

Summary of Chemistry Results
Zone I1 Long Term Monitoring
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii

Drinking Water Samples collected in June-November 2023 from Residences in Zone I1

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

		Location ID:	I1-BEAR1403	I1-CONI1726	I1-CONI1727	I1-COWS1602	I1-COWS1604	I1-EAGL1302		I1-HUDS1206	
		Location Type:	Residence	Residence	Residence	Residence	Residence	Residence		Residence	
		Address:	1403 Bear Circle	1726 Conifer Place	1727 Conifer Place	1602 Cowslip Lane	1604 Cowslip Lane	1302 Eagle Circle		1206 Hudson Circle	
		Field Sample ID:	I1-TW-0014050-23130 -A-T	I1-TW-0014063-23130 -A	I1-TW-0014064-23130 -A	I1-TW-0014072-23130 -A-T	I1-TW-0014073-23130 -A	I1-TW-0014083-23130 -A	I1-TW-0014083-23130 -3-A	I1-TW-0014093-23130 -A	
		Sample Date:	2023-08-24	2023-10-27	2023-10-27	2023-06-30	2023-10-27	2023-07-13	2023-07-13	2023-07-13	
		Sample Type:	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	FD (Field Duplicate)	N (Normal)	
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level								
Field Test (ppb)	Free Chlorine	4000	MCL	190	510	470	420	730	350	350	380
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND	ND	ND	ND	ND	ND	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	57.7	83.8	ND	67.0	92.4	99.4	71.8	71.9
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND	ND	ND	ND	ND	ND	ND
	Petroleum Hydrocarbons (as Oil)	--	--	ND	68.7	ND	ND	ND	ND	ND	ND
	Petroleum Hydrocarbons, Total	266	ISP	57.7	153	ND	67.0	92.4	99.4	71.8	71.9
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	1.80	3.50	3.60	3.50	3.50	3.20	3.30	3.30
	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	0.970	ND	ND	2.00	ND	0.760	0.790	0.750
	Copper	1300	MCL	30.1	12.0	10.8	1.30	6.00	1.90	1.90	4.80
	Lead	15	MCL	ND	0.200	0.460	0.250	0.250	ND	ND	0.200
	Mercury	2	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Selenium	50	MCL	1.00	2.00	2.60	ND	2.10	2.90	2.90	2.60
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
	1,1-Dichloroethene	7	MCL	ND	ND	ND	ND	ND	ND	ND	ND

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		Location ID:	I1-BEAR1403	I1-CONI1726	I1-CONI1727	I1-COWS1602	I1-COWS1604	I1-EAGL1302		I1-HUDS1206
		Location Type:	Residence	Residence	Residence	Residence	Residence	Residence		Residence
		Address:	1403 Bear Circle	1726 Conifer Place	1727 Conifer Place	1602 Cowslip Lane	1604 Cowslip Lane	1302 Eagle Circle		1206 Hudson Circle
		Field Sample ID:	I1-TW-0014050-23130 -A-T	I1-TW-0014063-23130 -A	I1-TW-0014064-23130 -A	I1-TW-0014072-23130 -A-T	I1-TW-0014073-23130 -A	I1-TW-0014083-23130 -A	I1-TW-0014083-23130 -3-A	I1-TW-0014093-23130 -A
		Sample Date:	2023-08-24	2023-10-27	2023-10-27	2023-06-30	2023-10-27	2023-07-13	2023-07-13	2023-07-13
		Sample Type:	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	FD (Field Duplicate)	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	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	600	MCL	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	5	MCL	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethene (Total)	70	MCL	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane	5	MCL	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene	75	MCL	ND	ND	ND	ND	ND	ND	ND
	Benzene	5	MCL	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	5	MCL	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	100	MCL	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	70	MCL	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	700	MCL	ND	ND	ND	ND	ND	ND	ND
	m,p-Xylene	--	--	ND	ND	ND	ND	ND	ND	ND
	Methylene chloride	5	MCL	ND	ND	ND	ND	ND	ND	ND
	o-Xylene	--	--	ND	ND	ND	ND	ND	ND	ND
	Styrene	100	MCL	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene (PCE)	5	MCL	ND	ND	ND	ND	ND	ND	ND
	Toluene	1000	MCL	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	100	MCL	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene (TCE)	5	MCL	ND	ND	ND	ND	ND	ND	ND
	Vinyl chloride	2	MCL	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	10000	MCL	ND	ND	ND	ND	ND	ND	ND	ND
Haloacetic Acids (ppb)	Bromoacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND
	Chloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND
	Dibromoacetic acid	--	--	ND	ND	ND	1.10	ND	1.10	1.20
	Dichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND

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		Location Type:	Residence	Residence	Residence	Residence	Residence	Residence		Residence	
		Address:	1403 Bear Circle	1726 Conifer Place	1727 Conifer Place	1602 Cowslip Lane	1604 Cowslip Lane	1302 Eagle Circle		1206 Hudson Circle	
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		Sample Date:	2023-08-24	2023-10-27	2023-10-27	2023-06-30	2023-10-27	2023-07-13	2023-07-13	2023-07-13	
		Sample Type:	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	FD (Field Duplicate)	N (Normal)	
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level								
Haloacetic Acids (ppb)	Trichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND	
	Total Haloacetic acids	60	MCL	ND	ND	ND	1.10	ND	1.10	1.20	1.10
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	ND	ND	0.620	ND	0.640	0.690	0.730
	Bromoform	--	--	ND	ND	0.340	4.70	ND	4.50	4.80	5.10
	Chloroform	--	--	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	--	--	ND	ND	0.340	2.50	ND	2.70	2.60	2.80
	Total Trihalomethanes	80	MCL	ND	ND	0.680	7.82	ND	7.84	8.09	8.63

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		Location ID:		I1-HUDS1217		I1-MADR1824		I1-PAPA1810		I1-TAMP1528		I1-TAMP1567		I1-TAMP1576		
		Location Type:		Residence		Residence		Residence		Residence		Residence		Residence		
		Address:		1217 Hudson Circle		1824 Madrona Place		1810 Papaw Place		1528 Tampa Drive		1567 Tampa Drive		1576 Tampa Drive		
		Field Sample ID:		I1-TW-0011958-23130 -A	I1-TW-0011958-23130 -3-A	I1-TW-0014109-23130 -A	I1-TW-0011949-23130 -A-T	I1-TW-0014127-23130 -A	I1-TW-0014127-23130 -3-A	I1-TW-0014019-23130 -A	I1-TW-0014023-23130 -A					
		Sample Date:		2023-08-24	2023-08-24	2023-09-26	2023-07-17	2023-09-26	2023-09-26	2023-07-13	2023-09-26					
		Sample Type:		N (Normal)	FD (Field Duplicate)	N (Normal)	N (Normal)	N (Normal)	FD (Field Duplicate)	N (Normal)	N (Normal)					
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level													
Field Test (ppb)	Free Chlorine	4000	MCL	370	370	630	390	170	170	410	830					
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND	ND	ND	ND	ND	ND	ND					
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	ND	139	ND	56.9	81.6	78.9	66.8					
	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	139	ND	56.9	81.6	78.9	66.8					
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	3.20	3.40	4.10	3.30	4.40	4.00	3.30	3.80					
	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	1.10	1.10	0.560	1.20	0.640	0.590	0.740	0.760					
	Copper	1300	MCL	3.70	3.00	4.70	2.90	4.80	4.70	3.70	6.40					
	Lead	15	MCL	0.260	0.220	0.490	0.150	0.640	0.610	0.400	0.270					
	Mercury	2	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND				
	Selenium	50	MCL	1.10	1.40	1.50	1.90	1.60	1.50	2.70	1.40					
Synthetic Organic Compounds (ppb)	Thallium	2	MCL	ND	ND	ND	ND	0.0990	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	0.790	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					
	1,1-Dichloroethene	7	MCL	ND	ND	ND	ND	ND	ND	ND	ND					

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		Location ID:		I1-HUDS1217		I1-MADR1824		I1-PAPA1810		I1-TAMP1528		I1-TAMP1567		I1-TAMP1576	
		Location Type:		Residence		Residence		Residence		Residence		Residence		Residence	
		Address:		1217 Hudson Circle		1824 Madrona Place		1810 Papaw Place		1528 Tampa Drive		1567 Tampa Drive		1576 Tampa Drive	
		Field Sample ID:		I1-TW-0011958-23130 -A	I1-TW-0011958-23130 -3-A	I1-TW-0014109-23130 -A	I1-TW-0011949-23130 -A-T	I1-TW-0014127-23130 -A	I1-TW-0014127-23130 -3-A	I1-TW-0014019-23130 -A	I1-TW-0014023-23130 -A				
		Sample Date:		2023-08-24	2023-08-24	2023-09-26	2023-07-17	2023-09-26	2023-09-26	2023-07-13	2023-09-26				
		Sample Type:		N (Normal)	FD (Field Duplicate)	N (Normal)	N (Normal)	N (Normal)	FD (Field Duplicate)	N (Normal)	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	600	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethane	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethene (Total)	70	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene	75	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	100	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	70	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	700	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	m,p-Xylene	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Methylene chloride	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	o-Xylene	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	100	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene (PCE)	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Toluene	1000	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	100	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene (TCE)	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Vinyl chloride	2	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	10000	MCL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Haloacetic Acids (ppb)	Bromoacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Chloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromoacetic acid	--	--	0.830	1.10	ND	1.30	ND	ND	ND	ND	1.10	ND	ND	ND
	Dichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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				Field Sample ID	Sample Date	Field Sample ID	Sample Date	Field Sample ID	Sample Date	Field Sample ID	Sample Date
				Residence		Residence	Residence	Residence		Residence	Residence
				1217 Hudson Circle		1824 Madrona Place	1810 Papaw Place	1528 Tampa Drive		1567 Tampa Drive	1576 Tampa Drive
				I1-TW-0011958-23130-A	I1-TW-0011958-23130-3-A	I1-TW-0014109-23130-A	I1-TW-0011949-23130-A-T	I1-TW-0014127-23130-A	I1-TW-0014127-23130-3-A	I1-TW-0014019-23130-A	I1-TW-0014023-23130-A
				2023-08-24	2023-08-24	2023-09-26	2023-07-17	2023-09-26	2023-09-26	2023-07-13	2023-09-26
				N (Normal)	FD (Field Duplicate)	N (Normal)	N (Normal)	N (Normal)	FD (Field Duplicate)	N (Normal)	N (Normal)
Haloacetic Acids (ppb)	Trichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND	ND
	Total Haloacetic acids	60	MCL	0.830	1.10	ND	1.30	ND	ND	1.10	ND
Trihalomethanes (ppb)	Bromodichloromethane	--	--	0.460	0.660	ND	0.750	ND	ND	0.690	ND
	Bromoform	--	--	3.40	5.30	0.640	5.10	0.440	0.340	4.80	ND
	Chloroform	--	--	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	--	--	1.70	2.70	0.420	2.90	0.340	0.330	2.60	ND
	Total Trihalomethanes	80	MCL	5.56	8.66	1.06	8.75	0.780	0.670	8.09	ND

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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	I1-TAMP1612	I1-TAMP1691
				Location ID: I1-TAMP1612	Location ID: I1-TAMP1691
				Location Type: Residence	Location Type: Residence
				Address: 1612 Tampa Drive	Address: 1691 Tampa Drive
				Field Sample ID: I1-TW-0014030-23130-A-T	Field Sample ID: I1-TW-0014036-23130-A
				Sample Date: 2023-06-30	Sample Date: 2023-07-13
				Sample Type: N (Normal)	Sample Type: N (Normal)
Field Test (ppb)	Free Chlorine	4000	MCL	390	360
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	74.4	65.7
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND
	Petroleum Hydrocarbons (as Oil)	--	--	ND	ND
	Petroleum Hydrocarbons, Total	266	ISP	74.4	65.7
Metals (ppb)	Antimony	6	MCL	ND	ND
	Arsenic	10	MCL	ND	ND
	Barium	2000	MCL	3.50	3.20
	Beryllium	4	MCL	ND	ND
	Cadmium	5	MCL	ND	ND
	Chromium	100	MCL	2.00	0.850
	Copper	1300	MCL	1.60	4.20
	Lead	15	MCL	ND	0.220
	Mercury	2	MCL	ND	ND
	Selenium	50	MCL	ND	2.70
Synthetic Organic Compounds (ppb)	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
	Naphthalene	17	EAL	ND	ND
Volatile Organic Compounds (ppb)	1,1,1-Trichloroethane	--	--	ND	ND
	1,1,2-Trichloroethane	5	MCL	ND	ND
	1,1-Dichloroethene	7	MCL	ND	ND

Summary of Chemistry Results
Zone I1 Long Term Monitoring
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii

Drinking Water Samples collected in June-November 2023 from Residences in Zone I1

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:	I1-TAMP1612	I1-TAMP1691
Location Type:	Residence	Residence
Address:	1612 Tampa Drive	1691 Tampa Drive
Field Sample ID:	I1-TW-0014030-23130 -A-T	I1-TW-0014036-23130 -A
Sample Date:	2023-06-30	2023-07-13
Sample Type:	N (Normal)	N (Normal)

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	I1-TAMP1612	I1-TAMP1691
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 (Total)	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	0.990
	Dichloroacetic acid	--	--	ND	ND

Summary of Chemistry Results
Zone I1 Long Term Monitoring
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii

8 f]b_]b['K UHyf 'GUa d`Yg'Wc`YWYX']b'>i bY!Bcj Ya VYf'&&' Z'ca 'F Yg]XYbWYg']b'NcbY'≠%

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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FD (Field Duplicate) = Extra sample taken for quality control
N (Grab, Resample) = Additional follow-up sample

Location ID:	I1-TAMP1612	I1-TAMP1691
Location Type:	Residence	Residence
Address:	1612 Tampa Drive	1691 Tampa Drive
Field Sample ID:	I1-TW-0014030-23130 -A-T	I1-TW-0014036-23130 -A
Sample Date:	2023-06-30	2023-07-13
Sample Type:	N (Normal)	N (Normal)

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	I1-TAMP1612	I1-TAMP1691
Haloacetic Acids (ppb)	Trichloroacetic acid	--	--	ND	ND
	Total Haloacetic acids	60	MCL	ND	0.990
Trihalomethanes (ppb)	Bromodichloromethane	--	--	0.680	0.740
	Bromoform	--	--	4.60	4.30
	Chloroform	--	--	ND	ND
	Dibromochloromethane	--	--	2.40	2.80
	Total Trihalomethanes	80	MCL	7.68	7.84

Summary of Chemistry Results
Zone I1 Long Term Monitoring
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii

Drinking Water Samples collected in June-November 2023 from Schools in Zone I1

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:		I1-ALAK1265				
		Location Type:		School				
		Address:		Red Hill Elementary School, 1265 Ala Kula Place				
		Field Sample ID:		I1-TW-0011966-23130 -A-3	I1-TW-0011966-23130 -A-5	I1-TW-0011966-23130 -A-4	I1-TW-0011966-23130 -A-1	I1-TW-0011966-23130 -A-2
		Sample Date:		2023-07-14	2023-07-14	2023-07-14	2023-07-14	2023-07-14
		Sample Type:		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	130-280	130-280	130-280	130-280	130-280
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND	ND	ND	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	ND	ND	ND	ND
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND	ND	ND	ND
	Petroleum Hydrocarbons (as Oil)	--	--	ND	ND	ND	ND	ND
	Petroleum Hydrocarbons, Total	266	ISP	ND	ND	ND	ND	ND
Metals (ppb)	Antimony	6	MCL	ND	ND	ND	ND	ND
	Arsenic	10	MCL	ND	ND	ND	ND	0.550
	Barium	2000	MCL	3.30	3.30	3.40	4.50	3.30
	Beryllium	4	MCL	ND	ND	ND	ND	ND
	Cadmium	5	MCL	ND	ND	ND	ND	ND
	Chromium	100	MCL	0.790	0.790	0.810	0.730	0.790
	Copper	1300	MCL	28.7	38.6	38.6	17.9	45.3
	Lead	15	MCL	0.210	ND	0.310	0.600	0.160
	Mercury	2	MCL	ND	ND	ND	ND	ND
	Selenium	50	MCL	2.90	2.40	2.80	0.960	3.10
Synthetic Organic Compounds (ppb)	Thallium	2	MCL	ND	ND	ND	ND	ND
	1-Methylnaphthalene	10	EAL	ND	ND	ND	ND	ND
	2-Methylnaphthalene	10	EAL	ND	ND	ND	ND	ND
	Benzo(a)pyrene	0.2	MCL	ND	ND	ND	ND	ND
	Bis(2-ethylhexyl)phthalate	6	MCL	ND	ND	ND	ND	ND
Volatile Organic Compounds (ppb)	Naphthalene	17	EAL	ND	ND	ND	ND	ND
	1,1,1-Trichloroethane	--	--	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	5	MCL	ND	ND	ND	ND	ND

Summary of Chemistry Results
Zone I1 Long Term Monitoring
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii

Drinking Water Samples collected in June-November 2023 from Schools in Zone I1

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:	I1-ALAK1265					
		Location Type:	School					
		Address:	Red Hill Elementary School, 1265 Ala Kula Place					
		Field Sample ID:	I1-TW-0011966-23130 -A-3	I1-TW-0011966-23130 -A-5	I1-TW-0011966-23130 -A-4	I1-TW-0011966-23130 -A-1	I1-TW-0011966-23130 -A-2	
		Sample Date:	2023-07-14	2023-07-14	2023-07-14	2023-07-14	2023-07-14	
		Sample Type:	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)	1,1-Dichloroethene	7	MCL	ND	ND	ND	ND	ND
	1,2,4-Trichlorobenzene	70	MCL	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	600	MCL	ND	ND	ND	ND	ND
	1,2-Dichloroethane	5	MCL	ND	ND	ND	ND	ND
	1,2-Dichloroethene (Total)	70	MCL	ND	ND	ND	ND	ND
	1,2-Dichloropropane	5	MCL	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene	75	MCL	ND	ND	ND	ND	ND
	Benzene	5	MCL	ND	ND	ND	ND	ND
	Carbon Tetrachloride	5	MCL	ND	ND	ND	ND	ND
	Chlorobenzene	100	MCL	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	70	MCL	ND	ND	ND	ND	ND
	Ethylbenzene	700	MCL	ND	ND	ND	ND	ND
	m,p-Xylene	--	--	ND	ND	ND	ND	ND
	Methylene chloride	5	MCL	ND	ND	ND	ND	ND
	o-Xylene	--	--	ND	ND	ND	ND	ND
	Styrene	100	MCL	ND	ND	ND	ND	ND
	Tetrachloroethene (PCE)	5	MCL	ND	ND	ND	ND	ND
	Toluene	1000	MCL	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	100	MCL	ND	ND	ND	ND	ND
	Trichloroethene (TCE)	5	MCL	ND	ND	ND	ND	ND
Vinyl chloride	2	MCL	ND	ND	ND	ND	ND	
Xylenes, Total	10000	MCL	ND	ND	ND	ND	ND	
Haloacetic Acids (ppb)	Bromoacetic acid	--	--	ND	ND	ND	ND	ND
	Chloroacetic acid	--	--	ND	ND	ND	ND	ND

Summary of Chemistry Results
Zone I1 Long Term Monitoring
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii

Drinking Water Samples collected in June-November 2023 from Schools in Zone I1

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: I1-ALAK1265						
		Location Type: School						
		Address: Red Hill Elementary School, 1265 Ala Kula Place						
		Field Sample ID:		I1-TW-0011966-23130 -A-3	I1-TW-0011966-23130 -A-5	I1-TW-0011966-23130 -A-4	I1-TW-0011966-23130 -A-1	I1-TW-0011966-23130 -A-2
		Sample Date:		2023-07-14	2023-07-14	2023-07-14	2023-07-14	2023-07-14
		Sample Type:		N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level					
Haloacetic Acids (ppb)	Dibromoacetic acid	--	--	1.30	1.20	1.40	2.10	1.20
	Dichloroacetic acid	--	--	ND	ND	ND	ND	ND
	Trichloroacetic acid	--	--	ND	ND	ND	ND	ND
	Total Haloacetic acids	60	MCL	1.30	1.20	1.40	2.10	1.20
Trihalomethanes (ppb)	Bromodichloromethane	--	--	0.670	0.790	0.700	0.660	0.710
	Bromoform	--	--	4.90	4.70	4.60	7.60	5.00
	Chloroform	--	--	ND	ND	ND	ND	ND
	Dibromochloromethane	--	--	2.80	2.90	2.90	2.40	2.90
	Total Trihalomethanes	80	MCL	8.37	8.39	8.20	10.7	8.61

Summary of Chemistry Results
Zone I1 Long Term Monitoring
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii

Drinking Water Samples collected in June-November 2023 from Fire Hydrants in Zone I1

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:	I1-HYD1324A
Location Type:	Hydrant
Address:	HYD-1324A
Field Sample ID:	I1-DL-0000642-23130-A
Sample Date:	2023-07-13
Sample Type:	N (Normal)

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Result
Field Test (ppb)	Free Chlorine	4000	MCL	290
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	63.7
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND
	Petroleum Hydrocarbons (as Oil)	--	--	ND
	Petroleum Hydrocarbons, Total	266	ISP	63.7
Metals (ppb)	Antimony	6	MCL	ND
	Arsenic	10	MCL	ND
	Barium	2000	MCL	3.70
	Beryllium	4	MCL	ND
	Cadmium	5	MCL	ND
	Chromium	100	MCL	0.710
	Mercury	2	MCL	ND
	Selenium	50	MCL	2.50
	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

Summary of Chemistry Results
Zone I1 Long Term Monitoring
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii

Drinking Water Samples collected in June-November 2023 from Fire Hydrants in Zone I1

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:	I1-HYD1324A
Location Type:	Hydrant
Address:	HYD-1324A
Field Sample ID:	I1-DL-0000642-23130-A
Sample Date:	2023-07-13
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	--	--
Chloroacetic acid		--	--	ND
Dibromoacetic acid		--	--	1.40
Dichloroacetic acid		--	--	ND
Trichloroacetic acid		--	--	ND
Total Haloacetic acids		60	MCL	1.40

Summary of Chemistry Results
Zone I1 Long Term Monitoring
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii

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Notes:
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All Results shown in Parts per Billion (ppb)
§ - Exceeds Screening Level
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N (Normal) = Full compliance sample
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N (Grab, Resample) = Additional follow-up sample

Location ID:	I1-HYD1324A
Location Type:	Hydrant
Address:	HYD-1324A
Field Sample ID:	I1-DL-0000642-23130-A
Sample Date:	2023-07-13
Sample Type:	N (Normal)

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	
Trihalomethanes (ppb)	Bromodichloromethane	--	--	0.940
	Bromoform	--	--	7.50
	Chloroform	--	--	ND
	Dibromochloromethane	--	--	3.60
	Total Trihalomethanes	80	MCL	12.0