

Summary of Chemistry Results
Zone B1 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 B1

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:		B1-HAPU2879D	B1-HEKA1162	B1-HEKA1176	B1-HONU1061	B1-HONU1185		B1-HONU1213	B1-KUPA2880E
		Location Type:		Residence	Residence	Residence	Residence	Residence		Residence	Residence
		Address:		2879D Hapue Loop	1162 Hekau Street	1176 Hekau Street	1061 Honu Loop	1185 Honu Loop		1213 Honu Loop	2880E Kupalii Loop
		Field Sample ID:		B1-TW-0017620-23147-N	B1-TW-0010485-23147-N	B1-TW-0010488-23147-N	B1-TW-0010490-23147-N	B1-TW-0010505-23147-N	B1-TW-0010505-23147-3-N	B1-TW-0010509-23147-N	B1-TW-0017626-23147-N
		Sample Date:		2023-10-25	2023-07-11	2023-08-25	2023-08-25	2023-10-12	2023-10-12	2023-09-13	2023-07-11
		Sample Type:		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	480	510	570	670	480	480	530	380
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND	ND	ND	ND	ND	ND	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	51.7	52.7	61.6	62.7	ND	69.6	87.4	51.0
	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	51.7	52.7	61.6	62.7	ND	69.6	87.4	51.0
Metals (ppb)	Antimony	6	MCL	ND	ND	ND	ND	ND	ND	ND	0.120
	Arsenic	10	MCL	ND	ND	ND	ND	ND	ND	0.580	ND
	Barium	2000	MCL	2.10	1.80	1.80	1.80	1.80	1.80	1.90	2.10
	Beryllium	4	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	5	MCL	ND	ND	ND	ND	ND	ND	ND	0.0700
	Chromium	100	MCL	0.600	1.70	0.980	1.10	0.790	0.860	ND	1.70
	Copper	1300	MCL	7.00	8.20	8.30	13.9	8.50	9.20	2.60	29.8
	Lead	15	MCL	ND	ND	0.280	0.230	0.140	0.160	ND	0.640
	Mercury	2	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Selenium	50	MCL	1.60	ND	1.70	1.80	1.00	0.710	2.70	ND
Synthetic Organic Compounds (ppb)	Thallium	2	MCL	ND	ND	ND	ND	ND	ND	ND	0.100
	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	0.100	ND	ND	0.110	ND
	Bis(2-ethylhexyl)phthalate	6	MCL	ND	ND	ND	0.800	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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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Location ID:	Location ID:	Location ID:	Location ID:	Location ID:		Location ID:	Location ID:	
				Location Type:	Location Type:	Location Type:	Location Type:	Location Type:		Location Type:	Location Type:	
				Address:	Address:	Address:	Address:	Address:		Address:	Address:	
				Field Sample ID:	Field Sample ID:	Field Sample ID:	Field Sample ID:	Field Sample ID:	Field Sample ID:	Field Sample ID:	Field Sample ID:	
				Sample Date:	Sample Date:	Sample Date:	Sample Date:	Sample Date:	Sample Date:	Sample Date:	Sample Date:	
				Sample Type:	Sample Type:	Sample Type:	Sample Type:	Sample Type:	Sample Type:	Sample Type:	Sample Type:	
Volatile Organic Compounds (ppb)	1,2,4-Trichlorobenzene	70	MCL	B1-HAPU2879D Residence 2879D Hapue Loop B1-TW-0017620-23147-N 2023-10-25 N (Normal)	B1-HEKA1162 Residence 1162 Hekau Street B1-TW-0010485-23147-N 2023-07-11 N (Normal)	B1-HEKA1176 Residence 1176 Hekau Street B1-TW-0010488-23147-N 2023-08-25 N (Normal)	B1-HONU1061 Residence 1061 Honu Loop B1-TW-0010490-23147-N 2023-08-25 N (Normal)	B1-HONU1185 Residence 1185 Honu Loop B1-TW-0010505-23147-N 2023-10-12 N (Normal)		B1-TW-0010505-23147-3-N 2023-10-12 FD (Field Duplicate)	B1-HONU1213 Residence 1213 Honu Loop B1-TW-0010509-23147-N 2023-09-13 N (Normal)	B1-KUPA2880E Residence 2880E Kupalii Loop B1-TW-0017626-23147-N 2023-07-11 N (Normal)
	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 (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	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloroacetic acid	--	--	ND	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:		Location ID:	Location ID:				
				B1-HAPU2879D	B1-HEKA1162	B1-HEKA1176	B1-HONU1061	B1-HONU1185		B1-HONU1213	B1-KUPA2880E
				Location Type:		Location Type:	Location Type:				
				Address:	Address:	Address:	Address:	Address:		Address:	Address:
				Field Sample ID:		Field Sample ID:	Field Sample ID:				
				Sample Date:		Sample Date:	Sample Date:				
				Sample Type:		Sample Type:	Sample Type:				
Haloacetic Acids (ppb)	Trichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND	ND
	Total Haloacetic acids	60	MCL	ND	ND	ND	ND	ND	ND	ND	ND
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	ND	ND	ND	ND	ND	0.250	ND
	Bromoform	--	--	ND	ND	ND	ND	ND	ND	0.410	ND
	Chloroform	--	--	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	--	--	ND	ND	ND	ND	ND	ND	0.560	ND
	Total Trihalomethanes	80	MCL	ND	ND	ND	ND	ND	ND	1.22	ND

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		Location ID:	B1-MAKU2907C	B1-MCGR0364	B1-MCGR0365	B1-MCGR0397	B1-MCGR0450	B1-MCGR0486		B1-MCGR0489	
		Location Type:	Residence	Residence	Residence	Residence	Residence	Residence		Residence	
		Address:	2907C Makuu Loop	364 McGrew Loop	365 McGrew Loop	397 McGrew Loop	450 McGrew Loop	486 McGrew Loop		489 McGrew Loop	
		Field Sample ID:	B1-TW-0017646-23147-N	B1-TW-0010514-23147-N	B1-TW-0010515-23147-N	B1-TW-0010522-23147-N	B1-TW-0009369-23147-N	B1-TW-0009372-23147-N	B1-TW-0009372-23147-3-N	B1-TW-0009373-23147-N	
		Sample Date:	2023-10-12	2023-09-13	2023-10-12	2023-07-14	2023-10-12	2023-08-25	2023-08-25	2023-07-14	
		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	510	540	270	480	590	620	620	770
Field Test (ppb)	Free Chlorine	4000	MCL	510	540	270	480	590	620	620	770
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND	ND	ND	ND	ND	ND	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	92.5	61.4	ND	68.4	55.5	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	92.5	61.4	ND	68.4	55.5	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	2.00	1.90	1.90	1.90	1.90	1.70	1.70	1.70
	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	0.820	ND	0.720	0.820	0.770	1.10	1.00	0.890
	Copper	1300	MCL	14.1	27.9	5.30	55.8	4.70	8.40	4.40	4.60
	Lead	15	MCL	ND	ND	0.220	1.10	0.220	0.640	0.330	0.130
	Mercury	2	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Selenium	50	MCL	1.10	2.30	0.950	3.00	0.920	1.70	1.60	3.00
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	0.0170	ND	ND	ND	0.0290
	Bis(2-ethylhexyl)phthalate	6	MCL	ND	ND	ND	ND	ND	ND	ND	0.740
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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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Location ID:	B1-MAKU2907C	B1-MCGR0364	B1-MCGR0365	B1-MCGR0397	B1-MCGR0450	B1-MCGR0486		B1-MCGR0489
				Location Type:	Residence	Residence	Residence	Residence	Residence	Residence		Residence
				Address:	2907C Makuu Loop	364 McGrew Loop	365 McGrew Loop	397 McGrew Loop	450 McGrew Loop	486 McGrew Loop		489 McGrew Loop
				Field Sample ID:	B1-TW-0017646-23147-N	B1-TW-0010514-23147-N	B1-TW-0010515-23147-N	B1-TW-0010522-23147-N	B1-TW-0009369-23147-N	B1-TW-0009372-23147-N	B1-TW-0009372-23147-3-N	B1-TW-0009373-23147-N
				Sample Date:	2023-10-12	2023-09-13	2023-10-12	2023-07-14	2023-10-12	2023-08-25	2023-08-25	2023-07-14
				Sample Type:	N (Normal)	FD (Field Duplicate)	N (Normal)					
Volatile Organic Compounds (ppb)	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 (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	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND

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				Location Type:	Residence	Residence	Residence	Residence	Residence	Residence		Residence
				Address:	2907C Makuu Loop	364 McGrew Loop	365 McGrew Loop	397 McGrew Loop	450 McGrew Loop	486 McGrew Loop		489 McGrew Loop
				Field Sample ID:	B1-TW-0017646-23147-N	B1-TW-0010514-23147-N	B1-TW-0010515-23147-N	B1-TW-0010522-23147-N	B1-TW-0009369-23147-N	B1-TW-0009372-23147-N	B1-TW-0009372-23147-3-N	B1-TW-0009373-23147-N
				Sample Date:	2023-10-12	2023-09-13	2023-10-12	2023-07-14	2023-10-12	2023-08-25	2023-08-25	2023-07-14
				Sample Type:	N (Normal)	FD (Field Duplicate)	N (Normal)					
Haloacetic Acids (ppb)	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	0.310	ND	0.270	ND	ND	ND	ND	ND
	Bromoform	--	--	ND	0.600	ND	0.810	ND	ND	ND	ND	ND
	Chloroform	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	--	--	ND	0.690	ND	0.780	ND	ND	ND	ND	ND
	Total Trihalomethanes	80	MCL	ND	1.60	ND	1.86	ND	ND	ND	ND	ND

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		Location ID:	B1-MCGR0489	B1-MCGR0497	B1-MCGR0534	B1-MCGR0545	B1-MCGR0573	B1-MCGR0634	B1-MCGR0663	B1-MCGR0706	
		Location Type:	Residence	Residence	Residence	Residence	Residence	Residence	Residence	Residence	
		Address:	489 McGrew Loop	497 McGrew Loop	534 McGrew Loop	545 McGrew Loop	573 McGrew Loop	634 McGrew Loop	663 McGrew Loop	706 McGrew Loop	
		Field Sample ID:	B1-TW-0009373-23147-3-N	B1-TW-0009375-23147-N	B1-TW-0009383-23147-N	B1-TW-0009386-23147-N	B1-TW-0009392-23147-N	B1-TW-0009399-23147-N	B1-TW-0009405-23147-N	B1-TW-0009410-23147-N	
		Sample Date:	2023-07-14	2023-07-14	2023-08-25	2023-09-13	2023-07-14	2023-07-11	2023-10-31	2023-07-14	
		Sample Type:	FD (Field Duplicate)	N (Normal)							
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	770	540	640	200	580	250	480	470
Field Test (ppb)	Free Chlorine	4000	MCL	770	540	640	200	580	250	480	470
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND						
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	ND	61.9	83.0	ND	57.9	ND	ND
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND						
	Petroleum Hydrocarbons (as Oil)	--	--	ND	ND						
	Petroleum Hydrocarbons, Total	266	ISP	ND	ND	61.9	83.0	ND	57.9	ND	ND
Metals (ppb)	Antimony	6	MCL	ND	ND	ND	ND	ND	0.150	ND	ND
	Arsenic	10	MCL	ND	ND						
	Barium	2000	MCL	1.90	2.00	1.80	2.00	1.90	2.00	2.00	1.90
	Beryllium	4	MCL	ND	ND						
	Cadmium	5	MCL	ND	ND						
	Chromium	100	MCL	0.810	0.710	1.00	ND	0.800	1.70	0.680	0.730
	Copper	1300	MCL	4.30	7.90	9.90	51.2	5.60	19.8	10.0	2.70
	Lead	15	MCL	0.170	0.250	0.330	0.210	0.210	0.180	0.280	ND
	Mercury	2	MCL	ND	ND	ND	ND	ND	0.0250	ND	0.0310
	Selenium	50	MCL	3.10	2.80	1.70	2.10	2.90	0.300	2.00	2.80
Synthetic Organic Compounds (ppb)	Thallium	2	MCL	ND	ND	ND	ND	ND	0.0850	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	0.770	ND	ND	ND	0.730	ND	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						

Summary of Chemistry Results
Zone B1 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 B1

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

		Location ID:	B1-MCGR0489	B1-MCGR0497	B1-MCGR0534	B1-MCGR0545	B1-MCGR0573	B1-MCGR0634	B1-MCGR0663	B1-MCGR0706
		Location Type:	Residence	Residence	Residence	Residence	Residence	Residence	Residence	Residence
		Address:	489 McGrew Loop	497 McGrew Loop	534 McGrew Loop	545 McGrew Loop	573 McGrew Loop	634 McGrew Loop	663 McGrew Loop	706 McGrew Loop
		Field Sample ID:	B1-TW-0009373-23147-3-N	B1-TW-0009375-23147-N	B1-TW-0009383-23147-N	B1-TW-0009386-23147-N	B1-TW-0009392-23147-N	B1-TW-0009399-23147-N	B1-TW-0009405-23147-N	B1-TW-0009410-23147-N
		Sample Date:	2023-07-14	2023-07-14	2023-08-25	2023-09-13	2023-07-14	2023-07-11	2023-10-31	2023-07-14
		Sample Type:	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						
	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						
	Vinyl chloride	2	MCL	ND						
Xylenes, Total	10000	MCL	ND	ND	ND	ND	ND	ND	ND	ND
Haloacetic Acids (ppb)	Bromoacetic acid	--	--	ND						
	Chloroacetic acid	--	--	ND						
	Dibromoacetic acid	--	--	ND						
	Dichloroacetic acid	--	--	ND						

Summary of Chemistry Results
Zone B1 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 B1

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		Location ID:	B1-MCGR0489	B1-MCGR0497	B1-MCGR0534	B1-MCGR0545	B1-MCGR0573	B1-MCGR0634	B1-MCGR0663	B1-MCGR0706
		Location Type:	Residence	Residence	Residence	Residence	Residence	Residence	Residence	Residence
		Address:	489 McGrew Loop	497 McGrew Loop	534 McGrew Loop	545 McGrew Loop	573 McGrew Loop	634 McGrew Loop	663 McGrew Loop	706 McGrew Loop
		Field Sample ID:	B1-TW-0009373-23147-3-N	B1-TW-0009375-23147-N	B1-TW-0009383-23147-N	B1-TW-0009386-23147-N	B1-TW-0009392-23147-N	B1-TW-0009399-23147-N	B1-TW-0009405-23147-N	B1-TW-0009410-23147-N
		Sample Date:	2023-07-14	2023-07-14	2023-08-25	2023-09-13	2023-07-14	2023-07-11	2023-10-31	2023-07-14
		Sample Type:	FD (Field Duplicate)	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	ND						
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	0.660	ND	ND	0.290	ND	ND
	Bromoform	--	--	ND	1.30	0.530	0.350	0.440	ND	ND
	Chloroform	--	--	ND	0.350	ND	ND	ND	ND	ND
	Dibromochloromethane	--	--	ND	1.60	0.260	0.360	0.800	ND	ND
	Total Trihalomethanes	80	MCL	ND	3.91	0.790	0.710	1.53	ND	ND

Summary of Chemistry Results
Zone B1 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 B1

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

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Location ID:	B1-MCGR0837		B1-MCGR0853	B1-MCGR0857	B1-MCGR0865	B1-OLIA2921B	
				Location Type:	Residence		Residence	Residence	Residence	Residence	
				Address:	837 McGrew Loop		853 McGrew Loop	857 McGrew Loop	865 McGrew Loop	2921B Oliana Loop	
				Field Sample ID:	B1-TW-0009431-23147-N	B1-TW-0009432-23147-N	B1-TW-0009432-23147-N-R1	B1-TW-0009434-23147-N	B1-TW-0009435-23147-N	B1-TW-0009636-23147-N	B1-TW-0017574-23147-N
				Sample Date:	2023-08-25	2023-09-13	2023-11-02	2023-09-13	2023-09-13	2023-09-13	2023-10-25
				Sample Type:	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)
Field Test (ppb)	Free Chlorine	4000	MCL	420	860	690	680	690	610	440	
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND	ND	ND	ND	ND	ND	
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	120	61.9	78.5	82.7	70.1	66.7	
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND	ND	ND	ND	ND	ND	
	Petroleum Hydrocarbons (as Oil)	--	--	ND	ND	ND	ND	ND	ND	ND	
	Petroleum Hydrocarbons, Total	266	ISP	ND	120	61.9	78.5	82.7	70.1	66.7	
Metals (ppb)	Antimony	6	MCL	ND	ND	ND	ND	ND	ND	ND	
	Arsenic	10	MCL	ND	ND	ND	0.520	0.540	0.590	ND	
	Barium	2000	MCL	1.70	1.90	2.00	1.90	1.90	1.90	2.00	
	Beryllium	4	MCL	ND	ND	ND	ND	ND	ND	ND	
	Cadmium	5	MCL	ND	ND	ND	ND	ND	ND	ND	
	Chromium	100	MCL	1.00	ND	0.670	ND	ND	ND	0.550	
	Copper	1300	MCL	8.20	5.00	6.10	16.1	10.1	3.70	21.9	
	Lead	15	MCL	0.290	ND	0.130	ND	ND	0.130	ND	
	Mercury	2	MCL	ND	ND	ND	ND	ND	ND	ND	
	Selenium	50	MCL	1.80	2.60	ND	2.50	2.60	2.60	1.60	
Synthetic Organic Compounds (ppb)	Thallium	2	MCL	ND	ND	ND	ND	ND	ND	ND	
	1-Methylnaphthalene	10	EAL	ND	ND	ND	ND	ND	ND	ND	
	2-Methylnaphthalene	10	EAL	ND	ND	ND	ND	ND	ND	ND	
	Benzo(a)pyrene	0.2	MCL	ND	ND	ND	ND	ND	ND	ND	
	Bis(2-ethylhexyl)phthalate	6	MCL	ND	ND	ND	ND	ND	ND	ND	
Volatile Organic Compounds (ppb)	Naphthalene	17	EAL	ND	ND	ND	ND	ND	ND	ND	
	1,1,1-Trichloroethane	--	--	ND	ND	ND	ND	ND	ND	ND	
	1,1,2-Trichloroethane	5	MCL	ND	ND	ND	ND	ND	ND	ND	
	1,1-Dichloroethene	7	MCL	ND	ND	ND	ND	ND	ND	ND	

Summary of Chemistry Results
Zone B1 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 B1

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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Location ID:	B1-MCGR0837		B1-MCGR0853	B1-MCGR0857	B1-MCGR0865	B1-OLIA2921B	
				Location Type:	Residence		Residence	Residence	Residence	Residence	
				Address:	837 McGrew Loop		853 McGrew Loop	857 McGrew Loop	865 McGrew Loop	2921B Oliana Loop	
				Field Sample ID:	B1-TW-0009431-23147-N	B1-TW-0009432-23147-N	B1-TW-0009432-23147-N-R1	B1-TW-0009434-23147-N	B1-TW-0009435-23147-N	B1-TW-0009636-23147-N	B1-TW-0017574-23147-N
				Sample Date:	2023-08-25	2023-09-13	2023-11-02	2023-09-13	2023-09-13	2023-09-13	2023-10-25
				Sample Type:	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)
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		
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	ND	ND	ND	ND	
	Dichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND	

Summary of Chemistry Results
Zone B1 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 B1

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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Location ID:	B1-MCGR0837		B1-MCGR0853	B1-MCGR0857	B1-MCGR0865	B1-OLIA2921B	
				Location Type:	Residence		Residence	Residence	Residence	Residence	
				Address:	837 McGrew Loop		853 McGrew Loop	857 McGrew Loop	865 McGrew Loop	2921B Oliana Loop	
				Field Sample ID:	B1-TW-0009431-23147-N	B1-TW-0009432-23147-N	B1-TW-0009432-23147-N-R1	B1-TW-0009434-23147-N	B1-TW-0009435-23147-N	B1-TW-0009636-23147-N	B1-TW-0017574-23147-N
				Sample Date:	2023-08-25	2023-09-13	2023-11-02	2023-09-13	2023-09-13	2023-09-13	2023-10-25
				Sample Type:	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)
Haloacetic Acids (ppb)	Trichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND	
	Total Haloacetic acids	60	MCL	ND	ND	ND	ND	ND	ND	ND	
Trihalomethanes (ppb)	Bromodichloromethane	--	--	0.260	ND	ND	ND	ND	ND	ND	
	Bromoform	--	--	0.460	ND	ND	ND	ND	ND	ND	
	Chloroform	--	--	ND	ND	ND	ND	ND	ND	ND	
	Dibromochloromethane	--	--	0.590	ND	ND	ND	ND	ND	ND	
	Total Trihalomethanes	80	MCL	1.31	ND	ND	ND	ND	ND	ND	

Summary of Chemistry Results
Zone B1 Long Term Monitoring
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii

Drinking Water Samples collected in June-November 2023 from Other Buildings in Zone B1

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Location ID:	B1-BLDG0103
Location Type:	Non-Residence
Address:	Building 103,MWR COMMUNITY MTG RM
Field Sample ID:	B1-TW-0014406- 23147-N-T
Sample Date:	2023-07-11
Sample Type:	N (Normal)

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	
Field Test (ppb)	Free Chlorine	4000	MCL	120
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	57.1
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND
	Petroleum Hydrocarbons (as Oil)	--	--	ND
	Petroleum Hydrocarbons, Total	266	ISP	57.1
Metals (ppb)	Antimony	6	MCL	ND
	Arsenic	10	MCL	ND
	Barium	2000	MCL	1.80
	Beryllium	4	MCL	ND
	Cadmium	5	MCL	ND
	Chromium	100	MCL	1.90
	Copper	1300	MCL	86.2
	Lead	15	MCL	ND
	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
Volatile Organic Compounds (ppb)	1,1,1-Trichloroethane	--	--	ND
	1,1,2-Trichloroethane	5	MCL	ND

Summary of Chemistry Results
Zone B1 Long Term Monitoring
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii

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Location ID:	B1-BLDG0103
Location Type:	Non-Residence
Address:	Building 103,MWR COMMUNITY MTG RM
Field Sample ID:	B1-TW-0014406- 23147-N-T
Sample Date:	2023-07-11
Sample Type:	N (Normal)

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	
Volatile Organic Compounds (ppb)	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
Vinyl chloride	2	MCL	ND	
Xylenes, Total	10000	MCL	ND	
Haloacetic Acids (ppb)	Bromoacetic acid	--	--	ND
	Chloroacetic acid	--	--	ND

Summary of Chemistry Results
Zone B1 Long Term Monitoring
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Location ID:	B1-BLDG0103
Location Type:	Non-Residence
Address:	Building 103,MWR COMMUNITY MTG RM
Field Sample ID:	B1-TW-0014406- 23147-N-T
Sample Date:	2023-07-11
Sample Type:	N (Normal)

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

Summary of Chemistry Results
Zone B1 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 B1

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EAL = DOH Environmental Action Level
EPA MCL = EPA Maximum Contaminant Level
All Results shown in Parts per Billion (ppb)
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-- = 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	B1-HYD0006	B1-HYD541
Field Test (ppb)	Free Chlorine	4000	MCL	430	560
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	59.7	70.3
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND
	Petroleum Hydrocarbons (as Oil)	--	--	ND	ND
	Petroleum Hydrocarbons, Total	266	ISP	59.7	70.3
Metals (ppb)	Antimony	6	MCL	ND	ND
	Arsenic	10	MCL	ND	ND
	Barium	2000	MCL	2.00	1.80
	Beryllium	4	MCL	ND	ND
	Cadmium	5	MCL	ND	ND
	Chromium	100	MCL	0.700	0.800
	Mercury	2	MCL	ND	0.0310
	Selenium	50	MCL	1.00	1.60
	Thallium	2	MCL	ND	ND
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
	1,2,4-Trichlorobenzene	70	MCL	ND	ND
	1,2-Dichlorobenzene	600	MCL	ND	ND

Summary of Chemistry Results
Zone B1 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 B1

Notes:
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Location ID:	B1-HYD0006	B1-HYD541
Location Type:	Hydrant	Hydrant
Address:	FH 6 (B1-HYD545)	FH ID: 8
Field Sample ID:	B1-DL-0017728-23147 -N	B1-DL-0000512-23147 -N
Sample Date:	2023-10-12	2023-08-25
Sample Type:	N (Normal)	N (Normal)

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	B1-HYD0006	B1-HYD541
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	ND
	Bromoform	--	--	ND	ND
	Chloroform	--	--	ND	ND
	Dibromochloromethane	--	--	ND	ND
	Total Trihalomethanes	80	MCL	ND	ND