

**Summary of Chemistry Results
Zone C3 Long Term Monitoring
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii**

Drinking Water Samples Collected in June 2022 from Residences in Zone C3

Notes:
ND = Not Detected
ISP = Incident Specific Parameter
EAL = DOH Environmental Action Level
EPA MCL = EPA Maximum Contaminant Level
All Results shown in Parts per Billion (ppb)
§ - Exceeds Screening Level
-- = No Information Available
N (Normal) = Full compliance sample
FD (Field Duplicate) = Extra sample taken for quality control
N (Grab, Resample) = Additional follow-up sample

Location ID:	C3-FORD2166
Location Type:	Residence
Address:	2166 Ford Island Way
Field Sample ID:	C3-TW-0015816-22137-N
Sample Date:	2022-06-10
Sample Type:	N (Normal)

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Result
Field Test (ppb)	Free Chlorine	4000	MCL	370
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND
	Petroleum Hydrocarbons (as Motor Oil)	--	--	ND
	Petroleum Hydrocarbons, Total	211	ISP	ND
Metals (ppb)	Antimony	6	MCL	ND
	Arsenic	10	MCL	ND
	Barium	2000	MCL	2.10
	Beryllium	4	MCL	ND
	Cadmium	5	MCL	ND
	Chromium	100	MCL	0.650
	Copper	1300	MCL	9.10
	Lead	15	MCL	ND
	Mercury	2	MCL	ND
	Selenium	50	MCL	ND
Synthetic Organic Compounds (ppb)	Thallium	2	MCL	ND
	1-Methylnaphthalene	10	EAL	ND
	2-Methylnaphthalene	10	EAL	ND
	Benzo(a)pyrene	0.2	MCL	ND
	Bis(2-ethylhexyl)phthalate	6	MCL	ND
Volatile Organic Compounds (ppb)	Naphthalene	17	EAL	ND
	1,1,1-Trichloroethane	--	--	ND
	1,1,2-Trichloroethane	5	MCL	ND
	1,1-Dichloroethene	7	MCL	ND

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Location Type:	Residence
Address:	2166 Ford Island Way
Field Sample ID:	C3-TW-0015816-22137-N
Sample Date:	2022-06-10
Sample Type:	N (Normal)

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	
Volatile Organic Compounds (ppb)	1,2,4-Trichlorobenzene	70	MCL	ND
	1,2-Dichlorobenzene	600	MCL	ND
	1,2-Dichloroethane	5	MCL	ND
	1,2-Dichloroethene	70	MCL	ND
	1,2-Dichloropropane	5	MCL	ND
	1,4-Dichlorobenzene	75	MCL	ND
	Benzene	5	MCL	ND
	Carbon Tetrachloride	5	MCL	ND
	Chlorobenzene	100	MCL	ND
	cis-1,2-Dichloroethene	70	MCL	ND
	Ethylbenzene	700	MCL	ND
	m,p-Xylene	--	--	ND
	Methylene chloride	5	MCL	ND
	o-Xylene	--	--	ND
	Styrene	100	MCL	ND
	Tetrachloroethene (PCE)	5	MCL	ND
	Toluene	1000	MCL	ND
	trans-1,2-Dichloroethene	100	MCL	ND
	Trichloroethene (TCE)	5	MCL	ND
	Vinyl chloride	2	MCL	ND
Xylenes, Total	10000	MCL	ND	
Haloacetic Acids (ppb)	Bromoacetic acid	--	--	ND
	Chloroacetic acid	--	--	ND
	Dibromoacetic acid	--	--	ND
	Dichloroacetic acid	--	--	ND

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Location Type:	Residence
Address:	2166 Ford Island Way
Field Sample ID:	C3-TW-0015816-22137-N
Sample Date:	2022-06-10
Sample Type:	N (Normal)

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Result
Haloacetic Acids (ppb)	Trichloroacetic acid	--	--	ND
	Total Haloacetic acids	60	MCL	ND
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND
	Bromoform	--	--	0.960
	Chloroform	--	--	ND
	Dibromochloromethane	--	--	0.820
	Total Trihalomethanes	80	MCL	1.80

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Drinking Water Samples Collected in June 2022 from Other Buildings in Zone C3

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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Location ID:	C3-BLDG0067		C3-BLDG0092	C3-BLDG0135	C3-BLDG0154	C3-BLDG0174	C3-BLDG0315	
				C3-BLDG0012	Non-Residence		Non-Residence	Non-Residence	Non-Residence	Non-Residence	Non-Residence	
				Location Type:	Non-Residence		Non-Residence	Non-Residence	Non-Residence	Non-Residence	Non-Residence	
				Address:	Building 12,WOODSHOP (X68)	Building 67,INSIDE MACHINE SHOP (X31)		Building 92,TRADE & WELDING SCHOOL (X26)	Building 135,PUBLIC TOILET	Building 154,SAWMILL (X64)	Building 174,DJC2 FACILITY	Building 315,INDUSTRIAL X-RAY LAB
				Field Sample ID:	C3-TW-0015038-22137-N	C3-TW-0014919-22137-3-N	C3-TW-0014919-22137-N	C3-TW-0014924-22137-N	C3-TW-0014929-22137-N	C3-TW-0014936-22137-N	C3-TW-0014941-22137-N	C3-TW-0014952-22137-N
				Sample Date:	2022-06-14	2022-06-14	2022-06-14	2022-06-14	2022-06-14	2022-06-14	2022-06-10	2022-06-10
				Sample Type:	N (Normal)	FD (Field Duplicate)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)
Field Test (ppb)	Free Chlorine	4000	MCL	400	320	320	400	380	30.0	270	510	
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND	ND	ND	ND	ND	ND	ND	
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	50.1	ND	ND	58.5	ND	ND	ND	51.4	
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND	ND	ND	ND	ND	ND	ND	
	Petroleum Hydrocarbons (as Motor Oil)	--	--	ND	ND	ND	ND	ND	ND	ND	ND	
	Petroleum Hydrocarbons, Total	211	ISP	50.1	ND	ND	58.5	ND	ND	ND	51.4	
Metals (ppb)	Antimony	6	MCL	ND	0.170	ND	ND	ND	ND	ND	ND	
	Arsenic	10	MCL	ND	ND	ND	ND	ND	ND	ND	ND	
	Barium	2000	MCL	1.90	2.10	2.00	1.90	3.00	1.90	2.00	2.00	
	Beryllium	4	MCL	ND	ND	ND	ND	ND	ND	ND	ND	
	Cadmium	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND	
	Chromium	100	MCL	0.920	0.900	0.870	1.00	0.910	ND	0.610	0.870	
	Copper	1300	MCL	105	32.9	33.6	24.7	10.5	31.0	13.8	45.7	
	Lead	15	MCL	ND	0.160	0.130	ND	0.160	ND	0.340	0.870	
	Mercury	2	MCL	ND	ND	ND	ND	ND	ND	ND	ND	
	Selenium	50	MCL	ND	ND	ND	ND	ND	ND	ND	ND	
Synthetic Organic Compounds (ppb)	Thallium	2	MCL	ND	ND	ND	ND	ND	ND	ND	ND	
	1-Methylnaphthalene	10	EAL	ND	ND	ND	ND	ND	ND	ND	ND	
	2-Methylnaphthalene	10	EAL	ND	ND	ND	ND	ND	ND	ND	ND	
	Benzo(a)pyrene	0.2	MCL	ND	ND	ND	ND	ND	ND	ND	ND	
	Bis(2-ethylhexyl)phthalate	6	MCL	ND	ND	ND	ND	ND	ND	ND	ND	
Volatile Organic Compounds (ppb)	Naphthalene	17	EAL	ND	ND	ND	ND	ND	ND	ND	ND	
	1,1,1-Trichloroethane	--	--	ND	ND	ND	ND	ND	ND	ND	ND	
	1,1,2-Trichloroethane	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND	

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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Location ID:	C3-BLDG0067		C3-BLDG0092	C3-BLDG0135	C3-BLDG0154	C3-BLDG0174	C3-BLDG0315	
				C3-BLDG0012	Non-Residence		Non-Residence	Non-Residence	Non-Residence	Non-Residence	Non-Residence	
				Location Type:	Non-Residence		Non-Residence	Non-Residence	Non-Residence	Non-Residence	Non-Residence	
				Address:	Building 12,WOODSHOP (X68)	Building 67,INSIDE MACHINE SHOP (X31)		Building 92,TRADE & WELDING SCHOOL (X26)	Building 135,PUBLIC TOILET	Building 154,SAWMILL (X64)	Building 174,DJC2 FACILITY	Building 315,INDUSTRIAL X-RAY LAB
				Field Sample ID:	C3-TW-0015038-22137-N	C3-TW-0014919-22137-3-N	C3-TW-0014919-22137-N	C3-TW-0014924-22137-N	C3-TW-0014929-22137-N	C3-TW-0014936-22137-N	C3-TW-0014941-22137-N	C3-TW-0014952-22137-N
				Sample Date:	2022-06-14	2022-06-14	2022-06-14	2022-06-14	2022-06-14	2022-06-14	2022-06-10	2022-06-10
				Sample Type:	N (Normal)	FD (Field Duplicate)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)
Volatile Organic Compounds (ppb)	1,1-Dichloroethene	7	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,4-Trichlorobenzene	70	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	600	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethene	70	MCL	ND	ND	ND	ND	ND	ND	ND	--	--
	1,2-Dichloropropane	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene	75	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	100	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	70	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	700	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND
	m,p-Xylene	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methylene chloride	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND
	o-Xylene	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	100	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene (PCE)	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Toluene	1000	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	100	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene (TCE)	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Xylenes, Total	10000	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Haloacetic Acids (ppb)	Bromoacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND

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				C3-BLDG0012	Non-Residence		Non-Residence	Non-Residence	Non-Residence	Non-Residence	Non-Residence	
				Location Type:	Non-Residence		Non-Residence	Non-Residence	Non-Residence	Non-Residence	Non-Residence	
				Address:	Building 12,WOODSHOP (X68)	Building 67,INSIDE MACHINE SHOP (X31)		Building 92,TRADE & WELDING SCHOOL (X26)	Building 135,PUBLIC TOILET	Building 154,SAWMILL (X64)	Building 174,DJC2 FACILITY	Building 315,INDUSTRIAL X-RAY LAB
				Field Sample ID:	C3-TW-0015038-22137-N	C3-TW-0014919-22137-3-N	C3-TW-0014919-22137-N	C3-TW-0014924-22137-N	C3-TW-0014929-22137-N	C3-TW-0014936-22137-N	C3-TW-0014941-22137-N	C3-TW-0014952-22137-N
				Sample Date:	2022-06-14	2022-06-14	2022-06-14	2022-06-14	2022-06-14	2022-06-14	2022-06-10	2022-06-10
				Sample Type:	N (Normal)	FD (Field Duplicate)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)
Haloacetic Acids (ppb)	Dibromoacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Total Haloacetic acids	60	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform	--	--	1.10	1.10	1.10	0.740	1.50	7.00	0.810	ND	ND
	Chloroform	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	--	--	0.640	0.910	0.890	0.630	1.20	1.20	ND	ND	ND
	Total Trihalomethanes	80	MCL	1.80	2.00	2.00	1.40	2.70	8.10	0.810	ND	ND

**Summary of Chemistry Results
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Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii**

Drinking Water Samples Collected in June 2022 from Fire Hydrants in Zone C3

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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Location ID: C3-HYD1026			Location ID: C3-HYD2298	
				Field Sample ID: C3-DL-0000538-22137-3-N	Field Sample ID: C3-DL-0000538-22137-N	Field Sample ID: C3-DL-0017798-22137-N	Field Sample ID: C3-DL-0017798-22137-N	Field Sample ID: C3-DL-0017798-22137-N
				Location Type: Hydrant	Location Type: Hydrant	Location Type: Hydrant	Location Type: Hydrant	Location Type: Hydrant
				Address: FH ID: 230	Address: FH ID: 230	Address: FH ID: 230	Address: FH ID: 230	Address: FH ID: 230
				Sample Date: 2022-06-10	Sample Date: 2022-06-10	Sample Date: 2022-06-10	Sample Date: 2022-06-10	Sample Date: 2022-06-10
				Sample Type: FD (Field Duplicate)	Sample Type: N (Normal)	Sample Type: N (Grab, Resample)	Sample Type: N (Normal)	Sample Type: N (Grab, Resample)
Field Test (ppb)	Free Chlorine	4000	MCL	160	160	160	270	270
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND	--	ND	--
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	ND	--	70.7	--
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND	--	ND	--
	Petroleum Hydrocarbons (as Motor Oil)	--	--	ND	ND	--	ND	--
	Petroleum Hydrocarbons, Total	211	ISP	ND	ND	--	70.7	--
Metals (ppb)	Antimony	6	MCL	ND	ND	--	ND	--
	Arsenic	10	MCL	ND	ND	--	ND	--
	Barium	2000	MCL	2.00	2.00	--	2.10	--
	Beryllium	4	MCL	ND	ND	--	ND	--
	Cadmium	5	MCL	ND	ND	--	ND	--
	Chromium	100	MCL	0.980	0.650	--	0.680	--
	Copper	1300	MCL	1.70	1.60	--	12.0	--
	Lead	15	MCL	0.180	0.200	--	0.200	--
	Mercury	2	MCL	ND	ND	--	ND	--
	Selenium	50	MCL	ND	ND	--	ND	--
Synthetic Organic Compounds (ppb)	Thallium	2	MCL	ND	ND	--	ND	--
	1-Methylnaphthalene	10	EAL	ND	ND	--	ND	--
	2-Methylnaphthalene	10	EAL	ND	ND	--	ND	--
	Benzo(a)pyrene	0.2	MCL	ND	ND	--	ND	--
	Bis(2-ethylhexyl)phthalate	6	MCL	ND	ND	--	ND	--
Volatile Organic Compounds (ppb)	Naphthalene	17	EAL	ND	ND	--	ND	--
	1,1,1-Trichloroethane	--	--	ND	--	ND	--	ND
	1,1,2-Trichloroethane	5	MCL	ND	--	ND	--	ND
	1,1-Dichloroethene	7	MCL	ND	--	ND	--	ND

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Drinking Water Samples Collected in June 2022 from Fire Hydrants in Zone C3

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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Location ID: C3-HYD1026		Location ID: C3-HYD2298		
				Location Type: Hydrant	Address: FH ID: 230	Location Type: Hydrant	Address: C2-FH177	
				Field Sample ID: C3-DL-0000538-22137-3-N	Field Sample ID: C3-DL-0000538-22137-N	Field Sample ID: C3-DL-0017798-22137-N	Field Sample ID: C3-DL-0017798-22137-N	
				Sample Date: 2022-06-10	Sample Date: 2022-06-10	Sample Date: 2022-06-10	Sample Date: 2022-06-10	
				Sample Type: FD (Field Duplicate)	Sample Type: N (Normal)	Sample Type: N (Grab, Resample)	Sample Type: N (Normal)	
				Sample Type: N (Normal)	Sample Type: N (Grab, Resample)	Sample Type: N (Normal)	Sample Type: N (Grab, Resample)	
Volatile Organic Compounds (ppb)	1,2,4-Trichlorobenzene	70	MCL	ND	--	ND	--	ND
	1,2-Dichlorobenzene	600	MCL	ND	--	ND	--	ND
	1,2-Dichloroethane	5	MCL	ND	--	ND	--	ND
	1,2-Dichloropropane	5	MCL	ND	--	ND	--	ND
	1,4-Dichlorobenzene	75	MCL	ND	--	ND	--	ND
	Benzene	5	MCL	ND	--	ND	--	ND
	Carbon Tetrachloride	5	MCL	ND	--	ND	--	ND
	Chlorobenzene	100	MCL	ND	--	ND	--	ND
	cis-1,2-Dichloroethene	70	MCL	ND	--	ND	--	ND
	Ethylbenzene	700	MCL	ND	--	ND	--	ND
	m,p-Xylene	--	--	ND	--	ND	--	ND
	Methylene chloride	5	MCL	ND	--	ND	--	ND
	o-Xylene	--	--	ND	--	ND	--	ND
	Styrene	100	MCL	ND	--	ND	--	ND
	Tetrachloroethene (PCE)	5	MCL	ND	--	ND	--	ND
	Toluene	1000	MCL	ND	--	ND	--	ND
	trans-1,2-Dichloroethene	100	MCL	ND	--	ND	--	ND
	Trichloroethene (TCE)	5	MCL	ND	--	ND	--	ND
	Vinyl chloride	2	MCL	ND	--	ND	--	ND
	Xylenes, Total	10000	MCL	ND	--	ND	--	ND
Haloacetic Acids (ppb)	Bromoacetic acid	--	--	ND	ND	--	ND	--
	Chloroacetic acid	--	--	ND	ND	--	ND	--
	Dibromoacetic acid	--	--	ND	ND	--	ND	--
	Dichloroacetic acid	--	--	ND	ND	--	ND	--
	Trichloroacetic acid	--	--	ND	ND	--	ND	--

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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Location ID: C3-HYD1026		Location ID: C3-HYD2298		
				Location Type: Hydrant	Address: FH ID: 230	Location Type: Hydrant	Address: C2-FH177	
				Field Sample ID: C3-DL-0000538-22137-3-N	Field Sample ID: C3-DL-0000538-22137-N	Field Sample ID: C3-DL-0017798-22137-N	Field Sample ID: C3-DL-0017798-22137-N	
				Sample Date: 2022-06-10	Sample Date: 2022-06-10	Sample Date: 2022-06-10	Sample Date: 2022-06-10	
				Sample Type: FD (Field Duplicate)	Sample Type: N (Normal)	Sample Type: N (Grab, Resample)	Sample Type: N (Normal)	Sample Type: N (Grab, Resample)
Haloacetic Acids (ppb)	Total Haloacetic acids	60	MCL	ND	ND	--	ND	--
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	--	ND	--	0.630
	Bromoform	--	--	1.00	--	0.970	--	3.30
	Chloroform	--	--	ND	--	ND	--	ND
	Dibromochloromethane	--	--	ND	--	0.710	--	2.10
	Total Trihalomethanes	80	MCL	1.00	--	1.70	--	6.00