JOSH GREEN, M.D.
GOVERNOR OF HAWAI'I
KE KIA'ĀINA O KA MOKU'ĀINA 'O HAWAI'I

KENNETH S. FINK, MD, MGA, MPH
DIRECTOR OF HEALTH
KA LUNA HO'OKELE

STATE OF HAWAII
DEPARTMENT OF HEALTH
STATE LABORATORIES DIVISION
2725 WAIMANO HOME ROAD
PEARL CITY, HAWAII 96782-1496

In reply, please refer to:
File: EHASB/Chemistry

August 1, 2023

Mr. David Dawes
Quality Assurance Director
Enthalpy Analytical
931 W. Barkley Ave.
Orange, California 92868

Dear Mr. Dawes:

After a review of the required documents, we are pleased to recommend that the data for drinking water analyses be "accepted" for regulatory purposes by the Hawaii Department of Health, Safe Drinking Water Branch until **January 29, 2024** for the parameters listed on the following pages.

All testing for regulatory drinking water purposes must be done with approved methods that are specified in this certification, and PT studies must be passed using these methodologies. The laboratory annually must successfully complete a PT study for each analyte to be certified. Failure to do so, would result in the loss of approval status with this state. In addition, the laboratory should perform its first PT study within the first half of the year.

It is the laboratory's responsibility to keep the Department of Health Certification Program informed by continuing to submit results of applicable PT studies, copies of in-state on-site evaluation reports, and immediate notification of any significant changes. The certification of your laboratory in Hawaii is based on your in-state and or on your NELAP certification. Any loss of certification for a specific parameter will result in loss of Hawaii certification for that parameter. **As a result, any changes to your in-state and or your NELAP certification status must be submitted immediately.**

All samples that are contracted out by your laboratory for Hawaii regulatory drinking water monitoring purposes must be analyzed by laboratories that have been approved by the Hawaii Safe Drinking Water Program. A list of Hawaii approved certified laboratories is available from Guansheng (Frank) Jiao, Ph.D. (808-453-6679) or from the Hawaii Safe Drinking Water Program (808-586-4258).

To avoid interruption of your approval, you must submit a written request for renewal at <u>least two months prior to the expiration date indicated above</u>.

If you have any questions, please call Guansheng (Frank) Jiao, Ph.D., Laboratory Certification Officer, at (808) 453-6679. Thank you for your time and efforts.

Sincerely,

Edward P. Desmond

Edward P. Desmond, Ph.D., D(ABMM)
State Laboratories Division Administrator

ED:gj

Enclosure

c: D. Lopez, Chief, Safe Drinking Water Branch

It is recommended that data from the following laboratory be accepted for drinking water analyses for regulatory purposes by the Hawaii Department of Health, Safe Drinking Water Branch for the contaminants listed.

Effective Date: August 1, 2023
Expiration Date: January 29, 2024

Accreditation Authority: Oregon NELAP

Enthalpy Analytical
931 W. Barkley Ave.
Orange, California 92868
(714) 771-6900

Inorganic Chemistry and Physical Properties of Drinking Water

pH	EPA 150.1, SM 4500-H+ B
Turbidity	EPA 180.1, SM 2130B
Calcium hardness as $CaCO_3$	EPA 200.7
Total hardness as $CaCO_3$	EPA 200.7
Alkalinity as CaCO3	SM 2320B
Residue-filterable (TDS)	SM 2540 C-97
Residue-nonfilterable (TSS)	SM 2540 D-2011
Chlorine, Free and Total	SM 4500Cl G
Dissolved organic carbon	SM 5310 B
Total organic carbon	SM 5310 B
Chloride	EPA 300.0
Fluoride	EPA 300.0, SM 4500-F C
Nitrate as N	EPA 300.0, SM 4500-NO_3^- F
Nitrate plus Nitrite as N	EPA 300.0, SM 4500-NO_3^- F
Nitrite as N	EPA 300.0, SM 4500-NO_3^- F
Sulfate	EPA 300.0
Perchlorate	EPA 314.0
Total cyanide	EPA 335.4, SM 4500-CN E-1999

Inorganic Chemistry Trace Metals of Drinking Water

Aluminum	EPA 200.7, 200.8
Antimony	EPA 200.8
Arsenic	EPA 200.8
Barium	EPA 200.7, 200.8
Beryllium	EPA 200.7, 200.8
Boron	EPA 200.7, 200.8
Cadmium	EPA 200.7, 200.8
Calcium	EPA 200.7, 200.8

Chromium	EPA 200.7, 200.8
Copper	EPA 200.7, 200.8
Iron	EPA 200.7, 200.8
Lead	EPA 200.8
Magnesium	EPA 200.7, 200.8
Manganese	EPA 200.7, 200.8
Molybdenum	EPA 200.8
Nickel	EPA 200.7, 200.8
Potassium	EPA 200.7, 200.8
Selenium	EPA 200.8
Silica as SiO_2	EPA 200.7, SM 4500-SiO_2 C, 4500-SiO_2 D
Silver	EPA 200.7, 200.8
Sodium	EPA 200.7
Thallium	EPA 200.8
Vanadium	EPA 200.8
Zinc	EPA 200.7, 200.8
Mercury	EPA 245.1

Organic Chemistry of Drinking Water

1,1,1,2-Tetrachloroethane	EPA 524.2
1,1,1-Trichloroethane	EPA 524.2
1,1,2,2-Tetrachloroethane	EPA 524.2
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 524.2
1,1,2-Trichloroethane	EPA 524.2
1,1-Dichloroethane	EPA 524.2
1,1-Dichloroethylene	EPA 524.2
1,1-Dichloropropene	EPA 524.2
1,2,3-Trichloropropane	EPA 524.2
1,2,4-Trichlorobenzene	EPA 524.2
1,2,4-Trimethylbenzene	EPA 524.2
1,2-Dichlorobenzene	EPA 524.2
1,2-Dichloroethane (Ethylene dichloride)	EPA 524.2
1,2-Dichloropropane	EPA 524.2
1,3,5-Trimethylbenzene	EPA 524.2
1,3-Dichlorobenze	EPA 524.2
1,3-Dichloropropane	EPA 524.2
1,4-Dichlorobenzene	EPA 524.2
2,2-Dichloropropane	EPA 524.2
2-Chlorotoluene	EPA 524.2
4-Chlorotoluene	EPA 524.2
4-Isopropyltoluene (p-Cymene)	EPA 524.2
Benzene	EPA 524.2
Bromobenzene	EPA 524.2
Bromochloromethane	EPA 524.2
Bromodichloromethane	EPA 524.2
Bromoform	EPA 524.2
Carbon tetrachloride	EPA 524.2

Chlorobenzene	EPA 524.2
Chlorodibromomethane	EPA 524.2
Chloroethane (Ethyl chloride)	EPA 524.2
Chloroform	EPA 524.2
Cis-1,2-dichloroethylene	EPA 524.2
Cis-1,3-dichloropropene	EPA 524.2
Di-isopropylether (DIPE)	EPA 524.2
Dibromomethane (Methylene bromide)	EPA 524.2
Dichlorodifluoromethane (Freon-12)	EPA 524.2
Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methlpropane)	EPA 524.2
Ethylbenzene	EPA 524.2
Hexachlorobutadiene	EPA 524.2
Isopropylbenzene (Cumene)	EPA 524.2
Methyl chloride (Chloromethane)	EPA 524.2
Methyl tert-butyl ether (MTBE)	EPA 524.2
Methylene chloride (Dichloromethane)	EPA 524.2
n-Butylbenzene	EPA 524.2
n-Propylbenzene	EPA 524.2
sce-Butylbenzene	EPA 524.2
Styrene	EPA 524.2
T-amylmethylether (TAME)	EPA 524.2
Tert-butyl alcohol	EPA 524.2
Tert-butylbenzene	EPA 524.2
Tetrachloroethylene (Perchloroethylene)	EPA 524.2
Toluene	EPA 524.2
Total trihalomethanes	EPA 524.2
Trans-1,2-Dichloroethylene	EPA 524.2
Trichloroethene (Trichloroethylene)	EPA 524.2
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 524.2
Vinyl Chloride	EPA 524.2

RECOMMENDED:

gs Jiao Aug 1, 2023

Guansheng Jiao, Ph.D. Date
Certification Officer

APPROVED:

Edward P. Desmond Aug 3, 2023

Edward P. Desmond, Ph.D., D(ABMM) Date
State Laboratories Division Administrator