



Doe Run Peru

Overview of Accomplishments

During the time Doe Run Peru operated the La Oroya Complex, the company spent \$300 million on facility and community improvements and programs.

LA OROYA COMPLEX FACILITY UPGRADES

- Revamped the slag waste handling system to eliminate slag waste discharged to the river which has been the practice for nearly 100 years before Doe Run Peru purchased the facility.
- Modernized the smelter dust collection systems, thereby significantly reducing the stack dust emissions.
- Shortly after the Doe Run Peru purchase of the facility, shut down operations at the Cobriza mining facility for one week in 1998 to conduct an emergency safety training program for all mining personnel. Worker fatalities were reduced to zero in the years immediately following the program.
- Implemented water collection systems in parts of the La Oroya smelter that enable treatment of storm water and sewage. Began recycling about half of the wastewater.
- Built and operated a North American standard landfill for arsenic.

ENVIRONMENTAL HEALTH COMMUNITY PROGRAMS

- Improved the quality and adequate use of personal protection equipment and improved personal hygiene habits for employees by implementing Change Houses and constructing new washrooms and adequate dining rooms. As a result, the employee blood lead level average was reduced from 51.1 micrograms of lead per 100 ml of blood in 1997 to 38.7 micrograms in December 2001, a 25% reduction.
- Performed the first extensive, complete blood lead survey in and around La Oroya, which involved sampling and analyzing the results of 5,000 people.

- Conducted a blood lead survey of over 1,900 children under 6 years and pregnant women in 2007, and maintained monthly blood lead monitoring through 2009, while also addressing elevated SO₂ exposure and providing anemia management for infants.
- Introduced a program using ten Doe Run Peru medical and social service professionals to address the issue of blood lead in children under six years old.
- Provided seminars to 1,300 teachers and 2,400 citizens of La Oroya in health and hygiene procedures.
- Sponsored World Environmental Day Celebration with more than 8,000 participants. Activities included cleaning campaigns, speeches and a float parade representing environmental themes.
- Renovated 143 private homes of children with elevated blood lead levels, sealing dirt floors and walls with plaster, cement, and wood flooring to reduce lead dust exposure at home.
- These efforts dramatically reduced emissions in every single measurable category.

LA OROYA COMMUNITY PROGRAMS AND IMPROVEMENTS

Community Health Initiatives

- Constructed a modern medical clinic and government dining establishment that services 800 low-income people.
- Constructed an 8,342 square foot (775 m²) modernized mother-child obstetrics center in 2007 to improve maternal and child health services in La Oroya.
- Introduced a program to assist 177 extremely poor children by providing daily meals and health services.
- Partnered with ROTAPLAST International to provide free cleft lip and palate surgeries to children in La Oroya through the “A Smile in Los Andes” program, with 99 children receiving operations in 2000 and 102 in 2005 at no cost to their families.
- Established the “Clean Hands in My Neighborhood” program, installing handwashing stations where children play and training community health agents to teach proper hygiene. The program grew from 749 participating children and 38 volunteers in 2004 to 5,113 children and 215 volunteers by 2008.

- Installed 47 handwashing stations throughout La Oroya in 2006, used by more than 1,200 children per day to reduce hand-to-mouth lead exposure.
- Enrolled children with elevated blood lead levels in the Cuna Jardin day school program, providing meals, schooling, personal hygiene training, nutrition guidance, and medical and psychological care to over 1,000 children.

Education and School Support

- Remodeled eight public schools in 2000, benefiting 2,095 students. In 2001, four more public schools were refurbished.
- Built shower facilities with warm water at multiple schools in 2006 through the “Showers in My School” program, providing access to hygiene facilities for an average of 900 children aged 4 to 12.
- Established school lunch programs in 25 schools by 2008, providing daily nutrition to children.
- Constructed new washrooms for the Nuestra Senora de Fatima School in Old La Oroya.
- Provided small business practices training to nearly 4,000 women, resulting in 25 new community businesses.
- Held drawing and painting workshops for nearly 100 students in eight local communities from May 29 to 31, 2002.
- Held an annual Christmas program for the children of La Oroya, bringing fun activities and a Christmas gift for each child, thousands of children each year.

Community Infrastructure

- Participated in the construction of the second stage of the Huari irrigation canal, a 16-kilometer infrastructure that diverts river water to power the Central Hidroeléctrica La Oroya and subsequently flows through agricultural and soil zones, making it vital for local crop irrigation.
- Installed 400 street lights to improve safety and security in the community.

- Helped with highway improvements in communities of La Oroya and Huashapampa.
- Provided for garbage collection in the Huaymanta neighborhood on the outskirts of La Oroya.
- Introduced a cleaning campaign for homes, schools, and streets by providing water trucks to augment the serious water shortage in La Oroya.
- Developed a new recreational center that includes soccer fields, artificial lakes, wildlife, and barbecue areas with a capacity for 50,000 people.
- Planted 82,000 trees in and around La Oroya and implemented 30,000 square meters of garden areas.
- Established the first community vegetable garden in the Paccha Community.
- Provided ongoing care and maintenance of the Tallapuquio Ecological Park, planting thousands of colle trees, a high-altitude evergreen.

Community Leadership

- Provided 75,000 sheep with vaccinations and vitamin supplements to improve their health and productivity. Sheep farming is an essential part of La Oroya's rural economy and food supply.
- Introduced a breeding program for sheep and llamas by purchasing top quality animals and donating the offspring to 12 communities. Llamas serve as high-altitude pack animals in Peru, making transportation and trade across the Andes possible.
- Provided technical seminars to 2,600 farmers covering animal husbandry and pasture improvements.
- Developed a three-month training program for young men and women from local communities to prepare them for leadership roles.
- Launched a community anti-litter campaign in partnership with the Municipal Public Health and Sewage Company, conducting 254 neighborhood cleaning campaigns and 47 school cleaning campaigns by 2002.