

Technology towards the service of the environmental sciences

Business Curriculum

Who we are

“Grupo Imbrium”, is an enterprise working in the city of San Luis Potosí, México since the year 2001. It’s main objectives are:

- The development of biological technologies for the digestion of organic matter.
- The design of biological systems such as bio-digestion.
- Commercialization, distribution and sales of engineering processes for the construction of waste water treatment systems.
- The application of technology on wastewater treatment systems.
- The construction and the implementation of wastewater treatment systems.
- The use of biogas.

Being so, “Grupo Imbrium”; having an environmental compromise, gives courses, advice and seminars. These are given to members and workers of the corporation, also including people from other types of organizations such as mercantile enterprises, industries, and other national and international services.

We have developed diverse combination of processes, anaerobic and aerobic which can treat water of very different types within an affordable cost.

Grupo Imbrium is committed to offer state of the art technology fulfilling the international environmental legislations and at the same time preserving the Environment.

Our Services for Wastewater Treatment Plants (WWTP)

- Consultancy – Diagnostics
- Design – Project
- Construction - Engineering
- Operation – Start-up
- Support - Post-Sales
- Maintenance (outsourcing)
- Generation of Biogas, in some cases
- “Bioesteres de México”, a sister company, with the purpose of the production of biodiesel from fats.

Mission

To apply service technology to the service of the environmental sciences through groups of professionals committed to the environmental preservation.

Vision

To be a leading center that promotes research, application and development of biological systems for the water adequate utilization.

Expertise in WWTP's

Our Personnel

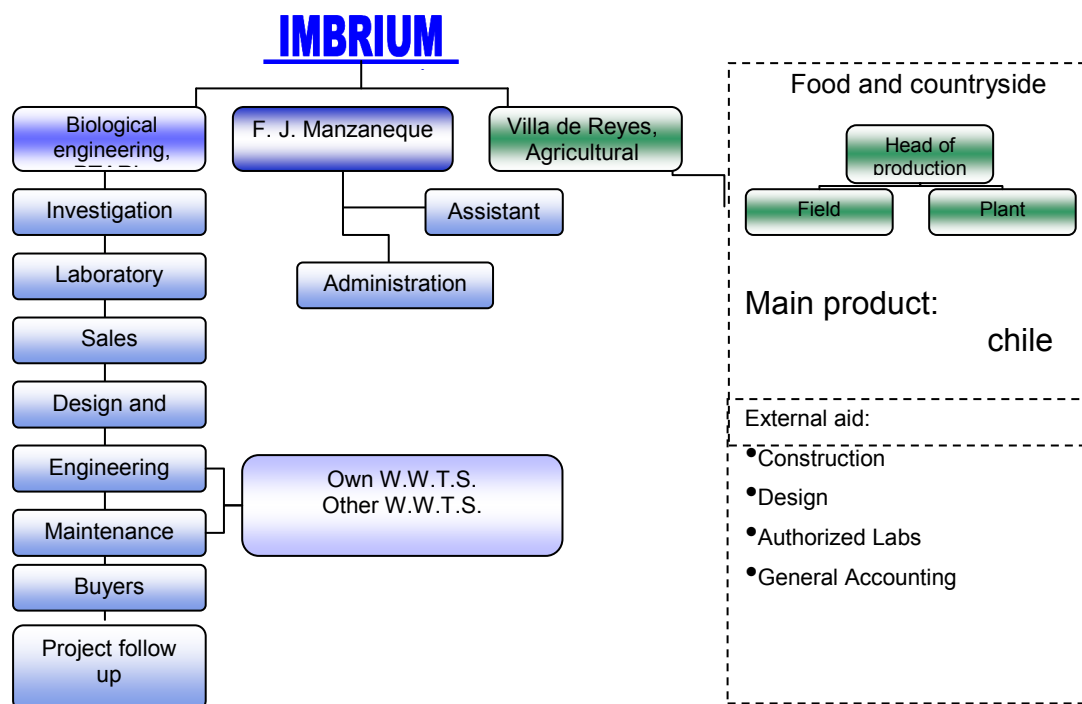
Licensed professionals who will offer you a scope of possibilities to handle the treatment of water through state of the art technology directed to support your expansion, by reducing operational costs and by increasing the quality in the environmental results as well as by diminishing energetic costs.

General Director

Ing. Fernando J. Manzaneque Rodríguez.

- Doctorate's candidate in Environmental Sciences for the UASLP (San Luis Potosí Autonomous University) with the thesis of "Degradation of aerobic sludge by using a two-phase anaerobic digester".
- Master's in Business Direction (MEDE) through the "Instituto Panamericano de Alta Dirección de Empresas".
- Biochemical Engineer through the "Instituto Tecnológico y de Estudios Superiores de Monterrey, Campus Guaymas".
- General Director of Grupo IMBRIUM S. A. de C. V.
- General Director of "Condimentos de México S. A. de C. V." (part of "Grupo La Costeña"). 1997 to 2003
- Assistant to the General Director of "Conservas la Costeña, S. A. de C. V."
- In charge of the construction of the production plants and of the process lines and security equipment in Ecatepec, State of Mexico, Guasave, Sinaloa and San Luis Potosí, S. L. P; including a wastewater treatment plant for 5,000 m3/d with an anaerobic-aerobic system. 1993 to 1997.
- General Director of Ann O'Brien S. A. de C. V. 1987 to 1993

Business Structure



Most important clients

- “Gallina Pesada, S.A. de C.V., **Pilgrims Pride**, wastewater treatment system, considering the biological safety in the incubators “Las Abuelas” in the city of Saltillo for the treatment of 25 m³/d. (cvillalpando@pilgrimspride.com)
- **Holiday Inn**, Merida, Wastewater treatment system for the treatment of 150 m³ /d. (acarvajal@hinmerida.com)
- Landus hotels- **Hampton Inn**, Fairfield, Courtyard – Re-engineering of the already existing and operating W.W.T.S. in the hotel. (<http://www.hotelesoptima.com/>)
- **Minera San Xavier San Luis Potosi**, bounded to New Gold; mobile anaerobic-aerobic wastewater treatment system for sanitarian water of 25m³/d (<http://www.msxmcom.mx>)
- **Gatorade** de Mexico S. d R.l: de CV Guadalajara.- Study of the use of its existing system, advice service in their installations and capacitating courses to optimize the use or their W.W.T.S. (www.gatorade.com.mx)
- **La Esmeralda** Dairy products (www.delesa.com.mx).- Fat digestion. Biological wastewater treatment system with an anaerobic technology and an aerobic subsystem with a capacity of 380m³; generating biogas from biological masses. Because of this plant’s biogas production, it got support from FIDE (www.fide.org.mx)
- **Cummins** de Mexico S.A. de C.V. – Sub-divided wastewater treatment system; sanitarian wastewater with a capacity of 150m³ a day and industrial wastewater treatment system for 50m³/d of water coming from micro-filtration processes with a 212m³/d production of biogas. 4’500,000 btu/d (16 kw).
- Collaboration agreement with **Grupo Alfa**, S.A. de C.V. – Energy management for the conversion of aerobic systems in anaerobic ones with the purpose of exploiting energetic sources. At the present time, we work with two divisions of the group: **Tereftalatos Mexicanos**, S.A. de C.V. in the digestion of terephthalic acid, by anaerobic means. We work with **Sigma** group S.A. de C.V. in the digestion of the rejected matter during the production and in the treatment of wastewater. 2007.
- Anaerobic digester for **Danone** de Mexico S.A. de C.V.- Treats the fat produced in the process of 18 m³/d con 180,000 mg/l de DQO. 500 m³ Reactor. 2006
- Wastewater treatment system for the Agronomy school of “Universidad Autónoma de San Luis Potosí”. The system treats wastewater from the restrooms and also from the pigs barns. 25 m³ /d. 2006
- Wastewater treatment system authorized by SEGAM to operate as wastewater collector and to treat it, fulfilling Policy-003 for the reutilization of water to water fields.
- **Xlmonco** S.A. de C.V. San Luis Potosi, SLP: Pig slaughterhouse. Anaerobic system with aerobic polish for 50,000l/d of waste water.
- Sample investigation wastewater treatment system **Tangamanga I** park San Luis Potosí, SLP for the use of 5,000 l/d- 2005.
- Engineering and technology sales agreement with “Grupo Marnhos S.A. de C.V.”; a water treatment system producer. 2005
- Consulting agreement with **Ricolino** S.A. de C.V. for the operation of their wastewater treatment system. San Luis Potosi 2005
- Consulting agreement with **La Costeña** S.A. de C.V. for the operation of their anaerobic-aerobic wastewater treatment system, that produces electricity (1mW). 2004
- Consulting agreement with **Condimentos de Mexico**, S.A. de C.V. for their unique aerobic wastewater treatment system, San Luis Potosi, 2004.
- Diverse representation agreements with environmental experts.



Advantages:

- We look for the best operational costs, according to the clients' needs.
- We have our own technology, making our prices competitive.
- Anaerobic technology generates methane gas; which may be used as an energy source in boilers or electric generators.
- Ours systems generate minimum sludge.
- Some systems; according to their sizes; qualify to obtain CO₂.
- We make installations and designs according to each client's needs.
- The systems are controlled through microprocessors reducing the needs of personnel.

Our scope:

We have a global scope, fulfilling the official laws in each country. There is a solution for any kind of waste water according to its flow.

- Cities and Departments
- Tanneries
- Real Estate Developments
- Schools
- Hospitals
- Hotels ("skin" concept; integrating the W.W.T.S. to the architectonic landscape)
- Agricultural Industries and Farms
- Food and Wine Industries
- Steel Industry
- Paper Industry
- Oil Industry
- Laboratories
- Pork and Cattle Ranches
- Slaughterhouses

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