

Project Fact Sheet			
Project Name: Aloag-Tandapi and Azogues-Zhud Highways		Country: ECUADOR	
Project Location Within Country: Central Ecuador		Professional Staff Provided by LEA:	
		# Staff: 4	# Man-months: 18
Name of Client: Ministerio de Obras Publicas			
Start Date (mo/yr) November 1995	Completion Date (mo/yr): August 1996	Total Contract Value (USD): \$500,000.00	
Name of Associated Firm(s), if any: VIASTRA S.A. and Geovial S.A.		Man-months of Professional Staff Provided by Associated Firm(s): 60	
Senior Staff Involved and Functions Performed:			
J.W. Sobieniak — Project Principal			
G. Garcia Su — Project Manager			
I. Navarro — Pavement Specialist			
C. Vogt — Environmentalist			
Detailed Narrative Description of Project:			
<p>These two projects were part of a national road and bridge rehabilitation programme, partly funded by the InterAmerican Development Bank. The Aloag-Tandapi section (46 km) is part of the main route between Quito and Guayaquil and connects the high central sierra with the tropical coastal plateau. The Azogues-Zhud section (60 km) is a section of the Pan-American Highway north of Cuenca.</p> <p>Both highways carry high traffic volumes and the pavement had deteriorated to a point where full rehabilitation and reconstruction in sections was required. Additionally, there were landslips that had narrowed the road and caused traffic delays as well as creating environmental damage to adjacent agricultural areas.</p> <p>The project called for evaluation of the pavements, bridges, retaining walls and drainage; detailed design of pavement resurfacing, pavement reconstruction in sections, structural repairs and improved drainage; environmental impact assessment and design of mitigation measures; and preparation of cost estimates and tender documents.</p>			
Description of Services Provided by LEA:			
<p>The project was carried out by a joint venture of LEA and two Ecuador firms, Viastra and Geovial. LEA provided the Project Manager for the Aloag-Tandapi project and the Pavement Engineer for the pavement and asphalt mix design for both projects. LEA supervised the FWD tests and analysed the results. LEA's Environmental Co-ordinator directed the work of four Ecuadorian environmental specialists and prepared the environmental impact statement and assisted the engineers in developing mitigation measures.</p>			