

**Summary of Chemistry Results
Zone E1 Long Term Monitoring
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii**

Drinking Water Samples Collected in April 2022 from Residences in Zone E1

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:	E1-KAMA4798	E1-MAKA0007	E1-MAKA0035	E1-MAKI0004	E1-SAMO4811	
		Location Type:	Residence	Residence	Residence	Residence	Residence	
		Address:	4798 Kamakani Place	7 Makalapa Drive	35 Makalapa Drive	4 Makin Place	4811 Samoa Place	
		Field Sample ID:	E1-TW-0010695-22097-N	E1-TW-0010697-22097-N	E1-TW-0000364-22097-N	E1-TW-0010725-22097-N	E1-TW-0010732-22097-N	
		Sample Date:	2022-04-14	2022-04-25	2022-04-13	2022-04-13	2022-04-13	
		Sample Type:	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	E1-KAMA4798	E1-MAKA0007	E1-MAKA0035	E1-MAKI0004	E1-SAMO4811
Field Test (ppb)	Free Chlorine	4000	MCL	610	400	440	360	630
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND	ND	ND	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	ND	ND	65.3	ND
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND	ND	ND	ND
	Petroleum Hydrocarbons (as Motor Oil)	--	--	ND	ND	ND	58.7	ND
	Petroleum Hydrocarbons, Total	211	ISP	ND	ND	ND	124	ND
Metals (ppb)	Antimony	6	MCL	ND	ND	ND	ND	ND
	Arsenic	10	MCL	ND	ND	ND	ND	ND
	Barium	2000	MCL	2.30	2.10	2.10	2.00	1.90
	Beryllium	4	MCL	ND	ND	ND	ND	ND
	Cadmium	5	MCL	0.160	ND	ND	ND	ND
	Chromium	100	MCL	0.990	1.00	0.920	1.80	0.840
	Copper	1300	MCL	13.8	7.50	28.5	38.0	32.6
	Lead	15	MCL	0.230	ND	0.260	1.00	0.150
	Mercury	2	MCL	ND	ND	ND	ND	ND
	Selenium	50	MCL	1.00	0.510	0.310	0.660	0.480
Synthetic Organic Compounds (ppb)	Thallium	2	MCL	0.180	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	0.410	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
	1,1-Dichloroethene	7	MCL	ND	ND	ND	ND	ND

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		Location Type:	Residence	Residence	Residence	Residence	Residence
		Address:	4798 Kamakani Place	7 Makalapa Drive	35 Makalapa Drive	4 Makin Place	4811 Samoa Place
		Field Sample ID:	E1-TW-0010695-22097-N	E1-TW-0010697-22097-N	E1-TW-0000364-22097-N	E1-TW-0010725-22097-N	E1-TW-0010732-22097-N
		Sample Date:	2022-04-14	2022-04-25	2022-04-13	2022-04-13	2022-04-13
		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)	1,2,4-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
	Dibromoacetic acid	--	--	ND	ND	ND	ND
	Dichloroacetic acid	--	--	ND	ND	ND	ND

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-- = No Information Available
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N (Grab, Resample) = Additional follow-up sample

		Location ID:	E1-KAMA4798	E1-MAKA0007	E1-MAKA0035	E1-MAKI0004	E1-SAMO4811
		Location Type:	Residence	Residence	Residence	Residence	Residence
		Address:	4798 Kamakani Place	7 Makalapa Drive	35 Makalapa Drive	4 Makin Place	4811 Samoa Place
		Field Sample ID:	E1-TW-0010695-22097-N	E1-TW-0010697-22097-N	E1-TW-0000364-22097-N	E1-TW-0010725-22097-N	E1-TW-0010732-22097-N
		Sample Date:	2022-04-14	2022-04-25	2022-04-13	2022-04-13	2022-04-13
		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)	Trichloroacetic acid	--	--	ND	ND	ND	ND
	Total Haloacetic acids	60	MCL	ND	ND	ND	ND
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	ND	ND	ND
	Bromoform	--	--	ND	0.610	ND	ND
	Chloroform	--	--	ND	ND	ND	ND
	Dibromochloromethane	--	--	ND	ND	ND	ND
	Total Trihalomethanes	80	MCL	ND	0.610	ND	ND

**Summary of Chemistry Results
Zone E1 Long Term Monitoring
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii**

Drinking Water Samples Collected in April 2022 from Schools in Zone E1

Notes:
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-- = No Information Available
N (Normal) = Full compliance sample
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N (Grab, Resample) = Additional follow-up sample

		Location ID:		E1-BLDG0364				
		Location Type:		School				
		Address:		Building 364,NAVY HALE KEIKI SCHOOL, 153 Bougainville Dr				
		Field Sample ID:		E1-TW-0015244-22097-N-1	E1-TW-0015244-22097-N-2	E1-TW-0015244-22097-N-3	E1-TW-0015244-22097-N-4	E1-TW-0015244-22097-N-5
		Sample Date:		2022-04-13	2022-04-13	2022-04-13	2022-04-13	2022-04-13
		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	340-700	340-700	340-700	340-700	340-700
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND	ND	ND	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	50.5	50.0	50.2	56.9	ND
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND	ND	ND	ND
	Petroleum Hydrocarbons (as Motor Oil)	--	--	ND	ND	ND	ND	ND
	Petroleum Hydrocarbons, Total	211	ISP	50.5	50.0	50.2	56.9	ND
Metals (ppb)	Antimony	6	MCL	ND	ND	ND	ND	ND
	Arsenic	10	MCL	ND	ND	ND	ND	ND
	Barium	2000	MCL	2.00	1.90	2.00	2.00	1.90
	Beryllium	4	MCL	ND	ND	ND	ND	ND
	Cadmium	5	MCL	ND	ND	ND	ND	ND
	Chromium	100	MCL	1.10	1.00	1.20	1.00	0.970
	Copper	1300	MCL	7.20	8.20	25.2	11.6	16.9
	Lead	15	MCL	0.130	0.200	0.250	0.210	0.180
	Mercury	2	MCL	ND	ND	ND	ND	ND
	Selenium	50	MCL	0.840	0.980	1.10	0.730	0.780
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

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Drinking Water Samples Collected in April 2022 from Schools in Zone E1

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		Location ID:	E1-BLDG0364					
		Location Type:	School					
		Address:	Building 364,NAVY HALE KEIKI SCHOOL, 153 Bougainville Dr					
		Field Sample ID:	E1-TW-0015244-22097-N-1	E1-TW-0015244-22097-N-2	E1-TW-0015244-22097-N-3	E1-TW-0015244-22097-N-4	E1-TW-0015244-22097-N-5	
		Sample Date:	2022-04-13	2022-04-13	2022-04-13	2022-04-13	2022-04-13	
		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	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

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

		Location ID:	E1-BLDG0364					
		Location Type:	School					
		Address:	Building 364,NAVY HALE KEIKI SCHOOL, 153 Bougainville Dr					
		Field Sample ID:	E1-TW-0015244-22097-N-1	E1-TW-0015244-22097-N-2	E1-TW-0015244-22097-N-3	E1-TW-0015244-22097-N-4	E1-TW-0015244-22097-N-5	
		Sample Date:	2022-04-13	2022-04-13	2022-04-13	2022-04-13	2022-04-13	
		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	--	--	ND	ND	ND	ND	ND
	Dichloroacetic acid	--	--	ND	ND	ND	ND	ND
	Trichloroacetic acid	--	--	ND	ND	ND	ND	ND
	Total Haloacetic acids	60	MCL	ND	ND	ND	ND	ND
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	ND	ND	ND	ND
	Bromoform	--	--	ND	ND	ND	ND	ND
	Chloroform	--	--	ND	ND	ND	ND	ND
	Dibromochloromethane	--	--	ND	ND	ND	ND	ND
	Total Trihalomethanes	80	MCL	ND	ND	ND	ND	ND

**Summary of Chemistry Results
Zone E1 Long Term Monitoring
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii**

Drinking Water Samples Collected in April 2022 from Child Development Centers in Zone E1

Notes:
ND = Not Detected
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				Location ID: E1-BLDG0081 Location Type: Child Development Center Address: Building 81,CHILD CARE CTR/CPF PAO Montessori Center, 45 Makalapa Drive					
				Field Sample ID:	E1-TW-0015290-22097-N-1	E1-TW-0015290-22097-N-2	E1-TW-0015290-22097-N-3	E1-TW-0015290-22097-N-4	E1-TW-0015290-22097-N-5
				Sample Date:	2022-04-13	2022-04-13	2022-04-13	2022-04-13	2022-04-13
				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	180-570	180-570	180-570	180-570	180-570	180-570
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND	ND	ND	ND	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	50.9	ND	56.1	ND	56.9	
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND	ND	ND	ND	
	Petroleum Hydrocarbons (as Motor Oil)	--	--	ND	ND	ND	ND	ND	
	Petroleum Hydrocarbons, Total	211	ISP	50.9	ND	56.1	ND	56.9	
Metals (ppb)	Antimony	6	MCL	4.80	ND	ND	0.200	0.720	
	Arsenic	10	MCL	2.70	ND	ND	ND	ND	
	Barium	2000	MCL	2.10	2.00	2.10	1.90	2.20	
	Beryllium	4	MCL	ND	ND	ND	ND	ND	
	Cadmium	5	MCL	ND	ND	ND	ND	ND	
	Chromium	100	MCL	2.80	1.20	0.900	1.10	1.20	
	Copper	1300	MCL	27.3	31.5	56.9	10.8	18.0	
	Lead	15	MCL	0.200	1.70	0.140	0.160	0.510	
	Mercury	2	MCL	ND	ND	ND	ND	ND	
	Selenium	50	MCL	0.350	0.740	ND	0.680	0.910	
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	
Naphthalene	17	EAL	ND	ND	ND	ND	ND		

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		Location ID: E1-BLDG0081						
		Location Type: Child Development Center						
		Address: Building 81, CHILD CARE CTR/CPF PAO Montessori Center, 45 Makalapa Drive						
		Field Sample ID:	E1-TW-0015290-22097-N-1	E1-TW-0015290-22097-N-2	E1-TW-0015290-22097-N-3	E1-TW-0015290-22097-N-4	E1-TW-0015290-22097-N-5	
		Sample Date:	2022-04-13	2022-04-13	2022-04-13	2022-04-13	2022-04-13	
		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)	1,1,1-Trichloroethane	--	--	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	5	MCL	ND	ND	ND	ND	ND
	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	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	

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				Location ID: E1-BLDG0081					
				Location Type: Child Development Center					
				Address: Building 81,CHILD CARE CTR/CPF PAO Montessori Center, 45 Makalapa Drive					
				Field Sample ID:	E1-TW-0015290-22097-N-1	E1-TW-0015290-22097-N-2	E1-TW-0015290-22097-N-3	E1-TW-0015290-22097-N-4	E1-TW-0015290-22097-N-5
				Sample Date:	2022-04-13	2022-04-13	2022-04-13	2022-04-13	2022-04-13
				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)	Vinyl chloride	2	MCL	ND	ND	ND	ND	ND	ND
	Xylenes, Total	10000	MCL	ND	ND	ND	ND	ND	ND
Haloacetic Acids (ppb)	Bromoacetic acid	--	--	ND	ND	ND	ND	ND	ND
	Chloroacetic acid	--	--	ND	ND	ND	ND	ND	ND
	Dibromoacetic acid	--	--	ND	ND	ND	ND	ND	ND
	Dichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND
	Trichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND
	Total Haloacetic acids	60	MCL	ND	ND	ND	ND	ND	ND
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	ND	ND	ND	ND	ND
	Bromoform	--	--	ND	ND	ND	ND	ND	ND
	Chloroform	--	--	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	--	--	ND	ND	ND	ND	ND	ND
	Total Trihalomethanes	80	MCL	ND	ND	ND	ND	ND	ND

**Summary of Chemistry Results
Zone E1 Long Term Monitoring
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii**

Drinking Water Samples Collected in April 2022 from Other Buildings in Zone E1

Notes:
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ISP = Incident Specific Parameter
EAL = DOH Environmental Action Level
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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	E1-BLDG0016		E1-BLDG0200	E1-BLDG0258		E1-BLDG0346	
				Location ID: Location Type: Address:		Location ID: Location Type: Address:	Location ID: Location Type: Address:		Location ID: Location Type: Address:	
				E1-BLDG0016 Non-Residence Building 16,ADMIN, COMPACFLT - MAKALAPA		E1-BLDG0200 Non-Residence Building 200,ADMIN - MAKALAPA	E1-BLDG0258 Non-Residence Building 258,NAVFAC PAC ADMIN/LIBRARY		E1-BLDG0346 Non-Residence Building 346,NAVFAC PAC ANNEX-MAKALAPA	
				Field Sample ID: Sample Date: Sample Type:	E1-TW-0015288-22097-3-N 2022-04-13 FD (Field Duplicate)	E1-TW-0015288-22097-N 2022-04-13 N (Normal)	E1-TW-0015292-22097-N 2022-04-15 N (Normal)	E1-TW-0015296-22097-3-N 2022-04-13 FD (Field Duplicate)	E1-TW-0015296-22097-N 2022-04-13 N (Normal)	E1-TW-0015240-22097-N 2022-04-13 N (Normal)
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level							
Field Test (ppb)	Free Chlorine	4000	MCL	360	360	20.0	40.0	40.0	80.0	
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND	ND	ND	ND	ND	
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	ND	ND	ND	ND	ND	
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND	ND	ND	ND	ND	
	Petroleum Hydrocarbons (as Motor Oil)	--	--	ND	ND	ND	ND	ND	ND	
	Petroleum Hydrocarbons, Total	211	ISP	ND	ND	ND	ND	ND	ND	
Metals (ppb)	Antimony	6	MCL	ND	ND	0.110	ND	0.190	ND	
	Arsenic	10	MCL	ND	ND	ND	ND	ND	0.740	
	Barium	2000	MCL	2.20	2.20	ND	2.50	3.00	3.30	
	Beryllium	4	MCL	ND	ND	ND	ND	ND	ND	
	Cadmium	5	MCL	ND	ND	ND	ND	ND	ND	
	Chromium	100	MCL	1.20	1.10	ND	ND	ND	ND	
	Copper	1300	MCL	34.4	65.5	3.70	2.90	4.40	22.2	
	Lead	15	MCL	ND	ND	0.670	ND	0.540	0.350	
	Mercury	2	MCL	ND	ND	ND	ND	ND	ND	
	Selenium	50	MCL	0.790	0.680	ND	ND	0.360	ND	
Synthetic Organic Compounds (ppb)	Thallium	2	MCL	ND	ND	ND	ND	ND	ND	
	1-Methylnaphthalene	10	EAL	ND	ND	ND	ND	ND	ND	
	2-Methylnaphthalene	10	EAL	ND	ND	ND	ND	ND	ND	
	Benzo(a)pyrene	0.2	MCL	ND	ND	ND	ND	ND	ND	
	Bis(2-ethylhexyl)phthalate	6	MCL	ND	ND	ND	ND	ND	ND	
Volatile Organic Compounds (ppb)	Naphthalene	17	EAL	ND	ND	ND	ND	ND	ND	
	1,1,1-Trichloroethane	--	--	ND	ND	ND	ND	ND	ND	
	1,1,2-Trichloroethane	5	MCL	ND	ND	ND	ND	ND	ND	

**Summary of Chemistry Results
Zone E1 Long Term Monitoring
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii**

Drinking Water Samples Collected in April 2022 from Other Buildings in Zone E1

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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Location ID: E1-BLDG0016		Location ID: E1-BLDG0200		Location ID: E1-BLDG0258		Location ID: E1-BLDG0346	
				Location Type: Non-Residence		Location Type: Non-Residence		Location Type: Non-Residence		Location Type: Non-Residence	
				Address: Building 16,ADMIN, COMPACFLT - MAKALAPA		Address: Building 200,ADMIN - MAKALAPA		Address: Building 258,NAVFAC PAC ADMIN/LIBRARY		Address: Building 346,NAVFAC PAC ANNEX-MAKALAPA	
				Field Sample ID: E1-TW-0015288-22097-3-N	Field Sample ID: E1-TW-0015288-22097-N	Field Sample ID: E1-TW-0015292-22097-N	Field Sample ID: E1-TW-0015296-22097-3-N	Field Sample ID: E1-TW-0015296-22097-N	Field Sample ID: E1-TW-0015240-22097-N		
				Sample Date: 2022-04-13	Sample Date: 2022-04-13	Sample Date: 2022-04-15	Sample Date: 2022-04-13	Sample Date: 2022-04-13	Sample Date: 2022-04-13		
				Sample Type: FD (Field Duplicate)	Sample Type: N (Normal)	Sample Type: N (Normal)	Sample Type: FD (Field Duplicate)	Sample Type: N (Normal)	Sample Type: N (Normal)		
Volatile Organic Compounds (ppb)	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
	1,2-Dichloroethane	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethene	70	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene	75	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Benzene	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Chlorobenzene	100	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	70	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Ethylbenzene	700	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	m,p-Xylene	--	--	ND	ND	ND	ND	ND	ND	ND	ND
	Methylene chloride	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	o-Xylene	--	--	ND	ND	ND	ND	ND	ND	ND	ND
	Styrene	100	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Tetrachloroethene (PCE)	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Toluene	1000	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	100	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Trichloroethene (TCE)	5	MCL	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	MCL	ND	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	ND
	Chloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND	ND

**Summary of Chemistry Results
Zone E1 Long Term Monitoring
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii**

Drinking Water Samples Collected in April 2022 from Other Buildings in Zone E1

Notes:
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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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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	E1-BLDG0016		E1-BLDG0200	E1-BLDG0258		E1-BLDG0346
				Location ID:	Location Type:	Address:	Location ID:	Location Type:	Address:
				E1-TW-0015288-22097-3-N	E1-TW-0015288-22097-N	E1-TW-0015292-22097-N	E1-TW-0015296-22097-3-N	E1-TW-0015296-22097-N	E1-TW-0015240-22097-N
				2022-04-13	2022-04-13	2022-04-15	2022-04-13	2022-04-13	2022-04-13
				FD (Field Duplicate)	N (Normal)	N (Normal)	FD (Field Duplicate)	N (Normal)	N (Normal)
Haloacetic Acids (ppb)	Dibromoacetic acid	--	--	ND	ND	ND	ND	ND	ND
	Dichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND
	Trichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND
	Total Haloacetic acids	60	MCL	ND	ND	ND	ND	ND	ND
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	ND	ND	ND	ND	ND
	Bromoform	--	--	ND	ND	ND	ND	ND	ND
	Chloroform	--	--	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	--	--	ND	ND	ND	ND	ND	ND
	Total Trihalomethanes	80	MCL	ND	ND	ND	ND	ND	ND

**Summary of Chemistry Results
Zone E1 Long Term Monitoring
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii**

Drinking Water Samples Collected in April 2022 from Fire Hydrants in Zone E1

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

		Location ID:	E1-HYD1081	E1-HYD1216	E1-HYD2249	E1-HYD2250	
		Location Type:	Hydrant	Hydrant	Hydrant	Hydrant	
		Address:	Hydrant 920	FH 1216	FH ID: 933	FH 2250	
		Field Sample ID:	E1-DL-0017787-22097 -N	E1-DL-0017799-22097 -N	E1-DL-0000589-22097 -N	E1-DL-0017800-22097 -N	
		Sample Date:	2022-04-14	2022-04-14	2022-04-14	2022-04-14	
		Sample Type:	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	60.0	130	70.0	220
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	ND	ND	ND
	Arsenic	10	MCL	ND	ND	ND	ND
	Barium	2000	MCL	6.20	8.50	3.80	2.20
	Beryllium	4	MCL	ND	ND	ND	ND
	Cadmium	5	MCL	ND	ND	ND	ND
	Chromium	100	MCL	0.530	0.610	ND	0.790
	Copper	1300	MCL	11.2	1.30	1.50	3.40
	Lead	15	MCL	ND	0.220	ND	0.160
	Mercury	2	MCL	ND	ND	ND	ND
	Selenium	50	MCL	ND	0.470	ND	0.360
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
	1,1-Dichloroethene	7	MCL	ND	ND	ND	ND

**Summary of Chemistry Results
Zone E1 Long Term Monitoring
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii**

Drinking Water Samples Collected in April 2022 from Fire Hydrants in Zone E1

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

		Location ID:	E1-HYD1081	E1-HYD1216	E1-HYD2249	E1-HYD2250
		Location Type:	Hydrant	Hydrant	Hydrant	Hydrant
		Address:	Hydrant 920	FH 1216	FH ID: 933	FH 2250
		Field Sample ID:	E1-DL-0017787-22097 -N	E1-DL-0017799-22097 -N	E1-DL-0000589-22097 -N	E1-DL-0017800-22097 -N
		Sample Date:	2022-04-14	2022-04-14	2022-04-14	2022-04-14
		Sample Type:	N (Normal)	N (Normal)	N (Normal)	N (Normal)
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level			
Volatile Organic Compounds (ppb)	1,2,4-Trichlorobenzene	70	MCL	ND	ND	ND
	1,2-Dichlorobenzene	600	MCL	ND	ND	ND
	1,2-Dichloroethane	5	MCL	ND	ND	ND
	1,2-Dichloroethene	70	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	1.10	ND
	Dichloroacetic acid	--	--	ND	ND	ND

**Summary of Chemistry Results
Zone E1 Long Term Monitoring
Drinking Water Sampling, Joint Base Pearl Harbor - Hickam, Oahu, Hawaii**

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		Location ID:	E1-HYD1081	E1-HYD1216	E1-HYD2249	E1-HYD2250	
		Location Type:	Hydrant	Hydrant	Hydrant	Hydrant	
		Address:	Hydrant 920	FH 1216	FH ID: 933	FH 2250	
		Field Sample ID:	E1-DL-0017787-22097 -N	E1-DL-0017799-22097 -N	E1-DL-0000589-22097 -N	E1-DL-0017800-22097 -N	
		Sample Date:	2022-04-14	2022-04-14	2022-04-14	2022-04-14	
		Sample Type:	N (Normal)	N (Normal)	N (Normal)	N (Normal)	
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level				
Haloacetic Acids (ppb)	Trichloroacetic acid	--	--	ND	ND	ND	ND
	Total Haloacetic acids	60	MCL	ND	1.10	ND	ND
Trihalomethanes (ppb)	Bromodichloromethane	--	--	0.660	1.30	ND	ND
	Bromoform	--	--	5.70	14.4	0.840	ND
	Chloroform	--	--	ND	ND	ND	ND
	Dibromochloromethane	--	--	2.30	4.20	ND	ND
	Total Trihalomethanes	80	MCL	8.70	19.8	0.840	ND