



INTERNATIONAL
ACCREDITATION
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CERTIFICATE OF ACCREDITATION

This is to attest that

GOLDEN BEAR RESEARCH CENTER

200 MARITIME ACADEMY DRIVE
VALLEJO, CALIFORNIA 94590 U.S.A.

Testing Laboratory TL-954

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date August 21, 2024



International Accreditation Service
Issued under the authority of IAS management

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SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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GOLDEN BEAR RESEARCH CENTER

www.csum.edu/gbf/index.html

Contact Name Stephen Loiacono

Contact Phone +919 917-4408

Accredited to ISO/IEC 17025:2017

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Environmental – Maritime Chemistry	Ballast Water	Specific UV-Absorbance (SUVA)	SOP-GBF-BC-1 Based on Welschmeyer, N.A. 1994. Fluorometric analysis of chlorophyll a in the presence of chlorophyll b and phaeopigments. Limnol. Oceanogr. 39(8): 1985-1992
		pH and Salinity	SOP-GBF-BC-3
		Mineral Matter (MM)	SOP-GBF-BC-6 Based on USEPA 160.2. Gravimetric determination of Total Suspended Solids (TSS), Mineral Matter (MM) and Ash Free Dry Weight (AFDW) in ballast water
		Ash Free Dry Weight (AFDW)	
Environmental – Maritime Biology/Microbiology	Ballast Water	Microscope Viability determination: <i>Zooplankton Organisms</i> ≥50 µm	SOP-GBF-BC-7 Based on EPA/ETV Generic Protocol for the Verification of Ballast Water Treatment Technologies, v4.2 (2010).
		Viable Organisms ≥10 and <50 µm- <i>FDA/CMFDA</i> <i>Epifluorescence Analysis</i>	SOP-GBF-BC-9 Based on EPA/ETV Generic Protocol for the Verification of Ballast Water Treatment Technologies, v4.2 (2010).

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