17S - Ollagüe – Pastos Grandes

**Geography**
- Total area TBA (km²): 1900
- No. countries sharing: 2
- Countries sharing: Bolivia, Chile
- Population: 1300
- Climate zone: Highlands
- Rainfall (mm/yr): 70

**Hydrogeology**
- Aquifer type: Two-layered system
- Degree of confinement: Partially unconfined to confined
- Main Lithology: Sedimentary and fractured (volcanic) rocks

Map and cross-section are only provided for illustrative purposes. Dimensions are only approximate.
Transboundary Aquifer Information Sheet

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TWAP Groundwater Indicators from Global Inventory
No data available.

Key parameters table from Global Inventory
No data available.

Aquifer description

Aquifer geometry
It is a two layered aquifer system that is partially unconfined to confined (information from regional report – no data on data base).

Hydrogeological aspects
The central aquifer is mainly composed of a sedimentary basin and the secondary aquifer is mainly composed of volcanic rock. The thickness of the aquifer system varies between 20 to 100 m.

Linkages with other water systems
No information on inter-linkages with other water systems was provided.

Environmental aspects
While Bolivia indicates that water quality is generally good, Chile mentions that the quality is bad, without specifying what the major causes are.

Socio-economic aspects
Its current use is minimal, given the low number of the local population. A small amount is used for domestic purposes and livestock.

Legal and Institutional aspects
There are no specific legal agreements between the countries in place with regard to this groundwater system.

Emerging issues
There appear to be no issues at this stage. There is uncertainty about the general readiness of the Aquifer States for groundwater resources development and management with regard to this Transboundary Aquifer.

Contributors to Global Inventory

<table>
<thead>
<tr>
<th>Name</th>
<th>Organisation</th>
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<tbody>
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</tbody>
</table>

Considerations and recommendations

The two TBA states unfortunately did not provide data to the global inventory. The information in the aquifer description was taken from the Regional Report Americas. See colophon for more information, including references to data from other sources.

Request:
If you have data or information about this transboundary aquifer that can improve the quality of this information sheet and the underlying database, please contact us via email at info@un-igrac.org. If appropriate, the information will be uploaded to the database of transboundary aquifers and will also be used in new versions of this information sheet.
Colophon

This Transboundary Aquifers information sheet has been produced as part of the Groundwater Component of the GEF Transboundary Water Assessment Programme (GEF TWAP). **GEF TWAP** is the first truly global comparative assessment of transboundary groundwater, lakes, rivers, large marine ecosystems and the open ocean. More information on TWAP can be found on: [www.geftwap.org](http://www.geftwap.org). The **Groundwater component** of TWAP carried out a global comparison of 199 transboundary aquifers and the groundwater systems of 41 Small Island Developing States. The data used to compile this transboundary aquifer information sheet has been made available by national and regional experts from countries involved in the TWAP Groundwater project. For aquifers larger than 20,000 km² and which are not overlapping, additional data are available from modelling done by the Goethe University Frankfurt (Germany) as part of TWAP Groundwater. All data were compiled by UNESCO-IHP and the International Groundwater Resources Assessment Centre (IGRAC – UNESCO Category II Institute). Values given in the fact-sheet represent an approximate guide only and should not replace data obtained from recent local assessments. The editors of this information sheet are not responsible for the quality of the data.

For more information on TWAP Groundwater and for more data, please have a look at the TWAP Groundwater Information Management System which is accessible via [www.twap.isarm.org](http://www.twap.isarm.org) or [www.un-igrac.org](http://www.un-igrac.org).

**References:**
- Climate: Climate indicates the major climate zone which occurs in the aquifer area. If more than 1 climate zone is present the zone with the largest surface area was selected. Source climate data: ArcGIS Online (2015), Simplified World Climate zones. Owner: Mapping Our World GIS Education. Original map: National Geographic World Atlas for Young Explorers (1998).
- All other data: TWAP Groundwater (2015).

**Version:** October 2015