78.0	75.0	75.0	70.3	73.0	64.0	36.0	62.0	64.0
12-Jan-22	21:30:00	12-Jan-2221:30	68.6	33.8	78.2	75.2	75.2	71.0	73.0	64.0	36.0	62.0	64.3
12-Jan-22	22:00:00	12-Jan-2222:00	68.6	33.9	79.0	76.0	75.7	71.0	73.9	65.0	36.1	62.5	65.0
12-Jan-22	22:30:00	12-Jan-2222:30	69.1	33.3	79.0	76.0	76.3	71.4	74.0	65.0	37.0	63.0	65.0
12-Jan-22	23:00:00	12-Jan-2223:00	70.6	26.2	79.0	76.0	76.3	72.0	74.0	65.1	37.0	63.0	65.1
12-Jan-22	23:30:00	12-Jan-2223:30	70.6	19.4	79.7	76.1	77.0	72.0	74.0	66.0	37.0	63.3	66.0
13-Jan-22	0:00:00	13-Jan-2200:00	70.6	17.0	79.4	76.4	77.0	72.0	74.3	66.0	37.1	63.2	66.0
13-Jan-22	0:30:00	13-Jan-2200:30	69.8	17.2	79.4	77.0	77.0	72.1	75.0	66.0	38.0	64.0	66.0
13-Jan-22	1:00:00	13-Jan-2201:00	61.6	24.1	76.1	71.1	71.3	70.5	72.3	64.3	36.2	62.5	64.1
13-Jan-22	1:30:00	13-Jan-2201:30	61.6	33.6	73.0	70.0	70.0	70.0	71.2	64.0	36.0	62.0	64.0
13-Jan-22	2:00:00	13-Jan-2202:00	61.6	33.5	73.0	69.7	70.0	69.8	71.0	63.7	36.0	62.0	64.0
13-Jan-22	2:30:00	13-Jan-2202:30	61.6	35.3	73.0	70.0	70.0	70.0	71.0	63.7	36.0	62.0	64.0

13-Jan-22	3:00:00	13-Jan-2203:00	61.6	35.5	73.0	70.0	70.0	70.0	71.0	63.4	35.7	61.3	63.4
13-Jan-22	3:30:00	13-Jan-2203:30	61.6	35.5	73.0	70.0	70.0	69.6	71.0	63.0	35.3	61.0	63.5
13-Jan-22	4:00:00	13-Jan-2204:00	61.6	35.7	73.0	69.5	70.0	69.0	70.4	63.0	35.0	61.0	63.0
13-Jan-22	4:30:00	13-Jan-2204:30	61.6	36.4	72.0	69.0	69.6	69.0	70.3	63.0	35.0	61.0	63.0
13-Jan-22	5:00:00	13-Jan-2205:00	61.6	35.3	72.0	68.8	69.0	68.2	70.2	62.0	34.7	60.0	62.1
13-Jan-22	5:30:00	13-Jan-2205:30	69.4	34.5	76.6	75.3	75.8	70.8	74.4	63.8	35.5	61.8	63.5
13-Jan-22	6:00:00	13-Jan-2206:00	69.4	33.9	78.5	75.5	75.7	70.7	73.0	64.1	36.0	62.0	64.0
13-Jan-22	6:30:00	13-Jan-2206:30	69.4	35.5	78.7	75.3	75.6	70.7	73.3	64.0	36.0	62.0	64.0
13-Jan-22	7:00:00	13-Jan-2207:00	69.4	35.5	78.5	74.7	75.0	70.7	73.0	64.1	36.0	62.4	64.6
13-Jan-22	7:30:00	13-Jan-2207:30	69.4	35.5	78.0	75.4	75.0	70.9	73.6	64.4	36.7	62.7	64.7
13-Jan-22	8:00:00	13-Jan-2208:00	69.4	34.8	78.5	75.2	75.3	70.8	73.6	64.7	36.7	62.3	64.7
13-Jan-22	8:30:00	13-Jan-2208:30	69.4	34.5	78.4	75.0	75.0	71.0	73.6	65.0	37.0	62.9	65.0
13-Jan-22	9:00:00	13-Jan-2209:00	69.4	34.5	79.0	76.0	75.6	71.7	73.8	65.0	37.0	63.0	65.0
13-Jan-22	9:30:00	13-Jan-2209:30	69.4	34.2	79.3	76.0	76.4	71.5	74.0	65.4	37.0	63.0	65.0
13-Jan-22	10:00:00	13-Jan-2210:00	65.7	33.5	79.0	75.0	75.6	70.6	74.0	64.6	36.6	61.2	64.5
13-Jan-22	10:30:00	13-Jan-2210:30	61.3	33.5	73.1	69.0	69.1	68.3	70.3	62.3	35.0	60.7	62.9
13-Jan-22	11:00:00	13-Jan-2211:00	61.3	33.7	72.0	69.0	69.3	68.4	70.3	62.0	35.0	60.7	62.5
13-Jan-22	11:30:00	13-Jan-2211:30	59.9	35.4	71.7	68.4	69.0	68.5	70.0	62.3	34.2	60.0	62.4
13-Jan-22	12:00:00	13-Jan-2212:00	59.2	35.5	72.0	68.0	69.0	68.0	70.0	62.0	34.3	60.0	62.0
13-Jan-22	12:30:00	13-Jan-2212:30	59.2	35.5	71.5	67.8	68.2	67.5	69.1	61.7	33.7	59.3	62.0
13-Jan-22	13:00:00	13-Jan-2213:00	59.2	35.5	71.0	67.9	67.7	67.3	69.0	61.0	32.7	59.3	61.0
13-Jan-22	13:30:00	13-Jan-2213:30	59.2	35.0	71.0	67.4	68.0	67.0	69.0	61.0	33.0	58.7	61.0
13-Jan-22	14:00:00	13-Jan-2214:00	59.2	34.5	70.4	67.1	67.1	66.2	68.1	60.6	32.7	58.4	60.6
13-Jan-22	14:30:00	13-Jan-2214:30	63.2	34.5	70.0	68.2	68.5	67.2	68.8	60.8	33.2	58.8	60.7
13-Jan-22	15:00:00	13-Jan-2215:00	67.9	34.5	76.3	74.2	74.8	69.3	72.0	63.3	34.6	61.0	63.0
13-Jan-22	15:30:00	13-Jan-2215:30	67.9	34.5	77.3	74.0	74.4	69.9	72.0	63.5	34.7	61.0	63.3
13-Jan-22	16:00:00	13-Jan-2216:00	67.9	34.4	77.0	74.2	74.8	69.7	72.0	63.7	35.0	61.1	63.6
13-Jan-22	16:30:00	13-Jan-2216:30	67.9	33.5	77.6	75.0	75.3	70.0	72.7	64.0	35.0	61.4	64.0
13-Jan-22	17:00:00	13-Jan-2217:00	67.9	33.1	77.7	74.3	74.8	70.0	72.2	64.0	35.0	61.1	64.0
13-Jan-22	17:30:00	13-Jan-2217:30	67.9	32.5	78.0	74.0	74.3	70.0	72.0	64.0	35.0	61.2	64.0
13-Jan-22	18:00:00	13-Jan-2218:00	67.9	32.5	77.7	74.0	74.3	70.0	72.0	64.0	35.7	61.7	64.0
13-Jan-22	18:30:00	13-Jan-2218:30	67.9	34.2	78.0	74.5	74.3	70.0	72.0	64.0	36.0	61.9	64.0
13-Jan-22	19:00:00	13-Jan-2219:00	67.9	34.5	78.0	74.4	74.0	70.0	72.6	64.0	36.0	61.8	64.0
13-Jan-22	19:30:00	13-Jan-2219:30	67.9	34.5	77.4	74.1	74.4	70.0	72.5	64.0	36.0	62.0	64.0
13-Jan-22	20:00:00	13-Jan-2220:00	67.9	34.5	78.0	75.0	75.0	70.8	73.0	64.0	36.0	62.0	64.0
13-Jan-22	20:30:00	13-Jan-2220:30	69.4	34.2	78.0	75.0	75.4	70.7	73.0	64.2	36.0	62.0	64.5
13-Jan-22	21:00:00	13-Jan-2221:00	69.9	31.8	78.5	75.2	76.0	71.0	73.6	65.0	36.3	62.5	65.0
13-Jan-22	21:30:00	13-Jan-2221:30	69.9	31.6	79.0	76.0	76.0	71.1	74.0	65.0	37.0	63.0	65.0

13-Jan-22	22:00:00	13-Jan-2222:00	69.9	31.6	79.0	76.0	76.0	72.0	74.0	65.0	37.0	63.0	65.3
13-Jan-22	22:30:00	13-Jan-2222:30	69.9	31.6	79.1	76.0	76.0	72.0	74.0	65.2	37.0	63.0	65.2
13-Jan-22	23:00:00	13-Jan-2223:00	69.9	33.7	79.8	76.0	76.0	72.0	74.0	66.0	37.0	63.2	66.0
13-Jan-22	23:30:00	13-Jan-2223:30	66.6	34.5	78.9	76.2	75.9	71.8	74.6	65.5	37.6	62.0	65.6
14-Jan-22	0:00:00	14-Jan-2200:00	61.0	34.5	73.0	70.0	70.0	69.5	71.3	63.4	36.0	61.5	63.7
14-Jan-22	0:30:00	14-Jan-2200:30	61.0	34.5	73.0	70.0	70.0	69.9	71.0	63.3	36.0	61.9	64.0
14-Jan-22	1:00:00	14-Jan-2201:00	61.0	34.5	73.0	69.8	70.0	69.5	71.0	63.0	35.4	61.0	63.7
14-Jan-22	1:30:00	14-Jan-2201:30	61.0	34.8	73.0	69.6	69.7	69.0	71.0	63.0	35.3	61.0	63.0
14-Jan-22	2:00:00	14-Jan-2202:00	61.0	35.5	72.7	69.4	70.0	69.0	71.0	63.0	35.0	61.0	63.0
14-Jan-22	2:30:00	14-Jan-2202:30	61.0	34.6	72.4	69.4	70.0	69.0	71.0	63.0	35.0	61.0	63.0
14-Jan-22	3:00:00	14-Jan-2203:00	61.0	33.7	72.0	69.0	70.0	69.0	71.0	63.0	35.0	61.0	63.0
14-Jan-22	3:30:00	14-Jan-2203:30	61.0	33.6	72.0	69.0	69.7	69.0	70.4	63.0	35.0	60.7	63.0
14-Jan-22	4:00:00	14-Jan-2204:00	64.4	34.5	73.0	70.0	70.1	69.0	70.8	62.7	35.2	60.6	63.5
14-Jan-22	4:30:00	14-Jan-2204:30	69.7	34.5	79.0	76.0	76.6	71.0	73.9	65.0	36.0	62.5	65.0
14-Jan-22	5:00:00	14-Jan-2205:00	69.7	34.7	79.0	76.0	76.3	71.0	73.2	65.0	36.2	62.3	65.0
14-Jan-22	5:30:00	14-Jan-2205:30	69.7	35.5	79.0	76.0	76.3	71.0	74.0	65.0	37.0	63.0	65.0
14-Jan-22	6:00:00	14-Jan-2206:00	69.7	35.5	79.0	75.9	76.3	71.2	73.5	64.8	37.0	62.7	64.8
14-Jan-22	6:30:00	14-Jan-2206:30	69.7	35.2	79.0	75.6	75.7	70.2	73.0	64.0	36.1	61.0	64.0
14-Jan-22	7:00:00	14-Jan-2207:00	69.7	33.8	79.0	75.0	75.7	70.4	73.0	64.0	36.0	61.3	64.0
14-Jan-22	7:30:00	14-Jan-2207:30	69.7	33.6	79.0	75.8	76.0	71.0	73.0	64.0	36.0	61.0	64.0
14-Jan-22	8:00:00	14-Jan-2208:00	69.7	34.5	79.0	76.0	75.7	70.7	73.0	64.0	35.9	60.7	64.0
14-Jan-22	8:30:00	14-Jan-2208:30	69.7	34.5	78.4	75.3	75.2	70.0	73.0	64.0	35.0	60.7	63.4
14-Jan-22	9:00:00	14-Jan-2209:00	69.7	34.5	78.7	75.3	75.3	70.0	73.0	64.1	35.4	61.2	63.7
14-Jan-22	9:30:00	14-Jan-2209:30	69.7	34.5	79.0	75.0	75.8	70.4	73.2	64.7	35.7	61.6	63.8
14-Jan-22	10:00:00	14-Jan-2210:00	69.7	34.5	78.7	75.3	75.6	70.8	73.1	65.0	35.7	60.8	64.0
14-Jan-22	10:30:00	14-Jan-2210:30	69.7	34.3	78.7	75.4	75.7	70.7	73.0	64.7	35.5	60.9	63.9
14-Jan-22	11:00:00	14-Jan-2211:00	69.7	33.5	78.2	75.2	75.4	70.5	73.0	64.4	35.4	61.6	64.0
14-Jan-22	11:30:00	14-Jan-2211:30	69.7	33.9	78.3	75.3	75.6	70.6	73.0	64.2	35.4	61.3	63.8
14-Jan-22	12:00:00	14-Jan-2212:00	69.7	34.5	79.0	75.5	75.5	71.5	73.8	65.3	36.3	62.1	64.9
14-Jan-22	12:30:00	14-Jan-2212:30	69.7	33.0	79.0	76.6	76.0	72.0	74.0	66.0	37.3	63.0	66.0
14-Jan-22	13:00:00	14-Jan-2213:00	61.9	31.9	75.1	74.3	72.0	70.6	71.7	64.1	36.2	61.8	63.8
14-Jan-22	13:30:00	14-Jan-2213:30	61.3	31.6	73.0	69.5	69.7	69.2	71.0	63.3	35.4	61.0	63.0
14-Jan-22	14:00:00	14-Jan-2214:00	60.1	31.6	72.1	69.0	69.4	69.0	70.7	63.0	35.0	60.7	63.0
14-Jan-22	14:30:00	14-Jan-2214:30	60.1	31.6	72.2	68.9	69.0	68.6	70.2	62.4	34.5	60.3	62.4
14-Jan-22	15:00:00	14-Jan-2215:00	60.1	31.6	71.7	68.7	68.6	68.0	69.7	62.0	34.0	60.0	62.0
14-Jan-22	15:30:00	14-Jan-2215:30	60.1	31.6	71.0	68.0	68.3	67.7	69.2	61.7	34.2	59.7	62.0
14-Jan-22	16:00:00	14-Jan-2216:00	60.1	31.6	71.3	68.0	68.5	68.0	70.0	62.0	34.1	60.0	62.0
14-Jan-22	16:30:00	14-Jan-2216:30	60.1	31.6	71.0	68.0	69.0	68.0	70.0	62.0	34.0	60.0	62.0

14-Jan-22	17:00:00	14-Jan-2217:00	60.1	31.6	71.0	68.0	68.0	68.0	69.6	62.0	34.0	60.0	62.0
14-Jan-22	17:30:00	14-Jan-2217:30	60.1	31.6	71.0	68.0	68.0	67.7	69.0	61.1	33.9	60.0	62.0
14-Jan-22	18:00:00	14-Jan-2218:00	58.4	31.6	70.0	66.4	67.4	67.0	69.0	61.0	33.0	60.0	61.6
14-Jan-22	18:30:00	14-Jan-2218:30	59.8	32.5	70.0	67.0	67.6	67.0	68.9	61.0	33.0	59.1	61.0
14-Jan-22	19:00:00	14-Jan-2219:00	58.1	33.5	70.0	67.0	67.3	67.0	68.0	60.8	33.0	58.4	61.0
14-Jan-22	19:30:00	14-Jan-2219:30	67.0	33.5	72.7	72.2	72.4	68.5	68.4	61.7	33.8	58.0	62.1
14-Jan-22	20:00:00	14-Jan-2220:00	67.3	34.0	77.0	74.0	74.0	69.0	72.0	63.0	34.8	60.9	63.0
14-Jan-22	20:30:00	14-Jan-2220:30	67.3	34.5	77.0	74.0	74.0	69.0	72.0	63.0	35.0	61.0	63.0
14-Jan-22	21:00:00	14-Jan-2221:00	67.3	34.5	77.3	74.0	74.3	69.0	72.0	63.2	35.0	61.0	63.1
14-Jan-22	21:30:00	14-Jan-2221:30	67.3	35.0	78.0	74.4	74.7	70.0	72.0	64.0	35.0	61.6	63.7
14-Jan-22	22:00:00	14-Jan-2222:00	68.2	34.8	78.0	74.7	75.0	70.0	72.6	64.0	35.6	61.7	64.0
14-Jan-22	22:30:00	14-Jan-2222:30	69.3	32.9	78.0	75.0	75.1	70.3	73.0	64.0	36.0	61.7	64.0
14-Jan-22	23:00:00	14-Jan-2223:00	69.3	32.5	78.0	75.0	74.9	70.6	73.0	64.0	36.0	62.0	64.0
14-Jan-22	23:30:00	14-Jan-2223:30	69.3	34.2	78.7	75.1	75.2	71.0	73.2	64.6	36.0	62.3	64.8
15-Jan-22	0:00:00	15-Jan-2200:00	69.3	35.5	79.0	75.4	75.4	71.0	73.7	65.0	36.0	62.0	65.0
15-Jan-22	0:30:00	15-Jan-2200:30	69.3	35.5	79.0	76.0	76.0	71.4	74.0	65.0	36.8	62.6	65.0
15-Jan-22	1:00:00	15-Jan-2201:00	69.3	35.0	79.0	76.0	76.0	72.0	74.0	65.1	37.0	63.0	65.1
15-Jan-22	1:30:00	15-Jan-2201:30	69.3	33.5	80.0	76.4	76.1	72.0	74.0	66.0	37.0	63.0	66.0
15-Jan-22	2:00:00	15-Jan-2202:00	69.5	33.5	80.0	77.0	77.0	72.0	74.6	66.0	37.3	63.7	66.0
15-Jan-22	2:30:00	15-Jan-2202:30	71.3	33.8	80.0	77.0	77.1	72.6	75.0	66.0	38.0	64.0	66.0
15-Jan-22	3:00:00	15-Jan-2203:00	66.9	34.5	80.0	76.3	78.0	72.6	75.0	66.0	37.5	61.8	65.5
15-Jan-22	3:30:00	15-Jan-2203:30	61.1	34.5	76.4	70.4	71.7	70.0	72.1	64.0	36.0	62.0	64.0
15-Jan-22	4:00:00	15-Jan-2204:00	61.1	34.5	73.5	70.0	70.0	70.0	71.0	64.0	36.0	62.0	64.0
15-Jan-22	4:30:00	15-Jan-2204:30	61.1	34.8	73.0	70.0	70.0	70.0	71.0	63.9	36.0	61.8	64.0
15-Jan-22	5:00:00	15-Jan-2205:00	61.1	34.9	73.0	69.6	70.0	69.0	71.0	63.0	35.2	61.0	63.2
15-Jan-22	5:30:00	15-Jan-2205:30	61.1	34.5	73.0	69.0	69.7	69.0	71.0	63.0	35.0	61.0	63.0
15-Jan-22	6:00:00	15-Jan-2206:00	61.1	34.0	72.0	69.2	69.6	69.0	70.8	63.0	35.0	61.0	63.0
15-Jan-22	6:30:00	15-Jan-2206:30	61.1	35.0	72.0	69.2	69.3	69.0	70.0	62.9	35.0	61.0	63.0
15-Jan-22	7:00:00	15-Jan-2207:00	61.1	35.5	72.0	68.9	68.9	68.9	70.0	62.0	34.8	60.4	62.8
15-Jan-22	7:30:00	15-Jan-2207:30	61.1	35.5	71.4	68.0	68.6	68.0	70.0	62.0	34.0	60.0	62.0
15-Jan-22	8:00:00	15-Jan-2208:00	59.7	35.5	71.3	68.3	68.6	68.0	69.6	62.0	34.0	59.7	62.0
15-Jan-22	8:30:00	15-Jan-2208:30	59.1	35.5	71.0	68.0	68.0	68.0	69.0	61.7	34.0	59.7	62.0
15-Jan-22	9:00:00	15-Jan-2209:00	63.7	35.5	71.0	70.3	70.5	68.7	70.3	62.2	34.4	60.0	63.6
15-Jan-22	9:30:00	15-Jan-2209:30	68.5	35.5	76.4	74.8	74.8	70.0	72.8	63.6	35.3	61.3	63.6
15-Jan-22	10:00:00	15-Jan-2210:00	68.7	35.5	78.0	75.0	74.7	70.0	72.7	64.0	35.7	61.0	64.0
15-Jan-22	10:30:00	15-Jan-2210:30	68.7	35.5	78.0	74.4	75.0	70.6	73.0	64.0	36.0	62.0	64.0
15-Jan-22	11:00:00	15-Jan-2211:00	68.7	34.6	78.3	75.0	75.6	70.9	73.0	65.0	36.0	62.0	64.6
15-Jan-22	11:30:00	15-Jan-2211:30	68.7	32.5	79.0	75.3	75.7	71.0	73.0	65.0	36.0	62.0	64.8

15-Jan-22	12:00:00	15-Jan-2212:00	68.7	32.3	79.0	75.6	76.0	71.0	73.3	65.0	36.3	62.5	65.0
15-Jan-22	12:30:00	15-Jan-2212:30	69.4	33.5	79.0	76.0	76.0	71.0	74.0	65.0	36.7	62.7	65.0
15-Jan-22	13:00:00	15-Jan-2213:00	70.8	33.5	79.0	76.0	76.0	71.5	74.0	65.0	37.0	63.0	65.0
15-Jan-22	13:30:00	15-Jan-2213:30	70.8	33.5	79.1	76.0	76.0	72.0	74.0	65.5	37.0	63.0	65.0
15-Jan-22	14:00:00	15-Jan-2214:00	70.8	33.5	80.0	76.3	76.2	72.0	74.3	66.0	37.0	63.0	65.9
15-Jan-22	14:30:00	15-Jan-2214:30	70.8	33.5	80.0	76.1	76.1	72.0	74.9	66.0	37.4	63.0	66.0
15-Jan-22	15:00:00	15-Jan-2215:00	63.2	32.7	73.8	69.7	73.6	68.8	72.4	64.7	36.9	62.3	64.8
15-Jan-22	15:30:00	15-Jan-2215:30	61.6	32.5	73.0	70.0	70.3	69.7	71.0	63.3	36.0	61.2	63.9
15-Jan-22	16:00:00	15-Jan-2216:00	61.6	32.5	72.9	69.6	70.0	69.6	71.0	63.0	35.4	61.0	63.0
15-Jan-22	16:30:00	15-Jan-2216:30	61.6	32.5	72.0	69.0	69.7	69.0	71.0	63.0	35.1	61.0	63.0
15-Jan-22	17:00:00	15-Jan-2217:00	61.6	32.5	72.0	69.0	69.3	69.0	70.6	63.0	35.0	61.0	63.0
15-Jan-22	17:30:00	15-Jan-2217:30	59.7	32.5	72.0	68.6	69.0	68.7	70.0	62.1	35.0	59.8	62.7
15-Jan-22	18:00:00	15-Jan-2218:00	59.6	32.2	71.7	68.3	68.5	68.5	70.0	62.0	34.1	60.0	62.3
15-Jan-22	18:30:00	15-Jan-2218:30	59.6	31.6	71.0	68.0	68.3	68.0	70.0	62.0	34.0	60.0	62.0
15-Jan-22	19:00:00	15-Jan-2219:00	62.2	31.6	71.0	68.7	71.8	68.2	69.2	61.5	34.0	60.0	61.8
15-Jan-22	19:30:00	15-Jan-2219:30	68.5	32.5	77.4	74.5	75.9	69.6	72.3	64.0	35.7	61.4	64.0
15-Jan-22	20:00:00	15-Jan-2220:00	68.5	32.5	78.0	75.0	75.3	70.0	73.0	64.0	36.0	61.7	64.0
15-Jan-22	20:30:00	15-Jan-2220:30	68.5	32.7	78.0	75.0	75.0	70.3	73.0	64.0	36.0	62.0	64.0
15-Jan-22	21:00:00	15-Jan-2221:00	68.5	33.5	78.7	75.2	75.8	71.0	73.0	64.3	36.0	62.0	64.3
15-Jan-22	21:30:00	15-Jan-2221:30	68.5	33.5	79.0	76.0	76.0	71.0	73.0	64.7	36.0	62.2	64.4
15-Jan-22	22:00:00	15-Jan-2222:00	68.5	33.5	79.0	76.0	76.3	71.0	73.7	65.0	36.8	63.0	65.0
15-Jan-22	22:30:00	15-Jan-2222:30	69.0	33.5	79.0	76.0	76.2	71.2	74.0	65.0	36.4	63.0	65.0
15-Jan-22	23:00:00	15-Jan-2223:00	70.6	33.5	79.0	76.0	76.1	71.7	74.0	65.0	37.0	63.0	65.0
15-Jan-22	23:30:00	15-Jan-2223:30	70.6	33.5	79.5	76.2	76.8	72.0	74.0	65.6	37.0	63.0	65.6
16-Jan-22	0:00:00	16-Jan-2200:00	70.6	33.5	80.0	76.1	76.7	72.0	74.3	65.7	37.1	63.0	66.0
16-Jan-22	0:30:00	16-Jan-2200:30	70.6	33.5	80.0	76.8	77.0	72.0	74.3	66.0	37.7	63.7	66.0
16-Jan-22	1:00:00	16-Jan-2201:00	67.7	34.1	80.0	76.7	76.7	72.0	74.7	65.7	37.8	63.2	65.7
16-Jan-22	1:30:00	16-Jan-2201:30	62.5	34.4	74.6	70.0	71.0	70.0	72.0	64.0	36.0	62.0	64.0
16-Jan-22	2:00:00	16-Jan-2202:00	62.5	32.6	73.0	70.0	70.2	70.0	71.0	64.0	36.0	62.0	64.0
16-Jan-22	2:30:00	16-Jan-2202:30	62.5	32.5	73.0	70.0	70.5	70.0	71.0	64.0	36.0	62.0	64.0
16-Jan-22	3:00:00	16-Jan-2203:00	62.5	32.6	73.0	70.0	70.3	70.0	71.0	63.3	36.0	61.2	64.0
16-Jan-22	3:30:00	16-Jan-2203:30	61.5	34.8	73.0	70.0	70.0	70.0	71.0	63.0	35.7	61.0	63.7
16-Jan-22	4:00:00	16-Jan-2204:00	60.6	34.8	72.1	69.1	70.0	69.2	71.0	63.0	35.1	61.0	63.0
16-Jan-22	4:30:00	16-Jan-2204:30	60.6	33.6	72.3	70.0	70.0	69.0	70.8	63.0	35.0	61.0	63.0
16-Jan-22	5:00:00	16-Jan-2205:00	60.6	34.2	72.0	69.1	69.7	69.0	70.0	63.0	35.0	61.0	63.0
16-Jan-22	5:30:00	16-Jan-2205:30	60.6	34.5	72.0	69.0	69.7	69.0	70.0	62.7	35.0	61.0	63.0
16-Jan-22	6:00:00	16-Jan-2206:00	60.6	34.8	72.0	69.0	69.7	69.0	70.0	62.7	35.0	60.8	63.0
16-Jan-22	6:30:00	16-Jan-2206:30	68.5	35.5	74.6	73.7	74.6	70.1	73.0	65.2	36.5	61.6	64.3

16-Jan-22	7:00:00	16-Jan-2207:00	69.2	36.2	79.0	76.3	77.0	71.7	74.0	65.0	37.0	62.4	65.0
16-Jan-22	7:30:00	16-Jan-2207:30	69.2	36.4	79.0	76.0	76.4	71.4	74.0	65.0	37.0	62.7	65.0
16-Jan-22	8:00:00	16-Jan-2208:00	69.2	35.3	79.0	76.0	76.0	71.6	74.0	65.2	37.0	63.0	65.0
16-Jan-22	8:30:00	16-Jan-2208:30	69.2	34.5	79.0	76.0	75.7	71.0	73.4	65.1	37.0	63.0	65.0
16-Jan-22	9:00:00	16-Jan-2209:00	69.2	34.5	79.3	76.0	75.7	71.3	74.0	65.0	37.0	63.0	65.0
16-Jan-22	9:30:00	16-Jan-2209:30	69.2	34.5	79.0	76.0	76.0	71.7	74.0	65.9	37.0	63.3	65.2
16-Jan-22	10:00:00	16-Jan-2210:00	69.2	34.5	79.0	76.0	76.0	71.8	74.0	66.0	37.0	63.0	66.0
16-Jan-22	10:30:00	16-Jan-2210:30	62.9	34.5	75.3	72.1	72.3	71.3	72.3	62.6	36.6	61.9	63.8
16-Jan-22	11:00:00	16-Jan-2211:00	61.5	34.5	73.0	69.2	69.8	69.6	71.0	63.0	35.2	61.0	63.6
16-Jan-22	11:30:00	16-Jan-2211:30	61.5	34.5	73.0	69.3	69.6	69.0	71.0	63.0	35.0	61.0	63.0
16-Jan-22	12:00:00	16-Jan-2212:00	61.5	33.6	72.3	69.0	69.6	69.0	70.7	63.0	35.0	61.0	63.0
16-Jan-22	12:30:00	16-Jan-2212:30	61.5	33.5	72.0	69.0	69.0	69.0	70.7	63.0	35.0	60.6	63.0
16-Jan-22	13:00:00	16-Jan-2213:00	61.5	33.5	72.0	69.0	69.3	69.0	70.0	63.0	35.0	60.0	63.0
16-Jan-22	13:30:00	16-Jan-2213:30	67.0	32.7	73.3	71.9	72.5	69.7	70.8	64.2	35.6	62.6	63.9
16-Jan-22	14:00:00	16-Jan-2214:00	68.9	32.5	79.0	75.6	76.0	71.0	73.3	65.0	36.0	62.0	65.0
16-Jan-22	14:30:00	16-Jan-2214:30	68.9	32.5	79.0	75.7	76.0	71.0	73.8	65.0	36.2	62.4	65.0
16-Jan-22	15:00:00	16-Jan-2215:00	68.9	32.7	79.0	76.0	76.0	71.0	73.4	65.0	36.4	63.0	65.0
16-Jan-22	15:30:00	16-Jan-2215:30	68.9	33.5	79.0	76.0	76.3	71.3	74.0	65.0	37.0	63.0	65.0
16-Jan-22	16:00:00	16-Jan-2216:00	70.1	33.5	79.0	76.0	76.3	71.8	74.0	65.4	37.0	63.0	65.4
16-Jan-22	16:30:00	16-Jan-2216:30	71.0	33.5	79.0	76.3	76.3	72.0	74.0	66.0	37.0	63.0	65.7
16-Jan-22	17:00:00	16-Jan-2217:00	68.4	33.5	79.5	76.5	76.8	72.0	74.2	65.8	37.2	62.6	65.9
16-Jan-22	17:30:00	16-Jan-2217:30	60.8	33.5	75.3	70.0	69.8	69.8	71.0	63.5	35.9	61.9	63.5
16-Jan-22	18:00:00	16-Jan-2218:00	60.8	33.5	73.0	68.2	69.0	69.3	71.0	63.0	35.0	61.0	63.0
16-Jan-22	18:30:00	16-Jan-2218:30	60.8	33.5	72.1	68.6	68.7	69.0	70.3	62.9	35.0	60.5	63.0
16-Jan-22	19:00:00	16-Jan-2219:00	60.8	33.5	72.0	68.3	68.6	68.6	70.0	62.0	34.5	60.0	62.8
16-Jan-22	19:30:00	16-Jan-2219:30	60.8	33.5	72.0	68.0	68.2	68.0	70.0	62.0	34.0	60.0	62.0
16-Jan-22	20:00:00	16-Jan-2220:00	60.8	33.5	71.6	68.0	68.0	68.0	69.9	62.0	34.0	59.7	62.0
16-Jan-22	20:30:00	16-Jan-2220:30	60.8	33.5	71.0	67.7	68.3	68.0	69.0	61.1	34.0	59.6	62.0
16-Jan-22	21:00:00	16-Jan-2221:00	69.5	33.5	71.1	74.2	74.3	69.7	73.9	63.5	35.9	60.8	61.4
16-Jan-22	21:30:00	16-Jan-2221:30	69.2	33.5	78.0	75.0	76.0	70.4	73.0	64.0	36.0	62.0	64.0
16-Jan-22	22:00:00	16-Jan-2222:00	69.2	32.8	78.3	75.0	75.7	71.0	73.0	64.7	36.0	62.0	64.1
16-Jan-22	22:30:00	16-Jan-2222:30	69.2	32.5	79.0	76.0	76.0	71.0	73.0	65.0	36.0	62.3	65.0
16-Jan-22	23:00:00	16-Jan-2223:00	69.2	32.5	79.0	76.0	75.7	71.0	73.3	65.0	36.3	62.6	65.0
16-Jan-22	23:30:00	16-Jan-2223:30	69.2	32.5	79.0	76.0	76.0	71.6	74.0	65.0	37.0	62.2	65.0
17-Jan-22	0:00:00	17-Jan-2200:00	69.2	32.5	79.0	76.0	76.0	71.3	74.0	65.0	37.0	63.0	65.0
17-Jan-22	0:30:00	17-Jan-2200:30	69.2	33.3	79.3	76.3	76.3	71.9	74.4	65.5	37.0	63.0	65.4
17-Jan-22	1:00:00	17-Jan-2201:00	69.2	33.1	79.3	76.0	76.3	72.0	74.5	66.0	37.2	63.4	65.7
17-Jan-22	1:30:00	17-Jan-2201:30	68.3	32.6	79.3	76.2	76.6	72.2	74.2	65.7	37.6	64.0	65.9

17-Jan-22	2:00:00	17-Jan-2202:00	61.1	32.2	75.3	70.3	70.2	71.0	71.6	63.8	36.0	62.2	64.2
17-Jan-22	2:30:00	17-Jan-2202:30	61.1	31.6	73.0	70.0	70.0	70.0	71.0	64.0	36.0	62.0	64.0
17-Jan-22	3:00:00	17-Jan-2203:00	61.1	31.8	73.0	70.0	71.0	70.0	71.0	63.7	36.0	61.4	64.0
17-Jan-22	3:30:00	17-Jan-2203:30	61.1	33.5	73.0	69.8	70.2	69.8	70.8	63.1	36.0	60.9	64.0
17-Jan-22	4:00:00	17-Jan-2204:00	61.1	33.5	72.1	69.0	69.4	68.4	70.0	62.3	34.7	59.8	62.0
17-Jan-22	4:30:00	17-Jan-2204:30	61.1	33.5	72.0	68.9	69.0	68.0	70.0	62.0	34.0	59.6	62.0
17-Jan-22	5:00:00	17-Jan-2205:00	61.1	35.0	71.4	68.0	68.7	68.0	69.7	61.6	34.0	59.0	62.0
17-Jan-22	5:30:00	17-Jan-2205:30	61.1	35.5	71.0	68.0	69.0	68.0	69.0	61.0	33.8	59.0	61.4
17-Jan-22	6:00:00	17-Jan-2206:00	63.4	35.5	71.0	69.5	70.1	68.4	69.0	61.5	33.3	59.3	62.7
17-Jan-22	6:30:00	17-Jan-2206:30	68.5	35.1	77.8	75.0	75.9	70.0	73.0	64.0	35.0	61.0	64.0
17-Jan-22	7:00:00	17-Jan-2207:00	68.9	34.5	78.2	75.0	75.4	70.2	73.0	64.0	35.0	61.1	64.0
17-Jan-22	7:30:00	17-Jan-2207:30	70.5	34.5	79.0	75.9	76.7	71.0	73.3	65.0	36.1	62.2	65.0
17-Jan-22	8:00:00	17-Jan-2208:00	70.5	33.8	79.0	76.0	75.5	71.0	73.0	65.0	36.5	63.0	65.0
17-Jan-22	8:30:00	17-Jan-2208:30	70.5	33.5	79.0	76.0	75.6	71.3	73.6	65.0	36.6	63.0	65.0
17-Jan-22	9:00:00	17-Jan-2209:00	70.5	33.6	79.0	76.0	76.0	71.4	74.0	65.0	37.0	63.0	65.0
17-Jan-22	9:30:00	17-Jan-2209:30	70.5	34.8	79.0	76.0	76.0	72.0	74.0	65.1	37.0	63.0	65.0
17-Jan-22	10:00:00	17-Jan-2210:00	70.5	35.4	79.1	76.0	76.1	72.0	74.0	65.7	37.0	63.0	65.0
17-Jan-22	10:30:00	17-Jan-2210:30	70.5	33.9	80.0	76.0	76.2	72.0	74.0	65.7	37.0	63.0	65.3
17-Jan-22	11:00:00	17-Jan-2211:00	64.9	33.6	77.8	74.1	74.4	71.4	72.9	65.0	36.9	61.9	65.0
17-Jan-22	11:30:00	17-Jan-2211:30	61.3	34.5	72.9	69.3	69.6	69.6	71.0	63.0	35.5	61.1	63.0
17-Jan-22	12:00:00	17-Jan-2212:00	61.3	34.5	72.9	69.0	69.0	69.0	71.0	63.0	35.0	61.0	63.0
17-Jan-22	12:30:00	17-Jan-2212:30	61.3	34.5	72.0	69.0	69.0	69.0	70.8	63.0	35.0	61.0	63.0
17-Jan-22	13:00:00	17-Jan-2213:00	61.3	32.2	72.0	69.0	69.0	69.0	70.3	63.0	35.0	60.8	63.0
17-Jan-22	13:30:00	17-Jan-2213:30	61.3	31.6	72.0	69.0	69.0	69.0	70.0	62.5	35.0	60.6	63.0
17-Jan-22	14:00:00	17-Jan-2214:00	62.7	31.6	72.0	69.0	68.5	68.8	70.0	62.1	34.1	60.0	62.8
17-Jan-22	14:30:00	17-Jan-2214:30	69.7	31.6	78.4	74.8	75.1	69.8	73.3	65.0	36.0	61.7	65.0
17-Jan-22	15:00:00	17-Jan-2215:00	69.7	32.3	79.0	75.8	76.0	71.0	74.0	65.0	36.2	62.3	65.0
17-Jan-22	15:30:00	17-Jan-2215:30	69.7	32.5	79.0	75.9	76.0	71.0	74.0	65.0	37.0	62.8	65.0
17-Jan-22	16:00:00	17-Jan-2216:00	69.7	32.5	79.0	76.0	76.0	71.4	74.0	65.0	37.0	63.0	65.0
17-Jan-22	16:30:00	17-Jan-2216:30	69.7	32.5	79.3	76.0	76.3	72.0	74.0	65.1	37.0	63.0	65.0
17-Jan-22	17:00:00	17-Jan-2217:00	69.7	32.5	79.0	76.0	76.4	72.0	74.0	66.0	37.0	63.0	65.0
17-Jan-22	17:30:00	17-Jan-2217:30	69.7	32.5	79.0	76.0	76.2	71.7	74.0	66.0	37.0	63.0	65.3
17-Jan-22	18:00:00	17-Jan-2218:00	68.7	32.5	79.0	75.3	75.3	71.6	74.0	65.2	37.0	62.9	65.0
17-Jan-22	18:30:00	17-Jan-2218:30	60.6	32.1	74.0	70.5	70.4	69.4	72.0	63.7	35.2	59.7	63.2
17-Jan-22	19:00:00	17-Jan-2219:00	60.6	31.6	71.9	68.7	68.6	68.1	70.0	62.0	34.6	60.0	62.3
17-Jan-22	19:30:00	17-Jan-2219:30	60.4	31.6	71.0	68.0	68.0	68.0	70.0	62.0	34.0	59.9	62.0
17-Jan-22	20:00:00	17-Jan-2220:00	58.6	31.7	71.0	68.0	68.0	67.7	69.0	61.0	34.0	59.3	61.6
17-Jan-22	20:30:00	17-Jan-2220:30	58.6	32.5	70.4	67.0	67.7	67.0	69.0	61.0	33.2	59.0	61.0

17-Jan-22	21:00:00	17-Jan-2221:00	58.6	32.5	71.0	67.3	67.4	67.0	69.0	61.0	33.0	59.0	61.0
17-Jan-22	21:30:00	17-Jan-2221:30	68.7	32.5	75.5	71.9	72.3	70.4	71.7	62.9	34.5	60.8	63.1
17-Jan-22	22:00:00	17-Jan-2222:00	68.6	32.5	78.0	75.0	74.9	70.0	73.0	64.0	35.6	61.7	64.0
17-Jan-22	22:30:00	17-Jan-2222:30	68.6	32.5	78.1	75.1	75.4	70.6	73.0	64.0	36.0	62.0	64.0
17-Jan-22	23:00:00	17-Jan-2223:00	68.6	32.6	79.0	75.7	75.5	71.0	73.0	64.3	36.0	62.0	64.3
17-Jan-22	23:30:00	17-Jan-2223:30	68.6	33.5	79.0	75.4	75.9	71.0	74.0	65.0	36.3	62.6	65.0
18-Jan-22	0:00:00	18-Jan-2200:00	68.6	33.5	79.0	76.0	76.0	71.0	73.7	65.0	36.8	63.0	65.0
18-Jan-22	0:30:00	18-Jan-2200:30	69.5	34.4	79.4	76.3	76.4	71.6	74.0	65.2	37.0	63.0	65.2
18-Jan-22	1:00:00	18-Jan-2201:00	70.6	34.5	79.4	76.2	76.7	72.0	74.0	66.0	37.0	63.1	66.0
18-Jan-22	1:30:00	18-Jan-2201:30	70.6	34.5	80.0	76.9	76.7	72.3	74.7	66.0	38.0	63.7	66.0
18-Jan-22	2:00:00	18-Jan-2202:00	69.3	34.5	80.0	77.0	77.8	72.7	75.0	66.0	38.0	64.0	66.0
18-Jan-22	2:30:00	18-Jan-2202:30	62.3	34.5	73.7	70.8	71.4	70.4	72.1	64.0	36.6	62.4	64.0
18-Jan-22	3:00:00	18-Jan-2203:00	62.3	34.5	73.0	70.0	71.0	70.0	71.2	64.0	36.0	62.0	64.0
18-Jan-22	3:30:00	18-Jan-2203:30	62.3	34.5	73.0	70.0	70.7	70.0	71.0	64.0	36.0	62.0	64.0
18-Jan-22	4:00:00	18-Jan-2204:00	62.3	34.5	73.0	69.8	70.0	70.0	71.0	63.2	35.5	61.7	63.2
18-Jan-22	4:30:00	18-Jan-2204:30	61.3	34.5	73.0	69.9	70.0	69.8	71.0	63.0	35.0	61.0	63.0
18-Jan-22	5:00:00	18-Jan-2205:00	60.3	34.5	72.3	69.0	70.0	69.0	70.5	63.0	35.0	60.7	63.0
18-Jan-22	5:30:00	18-Jan-2205:30	60.3	34.2	72.0	69.0	69.2	69.0	70.0	62.1	35.0	61.0	62.4
18-Jan-22	6:00:00	18-Jan-2206:00	60.3	33.0	72.0	69.0	69.0	69.0	70.0	62.0	35.0	61.0	62.0
18-Jan-22	6:30:00	18-Jan-2206:30	60.3	33.3	72.0	69.0	69.0	69.0	70.0	62.0	35.0	61.0	62.0
18-Jan-22	7:00:00	18-Jan-2207:00	66.7	34.7	75.4	69.0	69.0	69.0	70.0	62.0	35.0	61.0	62.0
18-Jan-22	7:30:00	18-Jan-2207:30	68.8	35.5	78.0	69.0	69.0	69.0	70.0	62.0	35.0	61.0	62.0
18-Jan-22	8:00:00	18-Jan-2208:00	68.8	35.5	78.0	69.0	69.0	69.0	70.0	62.0	35.0	61.0	62.0
18-Jan-22	8:30:00	18-Jan-2208:30	68.2	35.5	78.0	70.9	71.0	69.3	71.2	62.2	35.4	61.2	62.9
18-Jan-22	9:00:00	18-Jan-2209:00	68.7	35.5	78.0	75.0	74.7	69.6	72.4	63.3	34.9	60.7	62.9
18-Jan-22	9:30:00	18-Jan-2209:30	68.7	35.5	77.7	74.4	74.4	69.6	72.7	63.4	35.0	60.4	63.4
18-Jan-22	10:00:00	18-Jan-2210:00	68.7	35.8	78.0	74.7	75.0	70.0	73.0	64.0	35.0	61.0	63.5
18-Jan-22	10:30:00	18-Jan-2210:30	68.7	35.5	78.0	75.0	75.6	70.0	73.0	64.0	35.0	60.7	63.1
18-Jan-22	11:00:00	18-Jan-2211:00	68.7	35.5	78.0	75.0	75.2	70.0	73.0	63.7	35.0	61.0	64.3
18-Jan-22	11:30:00	18-Jan-2211:30	68.7	35.5	78.5	75.3	75.4	70.0	73.0	64.0	35.3	61.0	64.0
18-Jan-22	12:00:00	18-Jan-2212:00	68.7	35.9	78.0	75.0	75.6	70.0	73.0	64.0	35.7	61.3	64.0
18-Jan-22	12:30:00	18-Jan-2212:30	68.7	36.4	78.2	75.0	75.2	70.3	73.0	64.9	36.0	61.6	64.0
18-Jan-22	13:00:00	18-Jan-2213:00	68.7	35.2	78.7	75.0	75.4	70.6	73.0	64.7	36.0	61.3	64.0
18-Jan-22	13:30:00	18-Jan-2213:30	69.9	32.3	79.0	76.0	75.7	71.2	73.5	65.3	36.2	62.4	64.5
18-Jan-22	14:00:00	18-Jan-2214:00	70.4	32.7	79.3	76.0	76.0	72.0	74.0	65.3	37.0	63.0	65.4
18-Jan-22	14:30:00	18-Jan-2214:30	70.4	34.5	80.0	76.1	76.1	72.0	74.0	65.5	37.0	63.0	65.8
18-Jan-22	15:00:00	18-Jan-2215:00	67.6	34.5	78.7	75.2	76.5	72.0	74.3	65.9	37.3	63.0	65.9
18-Jan-22	15:30:00	18-Jan-2215:30	61.3	34.2	72.8	68.8	72.3	70.2	70.3	63.2	35.0	61.3	63.8

18-Jan-22	16:00:00	18-Jan-2216:00	61.1	33.5	72.0	68.7	69.3	69.0	70.5	63.0	35.0	61.0	63.0
18-Jan-22	16:30:00	18-Jan-2216:30	61.4	33.2	72.0	68.7	68.9	69.0	70.6	63.0	35.0	61.0	63.0
18-Jan-22	17:00:00	18-Jan-2217:00	61.4	32.5	72.0	68.9	68.6	68.6	70.0	63.0	35.0	60.6	63.0
18-Jan-22	17:30:00	18-Jan-2217:30	60.4	33.3	71.7	68.0	68.8	68.0	70.0	62.0	34.1	60.0	62.1
18-Jan-22	18:00:00	18-Jan-2218:00	59.4	33.5	71.0	68.0	67.7	68.0	69.3	61.7	34.0	59.7	62.0
18-Jan-22	18:30:00	18-Jan-2218:30	59.4	33.5	70.5	67.5	67.5	67.2	69.0	61.1	34.0	59.3	61.4
18-Jan-22	19:00:00	18-Jan-2219:00	66.8	33.5	74.9	71.4	71.5	68.9	71.1	64.3	34.4	60.1	63.0
18-Jan-22	19:30:00	18-Jan-2219:30	68.0	14.6	78.0	74.0	74.5	70.0	72.2	63.6	35.3	61.4	63.7
18-Jan-22	20:00:00	18-Jan-2220:00	68.0	30.6	78.0	74.6	74.1	70.0	72.7	64.0	36.0	61.5	63.7
18-Jan-22	20:30:00	18-Jan-2220:30	68.0	33.9	78.0	75.0	75.0	70.0	73.0	64.0	36.0	61.6	64.0
18-Jan-22	21:00:00	18-Jan-2221:00	68.0	33.9	78.0	75.0	75.0	70.3	73.0	64.0	36.0	62.0	64.4
18-Jan-22	21:30:00	18-Jan-2221:30	69.0	33.9	78.7	75.1	75.1	71.0	73.2	64.5	36.0	62.3	65.0
18-Jan-22	22:00:00	18-Jan-2222:00	70.0	33.1	79.0	76.0	75.7	71.0	73.4	65.0	36.6	62.5	64.7
18-Jan-22	22:30:00	18-Jan-2222:30	70.0	32.9	79.0	76.0	76.3	71.4	74.0	65.0	37.0	62.7	65.0
18-Jan-22	23:00:00	18-Jan-2223:00	70.0	33.9	79.0	76.0	76.0	72.0	74.0	65.3	37.0	63.0	65.0
18-Jan-22	23:30:00	18-Jan-2223:30	70.0	33.9	79.7	76.4	76.7	72.0	74.2	65.8	37.0	63.0	65.8
19-Jan-22	0:00:00	19-Jan-2200:00	70.0	33.9	79.7	76.2	76.7	72.0	74.1	66.0	37.0	63.2	66.0
19-Jan-22	0:30:00	19-Jan-2200:30	69.0	33.9	80.0	77.0	77.3	72.1	75.0	66.0	37.5	64.0	66.0
19-Jan-22	1:00:00	19-Jan-2201:00	61.9	33.9	76.4	71.4	71.3	70.6	71.8	64.1	36.2	62.0	64.2
19-Jan-22	1:30:00	19-Jan-2201:30	61.9	34.9	73.0	70.0	70.0	70.0	71.0	64.0	36.0	61.7	64.0
19-Jan-22	2:00:00	19-Jan-2202:00	61.9	34.9	73.0	70.0	70.0	70.0	71.0	63.1	36.0	61.4	64.0
19-Jan-22	2:30:00	19-Jan-2202:30	61.9	35.3	73.0	70.0	70.0	70.0	71.0	63.0	36.0	61.5	64.0
19-Jan-22	3:00:00	19-Jan-2203:00	61.9	35.1	73.0	70.0	70.0	69.9	71.0	63.0	35.8	61.0	63.1
19-Jan-22	3:30:00	19-Jan-2203:30	61.9	32.9	73.0	69.5	69.7	69.3	71.0	63.0	35.0	61.0	63.0
19-Jan-22	4:00:00	19-Jan-2204:00	61.9	33.7	72.0	69.0	70.0	69.0	70.8	63.0	35.0	61.0	63.0
19-Jan-22	4:30:00	19-Jan-2204:30	61.3	36.8	72.0	69.0	69.7	69.0	70.0	62.9	35.0	60.8	63.0
19-Jan-22	5:00:00	19-Jan-2205:00	59.8	36.8	72.0	68.6	69.0	68.3	70.0	62.0	34.2	60.0	62.2
19-Jan-22	5:30:00	19-Jan-2205:30	64.9	36.8	73.5	71.7	70.7	70.0	70.9	62.7	34.6	60.9	62.7
19-Jan-22	6:00:00	19-Jan-2206:00	68.9	35.9	78.2	75.4	76.0	70.7	73.0	64.0	36.0	62.0	64.0
19-Jan-22	6:30:00	19-Jan-2206:30	68.9	35.4	78.2	75.0	75.2	70.7	73.0	64.0	36.0	62.1	64.0
19-Jan-22	7:00:00	19-Jan-2207:00	68.9	34.9	78.0	75.0	75.0	70.6	72.7	63.5	35.6	61.8	64.1
19-Jan-22	7:30:00	19-Jan-2207:30	68.9	34.9	78.0	75.0	75.0	69.8	72.7	63.9	34.7	61.0	63.6
19-Jan-22	8:00:00	19-Jan-2208:00	68.9	34.1	78.0	75.0	74.4	69.6	72.9	63.0	35.0	61.0	63.6
19-Jan-22	8:30:00	19-Jan-2208:30	68.9	32.8	78.0	74.7	74.5	69.2	72.0	63.0	34.7	60.6	63.3
19-Jan-22	9:00:00	19-Jan-2209:00	68.9	32.8	77.7	74.7	74.6	69.7	72.0	63.4	34.9	60.5	63.0
19-Jan-22	9:30:00	19-Jan-2209:30	68.9	33.8	78.0	74.8	75.0	69.0	72.3	63.1	34.5	60.3	62.5
19-Jan-22	10:00:00	19-Jan-2210:00	68.9	35.1	78.0	74.6	74.2	69.3	72.4	63.2	35.0	60.8	63.0
19-Jan-22	10:30:00	19-Jan-2210:30	68.9	35.7	78.0	75.0	75.0	70.0	73.0	63.7	35.0	61.0	63.6

19-Jan-22	11:00:00	19-Jan-2211:00	68.9	33.4	78.4	74.9	75.4	70.0	73.0	64.0	35.0	61.0	63.5
19-Jan-22	11:30:00	19-Jan-2211:30	68.9	32.8	78.2	74.8	75.2	70.0	73.0	64.0	35.3	61.0	63.9
19-Jan-22	12:00:00	19-Jan-2212:00	68.9	33.3	78.3	75.0	75.3	70.0	73.0	64.0	35.0	61.0	64.0
19-Jan-22	12:30:00	19-Jan-2212:30	68.9	36.5	78.3	75.0	75.3	70.0	73.0	64.0	35.0	61.0	63.7
19-Jan-22	13:00:00	19-Jan-2213:00	68.9	36.7	78.0	75.0	75.0	70.0	73.0	63.4	35.4	60.7	63.3
19-Jan-22	13:30:00	19-Jan-2213:30	68.9	36.4	78.2	75.4	75.2	70.0	73.0	64.0	35.4	61.0	63.6
19-Jan-22	14:00:00	19-Jan-2214:00	68.9	36.5	79.0	75.7	76.0	70.3	73.0	64.0	35.9	61.0	64.0
19-Jan-22	14:30:00	19-Jan-2214:30	68.9	35.6	78.4	75.0	75.4	70.0	73.0	64.0	35.8	61.0	64.0
19-Jan-22	15:00:00	19-Jan-2215:00	68.9	32.2	79.0	75.3	75.7	70.5	73.0	64.1	36.0	61.6	64.0
19-Jan-22	15:30:00	19-Jan-2215:30	71.0	32.7	79.0	76.2	76.3	71.9	73.7	65.0	36.7	62.8	64.8
19-Jan-22	16:00:00	19-Jan-2216:00	71.0	34.3	79.3	76.0	76.5	72.0	74.0	65.6	37.0	63.0	65.3
19-Jan-22	16:30:00	19-Jan-2216:30	64.7	34.8	77.1	74.3	74.4	71.0	72.7	64.6	36.7	62.4	64.4
19-Jan-22	17:00:00	19-Jan-2217:00	60.6	34.8	72.2	69.0	70.0	69.0	71.0	63.0	35.0	60.9	63.0
19-Jan-22	17:30:00	19-Jan-2217:30	60.6	34.8	72.0	69.0	69.1	69.0	70.0	63.0	35.0	60.9	63.0
19-Jan-22	18:00:00	19-Jan-2218:00	60.6	34.0	71.2	68.2	67.9	68.4	70.0	62.1	35.0	60.0	62.4
19-Jan-22	18:30:00	19-Jan-2218:30	60.6	33.8	71.3	68.0	68.3	68.1	70.0	62.0	34.0	60.0	62.0
19-Jan-22	19:00:00	19-Jan-2219:00	60.6	33.8	71.0	68.0	68.0	68.0	69.2	62.0	34.0	59.6	62.0
19-Jan-22	19:30:00	19-Jan-2219:30	61.5	33.8	71.2	67.6	68.0	67.5	69.3	61.3	34.2	59.0	62.0
19-Jan-22	20:00:00	19-Jan-2220:00	68.5	33.8	78.0	74.0	74.6	70.0	72.0	63.4	35.2	61.2	64.0
19-Jan-22	20:30:00	19-Jan-2220:30	68.5	33.8	78.0	74.6	74.9	70.0	73.0	64.0	36.0	61.8	64.0
19-Jan-22	21:00:00	19-Jan-2221:00	68.5	33.8	78.5	75.0	75.2	70.7	73.0	64.0	36.0	62.0	64.3
19-Jan-22	21:30:00	19-Jan-2221:30	68.5	33.8	79.0	75.4	76.0	70.7	73.4	65.0	36.0	62.3	64.5
19-Jan-22	22:00:00	19-Jan-2222:00	68.5	33.8	79.0	76.0	76.0	71.0	74.0	65.0	36.3	62.7	65.0
19-Jan-22	22:30:00	19-Jan-2222:30	70.3	33.8	79.0	76.0	76.3	71.4	74.0	65.2	37.0	63.0	65.0
19-Jan-22	23:00:00	19-Jan-2223:00	70.5	33.8	79.6	76.0	76.8	72.0	74.0	66.0	37.0	63.0	65.0
19-Jan-22	23:30:00	19-Jan-2223:30	70.5	33.8	79.9	76.9	77.0	72.0	74.4	66.0	37.4	63.5	66.0
20-Jan-22	0:00:00	20-Jan-2200:00	70.5	33.8	80.0	77.0	77.0	72.0	74.7	66.0	37.7	63.3	66.0
20-Jan-22	0:30:00	20-Jan-2200:30	67.8	33.8	79.8	77.0	77.6	72.6	75.0	65.7	37.8	63.1	65.7
20-Jan-22	1:00:00	20-Jan-2201:00	62.4	34.2	73.0	71.9	74.2	70.0	72.6	64.0	36.0	61.9	64.0
20-Jan-22	1:30:00	20-Jan-2201:30	62.4	33.6	73.0	70.0	70.6	70.0	71.9	64.0	36.0	62.0	64.0
20-Jan-22	2:00:00	20-Jan-2202:00	62.4	31.9	73.0	70.0	70.0	70.0	71.0	64.0	36.0	61.6	64.0
20-Jan-22	2:30:00	20-Jan-2202:30	62.4	31.9	73.0	70.0	70.0	70.0	71.0	63.4	36.0	61.8	64.0
20-Jan-22	3:00:00	20-Jan-2203:00	62.4	33.7	73.0	70.0	70.0	70.0	71.0	63.3	36.0	61.3	63.7
20-Jan-22	3:30:00	20-Jan-2203:30	60.6	33.9	73.0	69.7	70.1	69.7	71.0	63.5	35.7	61.0	63.6
20-Jan-22	4:00:00	20-Jan-2204:00	60.4	34.8	72.8	70.0	70.2	69.2	71.0	63.0	35.1	61.0	63.0
20-Jan-22	4:30:00	20-Jan-2204:30	60.4	34.8	72.3	69.3	69.9	69.0	70.5	63.0	35.0	61.0	63.0
20-Jan-22	5:00:00	20-Jan-2205:00	60.4	34.8	72.0	69.0	69.3	68.4	70.0	62.1	34.7	60.3	62.7
20-Jan-22	5:30:00	20-Jan-2205:30	60.4	35.7	72.0	69.0	69.0	68.3	70.0	62.0	34.5	60.0	62.5

20-Jan-22	6:00:00	20-Jan-2206:00	69.1	34.9	77.6	74.6	74.3	70.2	71.8	63.4	35.3	61.5	63.3
20-Jan-22	6:30:00	20-Jan-2206:30	69.7	34.8	78.0	75.0	75.4	70.3	73.0	64.0	36.0	62.0	64.0
20-Jan-22	7:00:00	20-Jan-2207:00	69.7	35.4	78.3	75.3	75.5	70.6	73.0	64.3	36.0	62.0	64.0
20-Jan-22	7:30:00	20-Jan-2207:30	69.7	36.1	78.8	75.3	76.3	70.7	73.0	64.0	36.0	62.0	64.0
20-Jan-22	8:00:00	20-Jan-2208:00	69.6	36.0	79.0	75.3	75.7	71.0	73.3	64.0	36.0	62.0	64.0
20-Jan-22	8:30:00	20-Jan-2208:30	69.5	35.7	78.5	75.4	75.3	70.9	73.2	64.0	36.0	61.2	64.3
20-Jan-22	9:00:00	20-Jan-2209:00	69.6	34.8	79.3	75.7	75.6	70.5	73.1	64.4	36.3	63.4	63.5
20-Jan-22	9:30:00	20-Jan-2209:30	70.0	34.8	79.3	75.4	75.7	70.7	73.3	64.7	36.0	62.0	65.0
20-Jan-22	10:00:00	20-Jan-2210:00	70.0	34.1	79.0	75.4	75.7	71.0	73.3	65.0	36.9	62.7	65.0
20-Jan-22	10:30:00	20-Jan-2210:30	70.0	34.2	79.0	76.0	75.7	71.1	73.7	65.0	37.0	63.0	65.0
20-Jan-22	11:00:00	20-Jan-2211:00	70.0	35.4	79.6	76.3	76.3	72.0	74.0	65.0	37.0	63.0	65.1
20-Jan-22	11:30:00	20-Jan-2211:30	60.8	35.3	75.0	71.4	72.0	70.1	71.8	63.4	35.8	61.8	63.7
20-Jan-22	12:00:00	20-Jan-2212:00	60.5	35.7	73.0	69.5	70.0	69.0	71.0	63.0	35.3	61.0	63.3
20-Jan-22	12:30:00	20-Jan-2212:30	60.5	35.7	72.4	69.1	69.6	69.0	71.0	63.0	35.0	61.0	63.0
20-Jan-22	13:00:00	20-Jan-2213:00	60.5	35.7	72.5	69.6	69.8	69.0	70.4	63.0	34.7	61.0	63.0
20-Jan-22	13:30:00	20-Jan-2213:30	68.8	35.7	74.4	73.3	73.2	69.8	72.7	64.2	35.7	62.1	64.4
20-Jan-22	14:00:00	20-Jan-2214:00	70.2	35.7	79.0	76.0	76.0	70.5	74.0	65.0	36.6	62.7	65.0
20-Jan-22	14:30:00	20-Jan-2214:30	70.1	35.6	79.0	76.0	75.7	71.0	73.7	65.1	37.0	63.2	65.0
20-Jan-22	15:00:00	20-Jan-2215:00	70.3	33.4	79.0	76.0	76.0	71.0	74.0	65.2	37.0	62.9	65.0
20-Jan-22	15:30:00	20-Jan-2215:30	70.3	32.8	79.3	76.3	76.3	71.8	74.0	65.7	37.0	63.0	65.1
20-Jan-22	16:00:00	20-Jan-2216:00	70.3	32.8	79.7	76.0	76.3	72.0	74.0	66.0	37.0	63.0	65.7
20-Jan-22	16:30:00	20-Jan-2216:30	65.4	33.5	77.2	73.9	74.2	71.2	73.2	65.5	36.5	62.4	63.6
20-Jan-22	17:00:00	20-Jan-2217:00	61.7	33.8	73.0	69.7	70.0	69.5	71.0	63.4	36.0	61.3	63.4
20-Jan-22	17:30:00	20-Jan-2217:30	61.7	33.8	72.7	69.4	69.7	69.3	71.0	63.0	35.0	61.0	63.0
20-Jan-22	18:00:00	20-Jan-2218:00	61.7	33.8	72.0	68.9	69.1	69.0	70.5	63.0	35.0	61.0	63.0
20-Jan-22	18:30:00	20-Jan-2218:30	61.7	33.8	72.0	68.8	68.5	68.7	70.0	62.7	35.0	60.6	63.0
20-Jan-22	19:00:00	20-Jan-2219:00	60.1	33.8	71.9	68.4	68.3	68.1	70.0	62.0	34.0	60.0	62.3
20-Jan-22	19:30:00	20-Jan-2219:30	59.7	33.8	71.0	68.0	68.2	68.0	69.2	61.7	34.0	59.7	62.0
20-Jan-22	20:00:00	20-Jan-2220:00	59.7	33.8	71.0	68.0	68.1	68.0	69.3	61.6	34.0	60.0	62.0
20-Jan-22	20:30:00	20-Jan-2220:30	61.8	34.5	71.8	68.8	68.7	68.2	69.0	61.3	34.0	59.5	62.0
20-Jan-22	21:00:00	20-Jan-2221:00	68.4	31.9	77.8	74.5	75.0	70.0	72.6	63.0	35.8	62.0	63.9
20-Jan-22	21:30:00	20-Jan-2221:30	68.4	31.8	78.6	75.6	75.7	70.6	73.0	64.0	36.0	62.0	64.0
20-Jan-22	22:00:00	20-Jan-2222:00	68.4	32.3	78.7	75.3	76.0	71.0	73.0	64.9	36.0	62.0	64.6
20-Jan-22	22:30:00	20-Jan-2222:30	68.8	33.4	79.0	75.7	76.4	71.0	73.7	65.0	36.4	62.6	65.0
20-Jan-22	23:00:00	20-Jan-2223:00	70.4	33.8	79.0	76.0	76.2	71.2	73.7	65.0	37.0	63.0	65.0
20-Jan-22	23:30:00	20-Jan-2223:30	70.4	34.7	79.0	76.0	76.3	71.7	74.0	65.0	37.0	63.0	65.0
21-Jan-22	0:00:00	21-Jan-2200:00	70.4	33.8	79.0	76.0	76.0	71.4	74.0	65.0	37.0	63.0	65.0
21-Jan-22	0:30:00	21-Jan-2200:30	70.4	33.8	79.9	76.9	76.9	72.0	74.4	65.7	37.4	63.2	65.4

21-Jan-22	1:00:00	21-Jan-2201:00	70.4	34.7	80.0	77.0	77.0	72.3	74.4	66.0	37.7	63.1	66.0
21-Jan-22	1:30:00	21-Jan-2201:30	68.5	35.7	80.3	77.0	77.3	72.5	75.0	66.4	37.9	63.0	65.9
21-Jan-22	2:00:00	21-Jan-2202:00	62.4	34.7	76.3	70.7	70.9	70.2	72.0	64.0	36.0	61.5	64.0
21-Jan-22	2:30:00	21-Jan-2202:30	62.4	33.8	73.2	70.0	70.8	70.0	72.0	64.0	36.0	62.0	64.0
21-Jan-22	3:00:00	21-Jan-2203:00	62.4	34.8	73.0	70.0	70.4	70.0	71.3	64.0	36.0	62.0	64.0
21-Jan-22	3:30:00	21-Jan-2203:30	62.4	35.7	73.0	70.0	70.5	70.0	71.0	64.0	36.0	62.0	64.0
21-Jan-22	4:00:00	21-Jan-2204:00	62.0	35.7	73.0	69.7	70.0	69.7	71.0	63.3	35.9	61.2	63.6
21-Jan-22	4:30:00	21-Jan-2204:30	60.4	35.7	73.0	70.0	70.3	69.0	71.0	63.0	35.0	61.0	63.0
21-Jan-22	5:00:00	21-Jan-2205:00	60.4	35.7	72.2	68.9	69.7	68.2	70.4	62.3	34.7	60.1	62.3
21-Jan-22	5:30:00	21-Jan-2205:30	60.4	35.7	71.0	68.0	68.3	67.7	69.3	61.0	33.3	58.4	61.0
21-Jan-22	6:00:00	21-Jan-2206:00	64.7	34.8	72.4	74.5	70.9	69.3	70.1	61.1	33.6	59.1	61.6
21-Jan-22	6:30:00	21-Jan-2206:30	68.2	34.7	77.7	74.1	74.4	69.3	72.0	63.0	35.0	60.0	63.0
21-Jan-22	7:00:00	21-Jan-2207:00	68.2	34.7	77.0	74.0	74.6	69.3	72.0	63.0	35.0	60.0	63.0
21-Jan-22	7:30:00	21-Jan-2207:30	68.2	34.7	77.1	74.4	74.1	69.8	72.5	63.0	35.0	60.0	63.0
21-Jan-22	8:00:00	21-Jan-2208:00	68.2	34.3	77.4	74.2	74.5	69.8	72.0	63.0	34.7	60.0	63.0
21-Jan-22	8:30:00	21-Jan-2208:30	68.2	34.7	77.7	74.4	74.1	69.6	72.0	63.0	34.7	60.0	63.0
21-Jan-22	9:00:00	21-Jan-2209:00	68.2	34.7	78.0	74.3	74.8	69.3	72.0	63.0	34.7	60.0	63.0
21-Jan-22	9:30:00	21-Jan-2209:30	68.1	34.6	77.9	74.6	74.6	69.9	72.0	63.5	35.0	60.0	63.0
21-Jan-22	10:00:00	21-Jan-2210:00	67.9	33.8	77.8	74.5	74.5	70.0	72.3	63.3	34.4	60.0	63.0
21-Jan-22	10:30:00	21-Jan-2210:30	67.9	33.8	78.0	74.1	74.7	69.7	72.0	63.4	34.6	60.0	63.0
21-Jan-22	11:00:00	21-Jan-2211:00	68.7	34.2	77.4	74.7	73.8	69.4	72.8	64.0	34.8	60.0	63.0
21-Jan-22	11:30:00	21-Jan-2211:30	70.1	35.7	78.0	75.0	75.0	69.7	73.0	64.0	35.0	60.0	63.0
21-Jan-22	12:00:00	21-Jan-2212:00	70.1	35.7	78.0	74.7	74.6	70.0	73.0	64.0	35.0	60.0	63.5
21-Jan-22	12:30:00	21-Jan-2212:30	70.1	35.7	78.5	75.8	75.6	70.8	73.0	64.7	35.6	61.5	64.3
21-Jan-22	13:00:00	21-Jan-2213:00	70.1	35.7	79.0	76.0	75.7	71.0	73.7	65.0	36.0	62.0	65.0
21-Jan-22	13:30:00	21-Jan-2213:30	70.1	35.7	79.0	76.0	76.2	71.0	74.0	65.0	36.6	62.4	65.0
21-Jan-22	14:00:00	21-Jan-2214:00	70.1	35.7	78.9	75.9	76.4	71.0	74.0	65.0	37.0	63.0	65.0
21-Jan-22	14:30:00	21-Jan-2214:30	70.1	35.7	78.8	75.3	75.7	71.3	73.4	65.0	37.0	62.4	65.0
21-Jan-22	15:00:00	21-Jan-2215:00	70.1	35.7	79.0	75.8	76.0	71.8	73.9	66.0	37.0	63.0	65.0
21-Jan-22	15:30:00	21-Jan-2215:30	65.3	36.5	77.5	74.5	74.8	71.4	73.2	65.3	36.3	62.6	64.8
21-Jan-22	16:00:00	21-Jan-2216:00	61.1	36.5	73.0	69.3	69.6	69.3	71.0	63.0	35.0	61.0	63.0
21-Jan-22	16:30:00	21-Jan-2216:30	61.1	33.8	72.4	69.6	69.6	69.0	71.0	63.0	35.0	61.0	63.0
21-Jan-22	17:00:00	21-Jan-2217:00	61.1	33.8	72.0	69.0	69.1	69.0	70.7	63.0	35.0	60.7	63.0
21-Jan-22	17:30:00	21-Jan-2217:30	61.1	32.8	72.0	69.0	69.2	69.0	70.1	63.0	35.0	60.6	62.9
21-Jan-22	18:00:00	21-Jan-2218:00	59.5	32.8	71.9	68.3	68.3	68.1	70.0	62.2	34.6	60.0	62.0
21-Jan-22	18:30:00	21-Jan-2218:30	59.2	33.4	71.0	67.7	67.8	68.0	69.5	62.0	34.0	60.0	62.0
21-Jan-22	19:00:00	21-Jan-2219:00	59.2	35.0	71.0	67.7	68.0	67.4	69.0	61.3	33.6	59.5	61.3
21-Jan-22	19:30:00	21-Jan-2219:30	68.0	35.7	74.2	72.1	72.8	69.2	71.4	64.7	34.6	60.3	63.5

21-Jan-22	20:00:00	21-Jan-2220:00	68.6	35.7	78.0	74.9	74.9	70.0	72.9	64.0	35.7	61.2	64.0
21-Jan-22	20:30:00	21-Jan-2220:30	68.6	35.9	78.0	75.0	75.0	70.0	73.0	64.0	36.0	61.7	64.0
21-Jan-22	21:00:00	21-Jan-2221:00	68.6	35.8	78.0	75.0	75.3	70.3	73.0	64.0	36.0	62.0	64.1
21-Jan-22	21:30:00	21-Jan-2221:30	68.6	35.7	78.7	75.4	75.7	71.0	73.0	64.5	36.2	62.1	64.7
21-Jan-22	22:00:00	21-Jan-2222:00	68.7	34.9	79.0	76.0	76.0	71.0	73.9	65.0	36.7	62.7	65.0
21-Jan-22	22:30:00	21-Jan-2222:30	70.5	34.7	79.3	76.0	76.4	71.9	74.0	65.0	37.0	63.0	65.0
21-Jan-22	23:00:00	21-Jan-2223:00	70.5	34.7	79.2	76.0	76.8	71.4	74.0	65.6	37.0	63.0	65.3
21-Jan-22	23:30:00	21-Jan-2223:30	70.5	34.7	80.0	76.6	76.7	72.0	74.1	66.0	37.1	63.0	66.0
22-Jan-22	0:00:00	22-Jan-2200:00	70.5	34.7	80.0	77.0	76.8	72.0	74.1	66.0	37.4	63.3	66.0
22-Jan-22	0:30:00	22-Jan-2200:30	69.6	34.6	80.0	77.0	76.9	72.6	75.0	66.0	38.0	63.5	66.0
22-Jan-22	1:00:00	22-Jan-2201:00	61.1	33.7	74.7	71.4	71.6	70.7	72.1	64.2	36.3	61.7	64.2
22-Jan-22	1:30:00	22-Jan-2201:30	61.0	35.7	73.0	70.0	70.3	70.0	72.0	64.0	36.0	62.0	64.0
22-Jan-22	2:00:00	22-Jan-2202:00	61.0	35.7	73.0	70.0	70.0	70.0	71.8	64.0	36.0	62.0	64.0
22-Jan-22	2:30:00	22-Jan-2202:30	61.0	35.7	73.0	70.0	70.0	70.0	71.0	64.0	36.0	62.0	64.0
22-Jan-22	3:00:00	22-Jan-2203:00	61.0	35.7	73.0	70.0	70.0	70.0	71.0	64.0	36.0	61.9	64.0
22-Jan-22	3:30:00	22-Jan-2203:30	61.0	35.7	72.1	69.1	69.7	69.4	70.6	62.8	35.6	60.5	63.4
22-Jan-22	4:00:00	22-Jan-2204:00	61.0	35.7	72.0	69.0	69.0	68.3	70.0	62.0	34.2	60.0	62.0
22-Jan-22	4:30:00	22-Jan-2204:30	61.0	35.7	72.0	69.0	69.0	68.0	70.0	62.0	34.0	59.5	62.0
22-Jan-22	5:00:00	22-Jan-2205:00	62.6	36.5	72.7	69.6	69.8	68.2	69.5	61.5	34.0	59.1	61.7
22-Jan-22	5:30:00	22-Jan-2205:30	69.1	36.7	78.5	75.4	75.8	70.2	72.6	63.0	35.2	61.0	63.9
22-Jan-22	6:00:00	22-Jan-2206:00	69.1	36.7	78.7	75.7	76.0	71.0	73.0	64.0	36.0	61.0	64.0
22-Jan-22	6:30:00	22-Jan-2206:30	69.1	36.7	78.2	75.4	76.0	70.4	73.3	64.4	36.0	61.9	64.4
22-Jan-22	7:00:00	22-Jan-2207:00	69.1	35.8	78.7	76.0	76.0	71.3	74.0	65.0	37.0	62.7	65.0
22-Jan-22	7:30:00	22-Jan-2207:30	69.1	35.7	79.0	76.0	76.0	71.0	73.4	65.0	36.7	62.6	65.0
22-Jan-22	8:00:00	22-Jan-2208:00	69.1	35.3	79.0	75.4	75.4	71.0	74.0	65.0	36.0	62.0	65.0
22-Jan-22	8:30:00	22-Jan-2208:30	69.1	34.7	79.0	75.7	75.7	71.0	74.0	65.0	36.3	62.6	65.0
22-Jan-22	9:00:00	22-Jan-2209:00	69.1	26.6	79.0	76.0	75.7	71.0	74.0	65.0	36.4	62.6	65.0
22-Jan-22	9:30:00	22-Jan-2209:30	69.1	29.9	79.0	76.0	76.0	71.0	74.0	65.3	37.0	63.0	65.0
22-Jan-22	10:00:00	22-Jan-2210:00	69.1	27.0	79.3	76.0	76.0	71.6	74.0	65.0	37.0	63.0	65.0
22-Jan-22	10:30:00	22-Jan-2210:30	60.8	25.6	74.2	70.9	70.9	69.9	71.4	63.0	34.9	60.5	62.8
22-Jan-22	11:00:00	22-Jan-2211:00	60.1	30.4	71.7	68.4	69.0	68.2	70.0	62.4	33.9	60.0	62.5
22-Jan-22	11:30:00	22-Jan-2211:30	59.9	32.7	72.0	68.7	69.0	68.6	70.0	62.5	34.0	60.0	62.0
22-Jan-22	12:00:00	22-Jan-2212:00	63.2	34.4	73.5	70.2	68.2	68.5	70.1	62.2	34.1	60.4	62.2
22-Jan-22	12:30:00	22-Jan-2212:30	69.0	34.9	79.0	75.4	75.9	70.1	73.0	64.6	36.0	62.0	64.3
22-Jan-22	13:00:00	22-Jan-2213:00	69.0	29.0	79.0	75.4	75.8	71.0	73.0	64.6	36.0	61.7	64.0
22-Jan-22	13:30:00	22-Jan-2213:30	69.0	32.7	78.7	75.1	75.9	71.0	73.0	65.0	36.0	62.0	64.1
22-Jan-22	14:00:00	22-Jan-2214:00	69.0	35.8	79.0	75.7	76.0	71.0	73.2	65.0	36.0	62.1	65.0
22-Jan-22	14:30:00	22-Jan-2214:30	69.0	36.1	79.0	76.0	76.0	71.9	74.0	65.7	37.0	63.0	65.0

22-Jan-22	15:00:00	22-Jan-2215:00	69.0	35.3	79.0	76.4	76.0	71.7	74.0	66.0	37.0	63.0	65.0
22-Jan-22	15:30:00	22-Jan-2215:30	69.3	35.1	79.6	76.2	76.3	72.0	74.0	66.0	37.0	63.0	66.0
22-Jan-22	16:00:00	22-Jan-2216:00	67.7	35.1	79.2	75.6	75.8	71.8	74.0	66.0	36.8	63.3	65.3
22-Jan-22	16:30:00	22-Jan-2216:30	61.4	35.1	73.0	70.0	69.5	69.5	71.0	63.4	36.0	62.1	63.4
22-Jan-22	17:00:00	22-Jan-2217:00	61.4	35.1	72.1	69.7	69.1	69.3	71.0	63.0	35.0	61.0	63.3
22-Jan-22	17:30:00	22-Jan-2217:30	61.4	35.1	72.5	69.0	69.7	69.0	71.0	63.0	35.0	61.0	63.0
22-Jan-22	18:00:00	22-Jan-2218:00	61.4	35.1	72.0	68.9	69.4	69.0	70.0	62.8	35.0	60.4	63.0
22-Jan-22	18:30:00	22-Jan-2218:30	61.4	35.1	72.0	68.3	68.7	68.8	70.0	62.0	34.7	60.0	63.0
22-Jan-22	19:00:00	22-Jan-2219:00	62.2	35.1	71.7	68.3	68.5	68.0	70.4	62.0	34.0	60.0	62.0
22-Jan-22	19:30:00	22-Jan-2219:30	68.8	35.1	78.0	75.0	75.1	70.7	73.6	63.7	35.6	61.9	63.9
22-Jan-22	20:00:00	22-Jan-2220:00	68.8	35.1	78.0	75.0	75.7	70.4	73.0	64.0	36.0	62.0	64.0
22-Jan-22	20:30:00	22-Jan-2220:30	68.8	35.1	78.3	75.1	75.1	71.0	73.0	64.2	36.0	62.0	64.5
22-Jan-22	21:00:00	22-Jan-2221:00	68.8	35.1	78.8	75.2	76.0	71.0	73.0	65.0	36.0	62.0	65.0
22-Jan-22	21:30:00	22-Jan-2221:30	68.8	35.1	79.0	76.0	76.6	71.0	73.4	65.0	36.4	62.6	65.0
22-Jan-22	22:00:00	22-Jan-2222:00	70.7	35.1	79.0	76.0	76.3	71.8	74.0	65.0	37.0	63.0	65.3
22-Jan-22	22:30:00	22-Jan-2222:30	70.8	35.1	80.0	76.3	77.0	72.0	74.0	65.8	37.0	63.0	65.0
22-Jan-22	23:00:00	22-Jan-2223:00	70.8	35.1	80.0	76.3	77.0	72.0	74.0	66.0	37.0	63.1	65.9
22-Jan-22	23:30:00	22-Jan-2223:30	70.8	35.1	80.0	76.9	77.0	72.6	74.7	66.0	38.0	64.0	66.0
23-Jan-22	0:00:00	23-Jan-2200:00	64.6	33.6	76.6	73.7	73.3	71.9	73.1	64.8	36.9	63.2	64.8
23-Jan-22	0:30:00	23-Jan-2200:30	62.4	32.2	73.0	70.0	70.0	70.0	71.3	64.0	36.0	62.0	64.0
23-Jan-22	1:00:00	23-Jan-2201:00	62.4	32.2	73.0	70.0	70.0	70.0	71.0	63.7	36.0	61.9	64.0
23-Jan-22	1:30:00	23-Jan-2201:30	62.4	33.7	73.0	70.0	70.0	70.0	71.0	63.0	36.0	61.5	64.0
23-Jan-22	2:00:00	23-Jan-2202:00	62.4	34.2	73.0	69.4	70.0	69.7	71.0	63.0	35.7	61.6	63.4
23-Jan-22	2:30:00	23-Jan-2202:30	62.4	34.2	73.0	70.0	70.0	69.7	71.0	63.0	35.6	61.0	63.0
23-Jan-22	3:00:00	23-Jan-2203:00	60.3	34.2	73.0	69.7	70.0	69.3	71.0	63.0	35.0	61.0	63.0
23-Jan-22	3:30:00	23-Jan-2203:30	60.3	34.6	72.2	69.2	69.7	69.0	70.7	63.0	35.0	61.0	63.0
23-Jan-22	4:00:00	23-Jan-2204:00	60.3	35.1	72.0	69.0	69.1	69.0	70.0	62.8	34.8	60.9	62.8
23-Jan-22	4:30:00	23-Jan-2204:30	60.3	36.0	71.7	68.5	69.2	68.2	70.0	62.0	34.0	59.0	62.0
23-Jan-22	5:00:00	23-Jan-2205:00	61.2	37.1	71.0	68.3	68.6	67.6	69.2	61.2	33.2	59.0	61.2
23-Jan-22	5:30:00	23-Jan-2205:30	68.8	37.1	77.2	74.1	74.2	69.5	72.6	63.9	34.8	60.8	63.8
23-Jan-22	6:00:00	23-Jan-2206:00	68.8	36.5	79.0	75.7	76.0	70.7	73.0	64.0	35.0	61.0	64.0
23-Jan-22	6:30:00	23-Jan-2206:30	68.8	35.0	79.0	76.0	76.0	70.7	73.3	64.3	35.6	61.0	64.0
23-Jan-22	7:00:00	23-Jan-2207:00	69.8	34.2	79.0	75.7	75.7	71.1	74.0	64.2	36.2	61.6	64.2
23-Jan-22	7:30:00	23-Jan-2207:30	70.8	34.2	79.0	76.0	76.0	71.4	74.0	65.0	36.7	63.0	65.0
23-Jan-22	8:00:00	23-Jan-2208:00	70.8	32.5	79.0	76.0	76.0	72.0	74.0	65.0	37.0	62.7	65.0
23-Jan-22	8:30:00	23-Jan-2208:30	70.8	33.7	79.0	75.7	75.8	71.2	74.0	65.0	37.0	63.0	65.0
23-Jan-22	9:00:00	23-Jan-2209:00	70.8	34.2	79.0	75.9	75.7	71.3	74.0	65.0	37.0	63.0	65.0
23-Jan-22	9:30:00	23-Jan-2209:30	70.8	35.1	79.0	75.8	76.0	71.0	74.0	65.0	37.0	62.8	65.0

23-Jan-22	10:00:00	23-Jan-2210:00	70.8	35.5	79.0	75.7	76.0	71.0	74.0	65.0	36.2	62.0	65.0
23-Jan-22	10:30:00	23-Jan-2210:30	68.6	36.1	79.0	76.0	76.0	71.6	74.0	64.9	37.0	62.6	64.9
23-Jan-22	11:00:00	23-Jan-2211:00	61.5	36.1	72.5	69.5	69.4	69.2	71.0	62.8	35.0	60.3	62.8
23-Jan-22	11:30:00	23-Jan-2211:30	60.2	36.1	71.8	68.2	68.5	68.1	69.6	61.7	33.6	59.2	61.4
23-Jan-22	12:00:00	23-Jan-2212:00	59.5	36.1	71.0	68.0	68.0	67.0	69.0	61.0	33.0	58.0	61.0
23-Jan-22	12:30:00	23-Jan-2212:30	62.9	36.4	71.0	69.3	68.9	67.5	70.0	61.4	33.3	58.2	61.0
23-Jan-22	13:00:00	23-Jan-2213:00	68.3	37.1	77.3	75.0	75.2	70.0	73.0	64.0	35.0	60.5	63.7
23-Jan-22	13:30:00	23-Jan-2213:30	68.3	37.1	78.0	75.0	74.7	70.0	73.0	64.0	35.0	61.0	64.0
23-Jan-22	14:00:00	23-Jan-2214:00	69.7	34.6	78.6	75.3	75.6	70.5	73.3	65.0	35.7	61.5	64.7
23-Jan-22	14:30:00	23-Jan-2214:30	70.3	34.2	79.0	76.0	76.0	71.0	74.0	65.0	37.0	62.9	65.0
23-Jan-22	15:00:00	23-Jan-2215:00	70.3	33.3	79.0	76.0	76.0	71.2	74.0	65.0	37.0	63.0	65.0
23-Jan-22	15:30:00	23-Jan-2215:30	70.3	33.0	79.0	76.0	76.0	71.7	74.0	65.8	37.0	63.0	65.0
23-Jan-22	16:00:00	23-Jan-2216:00	70.3	33.2	79.2	76.0	76.3	72.0	74.0	66.0	37.0	63.0	65.0
23-Jan-22	16:30:00	23-Jan-2216:30	70.3	33.2	79.7	76.3	76.0	72.0	74.0	66.0	37.1	63.3	66.0
23-Jan-22	17:00:00	23-Jan-2217:00	65.2	33.2	76.8	73.5	73.8	71.0	72.7	65.1	36.7	63.0	65.4
23-Jan-22	17:30:00	23-Jan-2217:30	61.5	33.2	73.0	69.1	69.4	69.0	71.0	63.0	35.0	61.4	63.3
23-Jan-22	18:00:00	23-Jan-2218:00	61.5	33.2	72.0	68.6	68.5	69.0	70.5	62.7	35.0	60.6	63.0
23-Jan-22	18:30:00	23-Jan-2218:30	61.5	33.2	72.0	68.3	68.6	68.5	70.0	62.6	34.9	60.3	62.6
23-Jan-22	19:00:00	23-Jan-2219:00	60.1	33.2	71.6	68.0	69.0	68.0	70.0	62.0	34.0	60.0	62.0
23-Jan-22	19:30:00	23-Jan-2219:30	59.5	33.2	71.0	68.0	68.2	68.0	69.4	61.9	34.0	59.5	62.0
23-Jan-22	20:00:00	23-Jan-2220:00	59.5	33.2	71.0	68.0	68.0	67.7	69.2	61.0	34.0	59.6	62.0
23-Jan-22	20:30:00	23-Jan-2220:30	65.6	33.2	74.8	71.7	71.8	69.1	72.0	62.2	34.4	60.3	62.4
23-Jan-22	21:00:00	23-Jan-2221:00	68.6	33.2	78.0	74.7	75.0	70.0	72.5	64.0	35.7	61.1	64.0
23-Jan-22	21:30:00	23-Jan-2221:30	68.6	33.2	78.2	75.2	75.3	70.2	73.0	64.0	36.0	62.0	64.0
23-Jan-22	22:00:00	23-Jan-2222:00	68.6	33.2	79.0	75.1	75.7	71.0	73.0	64.0	36.0	62.0	64.0
23-Jan-22	22:30:00	23-Jan-2222:30	68.6	33.2	79.0	75.7	76.0	71.0	73.3	64.1	36.0	62.0	64.6
23-Jan-22	23:00:00	23-Jan-2223:00	69.1	33.2	79.0	76.0	76.0	71.0	73.7	65.0	36.2	62.0	65.0
23-Jan-22	23:30:00	23-Jan-2223:30	70.6	33.2	79.2	76.0	76.2	71.8	74.0	65.0	37.0	63.0	65.3
24-Jan-22	0:00:00	24-Jan-2200:00	70.6	33.2	79.1	76.0	76.1	71.4	74.0	65.0	37.0	63.0	65.2
24-Jan-22	0:30:00	24-Jan-2200:30	70.6	33.7	79.8	76.5	77.0	72.0	74.0	65.9	37.0	63.4	65.9
24-Jan-22	1:00:00	24-Jan-2201:00	70.6	34.0	79.4	76.7	77.0	72.0	74.7	66.0	37.6	63.1	66.0
24-Jan-22	1:30:00	24-Jan-2201:30	65.0	31.4	78.5	73.6	73.7	71.1	72.5	65.3	35.6	62.9	65.4
24-Jan-22	2:00:00	24-Jan-2202:00	62.0	31.2	73.0	69.7	70.1	69.4	71.3	63.4	36.0	61.2	63.4
24-Jan-22	2:30:00	24-Jan-2202:30	62.0	33.4	73.0	70.0	70.0	70.0	71.0	64.0	36.0	61.9	64.0
24-Jan-22	3:00:00	24-Jan-2203:00	62.0	34.2	73.0	70.0	70.6	70.0	71.0	63.3	36.0	61.2	64.0
24-Jan-22	3:30:00	24-Jan-2203:30	62.0	34.2	73.0	70.0	70.0	69.7	71.0	63.0	35.4	61.3	63.4
24-Jan-22	4:00:00	24-Jan-2204:00	61.0	35.1	72.7	69.4	70.0	69.4	71.0	63.0	35.0	61.0	63.0
24-Jan-22	4:30:00	24-Jan-2204:30	60.0	34.4	72.2	69.3	69.5	68.8	70.2	62.7	35.0	60.9	63.0

24-Jan-22	5:00:00	24-Jan-2205:00	60.0	34.6	71.9	68.7	69.0	68.0	70.0	62.0	34.0	60.0	62.0
24-Jan-22	5:30:00	24-Jan-2205:30	62.6	35.1	72.2	69.2	69.7	67.9	70.3	61.2	33.7	59.4	62.9
24-Jan-22	6:00:00	24-Jan-2206:00	67.9	34.4	78.0	74.9	74.7	69.0	72.0	63.0	34.7	60.0	63.0
24-Jan-22	6:30:00	24-Jan-2206:30	67.9	34.0	78.0	74.8	74.5	69.3	72.0	63.0	35.0	60.0	63.0
24-Jan-22	7:00:00	24-Jan-2207:00	67.9	33.2	78.0	74.7	74.3	69.3	72.0	63.5	35.0	60.8	63.0
24-Jan-22	7:30:00	24-Jan-2207:30	67.9	33.2	78.0	74.7	75.3	70.0	72.8	64.0	35.0	60.4	63.6
24-Jan-22	8:00:00	24-Jan-2208:00	67.9	33.4	78.0	74.7	75.0	70.0	72.6	63.7	35.0	61.0	63.6
24-Jan-22	8:30:00	24-Jan-2208:30	67.9	34.8	78.0	74.5	75.0	70.0	72.8	64.0	35.0	61.0	63.3
24-Jan-22	9:00:00	24-Jan-2209:00	67.9	36.8	78.0	75.0	74.7	70.0	72.7	64.0	35.0	61.0	64.0
24-Jan-22	9:30:00	24-Jan-2209:30	69.8	37.1	78.0	74.7	75.0	70.6	73.0	64.0	35.2	61.0	64.0
24-Jan-22	10:00:00	24-Jan-2210:00	70.1	35.8	78.0	75.0	75.5	70.0	73.0	64.0	35.1	61.0	64.0
24-Jan-22	10:30:00	24-Jan-2210:30	70.2	35.1	78.3	75.0	75.0	70.0	73.0	64.0	35.0	61.0	64.0
24-Jan-22	11:00:00	24-Jan-2211:00	70.2	34.1	78.0	75.0	74.7	70.0	73.0	64.0	35.0	61.0	64.0
24-Jan-22	11:30:00	24-Jan-2211:30	70.2	32.2	78.3	75.0	75.3	70.0	73.0	64.0	35.3	61.0	64.0
24-Jan-22	12:00:00	24-Jan-2212:00	69.6	31.9	78.0	74.8	74.2	70.0	73.0	64.0	35.0	61.0	64.0
24-Jan-22	12:30:00	24-Jan-2212:30	68.7	32.6	78.1	74.6	74.9	70.0	73.0	64.0	35.7	61.0	64.0
24-Jan-22	13:00:00	24-Jan-2213:00	68.8	33.3	78.5	75.5	74.7	70.3	73.0	64.6	36.0	61.0	64.0
24-Jan-22	13:30:00	24-Jan-2213:30	68.8	33.8	78.0	74.9	74.7	70.6	73.0	64.5	36.0	61.0	64.0
24-Jan-22	14:00:00	24-Jan-2214:00	68.7	35.0	78.5	75.6	74.9	71.0	73.0	64.6	36.0	61.4	64.0
24-Jan-22	14:30:00	24-Jan-2214:30	68.5	35.1	79.0	76.0	75.7	71.0	73.0	65.0	36.0	62.0	64.5
24-Jan-22	15:00:00	24-Jan-2215:00	68.5	34.6	79.0	75.2	75.7	71.0	73.0	65.0	36.0	62.0	64.7
24-Jan-22	15:30:00	24-Jan-2215:30	68.5	34.2	79.0	75.3	75.4	71.0	73.0	65.0	36.0	61.7	64.7
24-Jan-22	16:00:00	24-Jan-2216:00	68.5	34.2	78.7	75.0	75.0	71.0	73.2	65.0	36.0	62.0	64.7
24-Jan-22	16:30:00	24-Jan-2216:30	68.5	34.2	78.4	75.0	75.6	71.0	74.0	65.0	36.0	62.0	65.0
24-Jan-22	17:00:00	24-Jan-2217:00	68.5	34.2	78.6	75.3	75.0	71.0	73.7	65.0	36.0	62.0	64.7
24-Jan-22	17:30:00	24-Jan-2217:30	68.5	34.2	78.9	75.0	75.0	71.0	73.4	65.0	36.0	62.0	64.7
24-Jan-22	18:00:00	24-Jan-2218:00	68.5	34.2	78.3	74.9	74.6	71.0	73.0	65.0	36.0	62.0	64.5
24-Jan-22	18:30:00	24-Jan-2218:30	63.2	34.2	76.3	71.2	71.1	69.5	70.3	63.2	33.6	60.4	63.2
24-Jan-22	19:00:00	24-Jan-2219:00	60.1	34.2	71.0	67.7	67.6	67.1	69.0	61.0	33.0	58.4	60.7
24-Jan-22	19:30:00	24-Jan-2219:30	60.4	34.2	71.0	67.0	67.5	67.0	69.0	61.0	33.0	58.0	61.0
24-Jan-22	20:00:00	24-Jan-2220:00	59.1	33.9	70.9	67.0	67.3	67.0	69.0	60.5	33.0	58.0	60.3
24-Jan-22	20:30:00	24-Jan-2220:30	58.4	33.2	70.0	66.7	67.0	66.5	68.4	60.0	32.2	58.0	60.3
24-Jan-22	21:00:00	24-Jan-2221:00	63.7	33.2	72.5	69.5	69.6	67.3	70.3	63.4	33.2	58.6	61.6
24-Jan-22	21:30:00	24-Jan-2221:30	67.8	33.6	77.8	74.5	74.0	69.8	72.0	63.4	34.9	60.0	63.0
24-Jan-22	22:00:00	24-Jan-2222:00	67.8	34.2	78.0	75.0	74.9	70.0	72.1	63.8	35.0	60.0	63.0
24-Jan-22	22:30:00	24-Jan-2222:30	67.8	34.1	78.0	75.0	75.0	70.0	73.0	63.9	35.0	61.0	63.6
24-Jan-22	23:00:00	24-Jan-2223:00	67.8	32.3	78.0	75.0	75.0	70.0	72.4	64.0	35.0	61.0	64.0
24-Jan-22	23:30:00	24-Jan-2223:30	67.8	32.2	78.0	75.0	75.0	70.5	73.0	64.0	35.6	61.0	64.0

25-Jan-22	0:00:00	25-Jan-2200:00	67.8	32.4	78.0	75.0	75.4	70.1	73.0	64.0	35.1	61.0	64.0
25-Jan-22	0:30:00	25-Jan-2200:30	69.4	34.1	78.5	75.5	76.0	71.0	73.0	64.3	36.0	61.1	64.0
25-Jan-22	1:00:00	25-Jan-2201:00	69.9	34.2	78.7	75.7	76.0	71.0	73.0	65.0	36.0	61.7	64.0
25-Jan-22	1:30:00	25-Jan-2201:30	69.9	34.7	79.0	76.0	76.0	71.0	73.3	65.0	36.0	62.0	64.9
25-Jan-22	2:00:00	25-Jan-2202:00	69.9	34.3	79.0	76.0	76.0	71.0	74.0	65.0	36.0	62.0	65.0
25-Jan-22	2:30:00	25-Jan-2202:30	69.9	34.2	79.0	76.0	76.0	71.0	74.0	65.0	36.0	62.0	65.0
25-Jan-22	3:00:00	25-Jan-2203:00	69.9	34.2	79.0	76.0	76.6	71.9	73.7	65.0	36.0	62.0	65.0
25-Jan-22	3:30:00	25-Jan-2203:30	69.9	34.2	80.0	76.6	77.0	72.0	74.0	65.0	36.8	62.0	65.0
25-Jan-22	4:00:00	25-Jan-2204:00	69.9	34.2	79.4	76.0	76.1	71.2	74.0	65.0	36.7	62.0	65.0
25-Jan-22	4:30:00	25-Jan-2204:30	64.1	34.2	76.5	73.3	73.7	70.2	72.3	63.6	35.8	59.6	63.7
25-Jan-22	5:00:00	25-Jan-2205:00	60.3	34.2	72.0	69.0	69.0	68.2	70.1	62.1	34.1	60.0	62.1
25-Jan-22	5:30:00	25-Jan-2205:30	60.9	34.2	72.0	69.0	69.4	69.0	70.2	62.1	35.0	61.0	63.0
25-Jan-22	6:00:00	25-Jan-2206:00	59.9	33.4	72.0	68.7	68.5	68.1	70.0	62.3	34.3	60.2	62.3
25-Jan-22	6:30:00	25-Jan-2206:30	59.9	34.2	71.5	68.3	68.8	68.0	70.0	61.7	34.0	60.0	62.0
25-Jan-22	7:00:00	25-Jan-2207:00	59.9	34.2	71.0	68.0	68.3	68.0	70.0	62.0	34.0	60.0	62.0
25-Jan-22	7:30:00	25-Jan-2207:30	59.9	34.2	71.0	68.0	68.3	67.9	69.8	62.0	34.0	60.0	62.0
25-Jan-22	8:00:00	25-Jan-2208:00	59.9	34.2	71.0	67.7	68.0	67.6	69.0	61.6	33.9	59.5	61.9
25-Jan-22	8:30:00	25-Jan-2208:30	59.9	33.3	70.3	67.0	67.0	67.0	69.0	61.0	33.3	59.0	61.0
25-Jan-22	9:00:00	25-Jan-2209:00	63.6	33.5	70.9	69.4	69.5	67.6	70.4	61.3	34.7	59.5	61.2
25-Jan-22	9:30:00	25-Jan-2209:30	67.5	34.2	77.0	74.0	73.3	69.4	72.0	63.3	35.0	61.0	63.0
25-Jan-22	10:00:00	25-Jan-2210:00	68.4	34.2	77.0	73.2	74.7	69.7	72.3	63.0	35.0	61.0	63.3
25-Jan-22	10:30:00	25-Jan-2210:30	69.4	34.2	77.3	74.2	74.3	70.0	72.0	64.0	35.0	61.0	63.7
25-Jan-22	11:00:00	25-Jan-2211:00	69.3	34.5	78.0	74.6	74.1	70.0	72.6	64.0	35.8	61.7	63.4
25-Jan-22	11:30:00	25-Jan-2211:30	69.3	33.9	77.9	74.8	74.7	70.2	72.6	64.0	35.7	62.0	64.3
25-Jan-22	12:00:00	25-Jan-2212:00	69.3	31.5	78.1	74.8	74.8	70.7	73.0	64.6	36.0	62.0	64.0
25-Jan-22	12:30:00	25-Jan-2212:30	69.3	31.4	78.8	75.3	75.0	71.0	73.0	64.9	36.0	62.0	64.9
25-Jan-22	13:00:00	25-Jan-2213:00	69.3	33.2	78.9	75.9	75.5	71.0	73.9	65.0	37.0	62.3	65.0
25-Jan-22	13:30:00	25-Jan-2213:30	69.3	33.2	79.0	76.0	76.0	71.3	73.3	65.0	36.4	62.7	65.0
25-Jan-22	14:00:00	25-Jan-2214:00	69.3	33.2	79.0	76.0	76.0	71.6	74.0	65.3	37.0	63.0	65.0
25-Jan-22	14:30:00	25-Jan-2214:30	69.3	32.3	79.2	76.0	76.2	72.0	74.0	65.9	37.0	63.1	65.0
25-Jan-22	15:00:00	25-Jan-2215:00	69.3	32.4	80.0	76.0	76.1	72.0	74.3	66.0	37.0	63.2	66.0
25-Jan-22	15:30:00	25-Jan-2215:30	69.3	32.2	79.3	76.0	76.0	72.0	74.0	65.7	37.0	63.0	65.5
25-Jan-22	16:00:00	25-Jan-2216:00	63.6	32.8	75.8	72.3	72.2	70.6	72.3	65.6	36.6	62.0	62.9
25-Jan-22	16:30:00	25-Jan-2216:30	61.9	33.2	72.8	69.0	69.6	69.6	71.0	63.3	35.5	61.0	63.7
25-Jan-22	17:00:00	25-Jan-2217:00	61.9	33.2	72.0	69.0	69.0	69.0	71.0	63.0	35.0	61.0	63.0
25-Jan-22	17:30:00	25-Jan-2217:30	61.0	33.2	72.0	68.6	69.0	68.9	70.2	63.0	35.0	60.7	63.0
25-Jan-22	18:00:00	25-Jan-2218:00	59.9	33.2	72.0	68.0	68.2	68.0	70.0	62.0	34.4	60.0	62.4
25-Jan-22	18:30:00	25-Jan-2218:30	59.9	33.2	71.1	68.0	68.0	68.0	69.3	62.0	34.0	60.0	62.0

25-Jan-22	19:00:00	25-Jan-2219:00	59.9	33.2	71.0	67.5	67.2	68.0	69.0	61.1	33.7	59.6	61.7
25-Jan-22	19:30:00	25-Jan-2219:30	64.9	33.2	73.0	69.3	69.3	68.0	70.2	62.4	33.8	59.8	62.0
25-Jan-22	20:00:00	25-Jan-2220:00	68.3	33.6	78.0	74.0	74.3	70.0	72.0	64.0	35.3	61.0	64.0
25-Jan-22	20:30:00	25-Jan-2220:30	68.3	34.2	78.0	74.6	74.9	70.0	72.6	64.0	36.0	61.8	64.0
25-Jan-22	21:00:00	25-Jan-2221:00	68.3	33.3	78.0	75.0	75.0	70.9	73.0	64.0	36.0	62.0	64.0
25-Jan-22	21:30:00	25-Jan-2221:30	68.3	33.2	78.4	75.1	75.1	71.0	73.2	64.6	36.0	62.0	64.8
25-Jan-22	22:00:00	25-Jan-2222:00	68.5	33.5	79.0	75.4	76.0	71.0	73.7	65.0	36.6	63.0	65.0
25-Jan-22	22:30:00	25-Jan-2222:30	70.3	33.2	79.0	76.0	76.1	71.4	74.0	65.0	37.0	63.0	65.0
25-Jan-22	23:00:00	25-Jan-2223:00	70.3	33.2	79.0	76.0	76.7	72.0	74.0	65.3	37.0	63.0	65.0
25-Jan-22	23:30:00	25-Jan-2223:30	70.3	33.6	79.9	76.3	77.0	72.0	74.1	65.8	37.0	63.0	66.0
26-Jan-22	0:00:00	26-Jan-2200:00	70.3	34.2	80.0	76.3	76.4	72.0	74.2	66.0	37.0	63.0	66.0
26-Jan-22	0:30:00	26-Jan-2200:30	70.3	34.2	80.0	76.9	77.0	72.3	74.9	66.0	37.7	63.5	66.0
26-Jan-22	1:00:00	26-Jan-2201:00	66.7	33.3	79.0	76.0	76.0	72.0	74.4	65.4	37.6	61.8	65.5
26-Jan-22	1:30:00	26-Jan-2201:30	62.2	33.4	73.3	70.3	70.6	70.0	71.7	64.0	36.0	62.0	64.0
26-Jan-22	2:00:00	26-Jan-2202:00	62.2	34.7	73.0	70.0	70.6	70.0	71.2	64.0	36.0	62.0	64.0
26-Jan-22	2:30:00	26-Jan-2202:30	62.2	36.1	73.0	70.0	70.0	70.0	71.0	64.0	36.0	62.0	64.0
26-Jan-22	3:00:00	26-Jan-2203:00	62.2	36.1	73.0	70.0	70.3	70.0	71.0	64.0	36.0	61.7	64.0
26-Jan-22	3:30:00	26-Jan-2203:30	61.5	36.0	73.0	70.0	70.0	70.0	71.0	63.7	35.7	61.2	64.0
26-Jan-22	4:00:00	26-Jan-2204:00	60.2	33.3	72.7	69.7	70.0	69.3	71.0	63.2	35.2	61.1	63.2
26-Jan-22	4:30:00	26-Jan-2204:30	60.2	33.2	72.5	69.5	70.0	69.0	70.7	63.0	35.0	60.8	63.0
26-Jan-22	5:00:00	26-Jan-2205:00	60.2	33.6	71.6	68.6	68.6	68.3	69.5	61.6	34.3	59.9	61.7
26-Jan-22	5:30:00	26-Jan-2205:30	60.2	36.1	71.0	67.4	67.7	67.2	69.0	61.0	33.0	58.3	61.0
26-Jan-22	6:00:00	26-Jan-2206:00	66.6	35.1	74.5	69.1	65.9	68.4	70.8	62.1	33.8	59.2	62.6
26-Jan-22	6:30:00	26-Jan-2206:30	67.2	34.1	75.5	69.5	64.7	69.0	71.0	63.0	34.3	60.3	62.7
26-Jan-22	7:00:00	26-Jan-2207:00	67.2	33.5	75.4	69.1	64.4	69.0	71.5	63.0	34.0	60.0	63.0
26-Jan-22	7:30:00	26-Jan-2207:30	67.2	34.2	76.0	70.0	65.0	69.0	71.1	63.0	34.3	60.0	63.0
26-Jan-22	8:00:00	26-Jan-2208:00	67.2	33.3	75.6	69.6	65.0	69.0	71.3	63.0	34.6	60.0	63.0
26-Jan-22	8:30:00	26-Jan-2208:30	68.5	33.2	76.5	70.8	70.3	69.5	72.1	63.3	34.9	60.3	63.0
26-Jan-22	9:00:00	26-Jan-2209:00	69.4	32.6	78.0	75.0	75.1	70.0	72.9	64.0	35.0	60.9	63.3
26-Jan-22	9:30:00	26-Jan-2209:30	69.4	33.2	78.0	74.4	74.7	69.4	72.5	63.7	35.0	61.0	63.0
26-Jan-22	10:00:00	26-Jan-2210:00	69.4	33.8	78.0	74.4	75.0	70.0	73.0	64.0	35.0	61.0	63.7
26-Jan-22	10:30:00	26-Jan-2210:30	69.4	34.2	78.1	75.1	75.0	70.0	73.0	64.0	35.0	61.0	64.0
26-Jan-22	11:00:00	26-Jan-2211:00	69.4	34.8	77.9	74.7	74.0	69.8	73.0	64.0	35.4	61.0	64.0
26-Jan-22	11:30:00	26-Jan-2211:30	69.4	35.1	78.4	74.7	72.6	70.3	73.0	64.0	35.7	61.6	64.0
26-Jan-22	12:00:00	26-Jan-2212:00	69.4	32.7	79.0	76.2	75.6	71.2	73.9	64.0	36.9	62.4	64.9
26-Jan-22	12:30:00	26-Jan-2212:30	69.5	32.2	79.0	76.4	76.3	71.4	74.0	64.0	37.0	63.0	65.0
26-Jan-22	13:00:00	26-Jan-2213:00	71.5	33.1	79.7	76.4	77.0	72.0	74.0	64.0	37.0	63.0	65.4
26-Jan-22	13:30:00	26-Jan-2213:30	71.5	34.2	80.0	76.9	77.0	71.7	74.1	64.0	37.0	63.0	65.5

26-Jan-22	14:00:00	26-Jan-2214:00	70.1	34.2	80.0	77.0	77.0	72.0	74.8	64.0	37.2	63.9	66.0
26-Jan-22	14:30:00	26-Jan-2214:30	60.5	34.2	74.2	71.3	71.2	70.4	71.3	64.0	35.9	62.3	64.1
26-Jan-22	15:00:00	26-Jan-2215:00	60.5	34.2	72.7	69.7	69.7	69.4	71.0	64.0	35.0	61.2	63.2
26-Jan-22	15:30:00	26-Jan-2215:30	60.5	34.2	72.0	69.0	69.0	69.0	71.0	64.0	35.0	61.0	63.2
26-Jan-22	16:00:00	26-Jan-2216:00	60.5	34.2	72.0	69.0	69.2	69.0	70.1	64.0	35.0	61.0	63.0
26-Jan-22	16:30:00	26-Jan-2216:30	60.5	34.2	72.0	68.7	69.0	69.0	70.0	64.0	35.0	60.4	63.0
26-Jan-22	17:00:00	26-Jan-2217:00	60.5	34.2	71.2	68.2	68.7	68.5	70.0	64.0	34.4	60.0	62.4
26-Jan-22	17:30:00	26-Jan-2217:30	60.5	34.2	71.6	68.0	68.6	68.0	69.9	64.0	34.0	60.0	62.0
26-Jan-22	18:00:00	26-Jan-2218:00	68.1	34.2	76.1	72.5	72.6	69.6	72.4	64.0	35.8	61.5	63.8
26-Jan-22	18:30:00	26-Jan-2218:30	69.4	34.2	77.6	74.6	74.6	70.0	72.6	64.0	36.0	62.0	64.0
26-Jan-22	19:00:00	26-Jan-2219:00	69.8	34.2	78.0	74.4	74.7	70.0	72.3	64.0	36.0	61.7	63.7
26-Jan-22	19:30:00	26-Jan-2219:30	69.8	34.2	78.0	75.3	75.1	70.6	72.7	64.0	36.0	62.0	64.0
26-Jan-22	20:00:00	26-Jan-2220:00	69.8	34.2	78.0	75.0	75.5	70.3	73.0	64.0	36.0	62.0	64.0
26-Jan-22	20:30:00	26-Jan-2220:30	69.8	34.2	78.3	75.0	75.6	70.6	73.0	64.0	36.0	62.0	64.2
26-Jan-22	21:00:00	26-Jan-2221:00	69.8	33.4	79.0	75.7	76.0	71.0	73.0	64.0	36.3	62.0	65.0
26-Jan-22	21:30:00	26-Jan-2221:30	69.8	33.2	79.0	76.0	76.0	71.3	74.0	64.0	36.1	62.5	65.0
26-Jan-22	22:00:00	26-Jan-2222:00	69.8	32.0	80.0	76.5	77.0	72.0	74.0	64.0	37.0	63.0	65.3
26-Jan-22	22:30:00	26-Jan-2222:30	69.8	31.9	80.0	76.7	77.0	72.0	74.1	64.0	37.1	63.5	66.0
26-Jan-22	23:00:00	26-Jan-2223:00	69.8	32.9	80.0	77.3	77.2	72.4	75.0	64.0	38.0	64.0	66.0
26-Jan-22	23:30:00	26-Jan-2223:30	69.8	33.7	80.0	77.0	77.3	73.0	75.0	64.0	38.0	64.0	66.0
27-Jan-22	0:00:00	27-Jan-2200:00	61.1	34.2	74.9	71.9	72.4	70.9	72.6	64.0	36.4	60.7	64.3
27-Jan-22	0:30:00	27-Jan-2200:30	61.1	34.6	73.0	70.0	70.9	70.0	71.4	64.0	36.0	62.0	64.0
27-Jan-22	1:00:00	27-Jan-2201:00	61.1	35.1	73.0	70.0	70.5	70.0	71.0	64.0	36.0	62.0	64.0
27-Jan-22	1:30:00	27-Jan-2201:30	61.1	34.7	73.0	70.0	70.6	70.0	71.0	64.0	36.0	61.7	64.0
27-Jan-22	2:00:00	27-Jan-2202:00	61.1	33.2	73.0	70.0	70.0	70.0	71.0	64.0	36.0	61.1	63.8
27-Jan-22	2:30:00	27-Jan-2202:30	61.1	33.2	73.0	69.7	70.0	70.0	71.0	64.0	36.0	61.0	63.9
27-Jan-22	3:00:00	27-Jan-2203:00	61.1	33.9	73.0	70.0	70.6	69.7	71.0	64.0	35.0	61.0	63.0
27-Jan-22	3:30:00	27-Jan-2203:30	61.1	35.6	73.0	70.0	70.0	69.6	71.0	64.0	35.0	61.0	63.0
27-Jan-22	4:00:00	27-Jan-2204:00	61.1	35.1	72.4	69.4	70.0	69.0	70.6	64.0	35.0	60.8	63.0
27-Jan-22	4:30:00	27-Jan-2204:30	61.1	35.1	72.0	69.3	69.7	69.0	70.0	64.0	35.0	60.6	62.7
27-Jan-22	5:00:00	27-Jan-2205:00	60.0	35.1	72.0	68.7	68.8	67.8	69.6	64.0	33.9	58.9	61.6
27-Jan-22	5:30:00	27-Jan-2205:30	62.4	35.1	72.1	68.8	69.2	67.4	69.7	64.0	33.2	58.2	62.3
27-Jan-22	6:00:00	27-Jan-2206:00	69.1	34.2	77.7	75.0	74.7	69.7	72.0	64.0	35.0	60.0	63.1
27-Jan-22	6:30:00	27-Jan-2206:30	69.1	34.2	77.6	74.8	74.8	69.7	72.0	64.0	35.0	60.0	63.0
27-Jan-22	7:00:00	27-Jan-2207:00	69.1	34.3	77.0	74.6	74.6	70.0	72.0	64.0	35.0	60.5	63.1
27-Jan-22	7:30:00	27-Jan-2207:30	69.1	35.1	78.0	75.0	75.0	70.0	72.3	64.0	35.0	60.7	63.5
27-Jan-22	8:00:00	27-Jan-2208:00	69.1	35.1	78.0	75.0	75.0	70.0	72.6	64.0	35.0	61.0	64.0
27-Jan-22	8:30:00	27-Jan-2208:30	69.1	34.5	78.0	75.0	75.6	70.0	73.0	64.0	35.0	61.0	64.0

27-Jan-22	9:00:00	27-Jan-2209:00	69.1	34.2	78.0	75.0	75.0	70.3	73.0	64.0	35.0	61.0	64.0
27-Jan-22	9:30:00	27-Jan-2209:30	69.1	34.2	78.0	74.4	73.6	70.0	72.6	64.0	35.2	61.0	63.8
27-Jan-22	10:00:00	27-Jan-2210:00	69.2	34.4	79.0	75.4	76.2	70.9	73.6	64.0	35.9	62.0	64.4
27-Jan-22	10:30:00	27-Jan-2210:30	69.2	35.1	79.0	76.0	76.0	70.3	73.7	64.0	36.9	63.0	65.0
27-Jan-22	11:00:00	27-Jan-2211:00	70.1	35.1	79.6	76.0	76.3	71.3	73.4	64.0	36.4	62.7	65.0
27-Jan-22	11:30:00	27-Jan-2211:30	71.3	35.1	79.3	76.0	76.0	71.5	74.0	64.0	37.0	63.0	65.0
27-Jan-22	12:00:00	27-Jan-2212:00	71.3	34.6	79.9	76.3	76.9	71.6	74.0	64.0	37.0	63.0	65.8
27-Jan-22	12:30:00	27-Jan-2212:30	71.3	32.3	79.8	76.8	76.8	71.8	74.0	64.0	37.0	63.3	66.0
27-Jan-22	13:00:00	27-Jan-2213:00	68.9	33.2	79.6	76.6	77.0	71.9	74.3	64.0	37.3	63.5	65.0
27-Jan-22	13:30:00	27-Jan-2213:30	61.7	35.1	73.0	70.0	71.6	69.7	71.6	64.0	36.2	61.1	63.4
27-Jan-22	14:00:00	27-Jan-2214:00	61.7	35.1	72.7	69.4	70.0	69.4	70.9	64.0	35.6	61.0	63.8
27-Jan-22	14:30:00	27-Jan-2214:30	61.6	35.1	72.6	69.9	70.0	68.7	70.6	64.0	35.0	60.7	62.8
27-Jan-22	15:00:00	27-Jan-2215:00	61.7	34.4	72.0	69.0	69.4	69.0	70.0	64.0	35.0	60.7	63.0
27-Jan-22	15:30:00	27-Jan-2215:30	63.4	34.2	72.8	69.4	70.3	69.2	70.7	64.0	35.4	62.5	63.5
27-Jan-22	16:00:00	27-Jan-2216:00	68.7	34.2	78.7	75.6	75.6	71.0	73.1	64.0	36.1	62.5	65.0
27-Jan-22	16:30:00	27-Jan-2216:30	68.7	34.2	78.4	75.3	75.3	71.0	73.0	64.0	36.2	62.0	65.0
27-Jan-22	17:00:00	27-Jan-2217:00	68.7	34.2	78.2	75.0	75.5	71.0	73.0	64.0	36.1	62.2	65.0
27-Jan-22	17:30:00	27-Jan-2217:30	68.7	34.2	79.0	75.6	76.0	71.0	73.0	64.0	37.0	62.9	65.0
27-Jan-22	18:00:00	27-Jan-2218:00	68.7	34.2	78.7	75.2	75.4	71.0	73.3	64.0	37.0	62.0	65.0
27-Jan-22	18:30:00	27-Jan-2218:30	68.7	34.2	78.7	75.6	75.4	71.0	73.9	64.0	37.0	62.8	65.0
27-Jan-22	19:00:00	27-Jan-2219:00	68.7	34.2	79.0	75.4	75.3	71.0	74.0	64.0	37.0	63.0	65.0
27-Jan-22	19:30:00	27-Jan-2219:30	68.7	34.2	79.0	76.0	75.8	71.2	74.0	64.0	37.0	63.0	65.0
27-Jan-22	20:00:00	27-Jan-2220:00	64.0	34.2	76.8	73.5	74.1	70.7	72.7	64.0	36.7	61.5	64.4
27-Jan-22	20:30:00	27-Jan-2220:30	61.0	34.2	73.0	69.0	69.7	69.0	71.0	64.0	35.0	61.0	63.0
27-Jan-22	21:00:00	27-Jan-2221:00	61.0	34.2	72.7	69.0	69.7	69.0	71.0	64.0	35.0	61.0	63.0
27-Jan-22	21:30:00	27-Jan-2221:30	61.0	34.2	72.4	69.0	69.4	69.0	71.0	64.0	35.0	61.0	63.0
27-Jan-22	22:00:00	27-Jan-2222:00	61.0	31.9	72.4	69.0	70.0	69.0	70.4	64.0	35.0	61.0	63.0
27-Jan-22	22:30:00	27-Jan-2222:30	61.0	32.2	72.0	69.0	69.8	69.0	70.0	64.0	35.0	61.0	63.0
27-Jan-22	23:00:00	27-Jan-2223:00	61.0	32.6	72.0	68.7	69.3	69.0	70.0	64.0	35.0	61.0	63.0
27-Jan-22	23:30:00	27-Jan-2223:30	61.0	33.7	72.0	69.0	69.2	69.0	70.0	64.0	35.0	60.6	62.7
28-Jan-22	0:00:00	28-Jan-2200:00	62.8	34.0	72.0	68.4	69.2	68.2	70.2	64.0	34.5	60.0	62.3
28-Jan-22	0:30:00	28-Jan-2200:30	69.4	32.2	77.0	75.9	76.0	71.0	73.5	64.0	36.0	61.9	64.8
28-Jan-22	1:00:00	28-Jan-2201:00	69.4	32.2	79.0	76.0	76.0	71.2	74.0	64.0	36.9	62.7	65.0
28-Jan-22	1:30:00	28-Jan-2201:30	69.4	32.9	79.4	76.1	76.4	72.0	74.2	64.0	37.0	63.0	65.0
28-Jan-22	2:00:00	28-Jan-2202:00	69.4	35.1	80.0	77.0	77.0	72.0	74.4	64.0	37.0	63.0	65.9
28-Jan-22	2:30:00	28-Jan-2202:30	70.0	35.2	80.0	77.0	77.1	72.7	75.0	64.0	37.5	63.9	66.0
28-Jan-22	3:00:00	28-Jan-2203:00	71.4	36.1	80.3	77.5	78.0	73.0	75.0	64.0	38.0	64.0	66.4
28-Jan-22	3:30:00	28-Jan-2203:30	68.0	36.1	81.0	77.3	77.1	72.8	74.5	64.0	37.8	63.9	66.4

28-Jan-22	4:00:00	28-Jan-2204:00	62.2	35.5	74.6	70.2	71.0	70.2	71.7	64.0	36.1	62.0	64.0
28-Jan-22	4:30:00	28-Jan-2204:30	62.2	35.1	73.0	70.0	70.7	69.7	71.2	64.0	36.0	61.7	63.8
28-Jan-22	5:00:00	28-Jan-2205:00	61.0	36.1	72.7	69.7	70.2	68.7	70.7	64.0	34.8	60.5	62.6
28-Jan-22	5:30:00	28-Jan-2205:30	60.0	36.1	72.0	69.0	69.0	68.0	70.0	64.0	34.0	59.1	62.0
28-Jan-22	6:00:00	28-Jan-2206:00	60.0	36.1	71.2	68.2	69.0	67.8	69.4	64.0	33.7	59.0	61.4
28-Jan-22	6:30:00	28-Jan-2206:30	60.0	36.1	71.7	68.4	68.7	68.0	69.8	64.0	34.0	60.8	61.8
28-Jan-22	7:00:00	28-Jan-2207:00	65.3	35.8	73.5	70.8	70.8	68.8	70.2	64.0	34.8	60.5	62.9
28-Jan-22	7:30:00	28-Jan-2207:30	69.8	36.1	79.0	75.4	76.3	71.0	73.5	64.0	36.0	62.0	64.7
28-Jan-22	8:00:00	28-Jan-2208:00	69.8	35.7	79.0	76.0	76.0	71.0	74.0	64.0	36.6	62.8	65.0
28-Jan-22	8:30:00	28-Jan-2208:30	69.8	34.2	79.3	76.0	76.6	71.1	73.7	64.0	36.7	62.7	65.0
28-Jan-22	9:00:00	28-Jan-2209:00	69.8	33.6	79.0	76.0	76.3	71.2	74.0	64.0	37.0	63.0	65.0
28-Jan-22	9:30:00	28-Jan-2209:30	69.8	33.2	79.3	76.0	76.0	72.0	74.0	64.0	37.0	63.0	65.2
28-Jan-22	10:00:00	28-Jan-2210:00	69.9	33.3	79.3	76.0	76.6	71.7	74.0	64.0	37.0	63.0	66.0
28-Jan-22	10:30:00	28-Jan-2210:30	63.4	30.8	77.2	73.9	74.1	71.2	73.2	64.0	36.5	62.1	65.0
28-Jan-22	11:00:00	28-Jan-2211:00	60.4	30.3	73.0	70.0	69.4	69.7	71.0	64.0	36.0	61.0	63.4
28-Jan-22	11:30:00	28-Jan-2211:30	60.3	29.3	72.0	69.1	69.0	69.1	70.6	64.0	35.0	61.0	63.3
28-Jan-22	12:00:00	28-Jan-2212:00	60.1	29.3	72.2	69.2	69.2	69.0	70.6	64.0	35.0	61.0	63.0
28-Jan-22	12:30:00	28-Jan-2212:30	60.1	29.3	72.1	69.1	69.4	69.0	70.6	64.0	35.0	61.0	63.0
28-Jan-22	13:00:00	28-Jan-2213:00	60.1	29.3	72.0	69.0	69.0	69.0	70.0	64.0	35.0	61.0	63.0
28-Jan-22	13:30:00	28-Jan-2213:30	60.1	29.3	72.0	68.4	69.0	68.1	70.0	64.0	34.9	60.2	62.6
28-Jan-22	14:00:00	28-Jan-2214:00	60.1	29.3	72.0	68.3	69.0	68.3	70.0	64.0	34.0	60.0	62.0
28-Jan-22	14:30:00	28-Jan-2214:30	67.0	30.5	75.3	72.1	72.0	69.6	71.8	64.0	35.2	60.0	63.0
28-Jan-22	15:00:00	28-Jan-2215:00	68.4	32.2	78.7	75.0	75.1	71.0	73.0	64.0	36.0	61.8	64.5
28-Jan-22	15:30:00	28-Jan-2215:30	68.4	32.2	79.0	75.5	75.5	71.0	73.3	64.0	36.3	62.7	65.0
28-Jan-22	16:00:00	28-Jan-2216:00	68.4	32.5	79.0	75.1	76.0	71.0	73.7	64.0	36.7	62.7	65.0
28-Jan-22	16:30:00	28-Jan-2216:30	68.4	33.2	79.0	76.0	76.0	71.0	74.0	64.0	37.0	63.0	65.0
28-Jan-22	17:00:00	28-Jan-2217:00	69.6	33.2	79.0	76.0	76.0	71.9	74.0	64.0	37.0	63.0	65.0
28-Jan-22	17:30:00	28-Jan-2217:30	70.5	33.2	79.0	76.0	76.3	72.0	74.0	64.0	37.0	63.0	65.0
28-Jan-22	18:00:00	28-Jan-2218:00	70.5	33.2	79.0	75.7	75.4	72.0	74.0	64.0	37.0	63.0	65.6
28-Jan-22	18:30:00	28-Jan-2218:30	66.1	33.2	78.1	75.1	75.2	72.0	73.6	64.0	36.8	62.3	65.0
28-Jan-22	19:00:00	28-Jan-2219:00	60.6	33.2	73.0	69.4	69.6	70.1	71.0	64.0	35.4	61.0	63.7
28-Jan-22	19:30:00	28-Jan-2219:30	60.6	33.2	72.6	69.3	69.7	69.0	71.0	64.0	35.0	61.0	63.2
28-Jan-22	20:00:00	28-Jan-2220:00	60.6	33.2	72.0	69.0	69.7	69.0	70.1	64.0	35.0	60.5	63.0
28-Jan-22	20:30:00	28-Jan-2220:30	60.6	33.2	72.0	68.7	69.0	68.4	70.0	64.0	34.8	60.0	62.2
28-Jan-22	21:00:00	28-Jan-2221:00	60.6	33.2	72.0	68.5	69.0	68.2	70.0	64.0	34.6	60.3	62.0
28-Jan-22	21:30:00	28-Jan-2221:30	62.9	33.2	72.4	68.9	69.0	68.1	70.3	64.0	34.3	60.0	62.3
28-Jan-22	22:00:00	28-Jan-2222:00	69.0	33.2	79.0	75.5	74.4	71.0	73.0	64.0	36.0	62.0	64.0
28-Jan-22	22:30:00	28-Jan-2222:30	69.0	33.2	79.0	75.7	76.3	71.0	73.7	64.0	36.3	62.0	64.7

28-Jan-22	23:00:00	28-Jan-2223:00	69.0	33.2	79.0	76.0	71.0	73.7	64.0	36.5	62.9	65.0
28-Jan-22	23:30:00	28-Jan-2223:30	69.3	33.2	79.6	76.3	71.9	74.0	64.0	37.0	63.0	65.1
29-Jan-22	0:00:00	29-Jan-2200:00	71.0	33.2	79.7	76.4	72.0	74.0	64.0	37.0	63.0	65.4
29-Jan-22	0:30:00	29-Jan-2200:30	71.0	33.2	80.0	77.0	72.3	74.3	64.0	37.3	63.2	66.0
29-Jan-22	1:00:00	29-Jan-2201:00	71.0	33.2	80.0	77.0	72.4	75.0	64.0	38.0	64.0	66.0
29-Jan-22	1:30:00	29-Jan-2201:30	66.6	32.4	80.5	75.6	72.5	74.0	64.0	37.9	63.6	65.1
29-Jan-22	2:00:00	29-Jan-2202:00	61.4	31.2	73.8	70.6	70.6	72.0	64.0	37.0	62.0	64.2
29-Jan-22	2:30:00	29-Jan-2202:30	61.4	31.2	73.6	70.3	70.0	72.0	64.0	36.1	62.0	64.0
29-Jan-22	3:00:00	29-Jan-2203:00	61.4	32.1	74.0	70.6	70.3	71.8	64.0	36.0	62.0	64.0
29-Jan-22	3:30:00	29-Jan-2203:30	61.4	35.1	73.4	70.0	70.0	71.6	64.0	35.9	61.6	63.9
29-Jan-22	4:00:00	29-Jan-2204:00	61.4	34.6	72.6	69.0	69.0	71.0	64.0	35.0	60.0	63.0
29-Jan-22	4:30:00	29-Jan-2204:30	61.4	34.2	72.3	69.3	69.0	70.4	64.0	35.0	60.0	62.3
29-Jan-22	5:00:00	29-Jan-2205:00	61.4	34.9	72.0	69.0	68.3	70.0	64.0	34.2	60.0	62.0
29-Jan-22	5:30:00	29-Jan-2205:30	61.4	35.6	72.0	69.0	68.0	70.0	64.0	34.0	59.8	62.0
29-Jan-22	6:00:00	29-Jan-2206:00	60.6	36.1	72.0	68.9	68.0	69.8	64.0	34.0	59.0	62.0
29-Jan-22	6:30:00	29-Jan-2206:30	68.9	35.7	77.0	73.0	70.5	72.3	64.0	35.5	60.4	64.5
29-Jan-22	7:00:00	29-Jan-2207:00	68.8	35.1	78.0	74.3	71.0	73.0	64.0	36.0	62.0	65.0
29-Jan-22	7:30:00	29-Jan-2207:30	68.8	28.3	78.0	74.0	71.0	73.0	64.0	36.3	62.0	65.0
29-Jan-22	8:00:00	29-Jan-2208:00	68.8	29.1	78.0	74.0	71.0	73.0	64.0	36.8	62.6	65.0
29-Jan-22	8:30:00	29-Jan-2208:30	68.8	29.1	78.0	74.0	71.0	73.9	64.0	37.0	63.0	65.0
29-Jan-22	9:00:00	29-Jan-2209:00	68.8	29.1	78.0	74.0	71.0	74.0	64.0	37.0	63.0	65.0
29-Jan-22	9:30:00	29-Jan-2209:30	68.8	29.6	78.0	74.0	71.5	74.0	64.0	37.0	63.0	65.0
29-Jan-22	10:00:00	29-Jan-2210:00	68.8	30.1	78.0	74.0	72.0	74.0	64.0	37.0	63.0	65.1
29-Jan-22	10:30:00	29-Jan-2210:30	60.6	29.0	74.2	70.0	70.2	71.7	64.0	35.4	62.3	63.5
29-Jan-22	11:00:00	29-Jan-2211:00	60.9	29.0	72.0	68.0	69.0	70.7	64.0	35.0	61.0	63.0
29-Jan-22	11:30:00	29-Jan-2211:30	60.9	29.0	72.0	67.7	69.0	70.3	64.0	35.0	61.0	63.0
29-Jan-22	12:00:00	29-Jan-2212:00	60.9	28.5	72.0	67.5	69.0	70.0	64.0	35.0	61.0	62.7
29-Jan-22	12:30:00	29-Jan-2212:30	60.9	28.0	71.4	67.3	68.7	70.0	64.0	34.6	60.5	62.3
29-Jan-22	13:00:00	29-Jan-2213:00	60.9	28.0	71.0	67.0	68.0	70.0	64.0	34.0	60.0	62.0
29-Jan-22	13:30:00	29-Jan-2213:30	61.2	28.0	71.0	67.0	68.0	70.1	64.0	34.1	60.0	62.2
29-Jan-22	14:00:00	29-Jan-2214:00	68.1	28.3	77.8	73.2	70.3	73.0	64.0	36.0	61.8	64.0
29-Jan-22	14:30:00	29-Jan-2214:30	68.1	29.0	77.5	73.2	70.2	72.4	64.0	36.0	62.0	64.0
29-Jan-22	15:00:00	29-Jan-2215:00	68.1	29.0	77.7	73.6	70.6	72.7	64.0	36.0	62.0	64.8
29-Jan-22	15:30:00	29-Jan-2215:30	68.1	29.0	78.0	74.0	71.0	73.0	64.0	36.3	62.0	65.0
29-Jan-22	16:00:00	29-Jan-2216:00	68.1	29.0	78.0	74.0	71.0	73.3	64.0	37.0	62.5	65.0
29-Jan-22	16:30:00	29-Jan-2216:30	68.1	29.0	78.0	74.0	71.0	73.8	64.0	37.0	63.0	65.0
29-Jan-22	17:00:00	29-Jan-2217:00	68.1	29.7	78.3	74.6	71.6	74.0	64.0	37.0	63.0	65.0
29-Jan-22	17:30:00	29-Jan-2217:30	68.1	29.9	78.9	74.3	71.7	74.0	64.0	37.0	63.0	65.0

29-Jan-22	18:00:00	29-Jan-2218:00	69.9	29.9	78.0	74.0	73.0	72.0	74.0	64.0	37.0	63.0	65.0
29-Jan-22	18:30:00	29-Jan-2218:30	70.1	29.9	78.3	74.3	73.0	72.0	73.8	64.0	37.0	63.0	65.0
29-Jan-22	19:00:00	29-Jan-2219:00	64.0	29.3	74.6	70.3	69.3	70.2	71.0	64.0	36.4	61.8	64.3
29-Jan-22	19:30:00	29-Jan-2219:30	61.2	28.9	71.3	67.3	66.0	68.4	70.0	64.0	34.7	60.1	62.2
29-Jan-22	20:00:00	29-Jan-2220:00	59.8	28.1	71.0	67.0	66.0	68.2	70.0	64.0	34.1	60.0	62.0
29-Jan-22	20:30:00	29-Jan-2220:30	59.1	27.9	71.0	67.0	66.0	68.0	70.0	64.0	34.0	60.0	62.0
29-Jan-22	21:00:00	29-Jan-2221:00	59.1	27.9	71.0	67.0	65.7	68.0	69.1	64.0	34.0	60.0	62.0
29-Jan-22	21:30:00	29-Jan-2221:30	64.0	27.3	73.1	69.1	68.1	68.7	70.2	64.0	34.4	60.0	62.5
29-Jan-22	22:00:00	29-Jan-2222:00	67.8	26.8	77.0	73.0	72.0	70.0	72.5	64.0	35.5	62.0	63.9
29-Jan-22	22:30:00	29-Jan-2222:30	67.8	26.8	77.9	73.6	72.3	70.6	73.0	64.0	36.0	62.0	64.0
29-Jan-22	23:00:00	29-Jan-2223:00	67.8	26.8	78.0	73.5	72.2	70.7	73.0	64.0	36.0	62.0	64.0
29-Jan-22	23:30:00	29-Jan-2223:30	68.3	28.5	78.0	73.9	72.0	71.0	73.0	64.0	36.0	62.0	64.7
30-Jan-22	0:00:00	30-Jan-2200:00	69.7	28.9	78.0	74.0	73.0	71.0	73.0	64.0	36.2	62.4	65.0
30-Jan-22	0:30:00	30-Jan-2200:30	69.7	29.0	78.3	74.0	73.0	71.0	73.1	64.0	37.0	63.0	65.0
30-Jan-22	1:00:00	30-Jan-2201:00	69.7	29.9	79.0	75.0	73.0	71.7	74.0	64.0	37.0	63.0	65.0
30-Jan-22	1:30:00	30-Jan-2201:30	69.7	29.9	79.0	75.0	73.3	72.0	74.0	64.0	37.0	63.0	65.7
30-Jan-22	2:00:00	30-Jan-2202:00	69.7	29.9	79.0	75.0	74.0	72.0	74.0	64.0	37.3	63.0	66.0
30-Jan-22	2:30:00	30-Jan-2202:30	69.7	29.9	79.2	75.2	74.2	72.3	74.9	64.0	37.9	64.0	66.0
30-Jan-22	3:00:00	30-Jan-2203:00	67.4	30.1	79.7	75.8	74.7	72.5	74.7	64.0	37.8	64.0	65.7
30-Jan-22	3:30:00	30-Jan-2203:30	60.8	29.2	72.5	68.5	67.8	69.6	71.5	64.0	35.5	62.0	63.4
30-Jan-22	4:00:00	30-Jan-2204:00	60.1	28.8	72.0	68.0	67.0	69.3	70.7	64.0	35.1	60.7	63.1
30-Jan-22	4:30:00	30-Jan-2204:30	60.1	28.8	72.0	68.5	67.5	69.4	71.0	64.0	35.2	61.1	63.2
30-Jan-22	5:00:00	30-Jan-2205:00	60.1	28.8	72.0	68.1	67.0	69.4	70.1	64.0	35.0	61.0	63.0
30-Jan-22	5:30:00	30-Jan-2205:30	60.1	27.9	71.6	67.3	66.6	68.3	69.4	64.0	34.2	59.1	61.9
30-Jan-22	6:00:00	30-Jan-2206:00	60.1	27.8	71.0	67.0	66.0	68.0	69.7	64.0	33.4	59.3	61.4
30-Jan-22	6:30:00	30-Jan-2206:30	65.6	28.3	73.7	69.7	68.9	69.1	71.3	64.0	34.9	60.7	62.7
30-Jan-22	7:00:00	30-Jan-2207:00	69.3	28.8	78.0	74.0	72.0	71.0	73.0	64.0	36.0	62.0	64.0
30-Jan-22	7:30:00	30-Jan-2207:30	69.3	28.8	78.0	73.9	71.9	71.0	73.0	64.0	36.0	62.0	64.0
30-Jan-22	8:00:00	30-Jan-2208:00	69.3	28.8	77.8	73.0	71.3	71.0	73.0	64.0	36.0	62.0	64.3
30-Jan-22	8:30:00	30-Jan-2208:30	69.3	28.8	77.9	73.0	71.9	71.0	73.0	64.0	36.0	62.0	64.5
30-Jan-22	9:00:00	30-Jan-2209:00	69.3	28.8	78.0	73.6	71.3	71.0	73.0	64.0	36.0	62.0	65.0
30-Jan-22	9:30:00	30-Jan-2209:30	69.3	28.8	78.0	73.6	71.6	71.0	73.0	64.0	36.6	62.0	64.7
30-Jan-22	10:00:00	30-Jan-2210:00	69.3	28.8	78.0	73.4	71.7	71.0	73.0	64.0	36.0	62.6	64.7
30-Jan-22	10:30:00	30-Jan-2210:30	69.3	28.8	78.0	73.7	72.0	71.0	73.0	64.0	36.3	62.0	65.0
30-Jan-22	11:00:00	30-Jan-2211:00	69.3	28.8	78.0	73.7	71.8	71.0	73.3	64.0	36.8	62.3	64.8
30-Jan-22	11:30:00	30-Jan-2211:30	69.3	29.0	78.0	74.0	71.6	71.0	73.0	64.0	36.9	63.0	64.9
30-Jan-22	12:00:00	30-Jan-2212:00	69.3	29.8	78.0	74.0	72.0	71.0	73.1	64.0	37.0	63.0	65.0
30-Jan-22	12:30:00	30-Jan-2212:30	69.3	29.8	78.0	74.0	72.0	71.0	74.0	64.0	37.0	63.0	65.0

30-Jan-22	13:00:00	30-Jan-2213:00	69.3	29.8	78.0	74.0	72.3	71.6	74.0	64.0	37.0	63.0	65.0
30-Jan-22	13:30:00	30-Jan-2213:30	65.7	29.4	77.9	73.3	71.3	71.4	74.0	64.0	36.6	62.3	64.6
30-Jan-22	14:00:00	30-Jan-2214:00	60.0	28.8	72.0	68.0	66.3	69.0	71.3	64.0	35.0	61.0	63.0
30-Jan-22	14:30:00	30-Jan-2214:30	60.0	28.8	72.0	67.7	66.3	69.0	70.0	64.0	35.0	61.0	63.0
30-Jan-22	15:00:00	30-Jan-2215:00	60.0	28.6	71.8	67.2	66.0	69.0	70.0	64.0	34.7	60.0	62.4
30-Jan-22	15:30:00	30-Jan-2215:30	60.0	27.8	71.0	67.0	66.0	68.1	70.0	64.0	34.3	60.0	62.2
30-Jan-22	16:00:00	30-Jan-2216:00	60.0	27.8	71.0	67.0	65.8	68.0	69.7	64.0	34.0	60.0	62.0
30-Jan-22	16:30:00	30-Jan-2216:30	65.2	27.8	72.7	68.6	67.0	68.6	70.1	64.0	34.5	60.5	62.3
30-Jan-22	17:00:00	30-Jan-2217:00	68.2	27.8	77.3	73.3	72.6	70.0	72.2	64.0	35.7	61.7	64.0
30-Jan-22	17:30:00	30-Jan-2217:30	69.0	28.8	77.9	73.9	74.1	70.0	73.0	64.0	36.0	62.0	64.0
30-Jan-22	18:00:00	30-Jan-2218:00	70.2	28.8	78.0	74.3	75.3	70.6	73.0	64.0	36.0	62.0	64.0
30-Jan-22	18:30:00	30-Jan-2218:30	70.2	28.8	78.3	74.6	75.5	70.6	73.0	64.0	36.0	62.0	64.0
30-Jan-22	19:00:00	30-Jan-2219:00	70.2	28.8	78.0	75.0	75.1	70.4	73.0	64.0	36.0	62.0	64.0
30-Jan-22	19:30:00	30-Jan-2219:30	70.2	28.8	78.3	75.0	75.1	70.7	73.0	64.0	36.0	62.0	64.3
30-Jan-22	20:00:00	30-Jan-2220:00	70.2	28.8	78.6	75.0	75.4	71.0	73.0	64.0	36.0	62.0	64.5
30-Jan-22	20:30:00	30-Jan-2220:30	70.2	28.8	78.3	75.0	76.0	71.0	73.0	64.0	36.0	62.2	64.7
30-Jan-22	21:00:00	30-Jan-2221:00	70.2	28.8	79.0	75.7	75.9	71.0	73.0	64.0	37.0	62.1	65.0
30-Jan-22	21:30:00	30-Jan-2221:30	70.2	29.8	79.0	75.8	75.8	71.0	73.9	64.0	37.0	63.0	65.0
30-Jan-22	22:00:00	30-Jan-2222:00	70.2	29.8	79.0	76.0	76.4	71.7	74.0	64.0	37.0	63.0	65.2
30-Jan-22	22:30:00	30-Jan-2222:30	70.2	29.8	79.8	76.5	77.0	72.0	74.0	64.0	37.0	63.0	65.7
30-Jan-22	23:00:00	30-Jan-2223:00	70.2	29.2	79.6	76.3	77.0	72.0	74.0	64.0	37.0	63.0	66.0
30-Jan-22	23:30:00	30-Jan-2223:30	65.8	28.4	78.2	75.2	75.1	71.6	73.1	64.0	36.7	60.9	65.4

DUTY UT: UT' STIEFERMANN
START: 1030

Date	Zone	Hydrant #	Time	Pressure
12 JAN 2022	A2	8-14	1030	70
12 JAN 2022	A2	7-11	1045	70
12 JAN 22	A2	8-14	1130	69
12 JAN 22	A2	7-11	1145	72
12 JAN 22	A2	8-14	1230	70
12 JAN 22	A2	7-11	1236	73
12 JAN 22	A2	8-14	1329	70
12 JAN 22	A2	7-11	1335	74
12 JAN 22	A2	8-14	1433	66
12 JAN 22	A2	7-11	1438	70
12 JAN 22	A2	8-14	1529	67
12 JAN 22	A2	7-11	1536	70
12 JAN 22	A2	8-14	1624	67
12 JAN 22	A2	7-11	1633	70
END OF DAY				
13 JAN 22	F1	21	1212	84
13 JAN 22	F1	FH 42	1230	78
13 JAN 22	F1	21	1318	40
13 JAN 22	F1	42	1323	42
13 JAN 22	F1	42	1415	50
13 JAN 22	F1	21	1422	46
13 JAN 22	F1	42	1456	42
13 JAN 22	F1	21	1502	44
13 JAN 22	F1	42	1605	60
13 JAN 22	F1	21	1621	66
13 JAN 22	F1	21	1707	72
14 JAN 22		42	1712	74
14 JAN 22	F1	42	0802	64
14 JAN 22	F1	6	0819	58
14 JAN 22	F1	6	0934	62
14 JAN 22	F1	42	0942	54
14 JAN 22	F1	6	1045	68
14 JAN 22	F1	42	1054	74
14 JAN 22	F1	6	1141	78
14 JAN 22	F1	42	1149	74
14 JAN 22	F1	6	1250	90
14 JAN 22	F1	42	1258	80
14 JAN 22	F1	6	1352	89
14 JAN 22	F1	42	1405	84
19 JAN 22	D3	382	0810	69
19 JAN 22	D3	476	0815	68
19 JAN 22	D3	382	0915	63
19 JAN 22	D3	476	0920	62
19 JAN 22	D3	382	1020	67
19 JAN 22	D3	476	1030	65
19 JAN 22	D3	382	1131	68
19 JAN 22	D3	476	1138	67
19 JAN 22	D3	382	1231	67
19 JAN 22	D3	476	1235	64
19 JAN 22	D3	382	1330	67

UTC
NA 10am

UT
MARKS

UT 4th

Enclosure (4)

UNRHWZ
vi
STIEBEN

Date	Zone	Hydrant #	Time	Pressure
12 JAN 22	D3	476	1332	63
12 JAN 22	D3	382	1427	65
12 JAN 22	D3	476	1431	65
12 JAN 22	D3	382	1528	69
12 JAN 22	D3	476	1530	66
12 JAN 22	D3	382	1630	70
12 JAN 22	D3	476	1635	68
12 JAN 22	D3	382	1735	68
12 JAN 22	D3	476	1801	66
12 JAN 22	D3	382	1821	66
12 JAN 22	D3	476	1831	67
20 JAN 22	D3	476	0830	71
20 JAN 22	D3	476	0845	69
20 JAN 22	D3	416	940	70
20 JAN 22	D3	476	950	66
20 JAN 22	D3	416	1055	73
20 JAN 22	D3	476	1105	70
20 JAN 22	D3	416	1210	71
20 JAN 22	D3	476	1217	68
20 JAN 22	D3	416	1310	70
20 JAN 22	D3	476	1320	66
20 JAN 22	D3	416	1403	74
20 JAN 22	D3	476	1412	68
20 JAN 22	D3	416	1508	72
20 JAN 22	D3	476	1518	68
21 JAN 22	F2	32	0805	58
21 JAN 22	F2	11	0815	58
21 JAN 22	F2	32	0906	58
21 JAN 22	F2	11	0910	57
21 JAN 22	F2	32	1012	58
21 JAN 22	F2	11	1018	56
21 JAN 22	F2	32	1038	52
21 JAN 22	F2	11	1100	56
21 JAN 22	F2	32	1120	52
21 JAN 22	F2	11	1219	57
21 JAN 22	F2	32	1225	52
21 JAN 22	F2	11	1305	69
21 JAN 22	F2	32	1311	55
21 JAN 22	F2	11	1400	60
21 JAN 22	F2	32	1405	55
21 JAN 22	F2	11	1501	60
21 JAN 22	F2	32	1508	54
21 JAN 22	F2	11	1601	57
21 JAN 22	F2	32	1608	54
21 JAN 22	F2	11	1702	57
21 JAN 22	F2	32	1708	54
21 JAN 22	F2	32	1813	54
21 JAN 22	F2	11	1822	57
22 JAN 22	F2	13	0815	50
22 JAN 22	F2	25	0930	62

RELOCATED
- INSTALLED
SAME #

UNRHWZ

4 March 2022

ADDENDUM

From: Naval Facilities Engineering Systems Command Representative, EWG Team
To: Interagency Drinking Water System Team

Subj: ADDENDUM TO THE MEMORANDUM TITLED RECORDS OF COMPLETED
RESIDENTIAL AND NON-RESIDENTIAL FLUSHING ZONE D3

Ref: (a) Non-Residential Flushing Plan, January 2022

Encl: (1) Non-Residential Flushing Field Record for the Post Office Distribution Center
(2) JBPHH System Pressure SCADA Data dated 4 March 2022

1. This memo documents the completion of non-residential flushing for the Post Office Distribution Center in Zone D3, as shown in Enclosure (1).
2. Enclosure (2) documents that meter 1485, located in Zone D3 at the Nimitz Ballfield, maintained a pressure of at least 30 psi for the duration of flushing.
3. This flushing record will be uploaded into EDMS at a later date for further documentation.
4. I certify under penalty of law that I have personally examined and I am familiar with the information submitted, and the submitted information is true, accurate, and complete.

Very respectfully,

HULSE.DANIEL.TH
OMAS.1512305322

Digitally signed by
HULSE.DANIEL.THOMAS.151230
5322
Date: 2022.03.04 13:38:31 -10'00'

D.T. HULSE
LT, CEC, USN

FLUSHING CHECKLIST: NON-RESIDENTIAL FACILITY

ADDRESS: POST OFFICE DISTRIBUTION CENTER ZONE POST OFFICE
FACILITY POC: BRIAN DATE 04 MAR 22
Facility has been closed since: N/A Facility is currently utilizing YDN JBPH-H water: (circle one)

This checklist is to be used by Navy and/or Army personnel to include Government Contractors for flushing non-residential facility plumbing systems, to include daycares and schools, which may have been contaminated with petroleum chemicals. All non-residential facilities shall only be flushed **AFTER** the water distribution system has been flushed and the Interagency Drinking Water System Team (IDWST) has authorized the specific Flushing Zone to advance to Non-residential Flushing. A copy of this this signed checklist will be provided to the IDWST for the administrative record of this project.

Due to the varying sizes of non-residential facilities and plumbing complexities the minimum time to completely flush a non-residential facility will vary.

ATTENTION

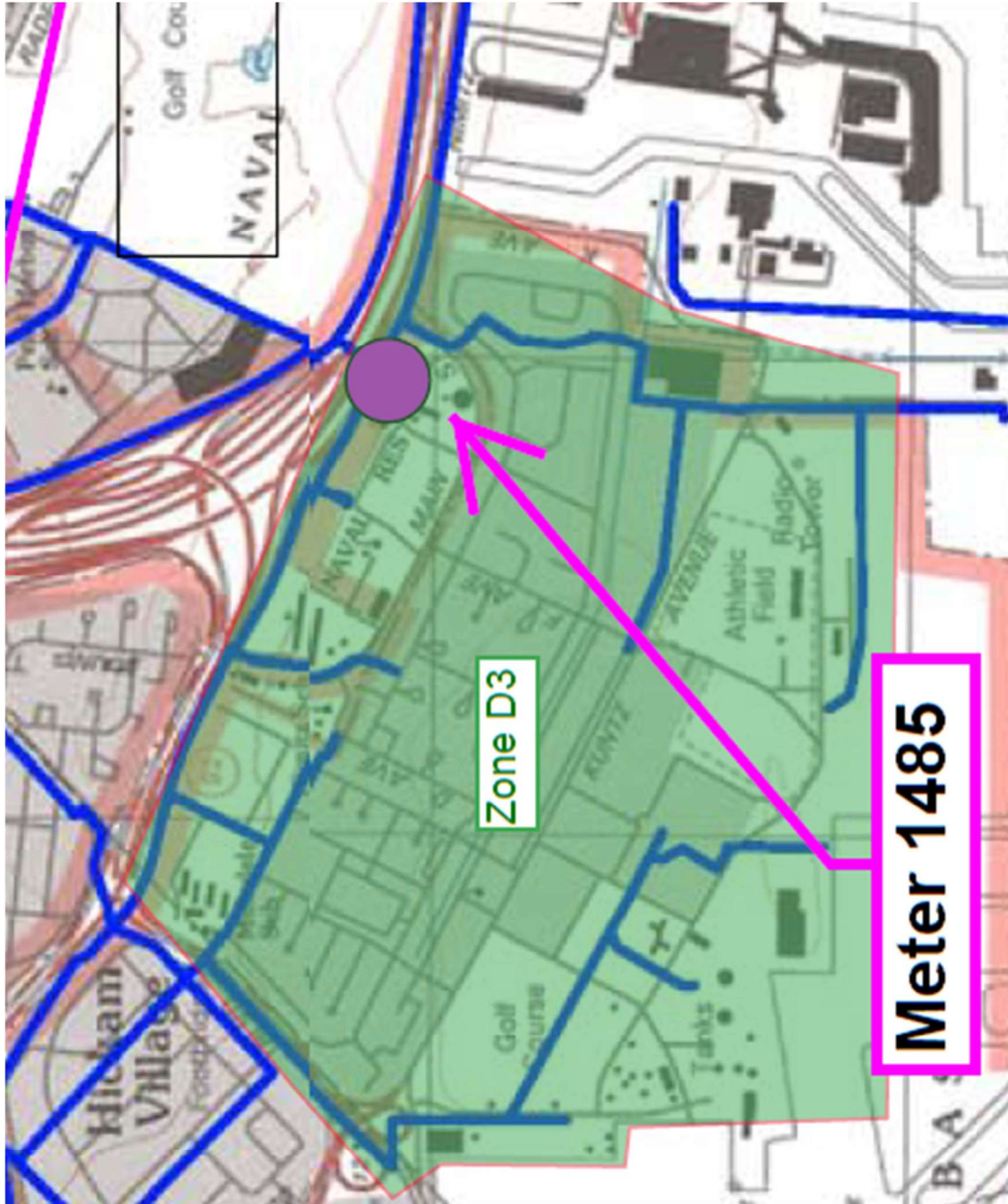
- DO NOT OVERFLOW DRAINS. DO NOT LEAVE RUNNING FAUCETS UNATTENDED.
- DOCUMENT ANYTHING UNUSUAL ENCOUNTERED BEFORE OR DURING FLUSH.
- IF STRONG FUEL SMELL IS PRESENT WHEN FLUSHING, UTILIZE BLOWERS/CEILING FANS/BATHROOM FANS TO VENTILATE THE SPACE. IF THE FUEL SMELL CANNOT BE CLEARED, CONTACT THE EV THROUGH THE EOC TO REQUEST ASSISTANCE.
- **PROVIDE NOTICE TO WATER AND WASTEWATER UTILITIES THROUGH THE EOC TO START FLUSHING LARGE FACILITIES.**

- ☒ STEP 1: FOLLOW STANDARD SITE SAFETY AND COVID-19 PROTOCOL
☒ STEP 2: PREPARE FACILITY FOR FLUSHING*
☒ STEP 3: PERFORM SERVICE LINE FLUSH AND COLD WATER PLUMBING FLUSH
☒ STEP 4: DRAIN ALL WATER HEATER(S) AND EXPANSION TANK(S)
☒ STEP 5: PERFORM HOT WATER SYSTEM FLUSH
☐ STEP 6: FLUSH ALL SPIGOTS
☒ STEP 7: ADDRESS MAJOR APPLIANCES AND WATER CONSUMING EQUIPMENT
☒ STEP 8: CLEAN UP
☒ STEP 9: RECORD WATER USE OR FLUSHING TIME, OBSERVATIONS AND NOTES
- FUEL ODOR PRESENT DURING OR AFTER FLUSHING? ☐ YES ☒ NO
- OBSERVATION/NOTES PAGE USED? ☐ YES ☒ NO

*See Appendix A for detailed checklist of Standard Operating Procedures for Steps 1 – 8.

CONFIRMATION OF FLUSHING FOR NON-RESIDENTIAL FACILITY

Flushing Lead Name SEABEE Organization CBM 303 DET PH
Signature [Signature] Date 0645 1111
(Start Time) (End Time)



Date	Time	Date/Time	4787	4127	2805	4710	5004	5002	9050	7158	6780	2550	1846	1485
4-Mar-22	0:00:00	04-Mar-2200:00	68.3	28.8	4.2	76.0	70.0	65.1	68.0	71.5	63.0	35.0	61.0	63.0
4-Mar-22	0:05:00	04-Mar-2200:05	68.3	28.8	4.2	76.0	70.0	66.0	68.0	71.0	63.0	35.0	60.4	63.0
4-Mar-22	0:10:00	04-Mar-2200:10	68.3	28.8	4.2	76.0	70.0	66.3	68.0	71.0	63.0	35.0	60.0	62.1
4-Mar-22	0:15:00	04-Mar-2200:15	68.3	28.8	4.2	76.0	70.0	67.0	68.0	71.0	62.7	35.0	60.8	62.0
4-Mar-22	0:20:00	04-Mar-2200:20	68.3	28.8	4.2	76.0	70.5	67.6	68.0	71.0	62.0	35.0	60.9	62.0
4-Mar-22	0:25:00	04-Mar-2200:25	68.3	28.8	4.2	76.0	71.0	68.0	68.0	71.0	62.0	35.0	60.0	62.0
4-Mar-22	0:30:00	04-Mar-2200:30	68.3	28.8	4.2	76.0	71.0	68.0	68.0	71.0	62.0	35.0	60.0	62.0
4-Mar-22	0:35:00	04-Mar-2200:35	68.3	28.8	4.2	76.0	71.0	68.0	68.0	71.0	62.0	35.0	60.0	62.0
4-Mar-22	0:40:00	04-Mar-2200:40	68.3	28.8	4.2	76.0	71.0	68.0	68.0	71.0	62.0	35.0	60.0	62.0
4-Mar-22	0:45:00	04-Mar-2200:45	68.3	28.8	4.2	76.0	71.0	68.6	68.0	71.0	62.0	35.0	60.1	62.0
4-Mar-22	0:50:00	04-Mar-2200:50	68.3	28.8	4.2	76.0	71.0	69.0	68.0	71.0	62.0	35.0	61.0	62.0
4-Mar-22	0:55:00	04-Mar-2200:55	68.3	28.8	4.2	76.8	71.7	69.8	68.0	71.0	62.0	35.0	60.7	62.0
4-Mar-22	1:00:00	04-Mar-2201:00	68.3	28.8	4.2	76.9	72.0	70.0	68.0	71.0	62.0	35.0	60.0	62.0
4-Mar-22	1:05:00	04-Mar-2201:05	68.3	28.8	4.2	76.0	72.0	70.0	68.0	71.0	62.0	35.0	60.0	62.0
4-Mar-22	1:10:00	04-Mar-2201:10	68.3	28.8	4.2	76.3	72.3	70.4	68.2	71.8	62.0	35.0	60.0	63.0
4-Mar-22	1:15:00	04-Mar-2201:15	68.3	28.8	4.2	77.0	73.0	71.0	69.0	72.0	62.0	35.0	60.9	63.0
4-Mar-22	1:20:00	04-Mar-2201:20	68.3	28.8	4.2	77.0	73.0	71.6	69.0	72.0	62.0	35.0	61.0	63.0
4-Mar-22	1:25:00	04-Mar-2201:25	68.3	28.8	4.2	77.0	73.0	72.0	69.0	72.0	62.5	35.0	61.0	63.0
4-Mar-22	1:30:00	04-Mar-2201:30	68.3	28.8	4.2	77.0	73.0	72.0	69.0	72.0	63.0	35.0	61.0	63.0
4-Mar-22	1:35:00	04-Mar-2201:35	68.3	28.8	4.2	77.1	73.0	72.1	69.0	72.0	63.0	35.0	61.0	63.0
4-Mar-22	1:40:00	04-Mar-2201:40	68.3	28.8	4.2	78.0	74.0	73.0	69.0	72.0	63.0	35.0	61.0	63.0
4-Mar-22	1:45:00	04-Mar-2201:45	68.3	28.8	4.2	78.0	74.0	73.0	69.0	72.0	63.0	35.0	61.0	63.0
4-Mar-22	1:50:00	04-Mar-2201:50	68.3	28.8	4.2	78.0	74.0	73.0	69.0	72.0	63.0	35.0	61.0	63.0
4-Mar-22	1:55:00	04-Mar-2201:55	68.3	28.8	4.2	78.0	74.0	73.0	69.0	72.0	63.0	35.0	61.0	63.0
4-Mar-22	2:00:00	04-Mar-2202:00	68.3	28.8	4.2	78.0	74.0	73.0	69.0	72.0	63.0	35.0	61.0	63.6
4-Mar-22	2:05:00	04-Mar-2202:05	68.3	28.8	4.2	78.0	74.0	73.0	69.0	72.0	63.0	35.0	61.0	64.0
4-Mar-22	2:10:00	04-Mar-2202:10	68.3	28.8	4.2	78.0	74.2	73.2	69.0	72.5	63.0	35.0	61.0	64.0
4-Mar-22	2:15:00	04-Mar-2202:15	68.3	28.8	4.2	78.0	75.0	74.0	69.0	73.0	63.0	35.0	61.0	63.9
4-Mar-22	2:20:00	04-Mar-2202:20	68.3	28.8	4.2	78.0	75.0	74.0	69.4	73.0	63.0	35.0	61.0	63.0
4-Mar-22	2:25:00	04-Mar-2202:25	68.3	28.8	4.2	78.0	75.0	74.0	70.0	73.0	63.0	35.2	61.0	63.4
4-Mar-22	2:30:00	04-Mar-2202:30	68.3	28.8	4.2	78.0	75.0	74.8	70.0	73.0	63.0	36.0	61.0	64.0
4-Mar-22	2:35:00	04-Mar-2202:35	68.3	28.8	4.2	78.0	75.0	75.0	70.0	73.0	63.8	36.0	61.0	64.0
4-Mar-22	2:40:00	04-Mar-2202:40	68.3	28.8	4.2	78.0	75.0	75.0	70.0	73.0	63.9	36.0	61.5	64.0
4-Mar-22	2:45:00	04-Mar-2202:45	68.3	28.8	4.2	78.0	74.8	75.0	70.0	73.0	63.0	36.0	62.0	64.0
4-Mar-22	2:50:00	04-Mar-2202:50	68.3	28.8	4.2	78.0	74.0	75.0	70.0	73.0	63.3	36.0	62.0	64.0
4-Mar-22	2:55:00	04-Mar-2202:55	68.3	28.8	4.2	78.0	74.0	74.5	70.0	73.0	64.0	36.0	62.0	64.0
4-Mar-22	3:00:00	04-Mar-2203:00	68.9	28.8	4.2	78.0	74.0	74.0	70.0	73.0	64.0	36.0	62.0	64.0
4-Mar-22	3:05:00	04-Mar-2203:05	70.3	28.8	4.2	78.8	74.8	74.9	70.0	73.0	64.0	36.0	62.0	64.0
4-Mar-22	3:10:00	04-Mar-2203:10	70.3	28.8	4.2	79.0	75.0	75.1	70.0	73.0	64.0	36.0	62.0	64.0
4-Mar-22	3:15:00	04-Mar-2203:15	70.3	28.8	4.2	79.0	75.0	76.0	70.0	73.0	64.0	36.0	62.0	64.0
4-Mar-22	3:20:00	04-Mar-2203:20	70.3	28.8	4.2	79.0	75.3	76.0	70.0	73.0	64.0	36.0	62.0	64.0

4-Mar-22	3:25:00	04-Mar-2203:25	70.3	28.8	4.2	79.0	76.0	76.0	70.0	73.0	64.0	36.0	62.0	64.0
4-Mar-22	3:30:00	04-Mar-2203:30	70.3	28.8	4.2	79.0	76.0	76.0	70.0	73.0	64.0	36.0	62.0	64.0
4-Mar-22	3:35:00	04-Mar-2203:35	70.3	28.8	4.2	79.0	76.0	76.0	70.0	73.0	64.0	36.0	62.0	64.0
4-Mar-22	3:40:00	04-Mar-2203:40	70.3	28.8	4.2	79.0	76.0	76.0	70.0	73.0	64.0	36.0	62.0	64.0
4-Mar-22	3:45:00	04-Mar-2203:45	70.3	28.8	4.2	79.0	76.0	76.0	70.2	73.0	64.0	36.0	62.0	64.0
4-Mar-22	3:50:00	04-Mar-2203:50	70.3	28.8	4.2	79.0	76.0	76.0	71.0	73.0	64.0	36.0	62.0	64.0
4-Mar-22	3:55:00	04-Mar-2203:55	70.3	28.8	4.2	79.0	76.0	75.3	70.5	73.0	64.0	36.0	62.0	64.0
4-Mar-22	4:00:00	04-Mar-2204:00	70.3	28.8	4.2	79.0	76.0	75.0	70.0	73.0	64.0	36.0	62.0	64.0
4-Mar-22	4:05:00	04-Mar-2204:05	70.3	28.8	4.2	79.0	76.0	75.0	69.2	73.0	64.0	36.0	62.0	64.0
4-Mar-22	4:10:00	04-Mar-2204:10	70.3	28.8	4.2	79.0	76.0	75.0	69.2	73.0	64.0	36.0	62.0	64.0
4-Mar-22	4:15:00	04-Mar-2204:15	70.3	28.8	4.2	79.0	76.0	75.0	70.0	73.0	64.0	36.0	62.0	64.0
4-Mar-22	4:20:00	04-Mar-2204:20	70.3	28.8	4.2	79.0	76.0	75.0	70.0	73.0	64.0	36.0	62.0	64.0
4-Mar-22	4:25:00	04-Mar-2204:25	70.3	28.8	4.2	79.0	76.0	75.0	70.0	73.0	64.0	36.0	62.0	64.0
4-Mar-22	4:30:00	04-Mar-2204:30	70.3	28.8	4.2	79.0	76.0	75.9	70.0	73.0	64.0	36.0	62.0	64.0
4-Mar-22	4:35:00	04-Mar-2204:35	70.3	28.8	4.2	79.0	76.0	76.0	70.0	73.5	64.0	36.0	62.0	64.0
4-Mar-22	4:40:00	04-Mar-2204:40	70.3	28.8	4.2	79.0	76.0	76.0	71.0	74.0	64.0	36.0	62.0	64.0
4-Mar-22	4:45:00	04-Mar-2204:45	70.3	28.8	4.2	79.0	76.0	76.0	70.9	73.3	64.0	36.0	62.0	64.9
4-Mar-22	4:50:00	04-Mar-2204:50	70.3	28.8	4.2	79.0	76.0	76.0	70.0	73.0	64.0	36.0	62.0	64.8
4-Mar-22	4:55:00	04-Mar-2204:55	70.3	28.8	4.2	79.0	76.0	76.0	70.5	73.0	64.0	36.0	62.0	64.0
4-Mar-22	5:00:00	04-Mar-2205:00	70.3	28.8	4.2	79.0	76.0	76.0	71.0	73.0	64.0	36.0	62.0	64.0
4-Mar-22	5:05:00	04-Mar-2205:05	70.3	28.8	4.2	79.0	75.1	75.1	70.2	73.0	64.0	36.0	62.0	64.0
4-Mar-22	5:10:00	04-Mar-2205:10	70.3	28.8	4.2	78.8	75.0	75.0	70.0	73.0	64.0	36.0	62.0	64.0
4-Mar-22	5:15:00	04-Mar-2205:15	70.3	28.8	4.2	78.0	75.0	75.0	70.0	73.0	63.8	36.0	61.3	63.9
4-Mar-22	5:20:00	04-Mar-2205:20	70.3	28.8	4.2	78.5	75.0	75.0	70.0	73.0	63.0	35.1	61.0	63.0
4-Mar-22	5:25:00	04-Mar-2205:25	70.3	28.8	4.2	79.0	75.0	75.0	70.0	73.0	63.6	35.3	61.0	63.4
4-Mar-22	5:30:00	04-Mar-2205:30	70.3	28.8	4.2	79.0	75.8	75.0	70.0	73.0	64.0	36.0	61.0	64.0
4-Mar-22	5:35:00	04-Mar-2205:35	70.3	28.8	4.2	79.0	75.9	75.0	70.0	73.0	64.0	35.4	61.0	64.0
4-Mar-22	5:40:00	04-Mar-2205:40	70.3	28.8	4.2	79.0	75.0	75.0	70.0	73.0	64.0	35.0	61.0	64.0
4-Mar-22	5:45:00	04-Mar-2205:45	70.3	28.8	4.2	79.0	75.4	75.0	70.0	73.0	64.0	35.0	61.0	64.0
4-Mar-22	5:50:00	04-Mar-2205:50	70.3	28.8	4.2	79.0	76.0	75.0	70.0	73.0	64.0	35.0	61.0	64.0
4-Mar-22	5:55:00	04-Mar-2205:55	70.3	28.8	4.2	79.0	75.3	75.0	70.0	73.0	64.0	35.0	61.0	64.0
4-Mar-22	6:00:00	04-Mar-2206:00	70.3	28.8	4.2	79.0	75.0	75.0	70.0	73.0	64.0	35.5	61.0	64.0
4-Mar-22	6:05:00	04-Mar-2206:05	70.3	28.8	4.2	79.0	75.0	75.0	70.0	73.0	63.9	36.0	61.0	64.0
4-Mar-22	6:10:00	04-Mar-2206:10	70.3	28.8	4.2	79.0	75.0	75.0	70.0	73.0	63.0	35.2	61.0	64.0
4-Mar-22	6:15:00	04-Mar-2206:15	70.3	28.8	4.2	79.0	75.0	75.0	70.0	73.0	63.4	35.0	61.0	64.0
4-Mar-22	6:20:00	04-Mar-2206:20	70.3	28.8	4.2	79.0	75.5	75.0	70.0	73.0	64.0	35.0	61.0	64.0
4-Mar-22	6:25:00	04-Mar-2206:25	70.3	28.8	4.2	79.0	76.0	75.0	70.0	73.0	64.0	35.0	61.0	64.0
4-Mar-22	6:30:00	04-Mar-2206:30	70.3	28.8	4.2	78.1	75.2	75.0	70.0	73.0	64.0	35.0	61.0	64.0
4-Mar-22	6:35:00	04-Mar-2206:35	70.3	28.8	4.2	78.0	75.0	75.0	70.0	73.0	63.1	35.0	61.0	63.2
4-Mar-22	6:40:00	04-Mar-2206:40	70.3	28.3	4.2	78.0	75.0	75.0	69.0	73.0	63.0	35.0	61.0	63.0
4-Mar-22	6:45:00	04-Mar-2206:45	70.3	27.8	4.2	78.0	75.0	75.0	69.0	73.0	63.0	35.0	61.0	63.0
4-Mar-22	6:50:00	04-Mar-2206:50	70.3	27.8	4.2	78.0	75.0	75.0	69.0	73.0	63.0	35.0	61.0	63.0
4-Mar-22	6:55:00	04-Mar-2206:55	70.3	27.8	4.2	78.0	75.0	75.0	69.0	73.0	63.0	35.0	61.0	63.0

4-Mar-22	7:00:00	04-Mar-2207:00	70.3	27.8	4.2	78.0	75.0	75.0	69.0	73.0	63.0	35.0	61.0	63.0
4-Mar-22	7:05:00	04-Mar-2207:05	70.3	27.8	4.2	78.0	75.0	74.0	69.0	73.0	63.0	35.0	60.5	63.0
4-Mar-22	7:10:00	04-Mar-2207:10	70.3	27.8	4.2	78.0	75.0	74.3	69.0	73.0	63.0	35.0	60.0	63.0
4-Mar-22	7:15:00	04-Mar-2207:15	70.3	27.8	4.2	78.0	75.0	75.0	69.0	73.0	63.0	35.0	60.0	63.0
4-Mar-22	7:20:00	04-Mar-2207:20	70.3	27.8	4.2	78.0	75.0	75.0	69.0	73.0	63.0	35.0	60.0	63.0
4-Mar-22	7:25:00	04-Mar-2207:25	70.3	27.8	4.2	78.0	75.0	75.0	69.0	72.8	63.0	35.0	60.0	63.0
4-Mar-22	7:30:00	04-Mar-2207:30	70.3	27.8	4.2	78.0	75.0	75.0	69.0	72.0	63.0	35.0	60.0	63.0
4-Mar-22	7:35:00	04-Mar-2207:35	70.3	27.8	4.2	78.0	75.0	75.0	69.0	72.5	63.0	35.0	60.0	63.0
4-Mar-22	7:40:00	04-Mar-2207:40	70.3	27.8	4.2	78.0	75.0	75.0	69.0	73.0	63.0	35.0	60.5	63.0
4-Mar-22	7:45:00	04-Mar-2207:45	70.3	27.8	4.2	78.0	75.0	75.0	69.0	72.4	63.0	35.0	61.0	63.0
4-Mar-22	7:50:00	04-Mar-2207:50	70.3	27.8	4.2	78.0	75.0	75.0	69.0	72.0	63.0	35.0	60.2	63.0
4-Mar-22	7:55:00	04-Mar-2207:55	70.3	27.8	4.2	78.0	75.0	74.8	69.0	72.0	62.1	35.0	60.0	63.8
4-Mar-22	8:00:00	04-Mar-2208:00	70.3	27.8	4.2	78.0	75.0	74.0	69.0	72.0	62.0	35.0	60.0	64.0
4-Mar-22	8:05:00	04-Mar-2208:05	70.3	27.8	4.2	78.0	75.0	74.2	69.0	72.0	62.9	35.0	60.0	63.2
4-Mar-22	8:10:00	04-Mar-2208:10	70.3	27.8	4.2	78.0	75.0	75.0	69.0	72.0	63.0	35.0	60.7	63.0
4-Mar-22	8:15:00	04-Mar-2208:15	70.3	27.8	4.2	78.0	75.0	75.0	69.0	72.0	63.0	35.0	61.0	63.0
4-Mar-22	8:20:00	04-Mar-2208:20	70.3	27.8	4.2	78.0	75.0	75.0	69.0	72.0	63.0	35.0	61.0	63.0
4-Mar-22	8:25:00	04-Mar-2208:25	70.3	27.8	4.2	78.0	75.0	75.0	69.0	72.0	63.0	35.0	60.8	63.0
4-Mar-22	8:30:00	04-Mar-2208:30	70.3	27.8	4.2	78.0	75.0	75.0	69.0	72.0	63.0	35.0	60.0	63.0
4-Mar-22	8:35:00	04-Mar-2208:35	70.3	27.8	4.2	78.0	75.0	75.0	69.0	72.0	63.0	35.0	60.0	63.0
4-Mar-22	8:40:00	04-Mar-2208:40	70.3	27.8	4.2	78.0	75.0	75.0	69.0	72.0	63.0	35.0	60.0	63.0
4-Mar-22	8:45:00	04-Mar-2208:45	69.4	27.8	4.2	78.0	75.0	75.0	69.0	72.0	62.7	35.0	60.0	63.0
4-Mar-22	8:50:00	04-Mar-2208:50	69.9	27.8	4.2	78.0	75.0	74.4	69.0	72.0	62.0	35.0	60.0	63.0
4-Mar-22	8:55:00	04-Mar-2208:55	70.2	27.8	4.2	78.0	75.0	74.0	69.0	72.0	62.6	35.0	60.0	63.0
4-Mar-22	9:00:00	04-Mar-2209:00	70.2	28.7	4.2	78.0	75.0	75.7	69.0	72.0	63.0	35.0	60.0	63.0
4-Mar-22	9:05:00	04-Mar-2209:05	70.2	28.8	4.2	78.0	75.0	75.9	69.0	72.0	63.0	35.0	60.0	63.0
4-Mar-22	9:10:00	04-Mar-2209:10	70.2	28.8	4.2	78.0	75.0	75.0	69.0	72.0	63.0	35.0	60.0	63.0
4-Mar-22	9:15:00	04-Mar-2209:15	68.3	28.8	4.2	78.0	75.0	75.3	69.1	72.6	63.0	35.0	60.0	63.0
4-Mar-22	9:20:00	04-Mar-2209:20	68.2	28.8	4.2	78.0	75.0	76.0	70.0	73.0	63.0	35.0	60.8	63.0
4-Mar-22	9:25:00	04-Mar-2209:25	69.3	28.8	4.2	78.0	75.0	75.4	70.0	73.0	63.0	35.0	61.0	63.0
4-Mar-22	9:30:00	04-Mar-2209:30	70.2	28.8	4.2	78.0	75.0	75.0	70.0	73.0	63.0	35.0	61.0	63.0
4-Mar-22	9:35:00	04-Mar-2209:35	70.2	28.8	4.2	78.0	75.0	75.0	70.0	73.0	63.0	35.0	61.0	63.0
4-Mar-22	9:40:00	04-Mar-2209:40	70.2	28.8	4.2	78.0	75.0	75.0	70.0	73.0	63.0	35.0	61.0	63.0
4-Mar-22	9:45:00	04-Mar-2209:45	70.2	28.8	4.2	78.0	75.0	75.0	69.0	73.0	63.0	35.0	60.4	63.0
4-Mar-22	9:50:00	04-Mar-2209:50	70.2	28.8	4.2	78.0	75.0	75.4	69.0	72.3	63.0	35.0	60.0	63.0
4-Mar-22	9:55:00	04-Mar-2209:55	70.2	28.8	4.2	78.0	75.0	76.0	69.0	72.0	63.0	35.0	60.9	63.0
4-Mar-22	10:00:00	04-Mar-2210:00	70.2	28.8	4.2	78.0	75.0	75.3	69.0	72.0	63.0	35.0	61.0	63.0
4-Mar-22	10:05:00	04-Mar-2210:05	70.2	28.8	4.2	78.0	75.0	75.0	69.0	72.0	63.0	35.0	61.0	63.0
4-Mar-22	10:10:00	04-Mar-2210:10	70.2	28.8	4.2	78.0	75.0	75.0	69.0	72.0	63.0	35.0	61.0	63.0
4-Mar-22	10:15:00	04-Mar-2210:15	70.2	28.8	4.2	78.0	75.0	75.0	69.0	72.0	63.0	35.0	61.0	63.0
4-Mar-22	10:20:00	04-Mar-2210:20	70.2	28.8	4.2	78.0	75.0	75.0	69.0	72.0	63.0	35.0	61.0	63.0
4-Mar-22	10:25:00	04-Mar-2210:25	70.2	28.8	4.2	78.0	75.0	75.3	69.0	72.7	64.0	35.0	61.0	63.0
4-Mar-22	10:30:00	04-Mar-2210:30	70.2	28.8	4.2	78.0	75.0	76.0	69.0	73.0	63.7	35.0	61.0	63.0

4-Mar-22	10:35:00	04-Mar-2210:35	70.2	28.8	4.2	78.0	75.0	76.0	69.0	72.0	63.0	35.0	61.0	63.0
4-Mar-22	10:40:00	04-Mar-2210:40	70.2	28.8	4.2	78.0	75.0	76.0	69.0	72.2	63.0	35.0	61.0	63.0
4-Mar-22	10:45:00	04-Mar-2210:45	70.2	28.8	4.2	78.0	75.0	76.0	69.7	73.0	63.0	35.0	61.0	63.0
4-Mar-22	10:50:00	04-Mar-2210:50	70.2	28.8	4.2	78.2	75.1	75.8	70.0	73.0	63.9	35.0	61.0	63.8
4-Mar-22	10:55:00	04-Mar-2210:55	70.2	28.8	4.2	79.0	76.0	75.0	70.0	73.0	64.0	35.0	61.0	63.9
4-Mar-22	11:00:00	04-Mar-2211:00	70.2	28.8	4.2	78.5	75.6	75.0	69.6	73.0	64.0	35.0	61.0	63.0
4-Mar-22	11:05:00	04-Mar-2211:05	70.2	28.8	4.2	78.0	75.0	75.0	69.0	73.0	64.0	35.0	61.0	63.0
4-Mar-22	11:10:00	04-Mar-2211:10	70.2	28.8	4.2	78.8	75.0	75.8	69.6	73.0	64.0	35.0	61.0	63.0
4-Mar-22	11:15:00	04-Mar-2211:15	70.2	28.8	4.2	79.0	75.1	76.0	70.0	73.0	64.0	35.0	61.0	63.0
4-Mar-22	11:20:00	04-Mar-2211:20	70.2	28.8	4.2	79.0	76.0	76.0	70.0	73.0	64.0	35.0	61.0	63.0
4-Mar-22	11:25:00	04-Mar-2211:25	70.2	28.8	4.2	79.0	76.0	75.5	70.0	73.0	64.0	35.0	61.0	64.0
4-Mar-22	11:30:00	04-Mar-2211:30	70.2	28.8	4.2	79.0	76.0	75.0	70.0	73.0	64.0	35.0	61.0	64.0
4-Mar-22	11:35:00	04-Mar-2211:35	70.2	28.8	4.2	79.0	75.4	75.7	70.0	73.0	64.0	35.0	61.0	64.0
4-Mar-22	11:40:00	04-Mar-2211:40	70.2	28.8	4.2	79.0	75.0	76.0	70.0	73.0	64.0	35.0	61.0	64.0
4-Mar-22	11:45:00	04-Mar-2211:45	70.2	28.8	4.2	79.0	75.0	75.1	70.0	73.0	64.0	35.0	61.0	64.0
4-Mar-22	11:50:00	04-Mar-2211:50	70.2	28.8	4.2	79.0	75.0	75.0	70.0	73.0	64.0	35.0	61.0	64.0

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:		Building 1330H,YOUTH CENTER, 234 Melick Ave		1006 Ohana Nui Circle		71 Aupaka Street		Building 1586H,CHILD DEVELOPMENT CENTER-HICKAM MAIN CDC		Building 520, Chester Nimitz Elementary		Building 520, Chester Nimitz Elementary		945 Ohana Nui Circle	
Field Sample ID:		220120-D3-CT05		220120-D3-DT02		220121-D3-AT01		220121-D3-AT02		220121-D3-AT04		220121-D3-AT05		220121-D3-BT01	
Sample Date:		2022-01-20		2022-01-21		2022-01-21		2022-01-21		2022-01-21		2022-01-21		2022-01-21	
Sample Type:		N		N		N		N		N		N		N	
		DOH Environmental Action Levels Table D-1A		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels									
Incident Specific Parameters		Groundwater Action Levels		None		None		None		None		None		None	
GENCHEM (mg/L)		2		0.200 UJ		1.78 J		0.200 UJ		1.91 J		0.200 UJ		0.200 UJ	
Total Organic Carbon				2.58 J											
		DOH Environmental Action Levels Table D-1A		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels									
Incident Specific Parameters		Groundwater Action Levels		400		None		None		None		None		None	
HC (µg/L)		200		5801095561		SDG: 5801095561		SDG: 5801095561		SDG: 5801095601		SDG: 5801095601		SDG: 5801095601	
Petroleum Hydrocarbons (as Diesel)		200		95.0 J		94.0 U		96.0 U		92.0 U		92.0 U		95.0 U	
Petroleum Hydrocarbons (as Gasoline)		200		100 UJ		100 UJ		100 U		100 UJ		100 UJ		31.0 U	
Petroleum Hydrocarbons (as Motor Oil)		200		180 U		190 U		190 U		180 U		180 U		190 U	
Total Petroleum Hydrocarbons		211		95		--		--		--		--		--	
		DOH Environmental Action Levels Table D-1A		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels									
Incident Specific Parameters		Groundwater Action Levels		0.025		2		0.0560 U		0.0560 U		0.0560 U		0.0560 U	
HG (µg/L)		0.025		0.0560 U		810127881		SDG: 810127881		SDG: 810127911		SDG: 810127911		SDG: 810127911	
Mercury															
		DOH Environmental Action Levels Table D-1A		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels									
Incident Specific Parameters		Groundwater Action Levels		6		6		0.0570 U		0.0570 U		0.0570 U		0.0570 U	
METAL (µg/L)		6		810127881		SDG: 810127881		SDG: 810127911		SDG: 810127911		SDG: 810127911		SDG: 810127911	
Antimony		10		10		10		0.890 U		0.890 U		0.890 U		0.890 U	
Arsenic		220		220		2000		4.00		1.90 J		2.10		1.90 J	
Barium		0.66		0.66		4		0.0830 U		0.0830 U		0.0830 U		0.0830 U	
Beryllium		3		3		5		0.140 U		0.140 U		0.140 U		0.140 U	
Cadmium		11		11		100		1.80		1.50		1.40		1.40	
Chromium		2.9		2.9		1300		77.0		4.70		37.0		180	
Copper		15		15		15		0.230 J		0.140 J		0.110 J		0.330 J	
Lead		0.025		0.025		2		--		--		--		--	
Mercury		5		5		50		1.60 U		1.60 U		1.60 U		1.60 U	
Selenium		2		2		2		0.160 U		0.160 U		0.160 U		0.160 U	
Thallium															

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:		945 Ohana Nui Circle	163 Kokomalei Street	Building 520, Chester Nimitz Elementary	881 Nanu Street	Building 1654H,CHILD DEVELOPMENT CENTER-HICKAM WEST CDC	142 Honohono Street	941 Ohana Nui Circle	915 Ohana Nui Circle
Field Sample ID:		220121-D3-BT02	220121-D3-BT03	220121-D3-BT04	220121-D3-BT05	220121-D3-BT06	220121-D3-CT01	220121-D3-CT02	220121-D3-CT03
Sample Date:		2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21
Sample Type:		FD	N	N	N	N	N	N	N
GENCHEM (mg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater Action Levels	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels					
	2	None	None	None	SDG: C22A045	SDG: C22A045	SDG: C22A045	SDG: C22A045	SDG: C22A045
Total Organic Carbon			0.200 UJ	0.200 UJ	0.200 UJ	0.200 UJ	0.200 UJ	0.200 UJ	0.200 UJ
HC (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater Action Levels	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels					
	200	400	None	None	SDG: 5801095601	SDG: 5801095601	SDG: 5801095541	SDG: 5801095541	SDG: 5801095541
Petroleum Hydrocarbons (as Diesel)			93.0 U	91.0 U	100 U	92.0 U	93.0 U	92.0 U	97.0 U
Petroleum Hydrocarbons (as Gasoline)			300	31.0 U	31.0 U	31.0 U	31.0 U	31.0 U	31.0 U
Petroleum Hydrocarbons (as Motor Oil)			500	None	200 U	180 U	190 U	180 U	190 U
Total Petroleum Hydrocarbons		211	--	--	--	--	--	--	--
HG (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater Action Levels	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels					
	0.025	0.025	2	2	SDG: 810127911	SDG: 810127911	SDG: 810127911	SDG: DA41138	SDG: DA41138
Mercury			0.0560 U	0.0560 U	0.0560 U	0.0560 U	0.0250 U	0.0250 U	0.0250 U
METAL (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater Action Levels	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels					
	6	6	6	6	SDG: 810127911	SDG: 810127911	SDG: 810127911	SDG: DA41138	SDG: DA41138
Antimony			0.0570 U	0.0570 U	0.0570 U	0.0570 U	0.100 U	0.100 U	0.100 U
Arsenic			0.890 U	0.890 U	0.890 U	0.890 U	0.500 U	0.500 U	0.500 U
Barium			220	2000	2.40	1.90 J	2.00	2.00	2.00
Beryllium			0.66	0.0830 U	0.0830 U	0.0830 U	0.150 U	0.150 U	0.150 U
Cadmium			3	0.140 U	0.140 U	0.140 U	0.0500 U	0.0500 U	0.0500 U
Chromium			11	100	1.40	1.50	1.30 J	1.40 J	1.50 J
Copper			2.9	1300	200	6.50	4.40	8.50	6.20
Lead			15	15	0.570	0.170 J	0.160 J	0.520	0.160 J
Mercury			0.025	2	--	--	--	--	--
Selenium			5	50	1.60 U	1.60 U	0.300 U	0.300 U	0.300 U
Thallium			2	2	0.160 U	0.160 U	0.0930 J	0.110 J	0.0500 U

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:		141 Liliwai Street	153 Ohana Nui Circle	225 Puapilo Court	947 Nanu Street	Building 1586H,CHILD DEVELOPMENT CENTER-HICKAM MAIN CDC	Building 520, Chester Nimitz Elementary	Building 520, Chester Nimitz Elementary	BLDG 1864H - Veterinary Clinic, 1864 Kuntz Ave
Field Sample ID:		220121-D3-CT04	220121-D3-CT05	220121-D3-DT01	220121-D3-DT02	220121-D3-DT03	220121-D3-DT04	220121-D3-DT05	220121-D3-ET01
Sample Date:		2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21
Sample Type:		N	N	N	N	N	N	N	N
		Environmental Protection Agency Maximum Contaminant Levels							
GENCHEM (mg/L)		Incident Specific Parameters	DOH Environmental Action Levels	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	SDG: C22A045	SDG: C22A045	SDG: C22A045	SDG: C22A045
Total Organic Carbon		2	None	None	None	0.200 UJ	0.200 UJ	0.200 UJ	0.200 UJ
		Environmental Protection Agency Maximum Contaminant Levels							
HC (µg/L)		Incident Specific Parameters	DOH Environmental Action Levels	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	SDG: 5801095601	SDG: 5801095601	SDG: 5801095601	SDG: 5801095601
Petroleum Hydrocarbons (as Diesel)		200	400	None	None	92.0 U	92.0 U	92.0 U	94.0 U
Petroleum Hydrocarbons (as Gasoline)		200	300	None	None	100 UJ	100 UJ	100 UJ	31.0 U
Petroleum Hydrocarbons (as Motor Oil)		200	500	None	None	180 U	180 U	180 U	190 U
Total Petroleum Hydrocarbons		211	--	--	--	--	--	--	--
		Environmental Protection Agency Maximum Contaminant Levels							
HG (µg/L)		Incident Specific Parameters	DOH Environmental Action Levels	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	SDG: DA41140	SDG: 810127911	SDG: 810127911	SDG: DA41138
Mercury		0.025	0.025	2	2	0.0250 U	0.0560 U	0.0560 U	0.0250 U
		Environmental Protection Agency Maximum Contaminant Levels							
METAL (µg/L)		Incident Specific Parameters	DOH Environmental Action Levels	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	SDG: DA41140	SDG: 810127911	SDG: 810127911	SDG: DA41138
Antimony		6	6	6	6	0.100 U	0.0570 U	0.0570 U	0.100 U
Arsenic		10	10	10	10	0.500 U	0.890 U	0.890 U	0.500 U
Barium		220	220	2000	2000	1.90 J	2.00	2.90	2.10
Beryllium		0.66	0.66	4	4	0.150 U	0.0830 U	0.0830 U	0.150 U
Cadmium		3	3	5	5	0.0500 U	0.140 U	0.140 U	0.0500 U
Chromium		11	11	100	100	0.500 U	1.40	1.60	1.80 J
Copper		2.9	2.9	1300	1300	36.0	42.0	68.0	180
Lead		15	5.6	15	15	0.130 U	0.0880 U	0.310 J	0.180 J
Mercury		0.025	0.025	2	2	--	--	--	--
Selenium		5	5	50	50	0.300 U	1.60 U	1.60 U	0.300 U
Thallium		2	2	2	2	0.0500 U	0.160 U	0.160 U	0.110 J

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:		BLDG 1852H - Dorm Airman Perm Party, 326 Moffet St		161 Kokomalei Street	211 Melia Street	1034 Makalika Loop	304 Ohana Nui Circle	302 Ohana Nui Circle	162 Liliwai Street	307 Melia Street
Field Sample ID:		220121-D3-ET02	220121-D3-ET03	220121-D3-ET04	220121-D3-ET05	220121-D3-FT01	220121-D3-FT02	220121-D3-FT03	220121-D3-FT04	
Sample Date:		2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	
Sample Type:		N	N	N	N	N	N	N	N	N
GENCHEM (mg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels	SDG: C22A045	SDG: C22A045	SDG: C22A045	SDG: C22A045	SDG: C22A045	SDG: C22A045
	2	None	None	None	0.200 UJ	0.200 UJ	0.200 UJ	0.200 UJ	0.200 UJ	0.200 UJ
Total Organic Carbon										
HC (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels	SDG: 5801095541	SDG: 5801095541	SDG: 5801095541	SDG: 5801095541	SDG: 5801095541	SDG: 5801095541
	200	400	None	None	91.0 U	92.0 U	110 U	92.0 U	91.0 U	92.0 U
Petroleum Hydrocarbons (as Diesel)										
Petroleum Hydrocarbons (as Gasoline)										
Petroleum Hydrocarbons (as Motor Oil)										
Total Petroleum Hydrocarbons		211	--	--	--	--	--	--	--	--
HG (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels	SDG: DA41138	SDG: DA41138	SDG: DA41138	SDG: DA41138	SDG: DA41138	SDG: DA41140
	0.025	0.025	2	2	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U
Mercury										
METAL (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels	SDG: DA41138	SDG: DA41138	SDG: DA41138	SDG: DA41138	SDG: DA41138	SDG: DA41140
	6	6	6	6	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Chromium										
Copper		2.9	2.9	1300	1.70 J	63.0	8.80	1.60 J	1.60 J	1.40 J
Lead		15	5.6	15	0.130 U	0.760	0.130 U	0.140 J	0.320 J	0.280 J
Mercury		0.025	0.025	2	--	--	--	--	--	--
Selenium		5	5	50	0.300 U	0.300 U	0.300 U	0.300 U	0.300 U	0.300 U
Thallium		2	2	2	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0740 J

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:		242 Melia Street	271 Wela Loop	271 Wela Loop	202 Puapilo Court	118 Puuloa Circle	1002 Halehaka Street	152 Liliwai Street	152 Liliwai Street
Field Sample ID:		220121-D3-FT05	220121-D3-GT01	220121-D3-GT02	220121-D3-GT03	220121-D3-GT04	220121-D3-GT05	220121-D3-HT01	220121-D3-HT02
Sample Date:		2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21
Sample Type:		N	N	FD	N	N	N	N	FD
GENCHEM (mg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents
	2	None	None	None	None	None	None	None	None
Total Organic Carbon		0.200 UJ	2.10 J	2.44 J	0.200 UJ	0.200 UJ	0.200 UJ	0.200 UJ	0.200 UJ
HC (µg/L)	DOH Environmental Action Levels Table D-1A Groundwater	DOH Environmental Protection Agency Maximum Contaminant Levels	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents
	Incident Specific Parameters	200	400	None	None	None	None	None	None
	200	93.0 U	93.0 U	5801095541	5801095541	5801095541	5801095541	5801095561	5801095561
	Petroleum Hydrocarbons (as Diesel)	200	400	93.0 U	93.0 U	93.0 U	110 U	91.0 U	93.0 U
Petroleum Hydrocarbons (as Gasoline)		200	300	31.0 U	31.0 U	31.0 U	31.0 U	100 UJ	100 UJ
Petroleum Hydrocarbons (as Motor Oil)		200	500	190 U	190 U	190 U	190 U	180 U	190 U
Total Petroleum Hydrocarbons		211	--	--	--	--	--	--	--
HG (µg/L)	DOH Environmental Action Levels Table D-1A Groundwater	DOH Environmental Protection Agency Maximum Contaminant Levels	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents
	Incident Specific Parameters	0.025	0.025	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Mercury		0.025	0.025	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
METAL (µg/L)	DOH Environmental Action Levels Table D-1A Groundwater	DOH Environmental Protection Agency Maximum Contaminant Levels	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents
	Incident Specific Parameters	6	6	6	6	6	6	6	6
Antimony		6	6	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Arsenic		10	10	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Barium		220	220	1.90 J	2.00	2.10	2.00	2.00	2.00
Beryllium		0.66	0.66	0.150 U	0.150 U	0.150 U	0.150 U	0.150 U	0.150 U
Cadmium		3	3	0.0600 J	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U
Chromium		11	11	0.650 J	1.30 J	1.60 J	1.50 J	1.40 J	1.40 J
Copper		2.9	2.9	7.40	6.60	5.70	72.0	15.0	16.0
Lead		15	5.6	0.130 U	0.130 U	0.130 U	0.130 U	0.180 J	0.170 J
Mercury		0.025	0.025	--	--	--	--	--	--
Selenium		5	5	0.300 U	0.300 U	0.300 U	0.300 U	0.300 U	0.300 U
Thallium		2	2	0.0940 J	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:		161 Pilokea Court	1024 Makalika Loop	304 Lehua Lane	281 Wela Loop	251 Lilia Street	1068 Ohana Nui Circle	205 Puapilo Court	
Field Sample ID:		220121-D3-HT03	220121-D3-HT04	220121-D3-HT05	220121-D3-IT01	220121-D3-IT02	220121-D3-IT03	220121-D3-IT04	220121-D3-IT05
Sample Date:		2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21
Sample Type:		N	N	N	N	FD	N	N	N
GENCHEM (mg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels	SDG: C22A045	SDG: C22A045	SDG: C22A045	SDG: C22A045	SDG: C22A045
	2	None	None	None	0.200 UJ	0.200 UJ	0.200 UJ	0.200 UJ	0.200 UJ
Total Organic Carbon									
HC (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels	SDG: 5801095561	SDG: 5801095561	SDG: 5801095561	SDG: 5801095561	SDG: 5801095561
	200	400	None	None	94.0 U	93.0 U	92.0 U	92.0 U	94.0 U
Petroleum Hydrocarbons (as Diesel)									
Petroleum Hydrocarbons (as Gasoline)									
Petroleum Hydrocarbons (as Motor Oil)									
Total Petroleum Hydrocarbons									
HG (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels	SDG: DA41138	SDG: DA41138	SDG: DA41138	SDG: DA41138	SDG: DA41138
	0.025	0.025	2	2	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U
Mercury									
METAL (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels	SDG: DA41138	SDG: DA41138	SDG: DA41138	SDG: DA41138	SDG: DA41138
	6	6	6	6	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Chromium									
Copper									
Lead									
Mercury									
Selenium									
Thallium									

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:		121 Kopiko Street	121 Kopiko Street	102 Ilima Street	101 Ohana Nui Circle	212 Melia Street	907 Ohana Nui Circle	1025 Ohana Nui Circle	134 Honohono Street
Field Sample ID:		220121-D3-JT01	220121-D3-JT02	220121-D3-JT03	220121-D3-JT04	220121-D3-JT05	220121-D3-KT01	220121-D3-KT02	220121-D3-KT03
Sample Date:		2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21
Sample Type:		N	FD	N	N	N	N	N	N
GENCHEM (mg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater Action Levels	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels					
	2	None	None	None	SDG: DA41138	SDG: DA41138	SDG: DA41138	SDG: C22A045	SDG: C22A045
Total Organic Carbon			0.200 U	0.200 U	0.200 U	0.200 U	0.200 UJ	0.200 UJ	0.200 UJ
HC (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater Action Levels	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels					
	200	400	None	None	SDG: DA41138	SDG: DA41138	SDG: DA41138	SDG: 5801095601	SDG: 5801095601
Petroleum Hydrocarbons (as Diesel)			190 U	190 UJ	190 U	190 UJ	94.0 J	92.0 U	92.0 U
Petroleum Hydrocarbons (as Gasoline)			40.0 U	40.0 U	40.0 U	40.0 U	31.0 U	100 UJ	100 UJ
Petroleum Hydrocarbons (as Motor Oil)			190 U	190 U	190 U	190 U	190 U	180 U	180 U
Total Petroleum Hydrocarbons		211	--	--	--	--	94	--	--
HG (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater Action Levels	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels					
	0.025	0.025	2	2	SDG: DA41138	SDG: DA41138	SDG: DA41138	SDG: 810127911	SDG: 810127911
Mercury			--	--	--	--	0.0560 U	0.0560 U	0.0560 U
METAL (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater Action Levels	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels					
	6	6	6	6	SDG: 982327	SDG: 982327	SDG: 810127911	SDG: 810127911	SDG: 810127911
Antimony			0.110 U	0.110 U	0.110 U	0.110 U	0.0570 U	0.0570 U	0.0570 U
Arsenic		10	10	10	0.380 J	0.410 J	0.360 J	0.890 U	0.890 U
Barium		220	200	2000	2.00	1.80 J	2.00	1.90 J	1.90 J
Beryllium		0.66	0.66	4	0.0910 U	0.0910 U	0.0910 U	0.0830 U	0.0830 U
Cadmium		3	3	5	0.0290 U	0.0290 U	0.0290 U	0.140 U	0.140 U
Chromium		11	11	100	1.60	1.60	1.70	1.50	1.40
Copper		2.9	2.9	1300	59.0	52.0	8.30	7.80	5.00
Lead		15	5.6	15	0.150 J	0.210 J	0.140 J	0.250 J	0.130 J
Mercury		0.025	0.025	2	0.0200 U	0.0200 U	0.0200 U	--	--
Selenium		5	5	50	1.70 J	1.60 J	2.00 J	1.60 U	1.60 U
Thallium		2	2	2	0.0410 U	0.0410 U	0.0410 U	0.160 U	0.160 U

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:		223 Melia Street	Building 1654H,CHILD DEVELOPMENT CENTER-HICKAM WEST CDC	161 Ohana Nui Circle	331 Ohana Nui Circle	202 Ohana Nui Circle	971 Ohana Nui Circle	Building 1335H,SCHOOL AGE CENTER - CDC
Field Sample ID:		220121-D3-KT04	220121-D3-KT05	220121-D3-LT01	220121-D3-LT02	220121-D3-LT03	220121-D3-LT04	220122-D3-AT01
Sample Date:		2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-22
Sample Type:		N	N	N	FD	N	N	N
GENCHEM (mg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels				
	2	None	None	None				
Total Organic Carbon			1.86 J	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
HC (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels				
	200	400	None	None				
Petroleum Hydrocarbons (as Diesel)			92.0 U	190 UJ	190 UJ	190 UJ	190 UJ	92.0 U
Petroleum Hydrocarbons (as Gasoline)			100 U	40.0 U	40.0 U	40.0 U	40.0 U	31.0 UJ
Petroleum Hydrocarbons (as Motor Oil)			180 U	190 U	190 U	190 U	190 U	180 U
Total Petroleum Hydrocarbons		211	--	--	--	--	--	--
HG (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels				
	0.025	0.025	2	2				
Mercury			0.0560 U	--	--	--	--	0.0560 U
METAL (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels				
	6	6	6	6				
Antimony			0.0570 U	0.110 U	0.110 U	0.110 U	0.110 U	0.150 J
Arsenic			0.890 U	0.360 J	0.400 J	0.290 J	0.300 J	0.890 U
Barium			1.80 J	1.90 J	2.00	1.90 J	2.00	3.20
Beryllium			0.0830 U	0.0910 U	0.0910 U	0.0910 U	0.0910 U	0.0830 U
Cadmium			0.140 U	0.0290 U	0.0290 U	0.0290 U	0.0290 U	0.140 U
Chromium			1.40	1.50	1.50	1.60	1.60	1.70
Copper			8.30	40.0	9.50	4.10	4.70	150
Lead			0.180 J	0.180 J	0.310 J	0.0670 J	0.0640 J	1.20
Mercury			--	0.0200 U	0.0200 U	0.0200 U	0.0200 U	--
Selenium			1.60 U	1.60 J	1.60 J	1.70 J	1.70 J	1.60 U
Thallium			0.160 U	0.0410 U	0.0410 U	0.0410 U	0.0410 U	0.160 U

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:		775 Ohana Nui Circle		Building 1, Assets School		348 Melia Street		851 Ohana Nui Circle		708 Kikanai Loop		826 Ohana Nui Circle					
Field Sample ID:		220122-D3-AT02		220122-D3-AT03		220122-D3-AT04		220122-D3-AT05		220122-D3-BT01		220122-D3-BT02		220122-D3-BT03		220122-D3-BT04	
Sample Date:		2022-01-22		2022-01-22		2022-01-22		2022-01-22		2022-01-22		2022-01-22		2022-01-22		2022-01-22	
Sample Type:		N		N		N		N		N		FD		N		N	
GENCHEM (mg/L)		Incident Specific Parameters		DOH Environmental Action Levels Table D-1A Groundwater		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels		SDG: C22A046		SDG: C22A046		SDG: C22A046		SDG: C22A046	
Total Organic Carbon		2		None		None		None		0.200 U		0.200 U		0.200 U		0.200 U	
HC (µg/L)		200		400		None		None		SDG: 5801095611		SDG: 5801095611		SDG: 5801095611		SDG: 5801095611	
Petroleum Hydrocarbons (as Diesel)										93.0 U		94.0 U		93.0 U		92.0 U	
Petroleum Hydrocarbons (as Gasoline)		200		300		None		None		31.0 UJ		31.0 UJ		31.0 U		31.0 U	
Petroleum Hydrocarbons (as Motor Oil)		200		500		None		None		190 U		190 U		180 U		190 U	
Total Petroleum Hydrocarbons		211								--		--		--		--	
HG (µg/L)		Incident Specific Parameters		DOH Environmental Action Levels Table D-1A Groundwater		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels		SDG: 810127901		SDG: 810127901		SDG: 810127901		SDG: 810127901	
Mercury		0.025		0.025		2		2		0.0560 U		0.0560 U		0.0250 U		0.0250 U	
METAL (µg/L)		Incident Specific Parameters		DOH Environmental Action Levels Table D-1A Groundwater		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels		SDG: 810127901		SDG: 810127901		SDG: 810127901		SDG: 810127901	
Antimony		6		6		6		6		0.0570 U		0.0570 U		0.100 U		0.100 U	
Arsenic		10		10		10		10		0.890 U		0.890 U		0.500 U		0.500 U	
Barium		220		220		2000		2000		2.10		2.40		1.90 J		2.20	
Beryllium		0.66		0.66		4		4		0.0830 U		0.0830 U		0.150 U		0.150 U	
Cadmium		3		3		5		5		0.140 U		0.140 U		0.0500 U		0.0500 U	
Chromium		11		11		100		100		1.80		1.70		1.70		0.500 U	
Copper		2.9		2.9		1300		1300		9.20		100		8.70		5.40	
Lead		15		5.6		15		15		0.200 J		0.350 J		0.270 J		0.130 U	
Mercury		0.025		0.025		2		2		--		--		--		--	
Selenium		5		5		50		50		1.60 U		1.60 U		0.300 U		0.300 U	
Thallium		2		2		2		2		0.160 U		0.160 U		0.0500 U		0.0500 U	

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:		794 Ohana Nui Circle	944 Ohana Nui Circle	783 Ohana Nui Circle	1034 Nehe Street	561 Ohana Nui Circle	561 Ohana Nui Circle	531 Ohana Nui Circle	712 Kikanai Loop
Field Sample ID:		220122-D3-BT05	220122-D3-BT06	220122-D3-CT01	220122-D3-CT02	220122-D3-CT03	220122-D3-CT04	220122-D3-CT05	220122-D3-CT06
Sample Date:		2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22
Sample Type:		N	N	N	N	N	FD	N	N
GENCHEM (mg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels					
	2	None	None	None	0.200 U	2.35	0.200 U	0.200 U	0.200 U
Total Organic Carbon									
HC (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels					
	200	400	None	None	94.0 U	5801095571	92.0 U	5801095571	92.0 U
Petroleum Hydrocarbons (as Diesel)									
Petroleum Hydrocarbons (as Gasoline)									
Petroleum Hydrocarbons (as Motor Oil)									
Total Petroleum Hydrocarbons		211	--	--	--	--	--	--	--
HG (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels					
	0.025	0.025	2	2	0.0250 U	DA41140	0.0250 U	DA41140	0.0250 U
Mercury									
METAL (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels					
	6	6	6	6	0.100 U	DA41140	0.100 U	DA41140	0.100 U
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Chromium									
Copper									
Lead									
Mercury									
Selenium									
Thallium									

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:		871 Ohana Nui Circle	871 Ohana Nui Circle	411 Ohana Nui Circle	1026 Makalika Loop	84 Kokio Lane	1002 Puakala Street	Building 1335H,SCHOOL AGE CENTER - CDC	754 Ohana Nui Circle
Field Sample ID:		220122-D3-DT01	220122-D3-DT02	220122-D3-DT03	220122-D3-DT04	220122-D3-DT05	220122-D3-DT06	220122-D3-ET01	220122-D3-ET02
Sample Date:		2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22
Sample Type:		N	FD	N	N	N	N	N	N
GENCHEM (mg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater Action Levels	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents
	2	None	None	None	None	None	None	None	None
Total Organic Carbon		2	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
HC (µg/L)		DOH Environmental Action Levels Table D-1A Groundwater Action Levels	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents
Petroleum Hydrocarbons (as Diesel)	200	400	None	None	None	None	None	None	None
	200	300	None	None	None	None	None	None	None
	200	500	None	None	None	None	None	None	None
	211	211	--	--	--	--	--	--	--
HG (µg/L)		DOH Environmental Action Levels Table D-1A Groundwater Action Levels	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents
Mercury	0.025	0.025	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
	0.025	0.025	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
	0.025	0.025	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
	0.025	0.025	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
METAL (µg/L)		DOH Environmental Action Levels Table D-1A Groundwater Action Levels	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents
Antimony	6	6	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.0570 U	0.0570 U
	10	10	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.890 U	0.890 U
	220	220	1.90 J	1.90 J	1.90 J	1.90 J	1.90 J	3.20	2.20
	0.66	0.66	0.150 U	0.150 U	0.150 U	0.150 U	0.150 U	0.0830 U	0.0830 U
Cadmium	3	3	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.140 U	0.140 U
	11	11	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	1.80	1.80
	2.9	2.9	1300	1300	1300	1300	1300	82.0	6.10
	15	15	0.170 J	0.170 J	0.130 J	0.130 J	0.130 U	0.250 J	0.250 J
Mercury	0.025	0.025	--	--	--	--	--	--	--
	5	5	0.300 U	0.300 U	0.300 U	0.300 U	0.300 U	1.60 U	1.60 U
	2	2	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.160 U	0.160 J
	2	2	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.160 U	0.160 J

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:		Building 1, Assets School		254 Wela Loop		106 Puuloa Circle		1007 Puakala Street		278 Puakauhi Court		238 Ohana Nui Circle		141 Ohana Nui Circle			
Field Sample ID:		220122-D3-ET03		220122-D3-ET04		220122-D3-ET05		220122-D3-ET06		220122-D3-FT01		220122-D3-FT02		220122-D3-FT03		220122-D3-FT04	
Sample Date:		2022-01-22		2022-01-22		2022-01-22		2022-01-22		2022-01-22		2022-01-22		2022-01-22		2022-01-22	
Sample Type:		N		N		N		N		N		N		N		N	
GENCHEM (mg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels		SDG: C22A046		SDG: C22A046		SDG: DA41161		SDG: C22A046		SDG: C22A046	
	2	None		None		None		0.200 U		0.200 U		0.200 U		0.200 U		0.200 U	
	Total Organic Carbon																
HC (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels		SDG: 5801095571		SDG: 5801095571		SDG: DA41161		SDG: 5801095591		SDG: 5801095591	
	200	400		None		None		93.0 U		92.0 U		190 U		93.0 U		94.0 U	
	Petroleum Hydrocarbons (as Diesel)																
Petroleum Hydrocarbons (as Gasoline)	200		300		None		100 UJ		100 UJ		40.0 U		31.0 U		31.0 U		
Petroleum Hydrocarbons (as Motor Oil)	200		500		None		190 U		180 U		190 UJ		180 U		190 U		
Total Petroleum Hydrocarbons		211		--		--		--		--		--		--		--	
HG (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels		SDG: 810127901		SDG: 810127901		SDG: 810127901		SDG: 810127901		SDG: 810127901	
	0.025	0.025		2		2		0.0560 U		0.0560 U		0.0560 U		0.0560 U		0.0560 U	
	Mercury																
METAL (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels		SDG: 810127901		SDG: 810127901		SDG: 810127901		SDG: 810127901		SDG: 810127901	
	6	6		6		6		0.0570 U		0.0570 U		0.0570 U		0.0570 U		0.0570 U	
	Antimony																
	Arsenic	10		10		10		0.890 U		0.890 U		0.890 U		0.890 U		0.890 U	
	Barium	220		220		2000		2.40		1.90 J		2.20		1.90 J		1.90 J	
	Beryllium	0.66		0.66		4		0.0830 U		0.0830 U		0.0830 U		0.0830 U		0.0830 U	
	Cadmium	3		3		5		0.140 U		0.140 U		0.140 U		0.140 U		0.140 U	
	Chromium	11		11		100		1.70		1.60		1.70		1.70		1.70	
	Copper	2.9		2.9		1300		130		11.0		33.0		45.0		9.40	
	Lead	15		5.6		15		0.350 J		0.210 J		0.140 J		0.260 J		0.110 J	
	Mercury	0.025		0.025		2		--		--		--		--		--	
	Selenium	5		5		50		1.60 U		1.60 U		1.60 U		1.60 U		1.60 U	
Thallium	2		2		2		0.160 U		0.160 U		0.170 J		0.160 U		0.160 U		

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:		111 Kokomalei Street	432 Ohana Nui Circle	177 Kokomalei Street	121 Ilima Street	117 Aupaka Street	209 Puapilo Court	1012 Nehe Street	1012 Nehe Street
Field Sample ID:		220122-D3-FT05	220122-D3-GT01	220122-D3-GT02	220122-D3-GT03	220122-D3-GT04	220122-D3-HT01	220122-D3-HT02	220122-D3-HT03
Sample Date:		2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22
Sample Type:		N	N	N	N	N	N	N	FD
GENCHEM (mg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels					
	2	None	None	None	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Total Organic Carbon									
HC (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels					
	200	400	None	None	190 U	190 U	92.0 U	5801095591	SDG: 5801095591
Petroleum Hydrocarbons (as Diesel)									
Petroleum Hydrocarbons (as Gasoline)									
Petroleum Hydrocarbons (as Motor Oil)									
Total Petroleum Hydrocarbons		211	--	--	--	--	--	--	--
HG (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels					
	0.025	0.025	2	2	0.0560 U	0.0560 U	0.0560 U	0.0250 U	0.0250 U
Mercury									
METAL (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels					
	6	6	6	6	0.0570 U	0.0570 U	0.0570 U	0.100 U	0.100 U
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Chromium									
Copper									
Lead									
Mercury									
Selenium									
Thallium									

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:		981 Ohana Nui Circle	354 Ohana Nui Circle	408 Ohana Nui Circle	401 Pakalana Street	401 Pakalana Street	731 Ohana Nui Circle	1021 Ohana Nui Circle	513 Ohana Nui Circle
Field Sample ID:		220122-D3-HT04	220122-D3-HT05	220122-D3-HT06	220122-D3-IT01	220122-D3-IT02	220122-D3-IT03	220122-D3-IT04	220122-D3-IT05
Sample Date:		2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22
Sample Type:		N	N	N	N	FD	N	N	N
GENCHEM (mg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels	SDG: C22A046	SDG: C22A046	SDG: C22A046	SDG: C22A046	SDG: C22A046
	2	None	None	None	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Total Organic Carbon									
HC (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels	SDG: 5801095591	SDG: 5801095591	SDG: 5801095591	SDG: 5801095591	SDG: 5801095591
	200	400	None	None	93.0 U	92.0 U	93.0 U	92.0 U	92.0 U
Petroleum Hydrocarbons (as Diesel)									
Petroleum Hydrocarbons (as Gasoline)									
Petroleum Hydrocarbons (as Motor Oil)									
Total Petroleum Hydrocarbons		211	--	--	--	--	--	--	--
HG (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels	SDG: DA41140	SDG: DA41140	SDG: 810127901	SDG: 810127901	SDG: 810127901
	0.025	0.025	2	2	0.0250 U	0.0250 U	0.0560 U	0.0560 U	0.0560 U
Mercury									
METAL (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels	SDG: DA41140	SDG: DA41140	SDG: 810127901	SDG: 810127901	SDG: 810127901
	6	6	6	6	0.100 U	0.100 U	0.0570 U	0.0570 U	0.0570 U
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Chromium									
Copper		2.9	2.9	1300	6.80	8.70	7.70	5.40	6.50
Lead		15	5.6	15	0.130 U	0.130 U	0.140 J	0.140 J	0.230 J
Mercury		0.025	0.025	2	--	--	--	--	--
Selenium		5	5	50	0.300 U	0.300 U	1.60 U	1.60 U	1.60 J
Thallium		2	2	2	0.0500 U	0.0500 U	0.160 U	0.170 J	0.160 U

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:		451 Ohana Nui Circle	82 Kokio Lane	171 Kokomalei Street	131 Ohana Nui Circle	214 Melia Street	151 Ohana Nui Circle	121 Kokomalei Street
Field Sample ID:		220122-D3-JT01	220122-D3-JT02	220122-D3-JT03	220122-D3-JT04	220122-D3-KT01	220122-D3-KT02	220122-D3-KT03
Sample Date:		2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22
Sample Type:		N	N	N	FD	N	N	N
GENCHEM (mg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels	SDG: C22A046	SDG: C22A046	SDG: DA41140	SDG: DA41140
	2	None	None	None	0.200 U	0.200 U	0.200 U	0.200 U
Total Organic Carbon			1.56					
HC (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels	SDG: 5801095591	SDG: 5801095591	SDG: DA41140	SDG: DA41140
	200	400	None	None	92.0 U	92.0 U	190 U	190 U
Petroleum Hydrocarbons (as Diesel)								
Petroleum Hydrocarbons (as Gasoline)		200	300	None	31.0 U	31.0 U	40.0 U	40.0 U
Petroleum Hydrocarbons (as Motor Oil)		200	500	None	180 J	180 U	190 UJ	190 UJ
Total Petroleum Hydrocarbons		211	--	180	--	--	--	--
HG (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels	SDG: DA41140	SDG: DA41140	SDG: 810127901	SDG: 810127901
	0.025	0.025	2	2	0.0250 U	0.0250 U	0.0560 U	0.0560 U
Mercury								
METAL (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels	SDG: DA41140	SDG: DA41140	SDG: 810127901	SDG: 810127901
	6	6	6	6	0.100 U	0.100 U	0.0570 U	0.0570 U
Antimony								
Arsenic		10	10	10	0.500 U	0.500 U	0.890 U	0.890 U
Barium		220	2000	2000	1.90 J	2.00	1.90 J	1.90 J
Beryllium		0.66	0.66	4	0.150 U	0.150 U	0.0830 U	0.0830 U
Cadmium		3	3	5	0.0500 U	0.0500 U	0.140 U	0.140 U
Chromium		11	11	100	0.500 U	0.500 U	1.70	1.80
Copper		2.9	2.9	1300	7.80	140	14.0	210
Lead		15	5.6	15	0.130 J	1.20	0.270 J	0.180 J
Mercury		0.025	0.025	2	--	--	--	--
Selenium		5	5	50	0.300 U	0.300 U	1.60 U	1.60 U
Thallium		2	2	2	0.0500 U	0.0500 U	0.160 U	0.160 U

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:		Building 3950, Trinity Missionary Baptist Church	1041 Ohana Nui Circle	Building 1, Assets School	Building 3950, Trinity Missionary Baptist Church	114 Puuloa Circle	352 Ohana Nui Circle	Building 1309H,MOKULELE ELEM BLDG A, 250 Aupaka St	Building 1309H,MOKULELE ELEM BLDG A, 250 Aupaka St
Field Sample ID:		220122-D3-KT04	220122-D3-LT01	220122-D3-LT02	220122-D3-LT03	220122-D3-LT04	D3-TW-1362356- 22020-N	D3-TW-2201001- 22020-N-01	D3-TW-2201001- 22020-N-02
Sample Date:		2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-24	2022-01-24	2022-01-24
Sample Type:		N	N	N	N	N	N	N	N
		Environmental Protection Agency Maximum Contaminant Levels							
GENCHEM (mg/L)		2	None	None	SDG: DA41140	SDG: DA41140	SDG: DA41140	SDG: DA41270	SDG: DA41270
Total Organic Carbon			0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
		Environmental Protection Agency Maximum Contaminant Levels							
HC (µg/L)		Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Environmental Protection Agency Maximum Contaminant Levels	SDG: DA41140	SDG: DA41140	SDG: DA41270A	SDG: DA41270A
Petroleum Hydrocarbons (as Diesel)		200	400	None	None	190 U	190 U	190 UJ	190 U
Petroleum Hydrocarbons (as Gasoline)		200	300	None	None	40.0 U	40.0 U	40.0 U	40.0 U
Petroleum Hydrocarbons (as Motor Oil)		200	500	None	None	190 UJ	190 UJ	190 UJ	190 UJ
Total Petroleum Hydrocarbons		211	--	--	--	--	--	--	--
		Environmental Protection Agency Maximum Contaminant Levels							
HG (µg/L)		Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Environmental Protection Agency Maximum Contaminant Levels	SDG: 810127901	SDG: 810127901	SDG: DA41270	SDG: DA41270
Mercury		0.025	0.025	2	2	0.0560 U	0.0560 U	0.0250 U	0.0250 U
		Environmental Protection Agency Maximum Contaminant Levels							
METAL (µg/L)		Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Environmental Protection Agency Maximum Contaminant Levels	SDG: 810127901	SDG: 810127901	SDG: DA41270	SDG: DA41270
Antimony		6	6	6	6	0.0570 U	0.0570 U	0.100 U	0.100 U
Arsenic		10	10	10	10	0.890 U	0.890 U	0.500 U	0.500 U
Barium		220	220	2000	2000	2.80	2.40	2.00	7.20
Beryllium		0.66	0.66	4	4	0.0830 U	0.0830 U	0.150 U	0.150 U
Cadmium		3	3	5	5	0.140 U	0.140 U	0.0500 U	0.0500 U
Chromium		11	11	100	100	1.80	1.60	1.20 J	1.20 J
Copper		2.9	2.9	1300	1300	9.50	4.30	65.2	162
Lead		15	5.6	15	15	0.330 J	0.210 J	0.130 U	0.350 J
Mercury		0.025	0.025	2	2	--	--	--	--
Selenium		5	5	50	50	1.60 U	1.60 U	0.300 U	0.300 U
Thallium		2	2	2	2	0.160 U	0.160 U	0.0500 U	0.0500 U

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:		Building 1309H,MOKULELE ELEM BLDG A, 250 Aupaka St		Building 1309H,MOKULELE ELEM BLDG A, 250 Aupaka St		Building 1309H,MOKULELE ELEM BLDG A, 250 Aupaka St		177 Kokomalei Street		214 Melia Street		Building 830, Holy Family Catholic Academy		Building 830, Holy Family Catholic Academy		Building 1756H,AAFES MINI- MALL	
Field Sample ID:		D3-TW-2201001- 22020-N-03		D3-TW-2201001- 22020-N-04		D3-TW-2201001- 22020-N-05		D3-TW-2201002- 22024-N		D3-TW-2201003- 22020-N		220126D3AT07		220126D3AT08		220126D3FT01	
Sample Date:		2022-01-24		2022-01-24		2022-01-24		2022-01-24		2022-01-24		2022-01-26		2022-01-26		2022-01-26	
Sample Type:		N		N		N		N (72 Hour Stagnation)		N (72 Hour Stagnation)		N		N		N	
		DOH Environmental Action Levels Table D-1A		DOH Environmental Action Levels Table D-1A		DOH Environmental Action Levels Table D-1A		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels					
Incident Specific Parameters		Groundwater Action Levels		Groundwater Action Levels		Groundwater Action Levels											
GENCHEM (mg/L)		2		None		None		None		None		None		None		None	
Total Organic Carbon				0.200 U		0.200 U		0.200 U		0.200 U		0.200 U		0.200 U		0.250 U	
		DOH		DOH		DOH		DOH Safe		DOH Safe		Environmental					
		Environmental		Environmental		Environmental		Drinking Water		Drinking Water		Protection					
		Action Levels		Action Levels		Action Levels		Branch (SDWB)		Branch (SDWB)		Agency					
		Table D-1A		Table D-1A		Table D-1A		Regulatory		Regulatory		Maximum					
		Groundwater		Groundwater		Groundwater		Constituents		Constituents		Contaminant					
Incident Specific Parameters		Action Levels		Action Levels		Action Levels											
HC (µg/L)		200		400		None		None		None		None		None		None	
Petroleum Hydrocarbons (as Diesel)																	
Petroleum Hydrocarbons (as Gasoline)		200		300		None		None		None		None		None		100 U	
Petroleum Hydrocarbons (as Motor Oil)		200		500		None		None		None		None		None		190 U	
Total Petroleum Hydrocarbons		211														--	
		DOH		DOH		DOH		DOH Safe		DOH Safe		Environmental					
		Environmental		Environmental		Environmental		Drinking Water		Drinking Water		Protection					
		Action Levels		Action Levels		Action Levels		Branch (SDWB)		Branch (SDWB)		Agency					
		Table D-1A		Table D-1A		Table D-1A		Regulatory		Regulatory		Maximum					
		Groundwater		Groundwater		Groundwater		Constituents		Constituents		Contaminant					
Incident Specific Parameters		Action Levels		Action Levels		Action Levels											
HG (µg/L)		0.025		0.025		0.0250 U		0.0250 U		0.0250 U		0.0250 U		0.0250 U		0.0560 U	
Mercury																	
		DOH		DOH		DOH		DOH Safe		DOH Safe		Environmental					
		Environmental		Environmental		Environmental		Drinking Water		Drinking Water		Protection					
		Action Levels		Action Levels		Action Levels		Branch (SDWB)		Branch (SDWB)		Agency					
		Table D-1A		Table D-1A		Table D-1A		Regulatory		Regulatory		Maximum					
		Groundwater		Groundwater		Groundwater		Constituents		Constituents		Contaminant					
Incident Specific Parameters		Action Levels		Action Levels		Action Levels											
METAL (µg/L)		6		6		0.100 U		0.100 U		0.100 U		0.100 U		0.100 U		0.0570 U	
Antimony																	
Arsenic		10		10		0.500 U		0.500 U		0.500 U		0.500 U		0.500 U		0.890 U	
Barium		220		220		1.90 J		1.90 J		1.90 J		2.00		2.70		2.00	
Beryllium		0.66		0.66		0.150 U		0.150 U		0.150 U		0.150 UJ		0.150 UJ		0.0830 U	
Cadmium		3		3		0.0500 U		0.0500 U		0.0500 U		0.0500 UJ		0.0500 UJ		0.140 U	
Chromium		11		11		0.990 J		1.10 J		1.10 J		1.40 J		1.20 J		1.90	
Copper		2.9		2.9		1300		1300		1300		15.1		14.3		24.0	
Lead		15		5.6		0.130 U		0.130 U		0.130 U		0.130 U		0.130 U		0.180 J	
Mercury		0.025		0.025		2		2		2		2		2		2	
Selenium		5		5		0.300 U		0.300 U		0.300 U		0.300 U		0.300 U		1.60 U	
Thallium		2		2		0.0500 U		0.0500 U		0.0500 U		0.0500 U		0.0500 U		0.160 U	

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:		Building 515, Pearl Harbor Church of Christ	Building 515, Pearl Harbor Church of Christ	Building 515, Pearl Harbor Church of Christ	Building 830, Holy Family Catholic Academy	Building 830, Holy Family Catholic Academy	Building 830, Holy Family Catholic Academy
Field Sample ID:		220126D3HT01	220126-D3-HT01	220126D3HT02	220126-D3-HT02	220126D3HT03	220126D3HT05
Sample Date:		2022-01-26	2022-01-26	2022-01-26	2022-01-26	2022-01-26	2022-01-26
Sample Type:		N	N	N	N	N	N
GENCHEM (mg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels			
	2	None	None	None			
Total Organic Carbon							0.250 U
HC (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels			
	200	400	None	None			
Petroleum Hydrocarbons (as Diesel)							94.0 U
Petroleum Hydrocarbons (as Gasoline)							100 UJ
Petroleum Hydrocarbons (as Motor Oil)							190 U
Total Petroleum Hydrocarbons		211	--	--	--	--	--
HG (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels			
	0.025	0.025	2	2			
Mercury							0.0560 U
METAL (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels			
	6	6	6	6			
Antimony							0.0570 U
Arsenic							0.890 U
Barium							2.80
Beryllium							0.0830 U
Cadmium							0.140 U
Chromium							1.70
Copper							31.0
Lead							0.160 J
Mercury							--
Selenium							1.60 U
Thallium							0.160 U

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:		Building 1330H,YOUTH CENTER, 234 Melick Ave		1006 Ohana Nui Circle		71 Aupaka Street		Building 1586H,CHILD DEVELOPMENT CENTER-HICKAM MAIN CDC		Building 520, Chester Nimitz Elementary		945 Ohana Nui Circle	
Field Sample ID:		220120-D3-CT05		220120-D3-DT02		220121-D3-AT01		220121-D3-AT02		220121-D3-AT04		220121-D3-BT01	
Sample Date:		2022-01-20		2022-01-21		2022-01-21		2022-01-21		2022-01-21		2022-01-21	
Sample Type:		N		N		N		N		N		N	
		DOH Environmental Action Levels Table D-1A		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels							
SVOC (µg/L)	Incident Specific Parameters	Action Levels						SDG: 810127881	SDG: 810127881	SDG: 810127911	SDG: 810127911	SDG: 810127911	SDG: 810127911
1-Methylnaphthalene	2.1	10	None	None	None	None	None	0.0190 U	0.0190 U	0.0200 U	0.0190 U	0.0200 U	0.0190 U
2-Methylnaphthalene	4.7	10	None	None	None	None	None	0.0190 U	0.0190 U	0.0200 U	0.0190 U	0.0200 U	0.0190 U
Benzo(a)pyrene	0.06	0.06	0.2	0.2	0.2	0.2	0.00970 U	0.00970 U	0.00970 U	0.00980 U	0.00970 U	0.00990 U	0.00970 U
Bis(2-ethylhexyl)phthalate	3	3	6	6	6	6	0.580 U	0.580 U	0.580 U	0.590 U	0.580 U	0.590 U	0.580 U
Naphthalene	12	17	None	None	None	None	0.0190 U	0.0190 U	0.0190 U	0.0200 U	0.0190 U	0.0200 U	0.0190 U
		DOH Environmental Action Levels Table D-1A		DOH Safe Drinking Water Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels							
VOC (µg/L)	Incident Specific Parameters	Action Levels						SDG: C22A043	SDG: C22A045	SDG: C22A045	SDG: C22A045	SDG: C22A045	SDG: C22A045
1,1,1-Trichloroethane	11	11	200	200	200	200	0.119 U	0.119 U	0.119 U	0.119 U	0.119 U	0.119 U	0.119 U
1,1,2-Trichloroethane	5	5	3	3	5	5	0.288 UJ	0.288 U	0.288 UJ	0.288 UJ	0.288 UJ	0.288 UJ	0.288 U
1,1-Dichloroethene	7	7	7	7	7	7	0.128 U	0.128 U	0.128 U	0.128 U	0.128 U	0.128 U	0.128 U
1,2,4-Trichlorobenzene	70	70	70	70	70	70	0.318 U	0.318 U	0.318 U	0.318 U	0.318 U	0.318 U	0.318 U
1,2-Dichlorobenzene	10	10	600	600	600	600	0.272 U	0.272 U	0.272 U	0.272 U	0.272 U	0.272 U	0.272 U
1,2-Dichloroethane	5	5	5	5	5	5	0.0884 U	0.0884 U	0.0884 U	0.0884 U	0.0884 U	0.0884 U	0.0884 U
1,2-Dichloropropane	5	5	5	5	5	5	0.129 U	0.129 U	0.129 U	0.129 U	0.129 U	0.129 U	0.129 U
1,4-Dichlorobenzene	5	5	75	75	None	None	0.245 U	0.245 U	0.245 U	0.245 U	0.245 U	0.245 U	0.245 U
Benzene	5	5	5	5	5	5	0.0846 U	0.0846 U	0.0846 U	0.0846 U	0.0846 U	0.0846 U	0.0846 U
Carbon Tetrachloride	5	5	5	5	5	5	0.165 U	0.165 U	0.165 U	0.165 U	0.165 U	0.165 U	0.165 U
Chlorobenzene	25	25	100	100	100	100	0.146 U	0.146 U	0.146 U	0.146 U	0.146 U	0.146 U	0.146 U
cis-1,2-Dichloroethene	70	70	70	70	70	70	0.0570 U	0.0570 U	0.0570 U	0.0570 U	0.0570 U	0.0570 U	0.0570 U
Ethylbenzene	700	7.3	700	700	700	700	0.141 U	0.141 U	0.141 U	0.141 U	0.141 U	0.141 U	0.141 U
m,p-Xylene	10000	13	None	None	None	None	0.317 U	0.317 U	0.317 U	0.317 U	0.317 U	0.317 U	0.317 U
Methylene chloride	5	5	5	5	5	5	2.15 UJ	2.15 UJ	2.15 UJ	2.15 UJ	2.15 UJ	2.15 UJ	2.15 UJ
o-Xylene	10000	13	None	None	None	None	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U
Styrene	10	10	100	100	100	100	0.224 U	0.224 U	0.224 U	0.224 U	0.224 U	0.224 U	0.224 U
Tetrachloroethene (PCE)	5	5	5	5	5	5	0.125 UJ	0.125 UJ	0.125 UJ	0.125 UJ	0.125 UJ	0.125 UJ	0.125 U
Toluene	1000	9.8	1000	1000	1000	1000	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U
trans-1,2-Dichloroethene	100	100	100	100	100	100	0.0958 U	0.0958 U	0.0958 U	0.0958 U	0.0958 U	0.0958 U	0.0958 U
Trichloroethene (TCE)	5	5	5	5	5	5	0.0574 U	0.0574 U	0.0574 U	0.0574 U	0.0574 U	0.0574 U	0.0574 U
Vinyl chloride	2	2	2	2	2	2	0.611 UJ	0.611 U	0.611 UJ	0.611 UJ	0.611 UJ	0.611 UJ	0.611 U
Xylenes, Total	10000	13	10000	10000	10000	10000	--	--	--	--	--	--	--

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:		945 Ohana Nui Circle	163 Kokomalei Street	Building 520, Chester Nimitz Elementary	881 Nanu Street	Building 1654H,CHILD DEVELOPMENT CENTER-HICKAM WEST CDC	142 Honohono Street	941 Ohana Nui Circle	915 Ohana Nui Circle
Field Sample ID:		220121-D3-BT02	220121-D3-BT03	220121-D3-BT04	220121-D3-BT05	220121-D3-BT06	220121-D3-CT01	220121-D3-CT02	220121-D3-CT03
Sample Date:		2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21
Sample Type:		FD	N	N	N	N	N	N	N
		DOH Environmental Action Levels Table D-1A Groundwater			DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents			Environmental Protection Agency Maximum Contaminant Levels	
SVOC (µg/L)	Incident Specific Parameters	Action Levels						SDG: 810127911	SDG: 810127911
1-Methylnaphthalene	2.1	10	None	None	None	None	0.0190 U	0.0190 U	0.0190 U
2-Methylnaphthalene	4.7	10	None	None	None	None	0.0190 U	0.0200 U	0.0190 U
Benzo(a)pyrene	0.06	0.06	0.2	0.2	0.00980 U	0.2	0.00970 U	0.00980 U	0.00970 U
Bis(2-ethylhexyl)phthalate	3	3	6	6	0.590 U	6	0.580 U	0.590 U	0.580 U
Naphthalene	12	17	None	None	0.0200 U	None	0.0190 U	0.0200 U	0.0190 U
		DOH Environmental Action Levels Table D-1A Groundwater			DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents			Environmental Protection Agency Maximum Contaminant Levels	
VOC (µg/L)	Incident Specific Parameters	Action Levels						SDG: C22A045	SDG: C22A045
1,1,1-Trichloroethane	11	11	200	200	0.119 U	200	0.119 U	0.119 U	0.119 U
1,1,2-Trichloroethane	5	5	3	3	0.288 U	5	0.288 U	0.288 U	0.288 U
1,1-Dichloroethene	7	7	7	7	0.128 U	7	0.128 U	0.128 U	0.128 U
1,2,4-Trichlorobenzene	70	70	70	70	0.318 U	70	0.318 U	0.318 U	0.318 U
1,2-Dichlorobenzene	10	10	600	600	0.272 U	600	0.272 U	0.272 U	0.272 U
1,2-Dichloroethane	5	5	5	5	0.0884 U	5	0.0884 U	0.0884 U	0.0884 U
1,2-Dichloropropane	5	5	5	5	0.129 U	5	0.129 U	0.129 U	0.129 U
1,4-Dichlorobenzene	5	5	75	75	0.245 U	None	0.245 U	0.245 U	0.245 U
Benzene	5	5	5	5	0.0846 U	5	0.0846 U	0.0846 U	0.0846 U
Carbon Tetrachloride	5	5	5	5	0.165 U	5	0.165 U	0.165 U	0.165 U
Chlorobenzene	25	25	100	100	0.146 U	100	0.146 U	0.146 U	0.146 U
cis-1,2-Dichloroethene	70	70	70	70	0.0570 U	70	0.0570 U	0.0570 U	0.0570 U
Ethylbenzene	700	7.3	700	700	0.141 U	700	0.141 U	0.141 U	0.141 U
m,p-Xylene	10000	13	None	None	0.317 U	None	0.317 U	0.317 U	0.317 U
Methylene chloride	5	5	5	5	2.15 UJ	5	2.15 UJ	2.15 UJ	2.15 UJ
o-Xylene	10000	13	None	None	0.157 U	None	0.157 U	0.157 U	0.157 U
Styrene	10	10	100	100	0.224 U	100	0.224 U	0.224 U	0.224 U
Tetrachloroethene (PCE)	5	5	5	5	0.125 U	5	0.125 U	0.125 U	0.125 U
Toluene	1000	9.8	1000	1000	0.120 U	1000	0.120 U	0.120 U	0.120 U
trans-1,2-Dichloroethene	100	100	100	100	0.0958 U	100	0.0958 U	0.0958 U	0.0958 U
Trichloroethene (TCE)	5	5	5	5	0.0574 U	5	0.0574 U	0.0574 U	0.0574 U
Vinyl chloride	2	2	2	2	0.611 U	2	0.611 U	0.611 U	0.611 U
Xylenes, Total	10000	13	--	10000	--	10000	--	--	--

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:	141 Liliwai Street	153 Ohana Nui Circle	225 Puapilo Court	947 Nanu Street	Building 1586H,CHILD DEVELOPMENT CENTER-HICKAM MAIN CDC	Building 520, Chester Nimitz Elementary	Building 520, Chester Nimitz Elementary	BLDG 1864H - Veterinary Clinic, 1864 Kuntz Ave
Field Sample ID:	220121-D3-CT04	220121-D3-CT05	220121-D3-DT01	220121-D3-DT02	220121-D3-DT03	220121-D3-DT04	220121-D3-DT05	220121-D3-ET01
Sample Date:	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21
Sample Type:	N	N	N	N	N	N	N	N

SVOC (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels		SDG: 810127911	SDG: 810127911	SDG: 810127911	SDG: 810127911	SDG: 810127911
		Groundwater Action Levels	Table D-1A	Regulatory Constituents	Branch (SDWB)	Agency Maximum	Contaminant Levels					
1-Methylnaphthalene	2.1	10		None	None	None	None	0.0200 U	0.0200 U	0.0190 U	0.0200 U	0.0200 U
2-Methylnaphthalene	4.7	10		None	None	None	None	0.0200 U	0.0200 U	0.0190 U	0.0200 U	0.0200 U
Benzo(a)pyrene	0.06	0.06		0.2	0.2	0.2	0.2	0.00980 U	0.00980 U	0.00960 U	0.00980 U	0.00980 U
Bis(2-ethylhexyl)phthalate	3	3		6	6	6	6	0.590 U	0.590 U	0.580 U	0.590 U	0.590 U
Naphthalene	12	17		None	None	None	None	0.0200 U	0.0200 U	0.0190 U	0.0200 U	0.0200 U

VOC (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels		SDG: C22A045	SDG: C22A045	SDG: C22A045	SDG: C22A045	SDG: C22A045
		Groundwater Action Levels	Table D-1A	Regulatory Constituents	Branch (SDWB)	Agency Maximum	Contaminant Levels					
1,1,1-Trichloroethane	11	11		200	200	200	200	0.119 U	0.119 U	0.119 U	0.119 U	0.119 U
1,1,2-Trichloroethane	5	5		3	3	5	5	0.288 UJ	0.288 U	0.288 UJ	0.288 UJ	0.288 U
1,1-Dichloroethene	7	7		7	7	7	7	0.128 U	0.128 U	0.128 U	0.128 U	0.128 U
1,2,4-Trichlorobenzene	70	70		70	70	70	70	0.318 U	0.318 U	0.318 U	0.318 U	0.318 U
1,2-Dichlorobenzene	10	10		600	600	600	600	0.272 U	0.272 U	0.272 U	0.272 U	0.272 U
1,2-Dichloroethane	5	5		5	5	5	5	0.0884 U	0.0884 U	0.0884 U	0.0884 U	0.0884 U
1,2-Dichloropropane	5	5		5	5	5	5	0.129 U	0.129 U	0.129 U	0.129 U	0.129 U
1,4-Dichlorobenzene	5	5		75	75	None	None	0.245 U	0.245 U	0.245 U	0.245 U	0.245 U
Benzene	5	5		5	5	5	5	0.0846 U	0.0846 U	0.0846 U	0.0846 U	0.0846 U
Carbon Tetrachloride	5	5		5	5	5	5	0.165 U	0.165 U	0.165 U	0.165 U	0.165 U
Chlorobenzene	25	25		100	100	100	100	0.146 U	0.146 U	0.146 U	0.146 U	0.146 U
cis-1,2-Dichloroethene	70	70		70	70	70	70	0.0570 U	0.0570 U	0.0570 U	0.0570 U	0.0570 U
Ethylbenzene	700	7.3		700	700	700	700	0.141 U	0.141 U	0.141 U	0.141 U	0.141 U
m,p-Xylene	10000	13		None	None	None	None	0.317 U	0.317 U	0.317 U	0.317 U	0.317 U
Methylene chloride	5	5		5	5	5	5	2.15 UJ	2.15 UJ	2.15 UJ	2.15 UJ	2.15 UJ
o-Xylene	10000	13		None	None	None	None	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U
Styrene	10	10		100	100	100	100	0.224 U	0.224 U	0.224 U	0.224 U	0.224 U
Tetrachloroethene (PCE)	5	5		5	5	5	5	0.125 UJ	0.125 U	0.125 UJ	0.125 UJ	0.125 U
Toluene	1000	9.8		1000	1000	1000	1000	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U
trans-1,2-Dichloroethene	100	100		100	100	100	100	0.0958 U	0.0958 U	0.0958 U	0.0958 U	0.0958 U
Trichloroethene (TCE)	5	5		5	5	5	5	0.0574 U	0.0574 U	0.0574 U	0.0574 U	0.0574 U
Vinyl chloride	2	2		2	2	2	2	0.611 UJ	0.611 U	0.611 UJ	0.611 UJ	0.611 U
Xylenes, Total	10000	13		10000	10000	10000	10000	--	--	--	--	--

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:		BLDG 1852H - Dorm Airman Perm Party, 326 Moffet St		161 Kokomalei Street		211 Melia Street		1034 Makalika Loop		304 Ohana Nui Circle		302 Ohana Nui Circle		162 Liliwai Street		307 Melia Street	
Field Sample ID:		220121-D3-ET02		220121-D3-ET03		220121-D3-ET04		220121-D3-ET05		220121-D3-FT01		220121-D3-FT02		220121-D3-FT03		220121-D3-FT04	
Sample Date:		2022-01-21		2022-01-21		2022-01-21		2022-01-21		2022-01-21		2022-01-21		2022-01-21		2022-01-21	
Sample Type:		N		N		N		N		N		N		N		N	
		DOH Environmental Action Levels Table D-1A		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels											
SVOC (µg/L)	Incident Specific Parameters	Action Levels	Groundwater	Constituents	Regulatory	SDG: 810127911	SDG: 810127911	SDG: 810127911	SDG: 810127911	SDG: 810127911	SDG: 810127911	SDG: 810127911	SDG: 810127911	SDG: 810127911	SDG: 810127911	SDG: 810127911	SDG: 810127911
1-Methylnaphthalene	2.1	10	None	None	None	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0190 U	0.0190 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
2-Methylnaphthalene	4.7	10	None	None	None	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0190 U	0.0190 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
Benzo(a)pyrene	0.06	0.06	0.2	0.2	0.00980 U	0.00980 U	0.00980 U	0.00980 U	0.00980 U	0.00970 U	0.00970 U	0.00980 U	0.00980 U	0.00980 U	0.00980 U	0.00980 U	0.00980 U
Bis(2-ethylhexyl)phthalate	3	3	6	6	0.590 U	0.590 U	0.590 U	0.590 U	0.590 U	0.580 U	0.580 U	0.590 U	0.590 U	0.590 U	0.590 U	0.590 U	0.590 U
Naphthalene	12	17	None	None	None	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0190 U	0.0190 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
		DOH Environmental Action Levels Table D-1A		DOH Safe Drinking Water Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels											
VOC (µg/L)	Incident Specific Parameters	Action Levels	Groundwater	Constituents	Regulatory	SDG: C22A045	SDG: C22A045	SDG: C22A045	SDG: C22A045	SDG: C22A045	SDG: C22A045	SDG: C22A045	SDG: C22A045	SDG: C22A045	SDG: C22A045	SDG: C22A045	SDG: C22A045
1,1,1-Trichloroethane	11	11	200	200	200	0.119 U	0.119 U	0.119 U	0.119 U	0.119 U	0.119 U	0.119 U	0.119 U	0.119 U	0.119 U	0.119 U	0.119 U
1,1,2-Trichloroethane	5	5	3	3	5	0.288 U	0.288 U	0.288 U	0.288 U	0.288 UJ	0.288 UJ	0.288 UJ	0.288 UJ	0.288 UJ	0.288 UJ	0.288 UJ	0.288 UJ
1,1-Dichloroethene	7	7	7	7	7	0.128 U	0.128 U	0.128 U	0.128 U	0.128 U	0.128 U	0.128 U	0.128 U	0.128 U	0.128 U	0.128 U	0.128 U
1,2,4-Trichlorobenzene	70	70	70	70	70	0.318 U	0.318 U	0.318 U	0.318 U	0.318 U	0.318 U	0.318 U	0.318 U	0.318 U	0.318 U	0.318 U	0.318 U
1,2-Dichlorobenzene	10	10	600	600	600	0.272 U	0.272 U	0.272 U	0.272 U	0.272 U	0.272 U	0.272 U	0.272 U	0.272 U	0.272 U	0.272 U	0.272 U
1,2-Dichloroethane	5	5	5	5	5	0.0884 U	0.0884 U	0.0884 U	0.0884 U	0.0884 U	0.0884 U	0.0884 U	0.0884 U	0.0884 U	0.0884 U	0.0884 U	0.0884 U
1,2-Dichloropropane	5	5	5	5	5	0.129 U	0.129 U	0.129 U	0.129 U	0.129 U	0.129 U	0.129 U	0.129 U	0.129 U	0.129 U	0.129 U	0.129 U
1,4-Dichlorobenzene	5	5	75	75	None	0.245 U	0.245 U	0.245 U	0.245 U	0.245 U	0.245 U	0.245 U	0.245 U	0.245 U	0.245 U	0.245 U	0.245 U
Benzene	5	5	5	5	5	0.0846 U	0.0846 U	0.0846 U	0.0846 U	0.0846 U	0.0846 U	0.0846 U	0.0846 U	0.0846 U	0.0846 U	0.0846 U	0.0846 U
Carbon Tetrachloride	5	5	5	5	5	0.165 U	0.165 U	0.165 U	0.165 U	0.165 U	0.165 U	0.165 U	0.165 U	0.165 U	0.165 U	0.165 U	0.165 U
Chlorobenzene	25	25	100	100	100	0.146 U	0.146 U	0.146 U	0.146 U	0.146 U	0.146 U	0.146 U	0.146 U	0.146 U	0.146 U	0.146 U	0.146 U
cis-1,2-Dichloroethene	70	70	70	70	70	0.0570 U	0.0570 U	0.0570 U	0.0570 U	0.0570 U	0.0570 U	0.0570 U	0.0570 U	0.0570 U	0.0570 U	0.0570 U	0.0570 U
Ethylbenzene	700	7.3	700	700	700	0.141 U	0.141 U	0.141 U	0.141 U	0.141 U	0.141 U	0.141 U	0.141 U	0.141 U	0.141 U	0.141 U	0.141 U
m,p-Xylene	10000	13	None	None	None	0.317 U	0.317 U	0.317 U	0.317 U	0.317 U	0.317 U	0.317 U	0.317 U	0.317 U	0.317 U	0.317 U	0.317 U
Methylene chloride	5	5	5	5	5	2.15 UJ	2.15 UJ	2.15 UJ	2.15 UJ	2.15 UJ	2.15 UJ	2.15 UJ	2.15 UJ	2.15 UJ	2.15 UJ	2.15 UJ	2.15 UJ
o-Xylene	10000	13	None	None	None	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U
Styrene	10	10	100	100	100	0.224 U	0.224 U	0.224 U	0.224 U	0.224 U	0.224 U	0.224 U	0.224 U	0.224 U	0.224 U	0.224 U	0.224 U
Tetrachloroethene (PCE)	5	5	5	5	5	0.125 U	0.125 U	0.125 U	0.125 U	0.125 UJ	0.125 UJ	0.125 UJ	0.125 UJ	0.125 UJ	0.125 UJ	0.125 UJ	0.125 UJ
Toluene	1000	9.8	1000	1000	1000	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U
trans-1,2-Dichloroethene	100	100	100	100	100	0.0958 U	0.0958 U	0.0958 U	0.0958 U	0.0958 U	0.0958 U	0.0958 U	0.0958 U	0.0958 U	0.0958 U	0.0958 U	0.0958 U
Trichloroethene (TCE)	5	5	5	5	5	0.0574 U	0.0574 U	0.0574 U	0.0574 U	0.0574 U	0.0574 U	0.0574 U	0.0574 U	0.0574 U	0.0574 U	0.0574 U	0.0574 U
Vinyl chloride	2	2	2	2	2	0.611 U	0.611 U	0.611 U	0.611 U	0.611 UJ	0.611 UJ	0.611 UJ	0.611 UJ	0.611 UJ	0.611 UJ	0.611 UJ	0.611 UJ
Xylenes, Total	10000	13	10000	10000	10000	--	--	--	--	--	--	--	--	--	--	--	--

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:		242 Melia Street	271 Wela Loop	271 Wela Loop	202 Puapilo Court	118 Puuloa Circle	1002 Halehaka Street	152 Liliwai Street	152 Liliwai Street
Field Sample ID:		220121-D3-FT05	220121-D3-GT01	220121-D3-GT02	220121-D3-GT03	220121-D3-GT04	220121-D3-GT05	220121-D3-HT01	220121-D3-HT02
Sample Date:		2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21
Sample Type:		N	N	FD	N	N	N	N	FD
SVOC (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels			
		Action Levels						SDG: 810127911	SDG: 810127911
1-Methylnaphthalene	2.1	10	None	None	0.0200 U	0.0200 U	0.0190 U	0.0200 U	0.0200 U
2-Methylnaphthalene	4.7	10	None	None	0.0200 U	0.0200 U	0.0190 U	0.0200 U	0.0200 U
Benzo(a)pyrene	0.06	0.06	0.2	0.2	0.00970 U	0.00980 U	0.00980 U	0.00990 U	0.00980 U
Bis(2-ethylhexyl)phthalate	3	3	6	6	0.590 U	0.590 U	0.580 U	0.590 U	0.590 U
Naphthalene	12	17	None	None	0.0200 U	0.0200 U	0.0190 U	0.0200 U	0.0200 U
VOC (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels			
		Action Levels						SDG: C22A045	SDG: C22A045
1,1,1-Trichloroethane	11	11	200	200	0.119 U	0.119 U	0.119 U	0.119 U	0.119 U
1,1,2-Trichloroethane	5	5	3	3	0.288 U	0.288 U	0.288 U	0.288 U	0.288 U
1,1-Dichloroethene	7	7	7	7	0.128 U	0.128 U	0.128 U	0.128 U	0.128 U
1,2,4-Trichlorobenzene	70	70	70	70	0.318 U	0.318 U	0.318 U	0.318 U	0.318 U
1,2-Dichlorobenzene	10	10	600	600	0.272 U	0.272 U	0.272 U	0.272 U	0.272 U
1,2-Dichloroethane	5	5	5	5	0.0884 U	0.0884 U	0.0884 U	0.0884 U	0.0884 U
1,2-Dichloropropane	5	5	5	5	0.129 U	0.129 U	0.129 U	0.129 U	0.129 U
1,4-Dichlorobenzene	5	5	75	75	0.245 U	0.245 U	0.245 U	0.245 U	0.245 U
Benzene	5	5	5	5	0.0846 U	0.0846 U	0.0846 U	0.0846 U	0.0846 U
Carbon Tetrachloride	5	5	5	5	0.165 U	0.165 U	0.165 U	0.165 U	0.165 U
Chlorobenzene	25	25	100	100	0.146 U	0.146 U	0.146 U	0.146 U	0.146 U
cis-1,2-Dichloroethene	70	70	70	70	0.0570 U	0.0570 U	0.0570 U	0.0570 U	0.0570 U
Ethylbenzene	700	7.3	700	700	0.141 U	0.141 U	0.141 U	0.141 U	0.141 U
m,p-Xylene	10000	13	None	None	0.317 U	0.317 U	0.317 U	0.317 U	0.317 U
Methylene chloride	5	5	5	5	2.15 UJ	2.15 UJ	2.15 UJ	2.15 UJ	2.15 UJ
o-Xylene	10000	13	None	None	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U
Styrene	10	10	100	100	0.224 U	0.224 U	0.224 U	0.224 U	0.224 U
Tetrachloroethene (PCE)	5	5	5	5	0.125 U	0.125 U	0.125 U	0.125 U	0.125 U
Toluene	1000	9.8	1000	1000	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U
trans-1,2-Dichloroethene	100	100	100	100	0.0958 U	0.0958 U	0.0958 U	0.0958 U	0.0958 U
Trichloroethene (TCE)	5	5	5	5	0.0574 U	0.0574 U	0.0574 U	0.0574 U	0.0574 U
Vinyl chloride	2	2	2	2	0.611 U	0.611 U	0.611 U	0.611 U	0.611 U
Xylenes, Total	10000	13	10000	10000	--	--	--	--	--

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:		161 Pilokea Court	1024 Makalika Loop	304 Lehua Lane	281 Wela Loop	281 Wela Loop	251 Lilia Street	1068 Ohana Nui Circle	205 Puapilo Court
Field Sample ID:		220121-D3-HT03	220121-D3-HT04	220121-D3-HT05	220121-D3-IT01	220121-D3-IT02	220121-D3-IT03	220121-D3-IT04	220121-D3-IT05
Sample Date:		2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21
Sample Type:		N	N	N	N	FD	N	N	N
SVOC (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels			
		Action Levels						SDG: 810127911	SDG: 810127911
1-Methylnaphthalene	2.1	10	None	None	0.0200 U	0.0200 U	0.0200 U	0.0190 U	0.0200 U
2-Methylnaphthalene	4.7	10	None	None	0.0200 U	0.0200 U	0.0200 U	0.0190 U	0.0200 U
Benzo(a)pyrene	0.06	0.06	0.2	0.2	0.00980 U	0.00980 U	0.00980 U	0.00970 U	0.00980 U
Bis(2-ethylhexyl)phthalate	3	3	6	6	0.590 U	0.590 U	0.590 U	0.580 U	0.590 U
Naphthalene	12	17	None	None	0.0200 U	0.0200 U	0.0200 U	0.0190 U	0.0200 U
VOC (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels			
		Action Levels						SDG: C22A045	SDG: C22A045
1,1,1-Trichloroethane	11	11	200	200	0.119 U	0.119 U	0.119 U	0.119 U	0.119 U
1,1,2-Trichloroethane	5	5	3	5	0.288 U	0.288 U	0.288 UJ	0.288 UJ	0.288 UJ
1,1-Dichloroethene	7	7	7	7	0.128 U	0.128 U	0.128 U	0.128 U	0.128 U
1,2,4-Trichlorobenzene	70	70	70	70	0.318 U	0.318 U	0.318 U	0.318 U	0.318 U
1,2-Dichlorobenzene	10	10	600	600	0.272 U	0.272 U	0.272 U	0.272 U	0.272 U
1,2-Dichloroethane	5	5	5	5	0.0884 U	0.0884 U	0.0884 U	0.0884 U	0.0884 U
1,2-Dichloropropane	5	5	5	5	0.129 U	0.129 U	0.129 U	0.129 U	0.129 U
1,4-Dichlorobenzene	5	5	75	None	0.245 U	0.245 U	0.245 U	0.245 U	0.245 U
Benzene	5	5	5	5	0.0846 U	0.0846 U	0.0846 U	0.0846 U	0.0846 U
Carbon Tetrachloride	5	5	5	5	0.165 U	0.165 U	0.165 U	0.165 U	0.165 U
Chlorobenzene	25	25	100	100	0.146 U	0.146 U	0.146 U	0.146 U	0.146 U
cis-1,2-Dichloroethene	70	70	70	70	0.0570 U	0.0570 U	0.0570 U	0.0570 U	0.0570 U
Ethylbenzene	700	7.3	700	700	0.141 U	0.141 U	0.141 U	0.141 U	0.141 U
m,p-Xylene	10000	13	None	None	0.317 U	0.317 U	0.317 U	0.317 U	0.317 U
Methylene chloride	5	5	5	5	2.15 UJ	2.15 UJ	2.15 UJ	2.15 UJ	2.15 UJ
o-Xylene	10000	13	None	None	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U
Styrene	10	10	100	100	0.224 U	0.224 U	0.224 U	0.224 U	0.224 U
Tetrachloroethene (PCE)	5	5	5	5	0.125 U	0.125 U	0.125 UJ	0.125 UJ	0.125 UJ
Toluene	1000	9.8	1000	1000	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U
trans-1,2-Dichloroethene	100	100	100	100	0.0958 U	0.0958 U	0.0958 U	0.0958 U	0.0958 U
Trichloroethene (TCE)	5	5	5	5	0.0574 U	0.0574 U	0.0574 U	0.0574 U	0.0574 U
Vinyl chloride	2	2	2	2	0.611 U	0.611 U	0.611 UJ	0.611 UJ	0.611 UJ
Xylenes, Total	10000	13	10000	10000	--	--	--	--	--

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:		121 Kopiko Street	121 Kopiko Street	102 Ilima Street	101 Ohana Nui Circle	212 Melia Street	907 Ohana Nui Circle	1025 Ohana Nui Circle	134 Honohono Street
Field Sample ID:		220121-D3-JT01	220121-D3-JT02	220121-D3-JT03	220121-D3-JT04	220121-D3-JT05	220121-D3-KT01	220121-D3-KT02	220121-D3-KT03
Sample Date:		2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21
Sample Type:		N	FD	N	N	N	N	N	N
SVOC (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels		SDG: DA41138	
		Action Levels	DOH Environmental Action Levels	Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Agency Maximum Contaminant Levels	SDG: DA41138	SDG: DA41138	SDG: 810127911
1-Methylnaphthalene	2.1	10		None	None	None	0.240 U	0.240 U	0.0200 U
2-Methylnaphthalene	4.7	10		None	None	None	0.240 U	0.240 U	0.0200 U
Benzo(a)pyrene	0.06	0.06		0.2	0.00960 U	0.2	0.00960 U	0.00960 U	0.00980 U
Bis(2-ethylhexyl)phthalate	3	3		6	0.380 U	6	0.380 U	0.380 U	0.590 U
Naphthalene	12	17		None	0.240 U	None	0.240 U	0.0200 U	0.0200 U
VOC (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels		SDG: DA41138	
		Action Levels	DOH Environmental Action Levels	Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Agency Maximum Contaminant Levels	SDG: DA41138	SDG: DA41138	SDG: C22A045
1,1,1-Trichloroethane	11	11		200	200	200	0.500 U	0.500 U	0.119 U
1,1,2-Trichloroethane	5	5		3	3	5	0.500 U	0.500 U	0.288 UJ
1,1-Dichloroethene	7	7		7	7	7	0.500 U	0.500 U	0.128 U
1,2,4-Trichlorobenzene	70	70		70	70	70	0.500 U	0.500 U	0.318 U
1,2-Dichlorobenzene	10	10		600	600	600	0.500 U	0.500 U	0.272 U
1,2-Dichloroethane	5	5		5	5	5	0.500 U	0.500 U	0.0884 U
1,2-Dichloropropane	5	5		5	5	5	0.500 U	0.500 U	0.129 U
1,4-Dichlorobenzene	5	5		75	75	None	0.500 U	0.500 U	0.245 U
Benzene	5	5		5	5	5	0.500 U	0.500 U	0.0846 U
Carbon Tetrachloride	5	5		5	5	5	0.500 U	0.500 U	0.165 U
Chlorobenzene	25	25		100	100	100	0.500 U	0.500 U	0.146 U
cis-1,2-Dichloroethene	70	70		70	70	70	0.500 U	0.500 U	0.0570 U
Ethylbenzene	700	7.3		700	700	700	0.500 U	0.500 U	0.141 U
m,p-Xylene	10000	13		None	None	None	0.500 U	0.500 U	0.317 U
Methylene chloride	5	5		5	5	5	0.500 U	0.500 U	2.15 UJ
o-Xylene	10000	13		None	None	None	0.500 U	0.500 U	0.157 U
Styrene	10	10		100	100	100	0.500 U	0.500 U	0.224 U
Tetrachloroethene (PCE)	5	5		5	5	5	0.500 U	0.500 U	0.125 UJ
Toluene	1000	9.8		1000	1000	1000	0.500 U	0.500 U	0.120 U
trans-1,2-Dichloroethene	100	100		100	100	100	0.500 U	0.500 U	0.0958 U
Trichloroethene (TCE)	5	5		5	5	5	0.500 U	0.500 U	0.0574 U
Vinyl chloride	2	2		2	2	2	0.500 U	0.500 U	0.611 UJ
Xylenes, Total	10000	13		10000	10000	10000	--	--	--

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:		223 Melia Street	Building 1654H,CHILD DEVELOPMENT CENTER-HICKAM WEST CDC	161 Ohana Nui Circle	331 Ohana Nui Circle	202 Ohana Nui Circle	971 Ohana Nui Circle	Building 1335H,SCHOOL AGE CENTER - CDC
Field Sample ID:		220121-D3-KT04	220121-D3-KT05	220121-D3-LT01	220121-D3-LT02	220121-D3-LT03	220121-D3-LT04	220122-D3-AT01
Sample Date:		2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-21	2022-01-22
Sample Type:		N	N	N	FD	N	N	N
SVOC (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels		SDG: 810127901
		Action Levels	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels	Environmental Protection Agency Maximum Contaminant Levels	
1-Methylnaphthalene	2.1	10	None	None	None	None	None	0.0200 U
2-Methylnaphthalene	4.7	10	None	None	None	None	None	0.0200 U
Benzo(a)pyrene	0.06	0.06	0.2	0.2	0.00970 U	0.00970 U	0.00950 U	0.00980 U
Bis(2-ethylhexyl)phthalate	3	3	6	6	0.580 U	0.580 U	0.380 U	0.590 U
Naphthalene	12	17	None	None	0.0190 U	0.0190 U	0.240 U	0.0200 U
VOC (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels		SDG: C22A045
		Action Levels	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels	Environmental Protection Agency Maximum Contaminant Levels	
1,1,1-Trichloroethane	11	11	200	200	0.119 U	0.119 U	0.500 U	0.119 U
1,1,2-Trichloroethane	5	5	3	3	0.288 U	0.288 U	0.500 U	0.288 U
1,1-Dichloroethene	7	7	7	7	0.128 U	0.128 U	0.500 U	0.128 U
1,2,4-Trichlorobenzene	70	70	70	70	0.318 U	0.318 U	0.500 U	0.318 U
1,2-Dichlorobenzene	10	10	600	600	0.272 U	0.272 U	0.500 U	0.272 U
1,2-Dichloroethane	5	5	5	5	0.0884 U	0.0884 U	0.500 U	0.0884 U
1,2-Dichloropropane	5	5	5	5	0.129 U	0.129 U	0.500 U	0.129 U
1,4-Dichlorobenzene	5	5	75	75	0.245 U	0.245 U	0.500 U	0.245 U
Benzene	5	5	5	5	0.0846 U	0.0846 U	0.500 U	0.0846 U
Carbon Tetrachloride	5	5	5	5	0.165 U	0.165 U	0.500 U	0.165 U
Chlorobenzene	25	25	100	100	0.146 U	0.146 U	0.500 U	0.146 U
cis-1,2-Dichloroethene	70	70	70	70	0.0570 U	0.0570 U	0.500 U	0.0570 U
Ethylbenzene	700	7.3	700	700	0.141 U	0.141 U	0.500 U	0.141 U
m,p-Xylene	10000	13	None	None	0.317 U	0.317 U	0.500 U	0.317 U
Methylene chloride	5	5	5	5	2.15 UJ	2.15 UJ	0.500 U	2.15 U
o-Xylene	10000	13	None	None	0.157 U	0.157 U	0.500 U	0.157 U
Styrene	10	10	100	100	0.224 U	0.224 U	0.500 U	0.224 U
Tetrachloroethene (PCE)	5	5	5	5	0.125 U	0.125 U	0.500 U	0.125 U
Toluene	1000	9.8	1000	1000	0.120 U	0.120 U	0.500 U	0.120 U
trans-1,2-Dichloroethene	100	100	100	100	0.0958 U	0.0958 U	0.500 U	0.0958 U
Trichloroethene (TCE)	5	5	5	5	0.0574 U	0.0574 U	0.500 U	0.0574 U
Vinyl chloride	2	2	2	2	0.611 U	0.611 U	0.500 U	0.611 U
Xylenes, Total	10000	13	10000	10000	--	--	--	--

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:	775 Ohana Nui Circle	Building 1, Assets School	348 Melia Street	851 Ohana Nui Circle	708 Kikanai Loop	826 Ohana Nui Circle	
Field Sample ID:	220122-D3-AT02	220122-D3-AT03	220122-D3-AT04	220122-D3-BT01	220122-D3-BT02	220122-D3-BT03	220122-D3-BT04
Sample Date:	2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22
Sample Type:	N	N	N	N	N	N	N
	DOH Environmental Action Levels Table D-1A Groundwater		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels			
Incident Specific Parameters	SVOC (µg/L)	SDG: 810127901	SDG: 810127901	SDG: 810127901	SDG: DA41140	SDG: DA41140	SDG: DA41140
2.1	10	0.0200 U	0.0190 U	0.0200 U	0.240 U	0.240 U	0.240 U
4.7	10	0.0200 U	0.0190 U	0.0200 U	0.240 U	0.240 U	0.240 U
0.06	0.06	0.00990 U	0.00970 U	0.00990 U	0.00960 U	0.00960 U	0.00950 U
3	3	0.590 U	0.580 U	0.590 U	0.380 U	1.80 U	2.30 J
12	17	0.0200 U	0.0190 U	0.0200 U	0.240 U	0.240 U	0.240 U
	DOH Environmental Action Levels Table D-1A Groundwater		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels			
Incident Specific Parameters	VOC (µg/L)	SDG: C22A046	SDG: C22A046	SDG: C22A046	SDG: C22A046	SDG: C22A046	SDG: C22A046
11	11	0.119 U	0.119 U	0.119 U	0.119 U	0.119 U	0.119 U
5	5	0.288 U	0.288 U	0.288 U	0.288 U	0.288 U	0.288 U
7	7	0.128 U	0.128 U	0.128 U	0.128 U	0.128 U	0.128 U
70	70	0.318 U	0.318 U	0.318 U	0.318 U	0.318 U	0.318 U
10	10	0.272 U	0.272 U	0.272 U	0.272 U	0.272 U	0.272 U
5	5	0.0884 U	0.0884 U	0.0884 U	0.0884 U	0.0884 U	0.0884 U
5	5	0.129 U	0.129 U	0.129 U	0.129 U	0.129 U	0.129 U
5	5	0.245 U	0.245 U	0.245 U	0.245 U	0.245 U	0.245 U
5	5	0.0846 U	0.0846 U	0.0846 U	0.0846 U	0.0846 U	0.0846 U
5	5	0.165 U	0.165 U	0.165 U	0.165 U	0.165 U	0.165 U
25	25	0.146 U	0.146 U	0.146 U	0.146 U	0.146 U	0.146 U
70	70	0.0570 U	0.0570 U	0.0570 U	0.0570 U	0.0570 U	0.0570 U
700	7.3	0.141 U	0.141 U	0.141 U	0.141 U	0.141 U	0.141 U
10000	13	0.317 U	0.317 U	0.317 U	0.317 U	0.317 U	0.317 U
5	5	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U
10000	13	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U
10	10	0.224 U	0.224 U	0.224 U	0.224 U	0.224 U	0.224 U
5	5	0.125 U	0.125 U	0.125 U	0.125 U	0.125 U	0.125 U
1000	9.8	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U
100	100	0.0958 U	0.0958 U	0.0958 U	0.0958 U	0.0958 U	0.0958 U
5	5	0.0574 U	0.0574 U	0.0574 U	0.0574 U	0.0574 U	0.0574 U
2	2	0.611 U	0.611 U	0.611 U	0.611 U	0.611 U	0.611 U
10000	13	10000	10000	10000	10000	10000	10000

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:		794 Ohana Nui Circle	944 Ohana Nui Circle	783 Ohana Nui Circle	1034 Nehe Street	561 Ohana Nui Circle	561 Ohana Nui Circle	531 Ohana Nui Circle	712 Kikanai Loop
Field Sample ID:		220122-D3-BT05	220122-D3-BT06	220122-D3-CT01	220122-D3-CT02	220122-D3-CT03	220122-D3-CT04	220122-D3-CT05	220122-D3-CT06
Sample Date:		2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22
Sample Type:		N	N	N	N	N	FD	N	N
SVOC (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels			
		Action Levels						SDG: DA41140	SDG: DA41140
1-Methylnaphthalene	2.1	10	None	None	None	None	None	0.240 U	0.240 U
2-Methylnaphthalene	4.7	10	None	None	None	None	None	0.240 U	0.240 U
Benzo(a)pyrene	0.06	0.06	0.2	0.2	0.00950 U	0.2	0.00950 U	0.00950 U	0.00950 U
Bis(2-ethylhexyl)phthalate	3	3	6	6	0.390 U	6	1.00 U	2.60 U	2.30 J
Naphthalene	12	17	None	None	0.240 U	None	0.240 U	0.240 U	0.240 U
VOC (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels			
		Action Levels						SDG: C22A046	SDG: C22A046
1,1,1-Trichloroethane	11	11	200	200	0.119 U	200	0.119 U	0.119 U	0.119 U
1,1,2-Trichloroethane	5	5	3	3	0.288 U	5	0.288 U	0.288 U	0.288 U
1,1-Dichloroethene	7	7	7	7	0.128 U	7	0.128 U	0.128 U	0.128 U
1,2,4-Trichlorobenzene	70	70	70	70	0.318 U	70	0.318 U	0.318 U	0.318 U
1,2-Dichlorobenzene	10	10	600	600	0.272 U	600	0.272 U	0.272 U	0.272 U
1,2-Dichloroethane	5	5	5	5	0.0884 U	5	0.0884 U	0.0884 U	0.0884 U
1,2-Dichloropropane	5	5	5	5	0.129 U	5	0.129 U	0.129 U	0.129 U
1,4-Dichlorobenzene	5	5	75	75	0.245 U	None	0.245 U	0.245 U	0.245 U
Benzene	5	5	5	5	0.0846 U	5	0.0846 U	0.0846 U	0.0846 U
Carbon Tetrachloride	5	5	5	5	0.165 U	5	0.165 U	0.165 U	0.165 U
Chlorobenzene	25	25	100	100	0.146 U	100	0.146 U	0.146 U	0.146 U
cis-1,2-Dichloroethene	70	70	70	70	0.0570 U	70	0.0570 U	0.0570 U	0.0570 U
Ethylbenzene	700	7.3	700	700	0.141 U	700	0.141 U	0.141 U	0.141 U
m,p-Xylene	10000	13	None	None	0.317 U	None	0.317 U	0.317 U	0.317 U
Methylene chloride	5	5	5	5	2.15 U	5	2.15 U	2.15 U	2.15 U
o-Xylene	10000	13	None	None	0.157 U	None	0.157 U	0.157 U	0.157 U
Styrene	10	10	100	100	0.224 U	100	0.224 U	0.224 U	0.224 U
Tetrachloroethene (PCE)	5	5	5	5	0.125 U	5	0.125 U	0.125 U	0.125 U
Toluene	1000	9.8	1000	1000	0.120 U	1000	0.120 U	0.120 U	0.120 U
trans-1,2-Dichloroethene	100	100	100	100	0.0958 U	100	0.0958 U	0.0958 U	0.0958 U
Trichloroethene (TCE)	5	5	5	5	0.0574 U	5	0.0574 U	0.0574 U	0.0574 U
Vinyl chloride	2	2	2	2	0.611 U	2	0.611 U	0.611 U	0.611 U
Xylenes, Total	10000	13	10000	10000	--	10000	--	--	--

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:		871 Ohana Nui Circle	871 Ohana Nui Circle	411 Ohana Nui Circle	1026 Makalika Loop	84 Kokio Lane	1002 Puakala Street	Building 1335H,SCHOOL AGE CENTER - CDC	754 Ohana Nui Circle
Field Sample ID:		220122-D3-DT01	220122-D3-DT02	220122-D3-DT03	220122-D3-DT04	220122-D3-DT05	220122-D3-DT06	220122-D3-ET01	220122-D3-ET02
Sample Date:		2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22
Sample Type:		N	FD	N	N	N	N	N	N

SVOC (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater Action Levels	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels	SDG: DA41140	SDG: DA41140	SDG: DA41140	SDG: DA41140	SDG: 810127901	SDG: 810127901
1-Methylnaphthalene	2.1	10	None	None	0.240 U	0.240 U	0.240 U	0.240 U	0.0190 U	0.0200 U
2-Methylnaphthalene	4.7	10	None	None	0.240 U	0.240 U	0.240 U	0.240 U	0.0190 U	0.0200 U
Benzo(a)pyrene	0.06	0.06	0.2	0.2	0.00950 U	0.00950 U	0.00950 U	0.00950 U	0.00970 U	0.00980 U
Bis(2-ethylhexyl)phthalate	3	3	6	6	1.70 U	1.80 U	1.80 U	0.380 U	0.580 U	0.590 U
Naphthalene	12	17	None	None	0.240 U	0.240 U	0.240 U	0.240 U	0.0190 U	0.0200 U

VOC (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater Action Levels	DOH Safe Drinking Water Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels	SDG: C22A046	SDG: C22A046	SDG: C22A046	SDG: C22A046	SDG: C22A046	SDG: C22A046
1,1,1-Trichloroethane	11	11	200	200	0.119 U	0.119 U	0.119 U	0.119 U	0.119 U	0.119 U
1,1,2-Trichloroethane	5	5	3	5	0.288 U	0.288 U	0.288 U	0.288 U	0.288 U	0.288 U
1,1-Dichloroethene	7	7	7	7	0.128 U	0.128 U	0.128 U	0.128 U	0.128 U	0.128 U
1,2,4-Trichlorobenzene	70	70	70	70	0.318 U	0.318 U	0.318 U	0.318 U	0.318 U	0.318 U
1,2-Dichlorobenzene	10	10	600	600	0.272 U	0.272 U	0.272 U	0.272 U	0.272 U	0.272 U
1,2-Dichloroethane	5	5	5	5	0.0884 U	0.0884 U	0.0884 U	0.0884 U	0.0884 U	0.0884 U
1,2-Dichloropropane	5	5	5	5	0.129 U	0.129 U	0.129 U	0.129 U	0.129 U	0.129 U
1,4-Dichlorobenzene	5	5	75	None	0.245 U	0.245 U	0.245 U	0.245 U	0.245 U	0.245 U
Benzene	5	5	5	5	0.0846 U	0.0846 U	0.0846 U	0.0846 U	0.0846 U	0.0846 U
Carbon Tetrachloride	5	5	5	5	0.165 U	0.165 U	0.165 U	0.165 U	0.165 U	0.165 U
Chlorobenzene	25	25	100	100	0.146 U	0.146 U	0.146 U	0.146 U	0.146 U	0.146 U
cis-1,2-Dichloroethene	70	70	70	70	0.0570 U	0.0570 U	0.0570 U	0.0570 U	0.0570 U	0.0570 U
Ethylbenzene	700	7.3	700	700	0.141 U	0.141 U	0.141 U	0.141 U	0.141 U	0.141 U
m,p-Xylene	10000	13	None	None	0.317 U	0.317 U	0.317 U	0.317 U	0.317 U	0.317 U
Methylene chloride	5	5	5	5	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U
o-Xylene	10000	13	None	None	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U
Styrene	10	10	100	100	0.224 U	0.224 U	0.224 U	0.224 U	0.224 U	0.224 U
Tetrachloroethene (PCE)	5	5	5	5	0.125 U	0.125 U	0.125 U	0.125 U	0.125 U	0.125 U
Toluene	1000	9.8	1000	1000	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U
trans-1,2-Dichloroethene	100	100	100	100	0.0958 U	0.0958 U	0.0958 U	0.0958 U	0.0958 U	0.0958 U
Trichloroethene (TCE)	5	5	5	5	0.0574 U	0.0574 U	0.0574 U	0.0574 U	0.0574 U	0.0574 U
Vinyl chloride	2	2	2	2	0.611 U	0.611 U	0.611 U	0.611 U	0.611 U	0.611 U
Xylenes, Total	10000	13	10000	10000	--	--	--	--	--	--

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:		Building 1, Assets School		Building 1, Assets School		254 Wela Loop		106 Puuloa Circle		1007 Puakala Street		278 Puakauhi Court		238 Ohana Nui Circle		141 Ohana Nui Circle	
Field Sample ID:		220122-D3-ET03		220122-D3-ET04		220122-D3-ET05		220122-D3-ET06		220122-D3-FT01		220122-D3-FT02		220122-D3-FT03		220122-D3-FT04	
Sample Date:		2022-01-22		2022-01-22		2022-01-22		2022-01-22		2022-01-22		2022-01-22		2022-01-22		2022-01-22	
Sample Type:		N		N		N		N		N		N		N		N	
		DOH Environmental Action Levels Table D-1A		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels											
SVOC (µg/L)	Incident Specific Parameters	Action Levels	Groundwater	Regulatory	Constituents	Maximum	Contaminant	Levels	SDG: 810127901	SDG: 810127901	SDG: 810127901	SDG: 810127901	SDG: 810127901	SDG: 810127901	SDG: 810127901	SDG: 810127901	SDG: 810127901
1-Methylnaphthalene	2.1	10	None	None	None	None	None	None	0.0200 U	0.0200 U	0.0200 U	0.0190 U	0.0200 U	0.0190 U	0.0200 U	0.0200 U	0.0200 U
2-Methylnaphthalene	4.7	10	None	None	None	None	None	None	0.0200 U	0.0200 U	0.0200 U	0.0190 U	0.0200 U	0.0190 U	0.0200 U	0.0200 U	0.0200 U
Benzo(a)pyrene	0.06	0.06	0.2	0.2	0.2	0.2	0.00980 U	0.00980 U	0.00990 U	0.00980 U	0.00980 U	0.00970 U	0.00980 U	0.00970 U	0.00980 U	0.00980 U	0.00980 U
Bis(2-ethylhexyl)phthalate	3	3	6	6	6	6	0.590 U	0.590 U	0.590 U	0.590 U	0.590 U	0.580 U	0.590 U	0.580 U	0.590 U	0.590 U	0.590 U
Naphthalene	12	17	None	None	None	None	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0190 U	0.0200 U	0.0190 U	0.0200 U	0.0200 U	0.0200 U
		DOH Environmental Action Levels Table D-1A		DOH Safe Drinking Water Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels											
VOC (µg/L)	Incident Specific Parameters	Action Levels	Groundwater	Regulatory	Constituents	Maximum	Contaminant	Levels	SDG: C22A046	SDG: C22A046	SDG: C22A046	SDG: C22A046	SDG: C22A046	SDG: C22A046	SDG: C22A046	SDG: C22A046	SDG: C22A046
1,1,1-Trichloroethane	11	11	200	200	200	200	0.119 U	0.119 U	0.119 U	0.119 U	0.119 U	0.119 U	0.119 U	0.119 U	0.119 U	0.119 U	0.119 U
1,1,2-Trichloroethane	5	5	3	3	5	5	0.288 U	0.288 U	0.288 U	0.288 U	0.288 U	0.288 U	0.288 U	0.288 U	0.288 U	0.288 U	0.288 U
1,1-Dichloroethene	7	7	7	7	7	7	0.128 U	0.128 U	0.128 U	0.128 U	0.128 U	0.128 U	0.128 U	0.128 U	0.128 U	0.128 U	0.128 U
1,2,4-Trichlorobenzene	70	70	70	70	70	70	0.318 U	0.318 U	0.318 U	0.318 U	0.318 U	0.318 U	0.318 U	0.318 U	0.318 U	0.318 U	0.318 U
1,2-Dichlorobenzene	10	10	600	600	600	600	0.272 U	0.272 U	0.272 U	0.272 U	0.272 U	0.272 U	0.272 U	0.272 U	0.272 U	0.272 U	0.272 U
1,2-Dichloroethane	5	5	5	5	5	5	0.0884 U	0.0884 U	0.0884 U	0.0884 U	0.0884 U	0.0884 U	0.0884 U	0.0884 U	0.0884 U	0.0884 U	0.0884 U
1,2-Dichloropropane	5	5	5	5	5	5	0.129 U	0.129 U	0.129 U	0.129 U	0.129 U	0.129 U	0.129 U	0.129 U	0.129 U	0.129 U	0.129 U
1,4-Dichlorobenzene	5	5	75	75	None	None	0.245 U	0.245 U	0.245 U	0.245 U	0.245 U	0.245 U	0.245 U	0.245 U	0.245 U	0.245 U	0.245 U
Benzene	5	5	5	5	5	5	0.0846 U	0.0846 U	0.0846 U	0.0846 U	0.0846 U	0.0846 U	0.0846 U	0.0846 U	0.0846 U	0.0846 U	0.0846 U
Carbon Tetrachloride	5	5	5	5	5	5	0.165 U	0.165 U	0.165 U	0.165 U	0.165 U	0.165 U	0.165 U	0.165 U	0.165 U	0.165 U	0.165 U
Chlorobenzene	25	25	100	100	100	100	0.146 U	0.146 U	0.146 U	0.146 U	0.146 U	0.146 U	0.146 U	0.146 U	0.146 U	0.146 U	0.146 U
cis-1,2-Dichloroethene	70	70	70	70	70	70	0.0570 U	0.0570 U	0.0570 U	0.0570 U	0.0570 U	0.0570 U	0.0570 U	0.0570 U	0.0570 U	0.0570 U	0.0570 U
Ethylbenzene	700	7.3	700	700	700	700	0.141 U	0.141 U	0.141 U	0.141 U	0.141 U	0.141 U	0.141 U	0.141 U	0.141 U	0.141 U	0.141 U
m,p-Xylene	10000	13	None	None	None	None	0.317 U	0.317 U	0.317 U	0.317 U	0.317 U	0.317 U	0.317 U	0.317 U	0.317 U	0.317 U	0.317 U
Methylene chloride	5	5	5	5	5	5	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U
o-Xylene	10000	13	None	None	None	None	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U
Styrene	10	10	100	100	100	100	0.224 U	0.224 U	0.224 U	0.224 U	0.224 U	0.224 U	0.224 U	0.224 U	0.224 U	0.224 U	0.224 U
Tetrachloroethene (PCE)	5	5	5	5	5	5	0.125 U	0.125 U	0.125 U	0.125 U	0.125 U	0.125 U	0.125 U	0.125 U	0.125 U	0.125 U	0.125 U
Toluene	1000	9.8	1000	1000	1000	1000	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U
trans-1,2-Dichloroethene	100	100	100	100	100	100	0.0958 U	0.0958 U	0.0958 U	0.0958 U	0.0958 U	0.0958 U	0.0958 U	0.0958 U	0.0958 U	0.0958 U	0.0958 U
Trichloroethene (TCE)	5	5	5	5	5	5	0.0574 U	0.0574 U	0.0574 U	0.0574 U	0.0574 U	0.0574 U	0.0574 U	0.0574 U	0.0574 U	0.0574 U	0.0574 U
Vinyl chloride	2	2	2	2	2	2	0.611 U	0.611 U	0.611 U	0.611 U	0.611 U	0.611 U	0.611 U	0.611 U	0.611 U	0.611 U	0.611 U
Xylenes, Total	10000	13	10000	10000	10000	10000	--	--	--	--	--	--	--	--	--	--	--

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:		111 Kokomalei Street	432 Ohana Nui Circle	177 Kokomalei Street	121 Ilima Street	117 Aupaka Street	209 Puapilo Court	1012 Nehe Street	1012 Nehe Street
Field Sample ID:		220122-D3-FT05	220122-D3-GT01	220122-D3-GT02	220122-D3-GT03	220122-D3-GT04	220122-D3-HT01	220122-D3-HT02	220122-D3-HT03
Sample Date:		2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22
Sample Type:		N	N	N	N	N	N	N	FD
		DOH Environmental Action Levels Table D-1A			DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents			Environmental Protection Agency Maximum Contaminant Levels	
SVOC (µg/L)	Incident Specific Parameters	Groundwater Action Levels	DOH Environmental Action Levels	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	SDG: 810127901	SDG: 810127901
1-Methylnaphthalene	2.1	10	None	None	0.0190 U	0.0200 U	0.0190 U	0.0190 U	0.240 U
2-Methylnaphthalene	4.7	10	None	None	0.0190 U	0.0200 U	0.0190 U	0.0190 U	0.240 U
Benzo(a)pyrene	0.06	0.06	0.2	0.2	0.00970 U	0.00980 U	0.00960 U	0.00960 U	0.00950 U
Bis(2-ethylhexyl)phthalate	3	3	6	6	0.580 U	0.590 U	0.580 U	0.580 U	2.70 J
Naphthalene	12	17	None	None	0.0190 U	0.0200 U	0.0190 U	0.0190 U	0.240 U
		DOH Environmental Action Levels Table D-1A			DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents			Environmental Protection Agency Maximum Contaminant Levels	
VOC (µg/L)	Incident Specific Parameters	Groundwater Action Levels	DOH Environmental Action Levels	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	SDG: 810127901	SDG: 810127901
1,1,1-Trichloroethane	11	11	200	200	0.119 U	0.500 U	0.500 U	0.500 U	0.119 U
1,1,2-Trichloroethane	5	5	3	5	0.288 U	0.500 U	0.500 U	0.500 U	0.288 U
1,1-Dichloroethene	7	7	7	7	0.128 U	0.500 U	0.500 U	0.500 U	0.128 U
1,2,4-Trichlorobenzene	70	70	70	70	0.318 U	0.500 U	0.500 U	0.500 U	0.318 U
1,2-Dichlorobenzene	10	10	600	600	0.272 U	0.500 U	0.500 U	0.500 U	0.272 U
1,2-Dichloroethane	5	5	5	5	0.0884 U	0.500 U	0.500 U	0.500 U	0.0884 U
1,2-Dichloropropane	5	5	5	5	0.129 U	0.500 U	0.500 U	0.500 U	0.129 U
1,4-Dichlorobenzene	5	5	75	None	0.245 U	0.500 U	0.500 U	0.500 U	0.245 U
Benzene	5	5	5	5	0.0846 U	0.500 U	0.500 U	0.500 U	0.0846 U
Carbon Tetrachloride	5	5	5	5	0.165 U	0.500 U	0.500 U	0.500 U	0.165 U
Chlorobenzene	25	25	100	100	0.146 U	0.500 U	0.500 U	0.500 U	0.146 U
cis-1,2-Dichloroethene	70	70	70	70	0.0570 U	0.500 U	0.500 U	0.500 U	0.0570 U
Ethylbenzene	700	7.3	700	700	0.141 U	0.500 U	0.500 U	0.500 U	0.141 U
m,p-Xylene	10000	13	None	None	0.317 U	0.500 U	0.500 U	0.500 U	0.317 U
Methylene chloride	5	5	5	5	2.15 U	0.500 U	0.500 U	0.500 U	2.15 U
o-Xylene	10000	13	None	None	0.157 U	0.500 U	0.500 U	0.500 U	0.157 U
Styrene	10	10	100	100	0.224 U	0.500 U	0.500 U	0.500 U	0.224 U
Tetrachloroethene (PCE)	5	5	5	5	0.125 U	0.500 U	0.500 U	0.500 U	0.125 U
Toluene	1000	9.8	1000	1000	0.120 U	0.500 U	0.500 U	0.500 U	0.120 U
trans-1,2-Dichloroethene	100	100	100	100	0.0958 U	0.500 U	0.500 U	0.500 U	0.0958 U
Trichloroethene (TCE)	5	5	5	5	0.0574 U	0.500 U	0.500 U	0.500 U	0.0574 U
Vinyl chloride	2	2	2	2	0.611 U	0.500 U	0.500 U	0.500 U	0.611 U
Xylenes, Total	10000	13	10000	10000	--	0.500 U	0.500 U	--	--

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:									
981 Ohana Nui Circle 354 Ohana Nui Circle 408 Ohana Nui Circle 401 Pakalana Street 401 Pakalana Street 731 Ohana Nui Circle 1021 Ohana Nui Circle 513 Ohana Nui Circle									
Field Sample ID:									
220122-D3-HT04 220122-D3-HT05 220122-D3-HT06 220122-D3-IT01 220122-D3-IT02 220122-D3-IT03 220122-D3-IT04 220122-D3-IT05									
Sample Date:									
2022-01-22 2022-01-22 2022-01-22 2022-01-22 2022-01-22 2022-01-22 2022-01-22 2022-01-22									
Sample Type:									
N N N N FD N N N									
Incident Specific Parameters		DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels					
SVOC (µg/L)			SDG: DA41140R	SDG: DA41140	SDG: DA41140	SDG: 810127901	SDG: 810127901	SDG: 810127901	SDG: 810127901
1-Methylnaphthalene	2.1	10	None	0.250 U	0.240 U	0.0200 U	0.0190 U	0.0200 U	0.0190 U
2-Methylnaphthalene	4.7	10	None	0.250 U	0.240 U	0.0200 U	0.0190 U	0.0200 U	0.0190 U
Benzo(a)pyrene	0.06	0.06	0.2	0.00950 U	0.00960 U	0.00980 U	0.00970 U	0.00980 U	0.00970 U
Bis(2-ethylhexyl)phthalate	3	3	6	0.920 U	0.380 U	0.590 U	0.580 U	0.590 U	0.580 U
Naphthalene	12	17	None	0.250 U	0.240 U	0.0200 U	0.0190 U	0.0200 U	0.0190 U
Incident Specific Parameters		DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels					
VOC (µg/L)			SDG: C22A046	SDG: C22A046	SDG: C22A046	SDG: C22A046	SDG: C22A046	SDG: C22A046	SDG: C22A046
1,1,1-Trichloroethane	11	11	200	0.119 U	0.119 U	0.119 U	0.119 U	0.119 U	0.119 U
1,1,2-Trichloroethane	5	5	3	0.288 U	0.288 U	0.288 U	0.288 U	0.288 U	0.288 U
1,1-Dichloroethene	7	7	7	0.128 U	0.128 U	0.128 U	0.128 U	0.128 U	0.128 U
1,2,4-Trichlorobenzene	70	70	70	0.318 U	0.318 U	0.318 U	0.318 U	0.318 U	0.318 U
1,2-Dichlorobenzene	10	10	600	0.272 U	0.272 U	0.272 U	0.272 U	0.272 U	0.272 U
1,2-Dichloroethane	5	5	5	0.0884 U	0.0884 U	0.0884 U	0.0884 U	0.0884 U	0.0884 U
1,2-Dichloropropane	5	5	5	0.129 U	0.129 U	0.129 U	0.129 U	0.129 U	0.129 U
1,4-Dichlorobenzene	5	5	75	0.245 U	0.245 U	0.245 U	0.245 U	0.245 U	0.245 U
Benzene	5	5	5	0.0846 U	0.0846 U	0.0846 U	0.0846 U	0.0846 U	0.0846 U
Carbon Tetrachloride	5	5	5	0.165 U	0.165 U	0.165 U	0.165 U	0.165 U	0.165 U
Chlorobenzene	25	25	100	0.146 U	0.146 U	0.146 U	0.146 U	0.146 U	0.146 U
cis-1,2-Dichloroethene	70	70	70	0.0570 U	0.0570 U	0.0570 U	0.0570 U	0.0570 U	0.0570 U
Ethylbenzene	700	7.3	700	0.141 U	0.141 U	0.141 U	0.141 U	0.141 U	0.141 U
m,p-Xylene	10000	13	None	0.317 U	0.317 U	0.317 U	0.317 U	0.317 U	0.317 U
Methylene chloride	5	5	5	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U
o-Xylene	10000	13	None	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U
Styrene	10	10	100	0.224 U	0.224 U	0.224 U	0.224 U	0.224 U	0.224 U
Tetrachloroethene (PCE)	5	5	5	0.125 U	0.125 U	0.125 U	0.125 U	0.125 U	0.125 U
Toluene	1000	9.8	1000	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U	0.120 U
trans-1,2-Dichloroethene	100	100	100	0.0958 U	0.0958 U	0.0958 U	0.0958 U	0.0958 U	0.0958 U
Trichloroethene (TCE)	5	5	5	0.0574 U	0.0574 U	0.0574 U	0.0574 U	0.0574 U	0.0574 U
Vinyl chloride	2	2	2	0.611 U	0.611 U	0.611 U	0.611 U	0.611 U	0.611 U
Xylenes, Total	10000	13	10000	--	--	--	--	--	--

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:		451 Ohana Nui Circle		82 Kokio Lane		171 Kokomalei Street		171 Kokomalei Street		131 Ohana Nui Circle		214 Melia Street		151 Ohana Nui Circle		121 Kokomalei Street	
Field Sample ID:		220122-D3-JT01		220122-D3-JT02		220122-D3-JT03		220122-D3-JT04		220122-D3-JT05		220122-D3-KT01		220122-D3-KT02		220122-D3-KT03	
Sample Date:		2022-01-22		2022-01-22		2022-01-22		2022-01-22		2022-01-22		2022-01-22		2022-01-22		2022-01-22	
Sample Type:		N		N		N		FD		N		N		N		N	
SVOC (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels		SDG: DA41140		SDG: DA41140R		SDG: DA41140		SDG: 810127901		SDG: 810127901	
		Action Levels		None		None		0.240 U		0.240 U		0.240 U		0.0200 U		0.0200 U	
1-Methylnaphthalene	2.1	10		None		None		0.240 U		0.240 U		0.240 U		0.0200 U		0.0200 U	
2-Methylnaphthalene	4.7	10		None		None		0.240 U		0.240 U		0.0200 U		0.0200 U		0.0200 U	
Benzo(a)pyrene	0.06	0.06		0.2		0.2		0.00960 U		0.00950 U		0.00960 U		0.00980 U		0.00980 U	
Bis(2-ethylhexyl)phthalate	3	3		6		6		0.390 U		0.380 U		0.380 U		0.590 U		0.590 U	
Naphthalene	12	17		None		None		0.240 U		0.240 U		0.240 U		0.0200 U		0.0200 U	
VOC (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels		SDG: C22A046		SDG: C22A046		SDG: C22A046		SDG: DA41140		SDG: DA41140	
		Action Levels		200		200		0.119 U		0.119 U		0.119 U		0.500 U		0.500 U	
1,1,1-Trichloroethane	11	11		3		5		0.288 U		0.288 U		0.288 U		0.500 U		0.500 U	
1,1,2-Trichloroethane	5	5		7		7		0.128 U		0.128 U		0.128 U		0.500 U		0.500 U	
1,1-Dichloroethene	7	70		600		600		0.272 U		0.272 U		0.272 U		0.500 U		0.500 U	
1,2,4-Trichlorobenzene	10	10		5		5		0.0884 U		0.0884 U		0.0884 U		0.500 U		0.500 U	
1,2-Dichlorobenzene	5	5		5		5		0.129 U		0.129 U		0.129 U		0.500 U		0.500 U	
1,2-Dichloropropane	5	5		75		None		0.245 U		0.245 U		0.245 U		0.500 U		0.500 U	
1,4-Dichlorobenzene	5	5		5		5		0.0846 U		0.0846 U		0.0846 U		0.500 U		0.500 U	
Benzene	5	5		5		5		0.165 U		0.165 U		0.165 U		0.500 U		0.500 U	
Carbon Tetrachloride	5	5		100		100		0.146 U		0.146 U		0.146 U		0.500 U		0.500 U	
Chlorobenzene	25	70		700		700		0.0570 U		0.0570 U		0.0570 U		0.500 U		0.500 U	
cis-1,2-Dichloroethene	70	7.3		None		None		0.141 U		0.141 U		0.141 U		0.500 U		0.500 U	
Ethylbenzene	700	13		5		5		0.317 U		0.317 U		0.317 U		0.500 U		0.500 U	
m,p-Xylene	10000	5		None		None		2.15 U		2.15 U		2.15 U		0.500 U		0.500 U	
Methylene chloride	5	13		100		100		0.157 U		0.157 U		0.157 U		0.500 U		0.500 U	
o-Xylene	10000	10		5		5		0.224 U		0.224 U		0.224 U		0.500 U		0.500 U	
Styrene	10	5		1000		1000		0.125 U		0.125 U		0.125 U		0.500 U		0.500 U	
Tetrachloroethene (PCE)	5	9.8		100		100		0.0958 U		0.0958 U		0.0958 U		0.500 U		0.500 U	
Toluene	1000	100		5		5		0.611 U		0.611 U		0.611 U		0.500 U		0.500 U	
trans-1,2-Dichloroethene	100	2		10000		10000		--		--		0.500 U		0.500 U		0.500 U	
Trichloroethene (TCE)	5	13		10000		10000		--		--		0.500 U		0.500 U		0.500 U	
Vinyl chloride	2	10000		10000		10000		--		--		0.500 U		0.500 U		0.500 U	
Xylenes, Total	10000	13		10000		10000		--		--		0.500 U		0.500 U		0.500 U	

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:		Building 3950, Trinity Missionary Baptist Church	1041 Ohana Nui Circle	Building 1, Assets School	Building 3950, Trinity Missionary Baptist Church	114 Puuloa Circle	352 Ohana Nui Circle	Building 1309H,MOKULELE ELEM BLDG A, 250 Aupaka St	Building 1309H,MOKULELE ELEM BLDG A, 250 Aupaka St
Field Sample ID:		220122-D3-KT04	220122-D3-LT01	220122-D3-LT02	220122-D3-LT03	220122-D3-LT04	D3-TW-1362356- 22020-N	D3-TW-2201001- 22020-N-01	D3-TW-2201001- 22020-N-02
Sample Date:		2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-22	2022-01-24	2022-01-24	2022-01-24
Sample Type:		N	N	N	N	N	N	N	N
		DOH Environmental Action Levels Table D-1A		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels			
SVOC (µg/L)	Incident Specific Parameters	Action Levels						SDG: 810127901	SDG: 810127901
1-Methylnaphthalene	2.1	10	None	None	None	None	0.0190 U	0.0190 U	0.0200 U
2-Methylnaphthalene	4.7	10	None	None	None	None	0.0190 U	0.0190 U	0.0200 U
Benzo(a)pyrene	0.06	0.06	0.2	0.2	0.2	0.2	0.00970 U	0.00970 U	0.00980 U
Bis(2-ethylhexyl)phthalate	3	3	6	6	6	6	0.580 U	0.580 U	0.590 U
Naphthalene	12	17	None	None	None	None	0.0190 U	0.0190 U	0.0200 U
		DOH Environmental Action Levels Table D-1A		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels			
VOC (µg/L)	Incident Specific Parameters	Action Levels					SDG: DA41140	SDG: DA41140	SDG: DA41140
1,1,1-Trichloroethane	11	11	200	200	200	200	0.500 U	0.500 U	0.500 U
1,1,2-Trichloroethane	5	5	3	3	5	5	0.500 U	0.500 U	0.500 U
1,1-Dichloroethene	7	7	7	7	7	7	0.500 U	0.500 U	0.500 U
1,2,4-Trichlorobenzene	70	70	70	70	70	70	0.500 U	0.500 U	0.500 U
1,2-Dichlorobenzene	10	10	600	600	600	600	0.500 U	0.500 U	0.500 U
1,2-Dichloroethane	5	5	5	5	5	5	0.500 U	0.500 U	0.500 U
1,2-Dichloropropane	5	5	5	5	5	5	0.500 U	0.500 U	0.500 U
1,4-Dichlorobenzene	5	5	75	75	None	None	0.500 U	0.500 U	0.500 U
Benzene	5	5	5	5	5	5	0.500 U	0.500 U	0.500 U
Carbon Tetrachloride	5	5	5	5	5	5	0.500 U	0.500 U	0.500 U
Chlorobenzene	25	25	100	100	100	100	0.500 U	0.500 U	0.500 U
cis-1,2-Dichloroethene	70	70	70	70	70	70	0.500 U	0.500 U	0.500 U
Ethylbenzene	700	7.3	700	700	700	700	0.500 U	0.500 U	0.500 U
m,p-Xylene	10000	13	None	None	None	None	0.500 U	0.500 U	0.500 U
Methylene chloride	5	5	5	5	5	5	0.500 U	0.500 U	0.500 U
o-Xylene	10000	13	None	None	None	None	0.500 U	0.500 U	0.500 U
Styrene	10	10	100	100	100	100	0.500 U	0.500 U	0.500 U
Tetrachloroethene (PCE)	5	5	5	5	5	5	0.500 U	0.500 U	0.500 U
Toluene	1000	9.8	1000	1000	1000	1000	0.500 U	0.500 U	0.500 U
trans-1,2-Dichloroethene	100	100	100	100	100	100	0.500 U	0.500 U	0.500 U
Trichloroethene (TCE)	5	5	5	5	5	5	0.500 U	0.500 U	0.500 U
Vinyl chloride	2	2	2	2	2	2	0.500 U	0.500 U	0.500 U
Xylenes, Total	10000	13	10000	10000	10000	10000	0.500 U	0.500 U	--

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:	Building 1309H,MOKULELE ELEM BLDG A, 250 Aupaka St										Building 1309H,MOKULELE ELEM BLDG A, 250 Aupaka St	Building 830, Holy Family Catholic Academy	Building 830, Holy Family Catholic Academy	Building 1756H,AAFES MINI-MALL
Field Sample ID:	D3-TW-2201001-22020-N-03										D3-TW-2201001-22020-N-04	D3-TW-2201001-22020-N-05	D3-TW-2201003-22020-N	220126D3AT01
Sample Date:	2022-01-24										2022-01-24	2022-01-24	2022-01-26	2022-01-26
Sample Type:	N										N	N	N	N

Incident Specific Parameters		DOH Environmental Action Levels Table D-1A		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels								
		Groundwater Action Levels						SDG: DA41270	SDG: DA41270	SDG: DA41270	SDG: DA41344	SDG: DA41344	SDG: DA41344	SDG: 810132821
SVOC (µg/L)														
1-Methylnaphthalene	2.1	10		None		None		0.240 U	0.240 U	0.240 U	0.240 U	0.240 U	0.240 U	0.0190 U
2-Methylnaphthalene	4.7	10		None		None		0.240 U	0.240 U	0.240 U	0.240 U	0.240 U	0.240 U	0.0190 U
Benzo(a)pyrene	0.06	0.06		0.2		0.2		0.00960 U	0.00970 U	0.00950 U	0.00950 U	0.00950 U	0.00970 U	0.00970 U
Bis(2-ethylhexyl)phthalate	3	3		6		6		0.380 U	0.390 U	0.380 U	0.380 U	0.380 U	0.380 U	0.580 U
Naphthalene	12	17		None		None		0.240 U	0.240 U	0.240 U	0.240 U	0.240 U	0.240 U	0.0190 U

Incident Specific Parameters		DOH Environmental Action Levels Table D-1A		DOH Safe Drinking Water Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels								
		Groundwater Action Levels						SDG: DA41270	SDG: DA41270	SDG: DA41270	SDG: DA41344	SDG: DA41344	SDG: DA41344	SDG: 810132821
VOC (µg/L)														
1,1,1-Trichloroethane	11	11		200		200		0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
1,1,2-Trichloroethane	5	5		3		5		0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
1,1-Dichloroethene	7	7		7		7		0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
1,2,4-Trichlorobenzene	70	70		70		70		0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
1,2-Dichlorobenzene	10	10		600		600		0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
1,2-Dichloroethane	5	5		5		5		0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
1,2-Dichloropropane	5	5		5		5		0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
1,4-Dichlorobenzene	5	5		75		None		0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
Benzene	5	5		5		5		0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
Carbon Tetrachloride	5	5		5		5		0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.100 U
Chlorobenzene	25	25		100		100		0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
cis-1,2-Dichloroethene	70	70		70		70		0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
Ethylbenzene	700	7.3		700		700		0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
m,p-Xylene	10000	13		None		None		0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Methylene chloride	5	5		5		5		0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.400 U
o-Xylene	10000	13		None		None		0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
Styrene	10	10		100		100		0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
Tetrachloroethene (PCE)	5	5		5		5		0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
Toluene	1000	9.8		1000		1000		0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
trans-1,2-Dichloroethene	100	100		100		100		0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
Trichloroethene (TCE)	5	5		5		5		0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
Vinyl chloride	2	2		2		2		0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.200 U
Xylenes, Total	10000	13		10000		10000		--	--	--	0.500 U	0.500 U	0.500 U	0.500 U

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Residence:		Building 515, Pearl Harbor Church of Christ	Building 515, Pearl Harbor Church of Christ	Building 515, Pearl Harbor Church of Christ	Building 515, Pearl Harbor Church of Christ	Building 830, Holy Family Catholic Academy	Building 830, Holy Family Catholic Academy	Building 830, Holy Family Catholic Academy
Field Sample ID:		220126D3HT01	220126-D3-HT01	220126D3HT02	220126-D3-HT02	220126D3HT03	220126D3HT04	220126D3HT05
Sample Date:		2022-01-26	2022-01-26	2022-01-26	2022-01-26	2022-01-26	2022-01-26	2022-01-26
Sample Type:		N	N	N	N	N	N	N
		DOH Environmental Action Levels Table D-1A Groundwater		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels		
SVOC (µg/L)	Incident Specific Parameters	Action Levels		Regulatory Constituents		Maximum Levels		SDG: 810132821
1-Methylnaphthalene	2.1	10	None	None	--	None	0.0200 U	0.0200 U
2-Methylnaphthalene	4.7	10	None	None	--	None	0.0200 U	0.0200 U
Benzo(a)pyrene	0.06	0.06	0.2	0.2	--	0.2	0.00990 U	0.00980 U
Bis(2-ethylhexyl)phthalate	3	3	6	6	--	6	0.590 U	0.590 U
Naphthalene	12	17	None	None	--	None	0.0200 U	0.0200 U
		DOH Environmental Action Levels Table D-1A Groundwater		DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents		Environmental Protection Agency Maximum Contaminant Levels		
VOC (µg/L)	Incident Specific Parameters	Action Levels		Regulatory Constituents		Maximum Levels		SDG: 810132821
1,1,1-Trichloroethane	11	11	200	200	--	200	0.200 U	0.200 U
1,1,2-Trichloroethane	5	5	3	3	--	5	0.200 U	0.200 U
1,1-Dichloroethene	7	7	7	7	--	7	0.200 U	0.200 U
1,2,4-Trichlorobenzene	70	70	70	70	--	70	0.200 U	0.200 U
1,2-Dichlorobenzene	10	10	600	600	--	600	0.200 U	0.200 U
1,2-Dichloroethane	5	5	5	5	--	5	0.200 U	0.200 U
1,2-Dichloropropane	5	5	5	5	--	5	0.200 U	0.200 U
1,4-Dichlorobenzene	5	5	75	75	--	None	0.200 U	0.200 U
Benzene	5	5	5	5	--	5	0.200 U	0.200 U
Carbon Tetrachloride	5	5	5	5	--	5	0.100 U	0.100 U
Chlorobenzene	25	25	100	100	--	100	0.200 U	0.200 U
cis-1,2-Dichloroethene	70	70	70	70	--	70	0.200 U	0.200 U
Ethylbenzene	700	7.3	700	700	--	700	0.200 U	0.200 U
m,p-Xylene	10000	13	None	None	--	None	0.500 U	0.500 U
Methylene chloride	5	5	5	5	--	5	0.400 U	0.400 U
o-Xylene	10000	13	None	None	--	None	0.200 U	0.200 U
Styrene	10	10	100	100	--	100	0.200 U	0.200 U
Tetrachloroethene (PCE)	5	5	5	5	--	5	0.200 U	0.200 U
Toluene	1000	9.8	1000	1000	--	1000	0.200 U	0.200 U
trans-1,2-Dichloroethene	100	100	100	100	--	100	0.200 U	0.200 U
Trichloroethene (TCE)	5	5	5	5	--	5	0.200 U	0.200 U
Vinyl chloride	2	2	2	2	--	2	0.200 U	0.200 U
Xylenes, Total	10000	13	10000	10000	--	10000	0.500 U	0.500 U

Table Residential Sampling Report for Flushing Zone
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Notes:

-- indicates that the sample was Not Analyzed for the analyte

Results highlighted yellow exceed the ISP
Results in purple font also exceed the EALS
Results in green font also exceed the DOH MCL
Results in blue font also exceed the EPA MCL
Results from G1/G3 sampling, where the G3 result is greater than the G1 result, have a red border and the associated G1/G3 result in parentheses for comparison

µg/L = Micrograms per Liter

March 11, 2022

From: Naval Facilities Engineering Systems Command Representative, IDWS Team
To: Interagency Drinking Water System Team

SUBJ: ZONE D3 EXCEEDANCE INVESTIGATION SUMMARY AND RESAMPLE RESULTS

Encl: (1) Zone D3 Exceedance Investigation Sample Results
(2) Post Office Distribution Center Sample Results

1. Enclosure (1) contains the exceedance sample results for Zone D3. There were four exceedances above the ISP of 2 ppm for total organic carbon (TOC) between 2 and 3 ppm. The IDWST reviewed the sample results in their entirety and determined that no further action was required regarding TOC. During the review of the flushing and sampling test results, the IDWST realized that building 3600 which is the USPS Distribution Center was inadvertently missed in the flushing of facilities. In order to address, the IDWST recommended that the facility be sampled, flushed, and resampled. Enclosure (2) contains both test results which were below incident specific parameters (ISPs) and maximum contaminant levels (MCLs). The IDWST determined that no further action beyond long term monitoring sampling for Zone D3 was required.

2. I certify under penalty of law that I have personally examined and I am familiar with the information submitted and the submitted information is true, accurate, and complete.

MENO.MICHAEL.WAYNE.JR.
EL.WAYNE.JR.
1088310035

Digitally signed by
MENO.MICHAEL.WAYNE.JR.
YNEJR.1088310035
Date: 2022.03.11
07:26:05 -10'00'

M. W. Meno
Captain, U.S. Navy Civil Engineer Corps

Zone D3 Exceedance Report
D3 Zone Residential DW Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Location ID:	D3-BLDG1330H	D3-OHAN0561	D3-WELA0271	D3-WELA0271
Location Type:	Child Development Center	Residence	Residence	Residence
Residence:	Building 1330H,YOUTH CENTER, 234 Melick Ave	561 Ohana Nui Circle	271 Wela Loop	271 Wela Loop
Field Sample ID:	220120-D3-DT02	220122-D3-CT03	220121-D3-GT01	220121-D3-GT02
Sample Date:	2022-01-21	2022-01-22	2022-01-21	2022-01-21
Sample Type:	N	N	N	FD

GENCHEM (mg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels	SDG: C22A043	SDG: C22A046	SDG: C22A045	SDG: C22A045
Total Organic Carbon	2	None	None	None	2.58 J	2.35	2.10 J	2.44 J

Notes:

-- indicates that the sample was Not Analyzed for the analyte

Results highlighted yellow exceed the ISP
Results in purple font also exceed the EALs
Results in green font also exceed the DOH MCL
Results in blue font also exceed the EPA MCL

mg/L = Milligrams per Liter

Zone D3 Post Office Distribution Center Sample Results

D3 Zone DW Additional Sampling

Chemistry Results

Drinking Water Sampling, JBPHH, Oahu Hawaii

Location ID:	D3-BLDG3600	D3-BLDG3600	D3-BLDG3600	D3-BLDG3600
Location Type:	Non-Residence	Non-Residence	Non-Residence	Non-Residence
Residence:	Airport Post Office, 3600 Aolele Street	Airport Post Office, 3600 Aolele Street	Airport Post Office, 3600 Aolele Street	Airport Post Office, 3600 Aolele Street
Field Sample ID:	D3-TW-0017830-22062-N	D3-TW-0017830-22062-N-1	D3-TW-0017830-22062-N-1-R1	D3-TW-0017830-22062-N-R1
Sample Date:	2022-03-03	2022-03-03	2022-03-05	2022-03-05
Sample Type:	N	N	N	N

GENCHEM (mg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels	SDG: DA42560	SDG: DA42560	SDG: DA42583	SDG: DA42583
Total Organic Carbon	2	None	None	None	0.370 J	0.540	0.530	0.480 J

HC (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels	SDG: DA42560	SDG: DA42560	SDG: 5801110782	SDG: 5801110782
Petroleum Hydrocarbons (as Diesel)	200	400	None	None	64.0 J	61.6 J	91.0 U	92.0 U
Petroleum Hydrocarbons (as Gasoline)	200	300	None	None	40.0 U	40.0 U	31.0 U	31.0 U
Petroleum Hydrocarbons (as Motor Oil)	200	500	None	None	52.0 U	52.0 U	180 U	180 U
Total Petroleum Hydrocarbons	211				64	61.6	--	--

HG (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels	SDG: DA42560	SDG: DA42560	SDG: DA42583	SDG: DA42583
Mercury	2	0.025	2	2	0.0250 U	0.0250 U	0.0250 U	0.0250 U

METAL (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels	SDG: DA42560	SDG: DA42560	SDG: DA42583	SDG: DA42583
Antimony	6	6	6	6	0.100 U	0.100 U	0.100 U	0.100 U
Arsenic	10	10	10	10	0.500 U	0.690 J	0.500 U	0.500 U
Barium	2000	220	2000	2000	2.80	3.10	2.70	2.90
Beryllium	4	0.66	4	4	0.150 U	0.150 U	0.150 U	0.150 U
Cadmium	5	3	5	5	0.0500 UJ	0.0500 UJ	0.0500 U	0.0500 U
Chromium	100	11	100	100	1.70 J	1.90 J	1.90 J	2.00
Copper	1300	2.9	1300	1300	130	11.6	162	17.3
Lead	15	5.6	15	15	0.470 J	0.130 U	0.890	0.130 U
Selenium	50	5	50	50	0.300 U	0.300 U	0.300 U	0.300 U
Thallium	2	2	2	2	0.0590 J	0.0500 U	0.0500 U	0.0500 U

SVOC (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels	SDG: DA42560	SDG: DA42560	SDG: DA42583	SDG: DA42583
1-Methylnaphthalene	10	10	None	None	0.240 U	0.240 U	0.240 U	0.240 U

Zone D3 Post Office Distribution Center Sample Results

D3 Zone DW Additional Sampling

Chemistry Results

Drinking Water Sampling, JBPHH, Oahu Hawaii

Location ID:	D3-BLDG3600	D3-BLDG3600	D3-BLDG3600	D3-BLDG3600
Location Type:	Non-Residence	Non-Residence	Non-Residence	Non-Residence
Residence:	Airport Post Office, 3600 Aoiele Street	Airport Post Office, 3600 Aoiele Street	Airport Post Office, 3600 Aoiele Street	Airport Post Office, 3600 Aoiele Street
Field Sample ID:	D3-TW-0017830-22062-N	D3-TW-0017830-22062-N-1	D3-TW-0017830-22062-N-1-R1	D3-TW-0017830-22062-N-R1
Sample Date:	2022-03-03	2022-03-03	2022-03-05	2022-03-05
Sample Type:	N	N	N	N

SVOC (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels	SDG: DA42560	SDG: DA42560	SDG: DA42583	SDG: DA42583
2-Methylnaphthalene	10	10	None	None	0.240 U	0.240 U	0.240 U	0.240 U
Benzo(a)pyrene	0.2	0.06	0.2	0.2	0.00950 U	0.00970 U	0.00950 U	0.00950 U
Bis(2-ethylhexyl)phthalate	6	3	6	6	0.380 U	0.390 U	0.380 U	0.380 U
Naphthalene	17	17	None	None	0.240 U	0.240 U	0.240 U	0.240 U

VOC (µg/L)	Incident Specific Parameters	DOH Environmental Action Levels Table D-1A Groundwater	DOH Safe Drinking Water Branch (SDWB) Regulatory Constituents	Environmental Protection Agency Maximum Contaminant Levels	SDG: DA42560	SDG: DA42560	SDG: DA42583	SDG: DA42583
1,1,1-Trichloroethane	200	11	200	200	0.500 U	0.500 U	0.500 U	0.500 U
1,1,2-Trichloroethane	5	5	5	5	0.500 U	0.500 U	0.500 U	0.500 U
1,1-Dichloroethene	7	7	7	7	0.500 U	0.500 U	0.500 U	0.500 U
1,2,4-Trichlorobenzene	70	70	70	70	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dichlorobenzene	600	10	600	600	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dichloroethane	5	5	5	5	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dichloropropane	5	5	5	5	0.500 U	0.500 U	0.500 U	0.500 U
1,4-Dichlorobenzene	75	5	75	None	0.500 U	0.500 U	0.500 U	0.500 U
Benzene	5	5	5	5	0.500 U	0.500 U	0.500 U	0.500 U
Carbon Tetrachloride	5	5	5	5	0.500 U	0.500 U	0.500 U	0.500 U
Chlorobenzene	100	25	100	100	0.500 U	0.500 U	0.500 U	0.500 U
cis-1,2-Dichloroethene	70	70	70	70	0.500 U	0.500 U	0.500 U	0.500 U
Ethylbenzene	700	7.3	700	700	0.500 U	0.500 U	0.500 U	0.500 U
m,p-Xylene	10000	13	None	None	0.500 U	0.500 U	0.500 U	0.500 U
Methylene chloride	5	5	5	5	0.500 U	0.500 U	0.500 U	0.500 U
o-Xylene	10000	13	None	None	0.500 U	0.500 U	0.500 U	0.500 U
Styrene	100	10	100	100	0.500 U	0.500 U	0.500 U	0.500 U
Tetrachloroethene (PCE)	5	5	5	5	0.500 U	0.500 U	0.500 U	0.500 U
Toluene	1000	9.8	1000	1000	0.500 U	0.500 U	0.500 U	0.500 U
trans-1,2-Dichloroethene	100	100	100	100	0.500 U	0.500 U	0.500 U	0.500 U
Trichloroethene (TCE)	5	5	5	5	0.500 U	0.500 U	0.500 U	0.500 U
Vinyl chloride	2	2	2	2	0.500 U	0.500 U	0.500 U	0.500 U
Xylenes, Total	10000	13	10000	10000	0.500 U	0.500 U	0.500 U	0.500 U

Notes:

-- indicates that the sample was Not Analyzed for the analyte

JBPHH.ChemCrossTab_AllLimits

March 11, 2022

Zone D3 Post Office Distribution Center Sample Results
D3 Zone DW Additional Sampling
Chemistry Results
Drinking Water Sampling, JBPHH, Oahu Hawaii

Results highlighted yellow exceed the ISP
Results in purple font also exceed the EALs
Results in green font also exceed the DOH MCL
Results in blue font also exceed the EPA MCL
Results from G1/G3 sampling, where the G3 result is greater than the G1 result, have a red border and the associated G1/G3 result in parentheses for comparison

µg/L = Micrograms per Liter



DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND, HAWAII
400 MARSHALL ROAD
JBPHH, HAWAII 96860-3139

11000
Ser PWO/0096
February 25, 2022

Interagency Drinking Water System Team

SUBJECT: CERTIFICATION OF IRRIGATION LINE FLUSHING – JOINT BASE
PEARL HARBOR-HICKAM - ZONE D3

ENCL: (1) Dept. of Health Irrigation System Flushing Guidance

On behalf of the United States Department of the Navy, operator of the Joint Base Pearl Harbor-Hickam Public Water System (PWS ID No. 360 Water System), and in connection with and pursuant to the removal action required by the DOH Hazard Evaluation and Emergency Response Office Incident Case No. 20211128-1848, the undersigned certifies that the Navy has made all necessary inquiry into their Water System and represents and warrants as set forth below.

Landscape irrigation systems in Zone D3, generally known as the Earhart Housing area, have been operated and flushed following Enclosure (1), and subsequent to the approved distribution line flushing conducted in December, 2021.

The undersigned has due authority to deliver this Certification on behalf of the Navy.

Sincerely,

HARMEYER.RANDALL
.ERNEST.1186692663

Digitally signed by
HARMEYER.RANDALL.ERNEST.11
86692663
Date: 2022.02.25 13:02:24 -10'00'

R. E. HARMEYER
Captain, CEC, U.S. Navy
Public Works Officer
By Direction
of the Commanding Officer

DOH guidance for active irrigation line purging/flushing

Given the minimal quantities and concentration of fuel contamination in the irrigation lines, along with the expected degradation due to time, the following guidance lines are being provided:

System operator responsibility:

- Determine what the irrigation system pipe size is (for volume calculations).
- Calculate the approximate amount of time needed to complete 3 volumetric turnovers of the subject line (est. duration per foot).
- Assess how long each line will need to be purged/flushed based on the above estimates.
- Notify community.
- Cover or otherwise minimize any spray from the system (traffic cone) in order to prevent contact.
- Purge irrigation system under supervision for the estimated duration.
- Allow ground to absorb and dry.
- Notify residents to avoid area for the next 24 hours.
- Prevent/minimize any runoff.
- Prevent contact with the irrigation water.

Enclosure (1)

DOH Guidance for Active Irrigation Line Purging and Flushing

Given the minimal quantities and concentration of fuel contamination in the irrigation lines, along with the expected degradation due to time, the following guidance lines are being provided:

System operator responsibility:

- Determine what the irrigation system pipe size is (for volume calculations).
- Calculate the approximate amount of time needed to complete 3 volumetric turnovers of the subject line (est. duration per foot).
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- Notify community.
- Cover or otherwise minimize any spray from the system (traffic cone) in order to prevent contact.
- Purge irrigation system under supervision for the estimated duration.
- Allow ground to absorb and dry.
- Notify residents to avoid area for the next 24 hours.
- Prevent/minimize any runoff.
- Prevent contact with the irrigation water.

Navy/Army must develop a standard operating procedure incorporating the above guidance and provide training to personnel responsible for execution of the irrigation line purging/flushing.