



OREGON

Environmental Laboratory Accreditation Program



NELAP Recognized

EA - Nautilus Environmental

4053

4340 Vandever Avenue
San Diego, CA 92120

IS GRANTED APPROVAL BY ORELAP UNDER THE 2009 TNI STANDARDS, TO PERFORM ANALYSES ON ENVIRONMENTAL SAMPLES IN MATRICES AS LISTED BELOW :

<i>Air</i>	<i>Drinking Water</i>	<i>Non Potable Water</i>	<i>Solids and Chem. Waste</i>	<i>Tissue</i>
		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.

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ORELAP Program Manager
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Hillsboro, OR 97124

EFFECTIVE DATE : 09/20/2018

EXPIRATION DATE : 09/19/2019

Certificate No : 4053 - 005





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Environmental Laboratory Accreditation Program



ORELAP Fields of Accreditation

ORELAP ID: 4053

EA - Nautilus Environmental

EPA CODE: CA01257

4340 Vandever Avenue

Certificate: 4053 - 005

San Diego, CA 92120

Issue Date: 9/20/2018 Expiration Date: 9/19/2019

As of 9/20/2018 this list supersedes all previous lists for this certificate number.

MATRIX	Reference	Code	Analyte	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
		814	Giant Kelp (<i>M. pyrifera</i>)		
		813	Mussels (<i>Mytilus</i> spp.)		
		835	Mysid (<i>H.costata</i>)		
		810	Pacific oyster (<i>C. gigas</i>)		
		812	Purple Sea Urchin (<i>S. purpuratus</i>)		
		815	Red Abalone (<i>H. rufescens</i>)		
		811	Sand Dollar (<i>D. excentricus</i>)		
		807	Topsmelt (<i>A affinis</i>)		
		EPA 821/R-02/012; 2000.0			902
		800	Fathead Minnow (<i>P. promelas</i>)		
	EPA 821/R-02/012; 2002.0			901	Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms
		818	Amphipod (<i>H. azteca</i>)		
		802	Daphnid (<i>C. dubia</i>)		
	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
		804	Silverside (<i>Menidia</i> spp.)		
		807	Topsmelt (<i>A affinis</i>)		
	EPA 821/R-02/012; 2007.0 5			904	Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms
		806	Mysid (<i>M. bahia</i>)		
	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
		818	Amphipod (<i>H. azteca</i>)		
		803	Daphnia spp.		
	EPA 821/R-02/013; 1000.0			10252605	Fathead Minnow Larval Survival and Growth, chronic
		800	Fathead Minnow (<i>P. promelas</i>)		



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Field	Standard	Method	Code	Description
Non-Potable Water	EPA 821/R-02/013; 1002.0	802	10253006	Daphnid Survival and Reproduction, chronic (EPA 821/R-02/013)
				Daphnid (<i>C. dubia</i>)
	EPA 821/R-02/013; 1003.0	808	10253200	Green Alga Growth, chronic (EPA 821/R-02/013)
				Green algae (<i>S. capricornutum</i>)
	EPA 821/R-02/014; 1006.0	804	10253802	Inland Siverside Larval Survival and Growth, chronic (EPA 821/R-02/014)
				Silverside (<i>Menidia</i> spp.)
	EPA 821/R-02/014; 1007.0	806	10254009	Mysid Survival, Growth, and Fecundity, chronic (EPA 821/R-02/014)
				Mysid (<i>M. bahia</i>)
Solids	ASTM E 1022 - 94	3400	919	Standard Guide for Conducting Bioconcentration Tests with Fishes and Saltwater Bivalve Mollusks
				<i>Mytilus</i> spp.
	ASTM E 1367-03 2008	821	912	Standard Test Method for Measuring the Toxicity of Sediment-Associated Contaminants with Estuarine and Marine Invertebrates
				Amphipod (<i>A. abdita</i>)
		822		Amphipod (<i>E. estuarius</i>)
		823		Amphipod (<i>L. plumulosus</i>)
		824		Amphipod (<i>R. abronius</i>)
	ASTM E 1563-98 2008	812	913	Standard Guide for Conducting Static Acute Toxicity Tests with Echinoid Embryos
				Purple Sea Urchin (<i>S. purpuratus</i>)
		811		Sand Dollar (<i>D. excentricus</i>)
	ASTM E 1611	828	957	Standard Guide for Conducting Sediment Toxicity Tests with Polychaetous Annelids
				Polychaete (<i>N. arenaceodentata</i>)
	ASTM E 1676-12 2012	825	914	Standard Guide for Conducting Laboratory Soil Toxicity or Bioaccumulation Tests with the Lumbricid Earthworm <i>Eisenia Fetida</i> and the Enchytraeid Potworm <i>Enchytraeus albidus</i>
			<i>Eisenia</i>	
ASTM E 1688-10 2010	827	915	Standard Guide for Determination of the Bioaccumulation of Sediment-Associated Contaminants by Benthic Invertebrates	
			<i>Macoma</i>	
	3402		<i>Nereis virens</i>	
	820		Oligochaete (<i>L. variegatus</i>)	



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Method	Method Number	Organism	Method Number	Description
Solids	ASTM E 1706-05 2010		916	Standard Test Method for Measuring the Toxicity of Sediment-Associated Contaminants with Freshwater Invertebrates
		818 Amphipod (<i>H. azteca</i>)		
		819 Midge (<i>C. tentans</i>)		
		820 Oligochaete (<i>L. variegatus</i>)		
	ASTM E 724-98 2012		917	Standard Guide for Conducting Static Acute Toxicity Tests Starting with Embryos of Four Species of Saltwater Bivalve Molluscs
		3400 <i>Mytilus</i> spp.		
		810 Pacific oyster (<i>C. gigas</i>)		
	EPA 600/R-01/020		956	Method for Assessing the Chronic Toxicity of Marine and Estuarine Sediment-associated Contaminants with the Amphipod <i>Leptocheirus plumulosus</i>
		823 Amphipod (<i>L. plumulosus</i>)		
	EPA 600/R-94/025; 100.4		952	Methods for Measuring the Toxicity and Bioaccumulation of Sediment-Associated Contaminants With Freshwater Invertebrates
		821 Amphipod (<i>A. abdita</i>)		
		822 Amphipod (<i>E. estuarius</i>)		
		823 Amphipod (<i>L. plumulosus</i>)		
		824 Amphipod (<i>R. abronius</i>)		
	EPA 600/R-99/064; 100.1 2nd		950	Methods for Measuring the Toxicity and Bioaccumulation of Sediment-associated Contaminants with Freshwater Invertebrates
		818 Amphipod (<i>H. azteca</i>)		
	EPA 600/R-99/064; 100.2 2		906	Methods for Measuring the Toxicity and Bioaccumulation of Sediment-associated Contaminants with Freshwater Invertebrates
		819 Midge (<i>C. tentans</i>)		
	EPA 600/R-99/064; 100.3 2		907	Methods for Measuring the Toxicity and Bioaccumulation of Sediment-associated Contaminants with Freshwater Invertebrates
		820 Oligochaete (<i>L. variegatus</i>)		
	EPA 600/R-99/064; 100.5 2		953	Methods for Measuring the Toxicity and Bioaccumulation of Sediment-associated Contaminants with Freshwater Invertebrates
		819 Midge (<i>C. tentans</i>)		
	Polisini & Miller (CDFG 1988)		970	Static Acute Bioassay Procedures for Hazardous Waste Samples
		800 Fathead Minnow (<i>P. promelas</i>)		



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Solids	PSEP (1995) 1995	980	Puget Sound Estuary Program Conventional Sediment Variables - Bioassay
	821	Amphipod (A. abdita)	
	822	Amphipod (E. estuarius)	
	824	Amphipod (R. abronius)	
	834	Bivalve	
	833	Echinoderm	
	828	Polychaete (N. arenaceodentata)	
WDOE 80-12, 2009		918	Biological Test Methods for the Designation of Dangerous Waste
	801	Rainbow Trout (O. mykiss)	
WDOE 96-327		905	Earthworm Bioassay Protocol for Soil Toxicity Screening
	825	Eisenia	

