

FLUVIAL FACIES		BASIN-FLOOR FACIES		PIEDMONT-SLOPE FACIES	
a	sand, gravel, silt and clay	1	sand and pebble gravel lenses of silty clay *	5	gravel, sand, silt, and clay; common loamy (sand-silt-clay) *
a1	pebble to cobble gravel and sand	2	sand; lenses of pebble sand, and silty clay *	5a	sand and gravel; lenses of gravelly, loamy sand to sandy loam
a2	sand and pebbly sand	3	interbedded sand and silty clay; lenses of pebbly sand *	5b	gravelly, loamy sand to sandy loam; lenses of sand, gravel, and silty clay
a3	silty clay, clay and sand	4	sand and sandstone; lenses of silty clay and pebble conglomerate	6	coarse gravelly, loamy sand and sandy loam; lenses of sand and cobble to boulder gravel *
ARROYO FACIES		9	silty clay interbedded with sand, silty sand and clay	6a	sand and gravel; lenses of gravelly to non-gravelly, loamy sand to sandy loam
b	sand, gravel, silt and clay	10	partly indurated 9, with alkali-impregnated and gypsiferous zones	6b	gravelly, loamy sand to sandy loam; lenses of sand, gravel and silty clay
OTHER BASIN FILL		7	partly indurated 5, 5a and 5b	8	partly indurated 6, 6a and 6b
c	silty clay, clay and sand*	<b>MOUNTAIN BLOCK</b>			
			bedrock		
			fault		

\* with Calcic soils

#### PARTICIPATING AGENCIES

The participants for this project included the New Mexico Water Resources Research Institute (NMWRRI), the Geological Sciences and Economics Departments at New Mexico State University (NMSU), and the Geological Sciences Department at California State University, Los Angeles (CSULA). The NMWRRI team consisted of Bobby J. Creel, Project Manager; John F. Kennedy, GIS Coordinator; and students Molly Johnson and Phil Dinterman. Faculty at NMSU included geologist John W. Hawley and statistician Marta D. Remmenga. The CSULA team included hydrogeologist Barry J. Hibbs and graduate research assistant Monica M. Lee. The geologic and hydrogeologic assessments and mapping of the aquifer systems were performed by John W. Hawley, John F. Kennedy, Molly Johnson and Phil Dinterman. Hydrochemical and water quality assessment and mapping of the aquifers were performed by Barry J. Hibbs and Monica M. Lee. Statistical analysis of water well location accuracy was performed by Marta Remmenga. Michael Vaughn and Kenneth Williams with the U.S. Environmental Protection Agency - Region 6, served as Project Officers. Logistics of international cooperation were facilitated by the International Boundary and Water Commission (IBWC) - U.S. and Mexican Sections. The Mexican Section (Comision Internacional de Limited y Aguas) arranged for review of the draft report by the Mexican agencies.

## TRANS-INTERNATIONAL BOUNDARY AQUIFERS IN SOUTHWESTERN NEW MEXICO

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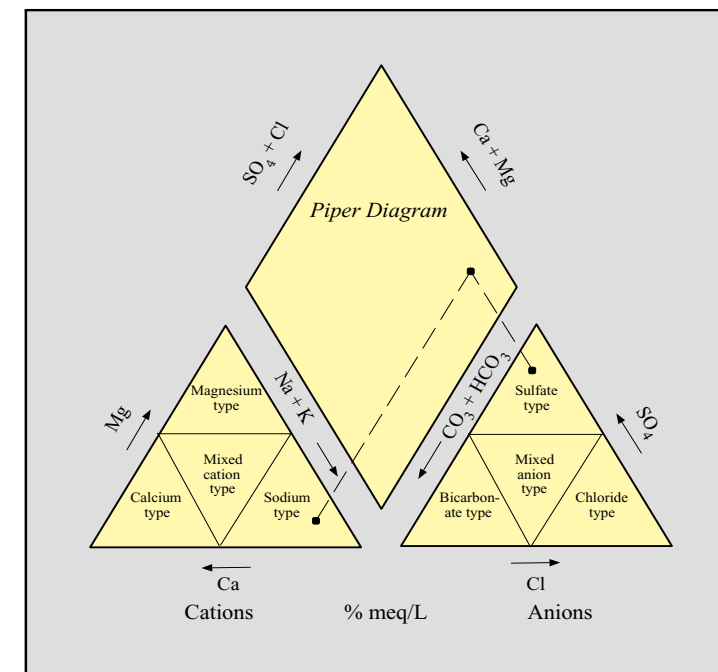
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#### DISCLAIMER

The views and conclusions in this report are those of the authors and should not necessarily be interpreted as representing the official opinions of the NMWRRI, NMSU, CSULA, USEPA, IBWC, or CILA.