

**Summary of Chemistry Results
Zone G1 Long Term Monitoring
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii**

Drinking Water Samples collected in May 2022 from Residences in Zone G1

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

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	G1-ANDE0751	G1-BAUG2165
				Location ID: G1-ANDE0751	G1-BAUG2165
				Location Type: Residence	Residence
				Address: 751 Anderson Road	2165 Baugh Road
				Field Sample ID: G1-TW-0009358-22122-N	G1-TW-0009364-22122-N
				Sample Date: 2022-05-16	2022-05-16
				Sample Type: N (Normal)	N (Normal)
Field Test (ppb)	Free Chlorine	4000	MCL	10.0	170
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	ND
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND
	Petroleum Hydrocarbons (as Motor Oil)	--	--	ND	ND
	Petroleum Hydrocarbons, Total	211	ISP	ND	ND
Metals (ppb)	Antimony	6	MCL	ND	ND
	Arsenic	10	MCL	ND	0.530
	Barium	2000	MCL	3.60	4.60
	Beryllium	4	MCL	ND	ND
	Cadmium	5	MCL	ND	ND
	Chromium	100	MCL	0.900	0.960
	Copper	1300	MCL	17.9	13.3
	Lead	15	MCL	0.270	0.260
	Mercury	2	MCL	ND	0.0510
	Selenium	50	MCL	ND	ND
Synthetic Organic Compounds (ppb)	Thallium	2	MCL	ND	ND
	1-Methylnaphthalene	10	EAL	ND	ND
	2-Methylnaphthalene	10	EAL	ND	ND
	Benzo(a)pyrene	0.2	MCL	ND	ND
	Bis(2-ethylhexyl)phthalate	6	MCL	ND	ND
Volatile Organic Compounds (ppb)	Naphthalene	17	EAL	ND	ND
	1,1,1-Trichloroethane	--	--	ND	ND
	1,1,2-Trichloroethane	5	MCL	ND	ND
	1,1-Dichloroethene	7	MCL	ND	ND

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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Location ID:	Location Type:	Address:	Field Sample ID:	Sample Date:	Sample Type:
				G1-ANDE0751	Residence	751 Anderson Road	G1-TW-0009358-22122-N	2022-05-16	N (Normal)
				G1-BAUG2165	Residence	2165 Baugh Road	G1-TW-0009364-22122-N	2022-05-16	N (Normal)
Volatile Organic Compounds (ppb)	1,2,4-Trichlorobenzene	70	MCL	ND	ND				
	1,2-Dichlorobenzene	600	MCL	ND	ND				
	1,2-Dichloroethane	5	MCL	ND	ND				
	1,2-Dichloroethene	70	MCL	ND	ND				
	1,2-Dichloropropane	5	MCL	ND	ND				
	1,4-Dichlorobenzene	75	MCL	ND	ND				
	Benzene	5	MCL	ND	ND				
	Carbon Tetrachloride	5	MCL	ND	ND				
	Chlorobenzene	100	MCL	ND	ND				
	cis-1,2-Dichloroethene	70	MCL	ND	ND				
	Ethylbenzene	700	MCL	ND	ND				
	m,p-Xylene	--	--	ND	ND				
	Methylene chloride	5	MCL	ND	ND				
	o-Xylene	--	--	ND	ND				
	Styrene	100	MCL	ND	ND				
	Tetrachloroethene (PCE)	5	MCL	ND	ND				
	Toluene	1000	MCL	ND	ND				
	trans-1,2-Dichloroethene	100	MCL	ND	ND				
	Trichloroethene (TCE)	5	MCL	ND	ND				
	Vinyl chloride	2	MCL	ND	ND				
	Xylenes, Total	10000	MCL	ND	ND				
Haloacetic Acids (ppb)	Bromoacetic acid	--	--	ND	ND				
	Chloroacetic acid	--	--	ND	ND				
	Dibromoacetic acid	--	--	ND	1.50				
	Dichloroacetic acid	--	--	ND	ND				

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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Location Information	
				Location ID	Location Type
				G1-ANDE0751	G1-BAUG2165
				Residence	Residence
				751 Anderson Road	2165 Baugh Road
				G1-TW-0009358-22122-N	G1-TW-0009364-22122-N
				2022-05-16	2022-05-16
				N (Normal)	N (Normal)
Haloacetic Acids (ppb)	Trichloroacetic acid	--	--	ND	ND
	Total Haloacetic acids	60	MCL	ND	1.50
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	0.690
	Bromoform	--	--	3.50	6.80
	Chloroform	--	--	ND	ND
	Dibromochloromethane	--	--	1.70	2.90
	Total Trihalomethanes	80	MCL	5.20	10.4

**Summary of Chemistry Results
Zone G1 Long Term Monitoring
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii**

Drinking Water Samples collected in May 2022 from Other Buildings in Zone G1

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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Location ID: G1-BLDG0020A		G1-BLDG002C	G1-BLDG003AA	
				Location Type: Non-Residence		Non-Residence	Non-Residence	
				Address: Building 20A, ADMINISTRATIVE OFFICE		Building 2C, EDUCATIONAL SRVCS OFFICE	Building 3AA, ADMINISTRATIVE OFFICE	
				Field Sample ID:	G1-TW-0017542-22122-3-N	G1-TW-0017542-22122-N	G1-TW-0017546-22122-N	G1-TW-0017549-22122-N
				Sample Date:	2022-05-16	2022-05-16	2022-05-16	2022-05-16
				Sample Type:	FD (Field Duplicate)	N (Normal)	N (Normal)	N (Normal)
Field Test (ppb)	Free Chlorine	4000	MCL	110	110	40.0	180	
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND	ND	ND	
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	ND	ND	ND	
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND	ND	ND	
	Petroleum Hydrocarbons (as Motor Oil)	--	--	ND	ND	ND	ND	
	Petroleum Hydrocarbons, Total	211	ISP	ND	ND	ND	ND	
Metals (ppb)	Antimony	6	MCL	ND	0.120	ND	0.110	
	Arsenic	10	MCL	ND	ND	ND	ND	
	Barium	2000	MCL	3.00	3.10	3.20	2.60	
	Beryllium	4	MCL	ND	ND	ND	ND	
	Cadmium	5	MCL	ND	ND	ND	ND	
	Chromium	100	MCL	0.810	0.920	0.810	1.10	
	Copper	1300	MCL	3.80	5.20	23.8	40.7	
	Lead	15	MCL	ND	ND	0.160	0.160	
	Mercury	2	MCL	0.0400	ND	0.0550	ND	
	Selenium	50	MCL	ND	0.860	0.380	0.860	
Synthetic Organic Compounds (ppb)	Thallium	2	MCL	ND	ND	ND	ND	
	1-Methylnaphthalene	10	EAL	ND	ND	ND	ND	
	2-Methylnaphthalene	10	EAL	ND	ND	ND	ND	
	Benzo(a)pyrene	0.2	MCL	ND	ND	ND	ND	
	Bis(2-ethylhexyl)phthalate	6	MCL	ND	ND	ND	ND	
Volatile Organic Compounds (ppb)	Naphthalene	17	EAL	ND	ND	ND	ND	
	1,1,1-Trichloroethane	--	--	ND	ND	ND	ND	
	1,1,2-Trichloroethane	5	MCL	ND	ND	ND	ND	

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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Location ID: G1-BLDG0020A		G1-BLDG002C	G1-BLDG003AA
				Location Type: Non-Residence		Non-Residence	Non-Residence
				Address: Building 20A, ADMINISTRATIVE OFFICE		Building 2C, EDUCATIONAL SRVCS OFFICE	Building 3AA, ADMINISTRATIVE OFFICE
				Field Sample ID:	G1-TW-0017542-22122-3-N	G1-TW-0017542-22122-N	G1-TW-0017546-22122-N
				Sample Date:	2022-05-16	2022-05-16	2022-05-16
				Sample Type:	FD (Field Duplicate)	N (Normal)	N (Normal)
Volatile Organic Compounds (ppb)	1,1-Dichloroethene	7	MCL	ND	ND	ND	ND
	1,2,4-Trichlorobenzene	70	MCL	ND	ND	ND	ND
	1,2-Dichlorobenzene	600	MCL	ND	ND	ND	ND
	1,2-Dichloroethane	5	MCL	ND	ND	ND	ND
	1,2-Dichloroethene	70	MCL	ND	ND	ND	ND
	1,2-Dichloropropane	5	MCL	ND	ND	ND	ND
	1,4-Dichlorobenzene	75	MCL	ND	ND	ND	ND
	Benzene	5	MCL	ND	ND	ND	ND
	Carbon Tetrachloride	5	MCL	ND	ND	ND	ND
	Chlorobenzene	100	MCL	ND	ND	ND	ND
	cis-1,2-Dichloroethene	70	MCL	ND	ND	ND	ND
	Ethylbenzene	700	MCL	ND	ND	ND	ND
	m,p-Xylene	--	--	ND	ND	ND	ND
	Methylene chloride	5	MCL	ND	ND	ND	ND
	o-Xylene	--	--	ND	ND	ND	ND
	Styrene	100	MCL	ND	ND	ND	ND
	Tetrachloroethene (PCE)	5	MCL	ND	ND	ND	ND
	Toluene	1000	MCL	ND	ND	ND	ND
	trans-1,2-Dichloroethene	100	MCL	ND	ND	ND	ND
	Trichloroethene (TCE)	5	MCL	ND	ND	ND	ND
Vinyl chloride	2	MCL	ND	ND	ND	ND	
Xylenes, Total	10000	MCL	ND	ND	ND	ND	
Haloacetic Acids (ppb)	Bromoacetic acid	--	--	ND	ND	ND	ND
	Chloroacetic acid	--	--	ND	ND	ND	ND

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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Location Information																	
				Location ID	Location Type	Address	Field Sample ID	Sample Date	Sample Type												
				G1-BLDG0020A	Non-Residence	Building 20A, ADMINISTRATIVE OFFICE	G1-TW-0017542-22122-3-N	2022-05-16	FD (Field Duplicate)	G1-BLDG002C	Non-Residence	Building 2C, EDUCATIONAL SRVCS OFFICE	G1-TW-0017542-22122-N	2022-05-16	N (Normal)	G1-BLDG003AA	Non-Residence	Building 3AA, ADMINISTRATIVE OFFICE	G1-TW-0017549-22122-N	2022-05-16	N (Normal)
Haloacetic Acids (ppb)	Dibromoacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Total Haloacetic acids	60	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Bromoform	--	--	3.70	3.70	2.60	2.40	3.70	3.70	2.60	2.40	3.70	3.70	2.60	2.40	3.70	3.70	2.60	2.40	3.70	3.70
	Chloroform	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	--	--	1.80	1.60	1.40	1.10	1.80	1.60	1.40	1.10	1.80	1.60	1.40	1.10	1.80	1.60	1.40	1.10	1.80	1.60
	Total Trihalomethanes	80	MCL	5.50	5.30	4.00	3.50	5.50	5.30	4.00	3.50	5.50	5.30	4.00	3.50	5.50	5.30	4.00	3.50	5.50	5.30

**Summary of Chemistry Results
Zone G1 Long Term Monitoring
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii**

Drinking Water Samples collected in May 2022 from Fire Hydrants in Zone G1

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Location ID:	G1-HYD879
Location Type:	Hydrant
Address:	FH ID: 3
Field Sample ID:	G1-DL-0000616-22122-N
Sample Date:	2022-05-16
Sample Type:	N (Normal)

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Result
Field Test (ppb)	Free Chlorine	4000	MCL	160
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	0.670
	Barium	2000	MCL	4.00
	Beryllium	4	MCL	ND
	Cadmium	5	MCL	ND
	Chromium	100	MCL	0.940
	Copper	1300	MCL	2.20
	Lead	15	MCL	0.170
	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 ID:	G1-HYD879
Location Type:	Hydrant
Address:	FH ID: 3
Field Sample ID:	G1-DL-0000616-22122-N
Sample Date:	2022-05-16
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	--	--	1.30
	Dichloroacetic acid	--	--	ND

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Location Type:	Hydrant
Address:	FH ID: 3
Field Sample ID:	G1-DL-0000616-22122-N
Sample Date:	2022-05-16
Sample Type:	N (Normal)

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	
Haloacetic Acids (ppb)	Trichloroacetic acid	--	--	ND
	Total Haloacetic acids	60	MCL	1.30
Trihalomethanes (ppb)	Bromodichloromethane	--	--	0.590
	Bromoform	--	--	5.90
	Chloroform	--	--	ND
	Dibromochloromethane	--	--	2.70
	Total Trihalomethanes	80	MCL	9.20