

Summary of Chemistry Results
Zone C2 Long Term Monitoring
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii

Drinking Water Samples Collected in January - March 2024 from Hydrants in Zone C2

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
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		Location ID:		C2-HYD1230			C2-HYD2089	C2-HYD421	C2-HYD424	C2-HYD650	C2-HYD656
		Location Type:		Hydrant			Hydrant	Hydrant	Hydrant	Hydrant	Hydrant
		Address:		C2-FH209B			C2-FH204	C2-FH246	FH ID: 315	Hydrant 268	Hydrant 301
		Field Sample ID:		C2-DL-0017792-23342 -N	C2-DL-0017792-23342 -3-N	C2-DL-0017792-23342 -N-P	C2-DL-0017795-23342 -N	C2-DL-0017796-23342 -N	C2-DL-0000534-23342 -N	C2-DL-0017794-23342 -N	C2-DL-0017793-23342 -N
		Sample Date:		2024-03-08	2024-03-08	2024-03-08	2024-02-20	2024-02-20	2024-02-20	2024-02-20	2024-02-20
		Sample Type:		N (Normal)	FD (Field Duplicate)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level								
Field Test (ppb)	Free Chlorine	4000	MCL	110	110	110	50.0	300	360	460	100
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND	ND	ND	270	ND	ND	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	ND	ND	ND	ND	ND	ND	ND
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND	ND	ND	ND	ND	ND	ND
	Petroleum Hydrocarbons (as Oil)	--	--	ND	ND	ND	ND	ND	ND	ND	ND
	Petroleum Hydrocarbons, Total	266	ISP	ND	ND	ND	ND	ND	ND	ND	ND
Metals (ppb)	Antimony	6	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	10	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Barium	2000	MCL	4.50	4.30	4.30	2.70	1.90	2.00	2.10	1.50
	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	0.500	0.570	1.30	ND	ND	ND	ND	ND
	Mercury	2	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Selenium	50	MCL	0.370	0.360	ND	0.390	0.440	0.650	0.460	ND
	Thallium	2	MCL	ND	ND	ND	0.0570	ND	ND	ND	ND
Synthetic Organic Compounds (ppb)	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
	Naphthalene	17	EAL	ND	ND	ND	ND	ND	ND	ND	ND
Volatile Organic Compounds (ppb)	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
	1,1-Dichloroethene	7	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,4-Trichlorobenzene	70	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	600	MCL	ND	ND	ND	ND	ND	ND	ND	ND

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				Location Type:	Hydrant			Hydrant	Hydrant	Hydrant	Hydrant	Hydrant
				Address:	C2-FH209B			C2-FH204	C2-FH246	FH ID: 315	Hydrant 268	Hydrant 301
				Field Sample ID:	C2-DL-0017792-23342-N	C2-DL-0017792-23342-3-N	C2-DL-0017792-23342-N-P	C2-DL-0017795-23342-N	C2-DL-0017796-23342-N	C2-DL-0000534-23342-N	C2-DL-0017794-23342-N	C2-DL-0017793-23342-N
				Sample Date:	2024-03-08	2024-03-08	2024-03-08	2024-02-20	2024-02-20	2024-02-20	2024-02-20	2024-02-20
				Sample Type:	N (Normal)	FD (Field Duplicate)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level									
Volatile Organic Compounds (ppb)	1,2-Dichloroethane	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethene (Total)	70	MCL	ND	ND	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
	Dibromoacetic acid	--	--	0.750	0.780	1.00	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	0.750	0.780	1.00	ND	ND	ND	ND	ND	ND

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				Location ID:	C2-HYD1230			C2-HYD2089	C2-HYD421	C2-HYD424	C2-HYD650	C2-HYD656
				Location Type:	Hydrant			Hydrant	Hydrant	Hydrant	Hydrant	Hydrant
				Address:	C2-FH209B			C2-FH204	C2-FH246	FH ID: 315	Hydrant 268	Hydrant 301
				Field Sample ID:	C2-DL-0017792-23342-N	C2-DL-0017792-23342-3-N	C2-DL-0017792-23342-N-P	C2-DL-0017795-23342-N	C2-DL-0017796-23342-N	C2-DL-0000534-23342-N	C2-DL-0017794-23342-N	C2-DL-0017793-23342-N
				Sample Date:	2024-03-08	2024-03-08	2024-03-08	2024-02-20	2024-02-20	2024-02-20	2024-02-20	2024-02-20
				Sample Type:	N (Normal)	FD (Field Duplicate)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)
				DOH Project Screening Level								
				Basis of Project Screening Level								
Method Group	Analyte											
Trihalomethanes (ppb)	Bromodichloromethane	--	--	0.320	0.290	ND	ND	ND	ND	0.290	ND	
	Bromoform	--	--	3.80	3.90	3.40	3.90	ND	ND	0.710	0.520	
	Chloroform	--	--	ND	ND	ND	ND	ND	ND	ND	ND	
	Dibromochloromethane	--	--	1.30	1.20	1.30	0.470	ND	ND	0.640	ND	
	Total Trihalomethanes	80	MCL	5.42	5.39	4.70	4.37	ND	ND	1.64	0.520	

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Drinking Water Samples Collected in January - March 2024 from Hydrants in Zone C2

				Location ID:	C2-HYD660
				Location Type:	Hydrant
				Address:	Hydrant 303
				Field Sample ID:	C2-DL-0017797-23342-N
				Sample Date:	2024-01-31
				Sample Type:	N (Normal)
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level		
Field Test (ppb)	Free Chlorine	4000	MCL	630	
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	
	Petroleum Hydrocarbons (as Oil)	--	--	ND	
	Petroleum Hydrocarbons, Total	266	ISP	ND	
Metals (ppb)	Antimony	6	MCL	ND	
	Arsenic	10	MCL	ND	
	Barium	2000	MCL	2.00	
	Beryllium	4	MCL	ND	
	Cadmium	5	MCL	ND	
	Chromium	100	MCL	0.580	
	Mercury	2	MCL	ND	
	Selenium	50	MCL	0.710	
	Thallium	2	MCL	ND	
Synthetic Organic Compounds (ppb)	1-Methylnaphthalene	10	EAL	ND	
	2-Methylnaphthalene	10	EAL	ND	
	Benzo(a)pyrene	0.2	MCL	ND	
	Bis(2-ethylhexyl)phthalate	6	MCL	ND	
	Naphthalene	17	EAL	ND	
Volatile Organic Compounds (ppb)	1,1,1-Trichloroethane	--	--	ND	
	1,1,2-Trichloroethane	5	MCL	ND	
	1,1-Dichloroethene	7	MCL	ND	
	1,2,4-Trichlorobenzene	70	MCL	ND	
	1,2-Dichlorobenzene	600	MCL	ND	

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			Location ID:	C2-HYD660
			Location Type:	Hydrant
			Address:	Hydrant 303
			Field Sample ID:	C2-DL-0017797-23342-N
			Sample Date:	2024-01-31
			Sample Type:	N (Normal)
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	
Volatile Organic Compounds (ppb)	1,2-Dichloroethane	5	MCL	ND
	1,2-Dichloroethene (Total)	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
	Trichloroacetic acid	--	--	ND
	Total Haloacetic acids	60	MCL	ND

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				Location ID:	C2-HYD660
				Location Type:	Hydrant
				Address:	Hydrant 303
				Field Sample ID:	C2-DL-0017797-23342-N
				Sample Date:	2024-01-31
				Sample Type:	N (Normal)
		DOH Project Screening Level	Basis of Project Screening Level		
Method Group	Analyte				
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	
	Bromoform	--	--	0.260	
	Chloroform	--	--	ND	
	Dibromochloromethane	--	--	ND	
	Total Trihalomethanes	80	MCL	0.260	

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Summary of Chemistry Results
Zone C2 Long Term Monitoring
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii

Drinking Water Samples Collected in January - March 2024 from Medical Buildings in Zone C2

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N (Grab, Resample) = Additional follow-up sample

		Location ID:	C2-BLDG1750	
		Location Type:	Medical Building	
		Address:	Building 1750,SHIPYARD MEDICAL CLINIC- PEARL HARBOR, 490 Central Ave	
		Field Sample ID:	C2-TW-0014833- 23342-N	
		Sample Date:	2024-02-20	
		Sample Type:	N (Normal)	
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	
Field Test (ppb)	Free Chlorine	4000	MCL	80.0
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND
	Petroleum Hydrocarbons (as Oil)	--	--	ND
	Petroleum Hydrocarbons, Total	266	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	ND
	Copper	1300	MCL	134
	Lead	15	MCL	0.590
	Mercury	2	MCL	ND
	Selenium	50	MCL	ND
	Thallium	2	MCL	ND
Synthetic Organic Compounds (ppb)	1-Methylnaphthalene	10	EAL	ND
	2-Methylnaphthalene	10	EAL	ND
	Benzo(a)pyrene	0.2	MCL	ND
	Bis(2-ethylhexyl)phthalate	6	MCL	ND
	Naphthalene	17	EAL	ND

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				Location ID:	C2-BLDG1750
				Location Type:	Medical Building
				Address:	Building 1750,SHIPYARD MEDICAL CLINIC- PEARL HARBOR, 490 Central Ave
				Field Sample ID:	C2-TW-0014833- 23342-N
				Sample Date:	2024-02-20
				Sample Type:	N (Normal)
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level		
Volatile Organic Compounds (ppb)	1,1,1-Trichloroethane	--	--	ND	
	1,1,2-Trichloroethane	5	MCL	ND	
	1,1-Dichloroethene	7	MCL	ND	
	1,2,4-Trichlorobenzene	70	MCL	ND	
	1,2-Dichlorobenzene	600	MCL	ND	
	1,2-Dichloroethane	5	MCL	ND	
	1,2-Dichloroethene (Total)	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	

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			Location ID:	C2-BLDG1750
			Location Type:	Medical Building
			Address:	Building 1750,SHIPYARD MEDICAL CLINIC- PEARL HARBOR, 490 Central Ave
			Field Sample ID:	C2-TW-0014833- 23342-N
			Sample Date:	2024-02-20
			Sample Type:	N (Normal)
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	
Volatile Organic Compounds (ppb)	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
	Trichloroacetic acid	--	--	ND
	Total Haloacetic acids	60	MCL	ND
Trihalomethanes (ppb)	Bromodichloromethane	--	--	0.270
	Bromoform	--	--	1.10
	Chloroform	--	--	ND
	Dibromochloromethane	--	--	0.650
	Total Trihalomethanes	80	MCL	2.02