

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

Drinking Water Samples collected in January - April 2023 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-BETI0049	E1-HALA0034	E1-HALA0035	E1-HALA0042	E1-HALA0045	E1-HALA0048	E1-HALA0049	E1-HALA0057	
		Location Type:	Residence	Residence	Residence	Residence	Residence	Residence	Residence	Residence	
		Address:	49 Betio Place	34 Halawa Drive	35 Halawa Drive	42 Halawa Drive	45 Halawa Drive	48 Halawa Drive	49 Halawa Drive	57 Halawa Drive	
		Field Sample ID:	E1-TW-0000373-22337-N	E1-TW-0010670-22337-N	E1-TW-0010671-22337-N	E1-TW-0010677-22337-N	E1-TW-0010679-22337-N	E1-TW-0010681-22337-N	E1-TW-0010682-22337-N	E1-TW-0010686-22337-N	
		Sample Date:	2023-02-21	2023-02-21	2023-01-19	2023-01-19	2023-04-27	2023-02-21	2023-02-21	2023-01-19	
		Sample Type:	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level								
Field Test (ppb)	Free Chlorine	4000	MCL	370	360	280	270	310	150	320	440
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND	ND	ND	ND	ND	ND	ND
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	ND	ND	ND	ND	ND	ND	ND
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND	ND	ND	ND	ND	ND	ND
	Petroleum Hydrocarbons (as Motor Oil)	--	--	ND	ND	ND	ND	ND	ND	ND	ND
	Petroleum Hydrocarbons, Total	266	ISP	ND	ND	ND	ND	ND	ND	ND	ND
Metals (ppb)	Antimony	6	MCL	ND	0.120	ND	ND	ND	ND	ND	ND
	Arsenic	10	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Barium	2000	MCL	1.90	2.00	2.10	2.10	2.00	2.10	2.00	2.00
	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	1.40	1.70	2.00	1.80	1.70	1.50	1.40	2.20
	Copper	1300	MCL	47.3	158	54.4	89.4	58.3	141	68.4	38.4
	Lead	15	MCL	0.790	1.70	ND	0.160	0.390	2.80	ND	0.310
	Mercury	2	MCL	ND	ND	ND	ND	ND	ND	ND	ND
	Selenium	50	MCL	ND	ND	ND	ND	ND	ND	ND	ND
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	0.0140	ND	ND	0.0170	0.0150	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:	E1-BETI0049	E1-HALA0034	E1-HALA0035	E1-HALA0042	E1-HALA0045	E1-HALA0048	E1-HALA0049	E1-HALA0057
		Location Type:	Residence	Residence	Residence	Residence	Residence	Residence	Residence	Residence
		Address:	49 Betio Place	34 Halawa Drive	35 Halawa Drive	42 Halawa Drive	45 Halawa Drive	48 Halawa Drive	49 Halawa Drive	57 Halawa Drive
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		Sample Date:	2023-02-21	2023-02-21	2023-01-19	2023-01-19	2023-04-27	2023-02-21	2023-02-21	2023-01-19
		Sample Type:	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level							
Volatile Organic Compounds (ppb)	1,2,4-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	0.970	0.670	ND	ND	ND
	Dichloroacetic acid	--	--	ND	ND	ND	ND	ND	ND	ND

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		Sample Date:	2023-02-21	2023-02-21	2023-01-19	2023-01-19	2023-04-27	2023-02-21	2023-02-21	2023-01-19
		Sample Type:	N (Normal)	N (Normal)	N (Normal)	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	ND	ND	ND
	Total Haloacetic acids	60	MCL	ND	ND	0.970	0.670	ND	ND	ND
Trihalomethanes (ppb)	Bromodichloromethane	--	--	0.280	0.290	0.410	0.250	ND	0.540	ND
	Bromoform	--	--	1.00	1.00	1.60	1.20	0.860	2.00	0.400
	Chloroform	--	--	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	--	--	0.830	0.790	1.20	0.760	0.550	1.40	0.290
	Total Trihalomethanes	80	MCL	2.11	2.08	3.21	2.21	1.41	3.94	0.690

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		Location ID:		E1-KAMA4778		E1-KAMA4797		E1-MAKA0015		E1-MIDW0006		E1-MIDW0012		E1-MIDW0013		
		Location Type:		Residence		Residence		Residence		Residence		Residence		Residence		
		Address:		4778 Kamakani Place		4797 Kamakani Place		15 Makalapa Drive		6 Midway Drive		12 Midway Drive		13 Midway Drive		
		Field Sample ID:		E1-TW-0010689-22337-3-N	E1-TW-0010689-22337-N	E1-TW-0010694-22337-N	E1-TW-0010702-22337-N	E1-TW-0010727-22337-N	E1-TW-0010730-22337-N	E1-TW-0010731-22337-N						
		Sample Date:		2023-02-21	2023-02-21	2023-02-21	2023-02-21	2023-02-21	2023-04-27	2023-01-19						
		Sample Type:		FD (Field Duplicate)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)						
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level													
Field Test (ppb)	Free Chlorine	4000	MCL	150	150	450	370	340	230	310						
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND	ND	ND	ND	ND	ND						
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	58.1	53.0	54.0	52.8	ND	ND						
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND	ND	ND	ND	ND	ND						
	Petroleum Hydrocarbons (as Motor Oil)	--	--	ND	ND	ND	ND	ND	ND	ND						
	Petroleum Hydrocarbons, Total	266	ISP	ND	58.1	53.0	54.0	52.8	ND	ND						
Metals (ppb)	Antimony	6	MCL	0.110	ND	ND	ND	ND	0.130	ND						
	Arsenic	10	MCL	ND	ND	ND	ND	ND	ND	ND						
	Barium	2000	MCL	1.90	1.80	1.90	1.90	1.90	2.10	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	1.60	1.50	1.50	1.40	1.80	1.90	1.90						
	Copper	1300	MCL	4.70	4.90	8.10	6.50	45.6	18.4	32.7						
	Lead	15	MCL	ND	ND	ND	ND	ND	ND	0.760						
	Mercury	2	MCL	ND	ND	ND	ND	ND	ND	ND						
	Selenium	50	MCL	ND	ND	ND	ND	ND	ND	ND						
Synthetic Organic Compounds (ppb)	Thallium	2	MCL	ND	ND	ND	ND	ND	0.0610	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	0.0140	ND	ND	ND	ND	ND	ND						
	Bis(2-ethylhexyl)phthalate	6	MCL	ND	ND	ND	ND	ND	ND	0.550						
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						

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Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	Location ID: E1-KAMA4778		E1-KAMA4797	E1-MAKA0015	E1-MIDW0006	E1-MIDW0012	E1-MIDW0013
				Location Type: Residence		Residence	Residence	Residence	Residence	Residence
				Address: 4778 Kamakani Place		4797 Kamakani Place	15 Makalapa Drive	6 Midway Drive	12 Midway Drive	13 Midway Drive
				Field Sample ID: E1-TW-0010689-22337-3-N	E1-TW-0010689-22337-N	E1-TW-0010694-22337-N	E1-TW-0010702-22337-N	E1-TW-0010727-22337-N	E1-TW-0010730-22337-N	E1-TW-0010731-22337-N
				Sample Date: 2023-02-21	2023-02-21	2023-02-21	2023-02-21	2023-04-27	2023-01-19	2023-04-27
				Sample Type: FD (Field Duplicate)	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

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				Location Type: Residence		Residence	Residence	Residence	Residence	Residence
				Address: 4778 Kamakani Place		4797 Kamakani Place	15 Makalapa Drive	6 Midway Drive	12 Midway Drive	13 Midway Drive
				Field Sample ID: E1-TW-0010689-22337-3-N	E1-TW-0010689-22337-N	E1-TW-0010694-22337-N	E1-TW-0010702-22337-N	E1-TW-0010727-22337-N	E1-TW-0010730-22337-N	E1-TW-0010731-22337-N
				Sample Date: 2023-02-21	2023-02-21	2023-02-21	2023-02-21	2023-04-27	2023-01-19	2023-04-27
				Sample Type: FD (Field Duplicate)	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	--	--	ND	ND	ND	ND	ND	ND	ND
	Bromoform	--	--	ND	ND	0.480	0.640	1.00	0.410	ND
	Chloroform	--	--	ND	ND	ND	ND	ND	ND	ND
	Dibromochloromethane	--	--	ND	ND	0.440	0.540	0.840	0.260	ND
	Total Trihalomethanes	80	MCL	ND	ND	0.920	1.18	1.84	0.670	ND

Summary of Chemistry Results
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Drinking Water Samples collected in January - April 2023 from Schools in Zone E1

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				Location ID: E1-BLDG0364					
				Location Type: School					
				Address: NAVY HALE KEIKI SCHOOL, 153 Bougainville Dr, Building 364					
				Field Sample ID:	E1-TW-0015244-22337-N-1	E1-TW-0015244-22337-N-2	E1-TW-0015244-22337-N-3	E1-TW-0015244-22337-N-4	E1-TW-0015244-22337-N-5
				Sample Date:	2023-01-19	2023-01-19	2023-01-19	2023-01-19	2023-01-19
				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	210-470	210-470	210-470	210-470	210-470	
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	ND	ND	ND	ND	ND	
Hydrocarbons (ppb)	Petroleum Hydrocarbons (as Diesel)	--	--	ND	ND	ND	ND	58.8	
	Petroleum Hydrocarbons (as Gasoline)	--	--	ND	ND	ND	ND	ND	
	Petroleum Hydrocarbons (as Motor Oil)	--	--	ND	ND	ND	ND	ND	
	Petroleum Hydrocarbons, Total	266	ISP	ND	ND	ND	ND	58.8	
Metals (ppb)	Antimony	6	MCL	0.120	ND	ND	ND	ND	
	Arsenic	10	MCL	ND	ND	ND	ND	ND	
	Barium	2000	MCL	2.10	2.00	2.00	2.00	2.00	
	Beryllium	4	MCL	ND	ND	ND	ND	ND	
	Cadmium	5	MCL	0.0540	ND	ND	ND	ND	
	Chromium	100	MCL	1.90	1.80	1.80	1.80	1.90	
	Copper	1300	MCL	9.80	32.6	19.5	15.0	25.2	
	Lead	15	MCL	0.150	0.600	0.150	0.430	0.140	
	Mercury	2	MCL	ND	ND	ND	ND	ND	
	Selenium	50	MCL	ND	ND	ND	ND	ND	
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	0.0110	ND	ND	0.0120	
	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	

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		Location ID:	E1-BLDG0364					
		Location Type:	School					
		Address:	NAVY HALE KEIKI SCHOOL, 153 Bougainville Dr, Building 364					
		Field Sample ID:	E1-TW-0015244-22337-N-1	E1-TW-0015244-22337-N-2	E1-TW-0015244-22337-N-3	E1-TW-0015244-22337-N-4	E1-TW-0015244-22337-N-5	
		Sample Date:	2023-01-19	2023-01-19	2023-01-19	2023-01-19	2023-01-19	
		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)	1,1,2-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 (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	

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

Drinking Water Samples collected in January - April 2023 from Schools 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-BLDG0364					
		Location Type:	School					
		Address:	NAVY HALE KEIKI SCHOOL, 153 Bougainville Dr, Building 364					
		Field Sample ID:	E1-TW-0015244-22337-N-1	E1-TW-0015244-22337-N-2	E1-TW-0015244-22337-N-3	E1-TW-0015244-22337-N-4	E1-TW-0015244-22337-N-5	
		Sample Date:	2023-01-19	2023-01-19	2023-01-19	2023-01-19	2023-01-19	
		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)	Bromoacetic acid	--	--	ND	ND	ND	ND	ND
	Chloroacetic acid	--	--	ND	ND	ND	ND	ND
	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	0.320	ND	ND	ND
	Bromoform	--	--	ND	1.10	0.290	0.420	ND
	Chloroform	--	--	ND	ND	ND	ND	ND
	Dibromochloromethane	--	--	ND	0.840	ND	0.280	ND
	Total Trihalomethanes	80	MCL	ND	2.26	0.290	0.700	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 January - April 2023 from Child Development Centers 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-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- 22337-N-1	E1-TW-0015290- 22337-N-2
Sample Date:	2023-04-25	2023-04-25
Sample Type:	N (Normal)	N (Normal)

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	140-210	140-210
Field Test (ppb)	Free Chlorine	4000	MCL	140-210	140-210
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	266	ISP	ND	ND
Metals (ppb)	Antimony	6	MCL	ND	ND
	Arsenic	10	MCL	0.600	0.500
	Barium	2000	MCL	2.00	1.90
	Beryllium	4	MCL	ND	ND
	Cadmium	5	MCL	ND	ND
	Chromium	100	MCL	1.80	1.60
	Copper	1300	MCL	46.8	36.7
	Lead	15	MCL	ND	0.560
	Mercury	2	MCL	0.0250	ND
	Selenium	50	MCL	ND	ND
	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

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

Drinking Water Samples collected in January - April 2023 from Child Development Centers 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-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- 22337-N-1	E1-TW-0015290- 22337-N-2
Sample Date:	2023-04-25	2023-04-25
Sample Type:	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
	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
	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	

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

Drinking Water Samples collected in January - April 2023 from Child Development Centers 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-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- 22337-N-1	E1-TW-0015290- 22337-N-2
Sample Date:	2023-04-25	2023-04-25
Sample Type:	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
	Xylenes, Total	10000	MCL	ND	ND
Haloacetic Acids (ppb)	Bromoacetic acid	--	--	ND	ND
	Chloroacetic acid	--	--	ND	ND
	Dibromoacetic acid	--	--	ND	ND
	Dichloroacetic acid	--	--	ND	ND
	Trichloroacetic acid	--	--	ND	ND
	Total Haloacetic acids	60	MCL	ND	ND
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	ND
	Bromoform	--	--	0.270	0.390
	Chloroform	--	--	ND	ND
	Dibromochloromethane	--	--	0.260	ND
	Total Trihalomethanes	80	MCL	0.530	0.390

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

Drinking Water Samples collected in January - April 2023 from Other Buildings 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

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	E1-BLDG0057	E1-BLDGGH41
				Location ID: E1-BLDG0057	E1-BLDGGH41
				Location Type: Non-Residence	Non-Residence
				Address: Building 57,NAVFAC PAC ADMIN TRAILER	Building GH41,GUEST HOUSE - QTRS 41-MAKALA
				Field Sample ID: E1-TW-0015289-22337-N	E1-TW-0015285-22337-N
				Sample Date: 2023-01-19	2023-02-17
				Sample Type: N (Normal)	N (Normal)
Field Test (ppb)	Free Chlorine	4000	MCL	470	420
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	266	ISP	ND	ND
Metals (ppb)	Antimony	6	MCL	ND	ND
	Arsenic	10	MCL	ND	ND
	Barium	2000	MCL	3.60	1.90
	Beryllium	4	MCL	ND	ND
	Cadmium	5	MCL	ND	ND
	Chromium	100	MCL	1.80	1.70
	Copper	1300	MCL	40.0	12.9
	Lead	15	MCL	0.350	ND
	Mercury	2	MCL	ND	ND
	Selenium	50	MCL	ND	ND
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

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

Drinking Water Samples collected in January - April 2023 from Other Buildings 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-BLDG0057	E1-BLDGGH41
Location Type:	Non-Residence	Non-Residence
Address:	Building 57,NAVFAC PAC ADMIN TRAILER	Building GH41,GUEST HOUSE - QTRS 41- MAKALA
Field Sample ID:	E1-TW-0015289- 22337-N	E1-TW-0015285- 22337-N
Sample Date:	2023-01-19	2023-02-17
Sample Type:	N (Normal)	N (Normal)

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	E1-BLDG0057	E1-BLDGGH41
Volatile Organic Compounds (ppb)	1,1-Dichloroethene	7	MCL	ND	ND
	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

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

Drinking Water Samples collected in January - April 2023 from Other Buildings 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-BLDG0057	E1-BLDGGH41
Location Type:	Non-Residence	Non-Residence
Address:	Building 57,NAVFAC PAC ADMIN TRAILER	Building GH41,GUEST HOUSE - QTRS 41- MAKALA
Field Sample ID:	E1-TW-0015289- 22337-N	E1-TW-0015285- 22337-N
Sample Date:	2023-01-19	2023-02-17
Sample Type:	N (Normal)	N (Normal)

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	E1-BLDG0057	E1-BLDGGH41
Haloacetic Acids (ppb)	Dibromoacetic acid	--	--	0.540	ND
	Dichloroacetic acid	--	--	ND	ND
	Trichloroacetic acid	--	--	ND	ND
	Total Haloacetic acids	60	MCL	0.540	ND
Trihalomethanes (ppb)	Bromodichloromethane	--	--	ND	ND
	Bromoform	--	--	0.340	ND
	Chloroform	--	--	ND	ND
	Dibromochloromethane	--	--	0.250	ND
	Total Trihalomethanes	80	MCL	0.590	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 January - April 2023 from Fire Hydrants 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-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-0017787-22337-3-N	E1-DL-0017787-22337-N	E1-DL-0017799-22337-3-N	E1-DL-0017799-22337-N	E1-DL-0000589-22337-N	E1-DL-0017800-22337-N		
		Sample Date: 2023-02-17	2023-02-17	2023-01-19	2023-01-19	2023-01-19	2023-01-19		
		Sample Type: FD (Field Duplicate)	N (Normal)	FD (Field Duplicate)	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	330	330	180	180	120	130
General Chemistry (ppb)	Total Organic Carbon	2000	ISP	200	200	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	266	ISP	ND	ND	ND	ND	ND	ND
Metals (ppb)	Antimony	6	MCL	ND	ND	ND	ND	ND	ND
	Arsenic	10	MCL	ND	ND	ND	ND	ND	ND
	Barium	2000	MCL	5.90	5.90	4.70	4.70	2.30	2.00
	Beryllium	4	MCL	ND	ND	ND	ND	ND	ND
	Cadmium	5	MCL	ND	ND	ND	ND	ND	ND
	Chromium	100	MCL	1.20	1.20	1.80	1.90	1.60	1.90
	Mercury	2	MCL	ND	ND	ND	ND	ND	ND
	Selenium	50	MCL	ND	ND	ND	ND	ND	ND
	Thallium	2	MCL	ND	ND	ND	ND	ND	ND
Synthetic Organic Compounds (ppb)	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	0.0110	ND	ND
	Bis(2-ethylhexyl)phthalate	6	MCL	ND	ND	ND	ND	ND	ND
	Naphthalene	17	EAL	ND	ND	ND	ND	ND	ND
Volatile Organic Compounds (ppb)	1,1,1-Trichloroethane	--	--	ND	ND	ND	ND	ND	ND
	1,1,2-Trichloroethane	5	MCL	ND	ND	ND	ND	ND	ND
	1,1-Dichloroethene	7	MCL	ND	ND	ND	ND	ND	ND
	1,2,4-Trichlorobenzene	70	MCL	ND	ND	ND	ND	ND	ND
	1,2-Dichlorobenzene	600	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 January - April 2023 from Fire Hydrants 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-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-0017787-22337-3-N	E1-DL-0017787-22337-N	E1-DL-0017799-22337-3-N	E1-DL-0017799-22337-N	E1-DL-0000589-22337-N	E1-DL-0017800-22337-N		
		Sample Date: 2023-02-17	2023-02-17	2023-01-19	2023-01-19	2023-01-19	2023-01-19		
		Sample Type: FD (Field Duplicate)	N (Normal)	FD (Field Duplicate)	N (Normal)	N (Normal)	N (Normal)		
Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level						
Volatile Organic Compounds (ppb)	1,2-Dichloroethane	5	MCL	ND	ND	ND	ND	ND	ND
	1,2-Dichloroethene (Total)	70	MCL	ND	ND	ND	ND	ND	ND
	1,2-Dichloropropane	5	MCL	ND	ND	ND	ND	ND	ND
	1,4-Dichlorobenzene	75	MCL	ND	ND	ND	ND	ND	ND
	Benzene	5	MCL	ND	ND	ND	ND	ND	ND
	Carbon Tetrachloride	5	MCL	ND	ND	ND	ND	ND	ND
	Chlorobenzene	100	MCL	ND	ND	ND	ND	ND	ND
	cis-1,2-Dichloroethene	70	MCL	ND	ND	ND	ND	ND	ND
	Ethylbenzene	700	MCL	ND	ND	ND	ND	ND	ND
	m,p-Xylene	--	--	ND	ND	ND	ND	ND	ND
	Methylene chloride	5	MCL	ND	ND	ND	ND	ND	ND
	o-Xylene	--	--	ND	ND	ND	ND	ND	ND
	Styrene	100	MCL	ND	ND	ND	ND	ND	ND
	Tetrachloroethene (PCE)	5	MCL	ND	ND	ND	ND	ND	ND
	Toluene	1000	MCL	ND	ND	ND	ND	ND	ND
	trans-1,2-Dichloroethene	100	MCL	ND	ND	ND	ND	ND	ND
	Trichloroethene (TCE)	5	MCL	ND	ND	ND	ND	ND	ND
	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
Chloroacetic acid		--	--	ND	ND	ND	ND	ND	ND
Dibromoacetic acid		--	--	ND	ND	0.720	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	0.720	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 January - April 2023 from Fire Hydrants 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

Method Group	Analyte	DOH Project Screening Level	Basis of Project Screening Level	E1-HYD1081		E1-HYD1216		E1-HYD2249	E1-HYD2250
				Field Sample ID	Sample Date	Field Sample ID	Sample Date	Field Sample ID	Field Sample ID
				Location ID: E1-HYD1081		Location ID: E1-HYD1216		Location ID: E1-HYD2249	Location ID: E1-HYD2250
				Location Type: Hydrant		Location Type: Hydrant		Location Type: Hydrant	Location Type: Hydrant
				Address: Hydrant 920		Address: FH 1216		Address: FH ID: 933	Address: FH 2250
				E1-DL-0017787-22337-3-N	E1-DL-0017787-22337-N	E1-DL-0017799-22337-3-N	E1-DL-0017799-22337-N	E1-DL-0000589-22337-N	E1-DL-0017800-22337-N
				Sample Date: 2023-02-17	Sample Date: 2023-02-17	Sample Date: 2023-01-19	Sample Date: 2023-01-19	Sample Date: 2023-01-19	Sample Date: 2023-01-19
				Sample Type: FD (Field Duplicate)	Sample Type: N (Normal)	Sample Type: FD (Field Duplicate)	Sample Type: N (Normal)	Sample Type: N (Normal)	Sample Type: N (Normal)
				0.350	0.410	0.350	0.380	ND	ND
				6.20	5.70	1.70	1.60	0.660	ND
				ND	ND	0.820	0.670	ND	ND
				1.60	1.50	1.10	1.10	ND	ND
				8.15	7.61	3.97	3.75	0.660	ND