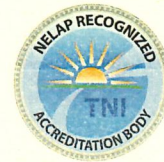




**Oregon
Environmental Laboratory
Accreditation Program**



NELAP Recognized

Enthalpy Analytical, LLC

4053

4340 Vandever Avenue

San Diego, CA 92120

IS GRANTED APPROVAL BY ORELAP UNDER THE 2016 TNI STANDARDS, TO PERFORM
ANALYSES ON ENVIRONMENTAL SAMPLES IN MATRICES AS LISTED BELOW :

Air Drinking Water

Non-Potable Water

Solids and Chemical Waste

Tissue

Toxicity Testing

Toxicity Testing

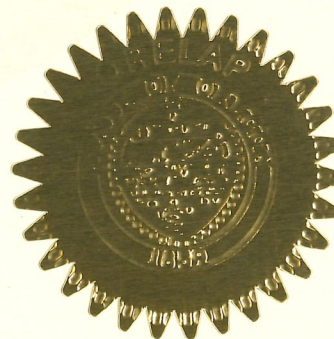
AND AS RECORDED IN THE LIST OF APPROVED ANALYTES, METHODS, ANALYTICAL TECHNIQUES, AND
FIELDS OF TESTING ISSUED CONCURRENTLY WITH THIS CERTIFICATE AND REVISED AS NECESSARY.

ACCREDITED STATUS DEPENDS ON SUCCESSFUL ONGOING PARTICIPATION IN THE PROGRAM AND
CONTINUED COMPLIANCE WITH THE STANDARDS.

CUSTOMERS ARE URGED TO VERIFY THE LABORATORY'S CURRENT ACCREDITATION STATUS IN
OREGON.

Travis Bartholomew
Oregon State Public Health Laboratory
ORELAP Program Manager
7202 NE Evergreen Parkway, Suite 100
Hillsboro, OR 97124

EFFECTIVE DATE : 9/20/2022
EXPIRATION DATE : 9/19/2023
Certificate No : 4053 - 009





OREGON

Environmental Laboratory Accreditation Program

ORELAP Fields of Accreditation



Enthalpy Analytical, LLC

4340 Vandever Avenue
San Diego, CA 92120

ORELAP ID: 4053

EPA CODE: CA01257

Certificate: 4053 - 009

Issue Date: 9/20/2022 Expiration Date: 9/19/2023

As of 9/20/2022 this list supersedes all previous lists for this certificate number.

| Matrix | Reference | Analyte Code | Analyte | Method Code | Description |
|--------------------------|----------------------------|--------------|-------------------------------|-------------|---|
| Non-Potable Water | | | | | |
| | EPA 600/R-95/136 1st | 920 | | | SHORT-TERM METHODS FOR ESTIMATING THE CHRONIC TOXICITY OF EFFLUENTS AND RECEIVING WATERS TO WEST COAST MARINE AND ESTUARINE ORGANISMS |
| | | 3310 | Atherinops affinis | | |
| | | 3335 | Crassostrea gigas | | |
| | | 3351 | Dendraster excentricus | | |
| | | 3362 | Haliotis rufescens | | |
| | | 3370 | Holmesimysis costata | | |
| | | 3375 | Macrocystis pyrifera | | |
| | | 3400 | Mytilus spp. | | |
| | | 3430 | Strongylocentrotus purpuratus | | |
| | EPA 821/R-02/012; 2000.0 | 902 | | | Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms |
| | | 3410 | Pimephales promelas | | |
| | EPA 821/R-02/012; 2002.0 | 901 | | | Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms |
| | | 3315 | Ceriodaphnia dubia | | |
| | | 3372 | Hyalella azteca | | |
| | EPA 821/R-02/012; 2006.0 5 | 903 | | | Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms |
| | | 3310 | Atherinops affinis | | |
| | | 3380 | Menidia beryllina | | |
| | EPA 821/R-02/012; | 904 | | | Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms |



OREGON

Environmental Laboratory Accreditation Program

ORELAP Fields of Accreditation



Enthalpy Analytical, LLC

4340 Vandever Avenue
San Diego, CA 92120

ORELAP ID: 4053

EPA CODE: CA01257

Certificate: 4053 - 009

Issue Date: 9/20/2022 Expiration Date: 9/19/2023

As of 9/20/2022 this list supersedes all previous lists for this certificate number.

| Matrix | Reference | Analyte Code | Analyte | Method Code | Description |
|---------------------------------|-----------|--------------|---------------------------|-------------|---|
| | 2007.0 5 | | | | |
| | | 3395 | Americamysis bahia | | |
| EPA 821/R-02/012; 2021.0 5th | | | | 900 | Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms |
| | | 3350 | Daphnia magna | | |
| | | 3355 | Daphnia pulex | | |
| | | 3372 | Hyalella azteca | | |
| EPA 821/R-02/013; 1000.0 | | | | 10252605 | Fathead Minnow Larval Survival and Growth, chronic |
| | | 3410 | Pimephales promelas | | |
| EPA 821/R-02/013; 1002.0 | | | | 10253006 | Daphnid Survival and Reproduction, chronic (EPA 821/R-02/013) |
| | | 3315 | Ceriodaphnia dubia | | |
| EPA 821/R-02/013; 1003.0 | | | | 10253200 | Green Alga Growth, chronic (EPA 821/R-02/013) |
| | | 3420 | Selenastrum capricornutum | | |
| EPA 821/R-02/014; 1006.0 | | | | 10253802 | Inland Silverside Larval Survival and Growth, chronic (EPA 821/R-02/014) |
| | | 3380 | Menidia beryllina | | |
| EPA 821/R-02/014; 1007.0 | | | | 10254009 | Mysid Survival, Growth, and Fecundity, chronic (EPA 821/R-02/014) |
| | | 3395 | Americamysis bahia | | |

Solids

| | | | |
|---------------------|------|--------------|---|
| ASTM E 1022 - 94 | | 919 | Standard Guide for Conducting Bioconcentration Tests with Fishes and Saltwater Bivalve Mollusks |
| | 3400 | Mytilus spp. | |



OREGON

Environmental Laboratory Accreditation Program

ORELAP Fields of Accreditation



Enthalpy Analytical, LLC

4340 Vandever Avenue
San Diego, CA 92120

ORELAP ID: 4053

EPA CODE: CA01257

Certificate: 4053 - 009

Issue Date: 9/20/2022 Expiration Date: 9/19/2023

As of 9/20/2022 this list supersedes all previous lists for this certificate number.

| Matrix | Reference | Analyte Code | Analyte | Method Code | Description |
|--------|---------------------|--------------|-------------------------------|-------------|---|
| | ASTM E 1367-03 2008 | | | 912 | Standard Test Method for Measuring the Toxicity of Sediment-Associated Contaminants with Estuarine and Marine Invertebrates |
| | | 3302 | Ampelisca abdita | | |
| | | 3358 | Eohaustorius estuarius | | |
| | | 3461 | Leptocheirus Plumulosus | | |
| | | 3413 | Rhepoxynius abronius | | |
| | ASTM E 1563-98 2008 | | | 913 | Standard Guide for Conducting Static Acute Toxicity Tests with Echinoid Embryos |
| | | 3351 | Dendraster excentricus | | |
| | | 3430 | Strongylocentrotus purpuratus | | |
| | ASTM E 1611 | | | 957 | Standard Guide for Conducting Sediment Toxicity Tests with Polychaetous Annelids |
| | | 3401 | Neanthes arenaceodentata | | |
| | ASTM E 1676-12 2012 | | | 914 | Standard Guide for Conducting Laboratory Soil Toxicity or Bioaccumulation Tests with the Lumbricid Earthworm Eisenia Fetida and the Enchytraeid Potworm Enchytraeus albidus |
| | | 3357 | Eisenia fetida | | |
| | ASTM E 1688-19 2019 | | | 915 | Standard Guide for Determination of the Bioaccumulation of Sediment-Associated Contaminants by Benthic Invertebrates |
| | | 3463 | Lumbriculus variegatus | | |
| | | 3464 | Macoma nasuta | | |
| | | 3402 | Nereis virens | | |
| | ASTM E 1706-20 2020 | | | 916 | Standard Test Method for Measuring the Toxicity of Sediment-Associated Contaminants with Freshwater Invertebrates |
| | | 3323 | Chironomus dilutus | | |
| | | 3372 | Hyalella azteca | | |
| | | 3463 | Lumbriculus variegatus | | |
| | ASTM E 724-98 2012 | | | 917 | Standard Guide for Conducting Static Acute Toxicity Tests Starting with Embryos of Four Species of Saltwater Bivalve Molluscs |



OREGON

Environmental Laboratory Accreditation Program

ORELAP Fields of Accreditation



Enthalpy Analytical, LLC

4340 Vandever Avenue
San Diego, CA 92120

ORELAP ID: 4053

EPA CODE: CA01257

Certificate: 4053 - 009

Issue Date: 9/20/2022 Expiration Date: 9/19/2023

As of 9/20/2022 this list supersedes all previous lists for this certificate number.

| Matrix | Reference | Analyte Code | Analyte | Method Code | Description |
|-------------------------------|-----------|--------------|-------------------------|-------------|--|
| | | 3335 | Crassostrea gigas | | |
| | | 3400 | Mytilus spp. | | |
| EPA 600/R-01/020 | | | | 956 | Method for Assessing the Chronic Toxicity of Marine and Estuarine Sediment-associated Contaminants with the Amphipod Leptocheirus plumulosus |
| | | 3461 | Leptocheirus Plumulosus | | |
| EPA 600/R-94/025; 100.4 | | | | 952 | Methods for Measuring the Toxicity and Bioaccumulation of Sediment-Associated Contaminants With Freshwater Invertebrates |
| | | 3302 | Ampelisca abdita | | |
| | | 3358 | Eohaustorius estuarius | | |
| | | 3461 | Leptocheirus Plumulosus | | |
| | | 3413 | Rhepoxynius abronius | | |
| EPA 600/R-99/064; 100.1 2nd | | | | 950 | Methods for Measuring the Toxicity and Bioaccumulation of Sediment-associated Contaminants with Freshwater Invertebrates |
| | | 3372 | Hyalella azteca | | |
| EPA 600/R-99/064; 100.2 2 | | | | 906 | Methods for Measuring the Toxicity and Bioaccumulation of Sediment-associated Contaminants with Freshwater Invertebrates |
| | | 3323 | Chironomus dilutus | | |
| EPA 600/R-99/064; 100.3 2 | | | | 907 | Methods for Measuring the Toxicity and Bioaccumulation of Sediment-associated Contaminants with Freshwater Invertebrates |
| | | 3463 | Lumbriculus variegatus | | |
| EPA 600/R-99/064; 100.5 2 | | | | 953 | Methods for Measuring the Toxicity and Bioaccumulation of Sediment-associated Contaminants with Freshwater Invertebrates |
| | | 3323 | Chironomus dilutus | | |
| Polisini & Miller (CDFG 1988) | | | | 970 | Static Acute Bioassay Procedures for Hazardous Waste Samples |



OREGON

Environmental Laboratory Accreditation Program

ORELAP Fields of Accreditation



Enthalpy Analytical, LLC

4340 Vandever Avenue
San Diego, CA 92120

ORELAP ID: 4053

EPA CODE: CA01257

Certificate: 4053 - 009

Issue Date: 9/20/2022 Expiration Date: 9/19/2023

As of 9/20/2022 this list supersedes all previous lists for this certificate number.

| Matrix | Reference | Analyte Code | Analyte | Method Code | Description |
|---------------------|-----------|--------------|-------------------------------|-------------|--|
| | | 3410 | Pimephales promelas | | |
| PSEP (1995) 1995 | | | | 980 | Puget Sound Estuary Program Conventional Sediment Variables - Bioassay |
| | | 3302 | Ampelisca abdita | | |
| | | 3335 | Crassostrea gigas | | |
| | | 3351 | Dendraster excentricus | | |
| | | 3358 | Eohaustorius estuarius | | |
| | | 3400 | Mytilus spp. | | |
| | | 3401 | Neanthes arenaceodentata | | |
| | | 3413 | Rhepoxynius abronius | | |
| | | 3430 | Strongylocentrotus purpuratus | | |
| WDOE 80-12, 2020 | | | | 918 | Biological Test Methods for the Designation of Dangerous Waste |
| | | 3405 | Oncorhynchus mykiss | | |
| WDOE 96-327 | | | | 905 | Earthworm Bioassay Protocol for Soil Toxicity Screening |
| | | 3357 | Eisenia fetida | | |