

BENTOS, was incorporated in 1994 to satisfy the growing needs of companies in the field of marine services. These services focus on the following areas: design support and operation of maritime works and submarine cables (communications and power cables).

The company is backed by the experience of its professionals who have performed for years as consultants for international companies or have performed research at universities. This group of professionals has interacted closely in recent years achieving consolidation in the joint execution of various projects in a work style characterized by their capabilities and adequate operating costs.

In addition, our firm has maintained a sound policy of training, which has enabled us to have an appropriate infrastructure and economic resources to rely on to undertake work of different size and scope with assured solvency.

WORK AREAS

Our company is prepared to undertake all tasks involved in a marine study: i.e., design of the work, logistics and field operations, data analysis, relations with the authorities and preparation of reports.

The work areas of BENTOS are as follow:

- **Coastal Oceanography:** Studies of currents, tides, wave climate, meteorology, dispersion, sediment transport and numerical modeling.
- **Hydrography:** Single beam and multibeam bathymetry, surveying and geodesy.
- **Geophysics:** Side scan sonar, sub bottom profiler (pinger and chirp), boomer, sparker magnetometry.
- **Submarine Cables:** DTS, and Survey. Definition of routes, logistics, submarine cable laying and repair.
- **Submarine image:** ROV, video, photography.
- **Technical Diving:** Diving for inspections of constructed works and submerged structures, submarine sampling, in situ submarine tests, installation and review of submarine instruments.
- **Environment:** Marine environmental studies.

In addition, BENTOS is the exclusive representative of the following firms in Chile:

- FALMOUTH SCIENTIFIC INC: Oceanographic equipment.
- HYPACK: Hydrographic software.
- IMAGENEX TECHNOLOGY CORP.: Sonars.
- KC-DENMARK: Sampling equipment.
- MOORING SYSTEMS INC.: Sediment sampling equipment and instrument anchoring.
- RBR: Submergible sensors and data loggers.
- R2SONIC: Multibeam sonars.
- TELEDYNE BLUE VIEW: Imaging sonars.
- TELEDYNE RD INSTRUMENTS: Acoustic Doppler profilers and CTDs.
- TELEDYNE IMPULSE.
- WOODS HOLE GROUP: Integration of sensors, laboratories and other services.
- XEOS TECHNOLOGIES
- AXYS TECHNOLOGIES
- LYYN
- SEA & SUN TECHNOLOGY
- AGEOTEC
- ROMOR
- OCEAN WISE

COMPANY PERFORMANCE RECORD

BENTOS has performed the following studies:

ENVIRONMENTAL STUDIES

Environmental Impact Declaration, Maritime terminal, First Administrative Region, Chile. , **MINERAL MINING COMPANY**. 2015.

Water and marine sediments sampling, Marine infauna and Bioassays analysis. Project: Codelco – Evaluation Copper Concentrate Spill over the Chañaral Sea, Third Administrative Region. **FUNDACIÓN CHILE**. 2015

Marine Bioassays and Water Quality Study on Mining Industrial Effluent, Bahía Chapaco, Third Administrative Region. **COMPAÑÍA MINERA DEL PACÍFICO S.A.** 2012 – 2013.

Preliminary Archeological Evaluation of Shipwreck items found in the Iquique Roadstead, Stage 0 of the Submarine Archeological Studies Corresponding to the Dredging to Deepen the Port at Berth Nº 4 Of Puerto de Iquique, First Administrative Region, Chile. **IQUIQUE TERMINAL INTERNACIONAL S.A.** 2012.

Environmental Impact Declaration of Dredging to Deepen the Port and Baseline Study of the Dredging Material Disposal Area, Iquique, First Administrative Region, Chile. **IQUIQUE TERMINAL INTERNACIONAL S.A.** 2011.

Environmental Impact Declaration, ASMAR (T) Dock Dredging Project, Talcahuano, Eighth Administrative Region, Chile. **PRDW ALDUNATE VÁSQUEZ SERVICIOS LTDA.** 2010.

Environmental Impact Declaration, Second Stage Dredging of Front 2B at Puerto de Arica, **TERMINAL PUERTO DE ARICA S.A.** 2010.

Oceanography Studies: Water Quality with Approval of SHOA, Puerto Yungay”, **CENTRALES HIDROELÉCTRICAS DE AYSÉN S.A.** 2008 - 2009.

Oceanography Studies: Water Quality with Approval of SHOA, Puerto Río Bravo”, **CENTRALES HIDROELÉCTRICAS DE AYSÉN S.A.** 2008 - 2009.

Study and Design for the Improvement, Maritime Connectivity of Puerto Montt – Chiloé – Palena Maritime Network, Caleta La Arena, Tenth Administrative Region. **PRDW AV – PORT WORKS DEPARTMENT (DOP)**. 2008 - 2009.

Study and Design for the Improvement, Maritime Connectivity of Puerto Montt – Chiloé – Palena Maritime Network, Tenth Administrative Region. **PRDW AV - PORT WORKS DEPARTMENT (DOP)**. 2008 - 2009.

Environmental Impact Declaration, Second Stage Dredging of Front 2B at Puerto de Arica. **TERMINAL PUERTO DE ARICA S.A.** 2009.

Support Services for the Environmental Oversight Plan for Port Dredging, Arica. **TERMINAL PUERTO DE ARICA S.A.** 2008.

Water Quality and Sediment Quality Studies and Subtidal Benthic Studies, Puerto Yungay, Eleventh Administrative Region. **CENTRALES HIDROELÉCTRICAS DE AYSÉN S.A.** 2008 - 2009.

Water Quality and Sediment Quality Studies and Subtidal and Intertidal Benthic Studies, Puerto Río Bravo, Eleventh Administrative Region. **CENTRALES HIDROELÉCTRICAS DE AYSÉN S.A.** 2008 - 2009.

Marine Baseline, Caleta Coloso Mining Load-out Terminal, Second Administrative Region, Chile. **MWH AMERICAS INC. CHILE LTDA.** 2008.

Marine Environmental Baseline, Riesco Island, Seno Otway, Twelfth Administrative Region, Chile. **GOLDER ASSOCIATES.** 2007.

Environmental Impact Declaration, Salmonid Fattening Facility in the Sea, Caleta Ayacara, Tenth Administrative Region, Chile. **SALMONES CHILOÉ S.A.,** 2006.

Environmental Impact Declaration, Salmonid Fattening Facility in the Sea, Caleta Buill, Tenth Administrative Region, Chile. **SALMONES CHILOÉ S.A.,** 2006.

Environmental Impact Declaration, Salmonid Fattening Facility in the Sea, Estero Huequi, Tenth Administrative Region, Chile. **SALMONES CHILOÉ S.A.,** 2006.

Environmental Impact Declaration, Berth 3 Dredging Project at Puerto de Arica, First Administrative Region, Chile. **TERMINAL PUERTO DE ARICA S.A.** 2005- 2006.

Environmental Impact Declaration, Seismic-resistant Dock Construction at Berth 3, Puerto de Arica, First Administrative Region, Chile. **TERMINAL PUERTO ARICA S.A.** 2005.

Baseline Study, Artisanal Fishing Dock Implementation and Expansion, Bahía Chilota, Twelfth Administrative Region, Chile. **GEOVENOR.** 2005.

Monitoring of Levels of Turbidity in the Water During Dredging Work, Puerto de Antofagasta, Second Administrative Region, Chile. Monitoring of Suspended Solids in the Water Column. **EMPRESA CONSTRUCTORA TECSA S.A.** 2004 - 2005.

Environmental Study for an Elevated Discharge Pipe, Constitución Market Pulp Mill, Constitución, Seventh Administrative Region, Chile. (Environmental Study for the Improvement of the Discharge of Mill Effluent to the Sea). **CELULOSA ARAUCO Y CONSTITUCIÓN.** 2004 - 2005.

Environmental Impact Declaration for the siting of a Salmonid Fattening Facility in the Sea, Sánchez Island, Eleventh Administrative Region, Chile. **MARINE HARVEST S.A.** 2004.

Environmental Impact Declaration for the siting of a Salmonid Fattening Facility in the Sea, Verdugo Island, Eleventh Administrative Region, Chile. **MARINE HARVEST S.A.** 2004.

Environmental Impact Declaration. Antofagasta Terminal Internacional Berth 4 and 5 Improvement Project, Puerto de Antofagasta, Second Administrative Region, Chile. **ANTOFAGASTA TERMINAL INTERNACIONAL S.A.** (ATI). 2004.

Preparation of Concession and Geographic Location Map Format, Chiloé Island Area, Tenth Administrative Region, Chile. **UNDERSECRETARIAT OF FISHING.** 2003 -2004.

Preliminary Site Characterization (PSC), for a future salmonid fattening facility at a site on Seno Lyell, Capitán Aracena Island, Twelfth Administrative Region, Chile. **PESCA CHILE S.A.** 2003.

Environmental Impact Declaration, Salmonid Fattening Facility in the Sea, Huequi Peninsula, West-Northwest Area of Punta Quillón, Municipal District of Chaitén, Tenth Administrative Region, Chile. **PACIFIC SEAFOOD S.A.** 2002.

Environmental Impact Declaration, Salmonid Fattening Facility in the Sea, Caleta Buill, Northwest Area of Caleta Buill, Municipal District of Chaitén, Tenth Administrative Region, Chile. **PACIFIC SEAFOOD S.A.** 2002.

Environmental Impact Declaration, Salmonid Fattening Facility in the Sea, Caleta Ayacara, Northwest Area de Caleta Ayacara, Municipal District of Chaitén, Tenth Administrative Region, Chile. **PACIFIC SEAFOOD S.A.** 2002.

Environmental Impact Declaration, Salmonid Fattening Facility in the Sea, North of Caleta and Punta Calle, Estero Comau, Municipal District of Chaitén, Tenth Administrative Region, Chile. **PACIFIC SEAFOOD.** 2002.

Consultancy for Evaluation of Marine Environmental Monitoring, Punta Chungo Concentrate Load-out Terminal, Los Vilos, Fourth Administrative Region, Chile. **MINERA LOS PELAMBRES.** 2002.

Environmental Impact Declaration. Project for a Short Seismic Resistant Dock for Post-Panamax Vessels, Berth 4 - Puerto de Iquique," First Administrative Region, Chile. **IQUIQUE TERMINAL INTERNACIONAL S.A.** 2002.

Environmental Impact Declaration, Salmonid Fattening Facility in the Sea, Canal Jacaf, Punta Porvenir and Wargny Island, Eleventh Administrative Region, Chile. **CULTIVOS MARINOS CHILOÉ LTDA.** 2002.

Environmental Impact Declaration, Salmonid Fattening Facility in the Sea, Estero Queulat, Eleventh Administrative Region, Chile. **SALMONES UNIMARC S.A.** 2002.

Audit on a Marine Environmental Study. Puerto Caucedo Multimodal Terminal Project, Dominican Republic, **ARDEN & PRICE CONSULTING- PANAMÁ**. 2001.

Environmental Impact Declaration, Project for Fattening Clams, Oysters and Red Abalone from Shellfish Seed, Chingüitad Area, Tenth Administrative Region, Chile. **A. KARKLING**. 2001.

Environmental Impact Declaration, Project for Fattening Clams from Shellfish Seed, Liucura Area, Canal Yal, Tenth Administrative Region, Chile. **TORALLA S.A.** 2001.

Environmental Audit on Puerto San Vicente. San Vicente, Eighth Administrative Region, Chile. **SAN VICENTE TERMINAL INTERNACIONAL**. 2001.

Aquatic Baseline Study, Yulton, Meullín, Elizalde, Caro, Cóndor and Riesco Lakes; Cóndor, Blanco, Dangle, Candelaria and Cuervo Rivers for Proyecto ALUMYSA Ltda. Aysén, Eleventh Administrative Region, Chile. **CH2M HILL CHILE LTDA.** 2000.

Environmental Monitoring, Water Quality in Bahía Chacabuco (Seno Aysén) Shipping Facility, May 1999, Bahía Chacabuco, Eleventh Administrative Region, Chile. **COMPAÑÍA MINERA CDE FACHINAL LTDA.** 1999.

Environmental Impact Study, Antofagasta Desalination Plant Project, Antofagasta, Second Administrative Region, Chile. **CONSORCIO US FILTER CORP-SK.** 1999.

Environmental Assessment of Hydrocarbon Spill from the Vessel *Irish Sea* grounded at Paso Shoal. Twelfth Administrative Region, Chile. **ULTRAGAS S.A.** 1999.

Consultancy for the Definition of a Technical-Economic Bid Proposal for Submittal in the Tender for the Operation of the Punta Chungo Concentrate Load-out Terminal (Minera Los Pelambres), Los Vilos, Fourth Administrative Region, Chile. **AGUNSA S.A.** 1999.

Definition of the Environmental Policy of Minera Anaconda Chile S.A. **COMPAÑÍA MINERA ANACONDA CHILE S.A.** 1999.

Bioassays of Resistance of Marine Organisms to Heat and Chlorination, Proyecto Tocopilla Combined Cycle Thermal Electric Power Plant, Tocopilla, Second Administrative Region, Chile. **ELECTROANDINA S.A.** 1999.

Study of Archeological, Socioeconomic and Flora and Fauna Environmental Impact, La Pintana Garbage Transfer Station Project, Kiasa S.A. La Pintana, Santiago Metropolitan Region, Chile. **SK ECOLOGÍA S.A.** 1999.

Study of Determination of the State of Gonadal Maturity in Specimens of Carmelitas and Pejerrey Chileno Fish in the Lolenco Bridge Area, Curacaví. Concón-Maipú Oil Pipeline Construction Project, Sonacol S.A., Curacaví, Santiago Metropolitan Region, Chile. **S & P INGENIERÍA AMBIENTAL LTDA.** 1999.

Environmental Monitoring: Water Quality in (Seno Aysén) Shipping Facility, December 1998. Bahía Chacabuco, Eleventh Administrative Region, Chile. **COMPAÑÍA MINERA CDE FACHINAL LTDA.** 1998.

Archeological Exploration, Illapel River Reservoir Project. Illapel, Fourth Administrative Region, Chile. **INGENDESA S.A.** 1998.

Archeological Exploration, Chonchi Electric Power Transmission Line Project, Chonchi, Chiloé Island, Tenth Administrative Region, Chile. **INGENDESA S.A.** 1998.

Archeological Exploration, Laguna Barroso Intake Project for Codelco Chile's, Andina Division. Santiago Metropolitan Region, Chile. **INGENDESA S.A.** 1998.

Archeological Exploration, Electric Power Supply Project for the Companies Atacama Minerals and El Peñón, Second Administrative Region, Chile. **INGENDESA S.A.** 1998.

Oceanographic Study for Engineering and Environmental Applications, Mejillones, Second Administrative Region, Chile. **COMPLEJO PORTUARIO MEJILLONES S.A.** 1998.

Review of the Literature on Cultural Resources in the Site Area of the Pascua – Baker – Polpaico Electric Power Transmission Line Project. Fifth to Eleventh Administrative Regions, Chile. **INGENDESA S.A.** 1998.

Environmental Monitoring: Water Quality in General Carrera Lake (Chile Chico, Bahía Jara and Puerto Ingeniero Ibáñez) and Bahía Chacabuco, Eleventh Administrative Region, Chile. **COMPAÑÍA MINERA CDE FACHINAL LTDA.** 1998.

Archeological Exploration, Villarrica Lake, Eleventh Administrative Region, Chile. **INGENDESA S.A.** 1998.

Environmental Impact Study: Marine Environment, Cuervo River. Seno Aysén, Eleventh Administrative Region, Chile. **PROYECTO ALUMYSA LTDA.** 1997.

Environmental Impact Study: Marine Environment, Bahía Chacabuco. Seno Aysén, Eleventh Administrative Region, Chile. **PROYECTO ALUMYSA LTDA.** 1997.

Manual of Environmental Specifications for Port Construction. Uruguay. **MINISTRY OF PUBLIC WORKS AND TRANSPORTATION, REPUBLIC OF URUGUAY.** 1997.

Terrestrial Baseline Study, Santiago Metropolitan Region, Chile. **MEGÁRIDOS S.A.** 1997.

Base Socioeconomic Baseline Study, Santiago Metropolitan Region, Chile. **MEGÁRIDOS S.A.** 1997.

Terrestrial Baseline Study, Santiago Metropolitan Region, Chile. **AGUA POTABLE LO CASTILLO S.A.** 1997.

