

Aqueduct of Padre Tembleque Hydraulic System

1. World Heritage Property Data

1.1 - Name of World Heritage property


Aqueduct of Padre Tembleque Hydraulic System

1.2 - World Heritage property details

1.3 - Geographic information table

Name	Coordinates	Property (ha)	Buffer zone (ha)	Total (ha)	Inscription year
Aqueduct of Padre Tembleque Hydraulic System	19.835 / -98.663	6540	34820	41360	2015
Total (ha)		6540	34820	41360	

1.4 - Map(s)

Title	Date	Link to source
Aqueduct of Padre Tembleque Hydraulic System - map of inscribed property	2015	

1.5 - Web and Social Media data of the property (if applicable)

Comment

https://patrimoniomundialmexico.inah.gob.mx/publico/lista_detalle.php?idLista=MjM=

2. Other Conventions/Programmes under which the World Heritage property is protected (if applicable)

2.1 - Records indicate that your World Heritage property (in whole or in part) is designated and/or protected under the Conventions/programmes shown in the prefilled table below. Please check and amend as necessary.

		The World Heritage property (in whole or in part) <u>is</u> designated and/or protected under this convention/programme	The World Heritage property (in whole or in part) <u>is not</u> designated and/or protected under this convention/programme
2.1.1	International Register of Cultural Property under Special Protection (1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict)		×
2.1.2	List of Cultural Property under Enhanced Protection (Second Protocol to the 1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict)		×
2.1.3	The List of Wetlands of International Importance (The Ramsar List) (Convention on Wetlands of International Importance (Ramsar Convention))		×
2.1.4	World Network of Biosphere Reserves Man and the Biosphere (MAB) Programme		×
2.1.5	Global Geoparks Network UNESCO Global Geoparks		×

2.2 - Please provide comments on 2.1 if necessary

There's no need

2.3 - Do your national authorities intend to request the granting of Enhanced Protection (if relevant) under the Second Protocol to the 1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict for the World Heritage property in the next three years?

Yes

2.4 - Do your national authorities intend to designate whole or part of the World Heritage property for inclusion in the List of Wetlands of International Importance (The Ramsar List), if relevant, in the next three years?

Not applicable

2.5 - Do your national authorities intend to designate whole or part of the World Heritage property as a Man and Biosphere Reserve (if relevant) in the next three years?

Not applicable

2.6 - Do your national authorities intend to apply for whole or part of World Heritage property to be designated as a UNESCO Global Geopark (if relevant) in the next three years?

No

2.7 - Please indicate the level of cooperation at property level between designations under different Conventions/Programmes

2.7.1	1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict	
2.7.1	There is no contact with the Focal Point(s) of this designation/programme.	✕
2.7.2	The World Heritage Site Manager occasionally communicates with the Focal Point(s) of this designation/programme.	
2.7.3	The World Heritage Site Manager regularly communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager also manages this designation/programme.	
2.7.2	Second Protocol to the 1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict	
2.7.1	There is no contact with the Focal Point(s) of this designation/programme.	✕
2.7.2	The World Heritage Site Manager occasionally communicates with the Focal Point(s) of this designation/programme.	
2.7.3	The World Heritage Site Manager regularly communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager also manages this designation/programme.	
2.7.3	Convention on Wetlands of International Importance (Ramsar Convention)	
2.7.1	There is no contact with the Focal Point(s) of this designation/programme.	✕
2.7.2	The World Heritage Site Manager occasionally communicates with the Focal Point(s) of this designation/programme.	
2.7.3	The World Heritage Site Manager regularly communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager also manages this designation/programme.	
2.7.4	Man and the Biosphere (MAB) Programme	
2.7.1	There is no contact with the Focal Point(s) of this designation/programme.	✕
2.7.2	The World Heritage Site Manager occasionally communicates with the Focal Point(s) of this designation/programme.	
2.7.3	The World Heritage Site Manager regularly communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager also manages this designation/programme.	
2.7.5	UNESCO Global Geoparks	
2.7.1	There is no contact with the Focal Point(s) of this designation/programme.	✕
2.7.2	The World Heritage Site Manager occasionally communicates with the Focal Point(s) of this designation/programme.	
2.7.3	The World Heritage Site Manager regularly communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager also manages this designation/programme.	

2.8 - Please add any further comments on cooperation with the other designation(s)/programme(s)

Due to the recent appointment of the site manager, these cooperation links have not been realized.

2.9 - Are you aware of any elements associated with the World Heritage property that have been inscribed on the Representative List of the Intangible Cultural Heritage?

Yes

2.10 - Please list any elements associated with the World Heritage property inscribed under the Convention for the Safeguarding of the Intangible Cultural Heritage of which you are aware

There is not, but the issue of Pulque and its associates is susceptible to recognition.

2.11 - Are you aware of any documentary heritage listed under the Memory of the World Programme associated with the World Heritage property?

No

2.12 - Please list any documentary heritage associated with the World Heritage property listed under the Memory of the World Programme of which you are aware.

The First Memorials of Fray Bernardino de Sahagún in Tepeapulco, Hidalgo 1558-1560.

3. Statement of Outstanding Universal Value

3.1 - Statement of Outstanding Universal Value for the property as adopted by the World Heritage Committee

Statement of Outstanding Universal Value

Brief synthesis

The aqueduct of Padre Tembleque, named after the friar Francisco de Tembleque, was constructed between 1555 and 1572 and constitutes a hydraulic system located between the states of Mexico and Hidalgo in the Mexican Central Plateau. The heritage canal system encompasses its water catchment area, springs, main and secondary canals, distribution tanks, arcaded aqueduct bridges, reservoirs and other auxiliary elements, which extend over a maximum distance of 48.22 kilometres. The aqueduct structures were built with supporting structures of earthen adobes in the Mesoamerican construction tradition, but at the same time referencing European models of water conduction developed during the Roman era.

The hydraulic system is an outstanding example of water conduction in the Americas and integrates along its 48 kilometres' extent impressive architectural structures, such as the main arcaded aqueduct at Tepeyahualco, which reaches a total height of 39.65m, with its central arch of 33.84m height. The system was built by Franciscan friars with support from the local communities and as a result is a unique representation of the ingenious fusion of Mesoamerican and European construction traditions, combining the mestizo tradition with the tradition of Roman hydraulics. As an ensemble of canals and auxiliary structures, the system is exceptionally well-preserved and one branch remains operational up until today.

Since it is the complexity of the system and the human exchange which created it which contribute to the Outstanding Universal Value, all features of this hydraulic system, including springs, main and secondary canals, distribution tanks, several arcaded aqueduct bridges, reservoirs and other auxiliary elements, are attributes documenting this exceptional construction. The elaborate techniques and cultural exchanges become specifically visible in the mastery of the monumental arcade bridging the Tepeyahualco Ravine and the Papalote River, which is made up of 68 round arches.

Criterion (i): The aqueduct bridge of Tepeyahualco is an architectural masterpiece integrating the highest single-level arcade ever built in aqueducts from Roman times until the middle of the 16th century, achieved as a result of the ingenious use of an adobe formwork as an alternative to scaffolding. Although the use of adobe brick instead of wood was applied elsewhere in Mexico, it was not often and certainly not with the same dramatic effect as in the aqueduct, which bridges the Tepeyahualco Ravine and the Papalote River.

Criterion (ii): The hydraulic system of Padre Tembleque exhibits an important interchange of European tradition in terms of the conjunction of the Roman heritage of masonry aqueducts, hydraulic management techniques inspired by Arab-Andalusian know-how, and pre-Hispanic indigenous tradition as well as Mesoamerican culture, represented by the use of the traditional social organization of collective working, the utilization and adaptation of local methods of adobe construction as well as the presence of glyphs illustrating symbols and cosmology in several arcade structures. It is a monument fusing the humanist ideals of the Franciscan order with the local collective traditions, aimed at promoting common wellbeing through an impressive construction achievement over 17 years.

Criterion (iv): The aqueduct of Padre Tembleque represents an outstanding example of hydraulic water architecture, based on in-depth knowledge of Roman and Renaissance hydraulic engineering which was integrated with local Mesoamerican construction knowledge. The specific techniques and regional materials used in the construction created a unique type of hydraulic system at the time of Mesoamerican-European encounters.

Integrity

The Aqueduct of Padre Tembleque Hydraulic Complex retains the complete hydraulic system over a distance of approximately 48 kilometres. Its landscape setting is predominantly rural characterized by distinctive maguey plantations, with the canal system either historically buried or enclosed in stone, either open or covered. The six impressive aqueduct bridges with 137 visible arches represent less than five percent of the total hydraulic system and hence the presence of all auxiliary elements of the system is a key to its integrity.

At present, few threats of development or land-use seem to affect the Aqueduct of Padre Tembleque. The rural landscape setting provides a high level of integrity with only occasional interruption by roads or power lines. It is important that this landscape integrity is retained in the future. The historic urban centres of Zempoala and Otumba have been encroached upon by some unsympathetic new constructions but these have fortunately had little impact on the attributes of the hydraulic system. Any future construction in these historic centres should be reviewed in terms of any potential negative impact which may occur.

Authenticity

The physical manifestations of the hydraulic system are well preserved in its various elements, including ojos de agua (springs), apantles (water canals), aljibes (cisterns), arches, fountains, water tanks, and other water features. These retain authenticity in form and design, material and substance as well as location and setting. The hydraulic system also partially retains authenticity of use and function in the six-kilometre segment of Zempoala, which currently carries water supporting non-potable uses such as washing clothes, irrigation, etc. It is intended to regain completely authenticity of use and function by re-enabling the passage of water through the other branch of the system that connects to the town of Otumba, at a distance of 39 km. However, such reactivation should be carefully supervised by heritage professionals and evaluated in terms of its potential negative impact to the authenticity of the property.

Authenticity in traditions, techniques and management system is illustrated by the continuing maintenance and management by the local communities, during which repairs are undertaken in traditional construction techniques and materials. To a certain extent, the site still evokes feelings which could be related to its original time of construction. This applies in particular where arches of the system exist and where one can see the hundreds of visible glyphs that were incorporated in the aqueduct's construction by the indigenous populations, underscoring that the spectacular engineering work was a collaborative effort between the indigenous population and the Spanish clergy.

Protection and management requirements

The property is protected under the Federal Law on Archaeological, Artistic and Historic Monuments and Areas promulgated in 1972 as an Historic Monument. This implies that in order to initiate any changes to the current condition of the property and its immediate setting, permission by the National Coordination of Historic Monuments of the INAH and from the Hidalgo and State of Mexico INAH Centres is required. The immediate setting has been defined as the buffer zone, which aims to preserve the integrity of the characteristic maguey landscape.

The property falls into two states and five municipalities which share the administration of the hydraulic system. A Management Unit for inter-institutional coordination and follow-up of the management plan coordinates federal, state and municipal levels as well as agricultural and citizen associations. The management as well as maintenance of the property builds strongly on the cooperation with the local communities and citizen organizations. Any visitor infrastructure planned to be created for the property needs to be carefully selected, as well as be sensitive to the characteristics of the site and its setting.

3.2 - Please list the key attributes of Outstanding Universal Value of your property and give an assessment of their condition. As a guideline, it is suggested to focus on approximately five key attributes (no more than 15 overall).

	Brief identification of attribute	Preserved	Compromised	Seriously compromised	Lost
3.2.1	The Main Arch of Tepeyahualco of 68 arches with a length of 48.22 km	✘			
3.2.2	The use of adobe shoring for the construction of the main arcade in Tepeyahualco		✘		
3.2.3	Miscegenation of European and indigenous technique, technology, materials, construction systems	✘			

3.2.4	Presence of pictograms that left evidence of the indigenous hand used.	✕			
3.2.5	Integrity in its length and in its components	✕			
3.2.6	Authenticity in its form, design, materials and partial function		✕		
3.2.7					
3.2.8					
3.2.9					
3.2.10					
3.2.11					
3.2.12					
3.2.13					
3.2.14					
3.2.15					

3.3 - Comments, conclusions and/or recommendations related to Statement of Outstanding Universal Value

The information expressed is derived from inspections and technical and legal tours of the World Heritage Site by personnel of the National Institute of Anthropology and History; The conservation status of OUV and their conservation attributes; however, in the case of the vestiges of the adobe formwork in the Arquería Mayor, which present gradual erosion, due to the weather, consolidation actions are required for their optimal preservation.

4. Factors Affecting the Property

4.1. Buildings and Development

4.1.1 - Housing

✕ Relevant			Not relevant				
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
🟢 Positive							
🔴 Negative ✕	✕		✕				↗

4.1.2 - Commercial development

✕ Relevant			Not relevant				
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
🟢 Positive							
🔴 Negative ✕	✕		✕				↗

4.1.3 - Industrial areas

✕ Relevant			Not relevant				
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
🟢 Positive							
🔴 Negative ✕	✕	✕	✕			→	

4.1.4 - Major visitor accommodation and associated infrastructure

✕ Relevant			Not relevant				
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
🟢 Positive							
🔴 Negative ✕		✕	✕				↗

4.1.5 - Interpretative and visitation facilities

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive ✕	✕		✕			→	
➖ Negative							

4.1.6 - Please comment as necessary on how the factors selected as relevant in 4.1 are affecting the property either negatively or positively

They alter the urban space of the two population centers of arrival-Zempoala and Otumba-of the branches of the aqueduct, with dissonant constructions to the existing ones with tradicional typologies; the cultural landscape of the immediate rural environment at relevant strategic points in the trajectory of the Hydraulic System of the Padre Tembleque Aqueduct; Changes in traditional land use, urban growth with dissonant characteristics.

4.2. Transportation Infrastructure

4.2.1 - Ground transport infrastructure

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive ✕		✕	✕	✕	↘		
➖ Negative ✕		✕	✕	✕	↘		

4.2.2 - Underground transport infrastructure

Relevant	✕ Not relevant
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4.2.3 - Air transport infrastructure

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive							
➖ Negative ✕	✕	✕		✕			↗

4.2.4 - Marine transport infrastructure

Relevant	✕ Not relevant
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4.2.5 - Effects arising from use of transportation infrastructure

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive							
➖ Negative ✕		✕		✕			↗






4.2.6 - Please comment as necessary on how the factors selected as relevant in 4.2 are affecting the property either negatively or positively

The issue of land transport infrastructure if not planned can be destructive and invasive; The air transport, little analyzed but relevant because of the proximity -in the region with the location of the Aqueduct- of the new international airport if the flight routes are not planned, it is feasible to generate noise pollution.

4.3. Services Infrastructures

4.3.1 - Water infrastructure

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive							

 Negative 							
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4.3.2 - Renewable energy facilities

 Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative 							

4.3.3 - Non-renewable energy facilities

Relevant	 Not relevant
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4.3.4 - Localised utilities

Relevant	 Not relevant
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4.3.5 - Major linear utilities

 Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative 							

4.3.6 - Please comment as necessary on how the factors selected as relevant in 4.3 are affecting the property either negatively or positively

These infrastructure factors inside and outside the core zone must be planned so as not to potentially affect the good; mainly the water supply and sewerage services, parking lots and roads of the towns where the path of the aqueduct runs, the area of springs is affected with a very close sanitary facility; projects related to the use and management of water in the core zone and buffer zone impact on the recovery of the operation of origin of the heritage asset.

4.4. Pollution

4.4.1 - Pollution of marine waters

Relevant	 Not relevant
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4.4.2 - Ground water pollution

Relevant	 Not relevant
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4.4.3 - Surface water pollution

 Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative 							

4.4.4 - Air pollution

Relevant	 Not relevant
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4.4.5 - Solid waste

Relevant	 Not relevant
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4.4.6 - Input of excess energy

Relevant	 Not relevant
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4.4.7 - Please comment as necessary on how the factors selected as relevant in 4.4 are affecting the property either negatively or positively

The factors in this point 4.4 are not relevant to the World Heritage Site, they are outside the core and buffer zone, however, we must be monitoring.

4.5. Biological resource use/modification

4.5.1 - Fishing/collecting aquatic resources

Relevant	✕ Not relevant
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4.5.2 - Aquaculture

Relevant	✕ Not relevant
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4.5.3 - Land conversion

✕ Relevant	Not relevant
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	Impact		Origin		Trend of impact		
Impact	🔴 Current	🟡 Potential	🟢 Inside	🟢 Outside	📉 Decreasing	➡ Stable	📈 Increasing
🟢 Positive ✕	✕	✕	✕			➡	
🔴 Negative ✕	✕	✕	✕			➡	

4.5.4 - Livestock farming/Grazing of domesticated animals

✕ Relevant	Not relevant
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	Impact		Origin		Trend of impact		
Impact	🔴 Current	🟡 Potential	🟢 Inside	🟢 Outside	📉 Decreasing	➡ Stable	📈 Increasing
🟢 Positive ✕	✕	✕	✕			➡	
🔴 Negative							

4.5.5 - Crop production

✕ Relevant	Not relevant
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	Impact		Origin		Trend of impact		
Impact	🔴 Current	🟡 Potential	🟢 Inside	🟢 Outside	📉 Decreasing	➡ Stable	📈 Increasing
🟢 Positive ✕	✕	✕	✕			➡	
🔴 Negative ✕	✕		✕			➡	

4.5.6 - Commercial wild plant collection

Relevant	✕ Not relevant
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4.5.7 - Subsistence wild plant collection

Relevant	✕ Not relevant
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4.5.8 - Commercial hunting

Relevant	✕ Not relevant
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4.5.9 - Subsistence hunting

Relevant	✕ Not relevant
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4.5.10 - Forestry/Wood production

Relevant	✕ Not relevant
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4.5.11 - Please comment as necessary on how the factors selected as relevant in 4.5 are affecting the property either negatively or positively

The biological resources and activities set forth in this point 4.5, are not relevant in the Cultural Property and its immediate environment, they do not impact it; There are currently no indigenous groups that cultivate or make use of medicinal plants or forest resources for commercial purposes.

4.6. Physical resource extraction

4.6.1 - Mining

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative ✕	✕	✕	✕				

4.6.2 - Quarrying

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative ✕	✕		✕				

4.6.3 - Oil and gas

Relevant				✕ Not relevant			
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4.6.4 - Water (extraction)

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative ✕	✕	✕	✕				

4.6.5 - Please comment as necessary on how the factors selected as relevant in 4.6 are affecting the property either negatively or positively

Point 4.6.4, is relevant, due to the extraction of water there is rupture or physical destruction of the walls of sections of the channels of the hydraulic complex factor that negatively affects the Exceptional Universal Value and integrity and conservation of the heritage cultural property, since it does not allow its function and its restoration of origin; in the case of the exploitation of mines and quarries, the natural and historical landscape is altered.

4.7. Local conditions affecting physical fabric

4.7.1 - Wind

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative ✕	✕		✕				

4.7.2 - Relative humidity

Relevant				✕ Not relevant			
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4.7.3 - Temperature

Relevant				✕ Not relevant			
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4.7.4 - Radiation/Light














Relevant				✕ Not relevant			
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4.7.5 - Dust

Relevant				✕ Not relevant			
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4.7.6 - Water (rain/water table)

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		

Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative 							

4.7.7 - Pests

 Relevant	Not relevant
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	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative 							

4.7.8 - Micro-organisms

Relevant	 Not relevant
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4.7.9 - Please comment as necessary on how the factors selected as relevant in 4.7 are affecting the property either negatively or positively

The natural environment of the World Heritage Site is rural, with plantations of maguey and nopal, susceptible to pests. The maguey lines and nopal plantations are part of the landscape environment and work among other uses as retainers of the soils, if they are lost, erosion of the land through which the heritage channels run or moves is generated. Torrential rains are a threat to the adobe formwork in the Arquería Mayor in Tepeyahualco, due to generating erosion and / or landslide.

4.8. Social/Cultural uses of heritage














4.8.1 - Ritual/Spiritual/Religious and associative uses

 Relevant	Not relevant
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	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive 							
 Negative							

4.8.2 - Society's valuing of heritage

 Relevant	Not relevant
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	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative 							

4.8.3 - Indigenous hunting, gathering and collecting

Relevant	 Not relevant
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4.8.4 - Changes in traditional ways of life and knowledge system

 Relevant	Not relevant
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	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative 							

4.8.5 - Identity, social cohesion, changes in local population and community

 Relevant	Not relevant
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	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive 							
 Negative							

4.8.6 - Impacts of tourism/Visitation/Recreation

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive ✕	✕		✕			→	
➖ Negative ✕	✕		✕			→	

4.8.7 - Please comment as necessary on how the factors selected as relevant in 4.8 are affecting the property either negatively or positively

The activities of point 4.8.5 have a positive impact with the inscription of the property on the World Heritage list in the sense of an increase in the sense of social cohesion; compared to 4.8.7. with respect to national and international tourism, the impact is positive economically and negative, because the circulation spaces of visitors in some components of the hydraulic complex are not yet regulated, making tourism a threat or negative factor, such is the case of the vestiges of the adobe.

4.9. Other human activities

4.9.1 - Illegal activities

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive							
➖ Negative ✕	✕	✕	✕		↘		

4.9.2 - Deliberate destruction of heritage

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive							
➖ Negative ✕	✕	✕	✕			→	

4.9.3 - Military training

Relevant				✕ Not relevant			
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4.9.4 - War

Relevant				✕ Not relevant			
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4.9.5 - Terrorism

Relevant				✕ Not relevant			
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4.9.6 - Civil unrest

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive							
➖ Negative ✕		✕	✕			→	















4.9.7 - Please comment as necessary on how the factors selected as relevant in 4.9 are affecting the property either negatively or positively

The illegal extraction of geological resources alters the natural landscape with the destruction of the hills; Graffiti alters the stone and wall canvases of architectural elements altering their perception of origin, the same happens with vandalism; The cultural property has a trajectory for lands of private and social property (ejidal and communal), so the threat of land issues, management and use of water from the sources of supply (springs) can lead to social and political disturbances.


4.10. Climate change and severe weather events














4.10.1 - Storms

✕ Relevant				Not relevant			
------------	--	--	--	--------------	--	--	--

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative 							













4.10.2 - Flooding

 Relevant	Not relevant
--	--------------

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative 							














4.10.3 - Drought

 Relevant	Not relevant
--	--------------


	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative 							

4.10.4 - Desertification


 Relevant	Not relevant
--	--------------

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative 							


4.10.5 - Changes to oceanic waters

Relevant	 Not relevant
----------	--

4.10.6 - Temperature change

Relevant	 Not relevant
----------	--

4.10.7 - Other climate change impacts


Relevant	 Not relevant
----------	--

4.10.8 - Please comment as necessary on how the factors selected as relevant in 4.10 are affecting the property either negatively or positively


In the case of flooding and / or overflow of the Papalote stream in the main arcade, it is feasible to flood the starts of the central pilasters of the arches that free the ravine, thereby gradually affecting the foundation of the support elements / pilasters, as well as gradual landslide of the vestiges of the adobe formwork. With the rains in excess there are softening of land, being able to present thrusts and collapses of the channels, walls of cisterns and floods of jagüeyes.















4.11. Sudden ecological or geological events

4.11.1 - Volcanic eruption

Relevant	 Not relevant
----------	--

4.11.2 - Earthquake

 Relevant	Not relevant
--	--------------











	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative 							

4.11.3 - Tsunami/Tidal wave

Relevant	✕ Not relevant
----------	----------------











4.11.4 - Avalanche/Landslide

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative ✕		✕	✕				

4.11.5 - Erosion and siltation/Deposition

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative ✕	✕						

4.11.6 - Fire (wildfire)

Relevant	✕ Not relevant
----------	----------------









4.11.7 - Please comment as necessary on how the factors selected as relevant in 4.11 are affecting the property either negatively or positively

The erosion in the vestiges of the adobe ashlars and the constructive joints of the masonry and flattened in the Arquería Mayor are a factor of structural failure, In the case of earthquakes, the architectural characteristics (height, slenders, mechanical property of the masonry, etc.), of the arches are a factor of structural failure.

4.12. Invasive/alien species or hyper-abundant species

4.12.1 - Translocated species

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive ✕	✕						
 Negative ✕	✕	✕	✕				

4.12.2 - Invasive/Alien terrestrial species

Relevant	✕ Not relevant
----------	----------------

4.12.3 - Invasive/Alien freshwater species

Relevant	✕ Not relevant
----------	----------------

4.12.4 - Invasive/Alien marine species

Relevant	✕ Not relevant
----------	----------------

4.12.5 - Hyper-abundant species

Relevant	✕ Not relevant
----------	----------------

4.12.6 - Modified genetic material

Relevant	✕ Not relevant
----------	----------------










4.12.7 - Please comment as necessary on how the factors selected as relevant in 4.12 are affecting the property either negatively or positively

Because it is a cultural asset, the points of this chapter 4.12 and its subparagraphs do not impact the Hydraulic Complex.

4.13. Management and institutional factors

4.13.1 - Management system/Management plan

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive ✕	✕		✕			→	
 Negative							

4.13.2 - Legal framework

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive ✕	✕	✕	✕			→	
 Negative ✕	✕	✕	✕			→	

4.13.3 - Governance

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive ✕	✕	✕	✕			→	
 Negative							

4.13.4 - Management activities

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive ✕		✕		✕			↗
 Negative ✕	✕		✕			→	

4.13.5 - Financial resources

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive ✕		✕	✕				↗
 Negative							

4.13.6 - Human resources

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive ✕	✕	✕	✕			→	
 Negative							

4.13.7 - Low impact research/monitoring activities

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive ✕		✕	✕			→	
 Negative							

4.13.8 - High impact research/monitoring activities

4.13.9 - Please comment as necessary on how the factors selected as relevant in 4.13 are affecting the property either negatively or positively

The Management Plan for the Padre Tembleque Aqueduct, Mexico, Renaissance Hydraulic Complex in America. General Guidelines, contained in the application file has been a great document, which has laid the foundations to elaborate or complement the final one, with this document as a reference the management and management for the cultural good in the different aspects has begun. The legal framework has been strengthened and the technical improvement of protection is in process.

4.14. Other factor(s)

4.14.1 - Other factor(s)

































































Preparation of specific legal instruments for its protection and conservation, such as regional, municipal and partial urban development plans, as well as specific technical guidelines for the technical protection of cultural heritage;

4.15. Factors Summary Table

4.15.1 - Factors Summary Table

Name	Impact		Origin		Trend	
4.1 Buildings and Development						
4.1.1 Housing						
	⊖	⚠		⊕		↗
4.1.2 Commercial development						
	⊖	⚠		⊕		↗
4.1.3 Industrial areas						
	⊖	⚠	⚠	⊕		→
4.1.4 Major visitor accommodation and associated infrastructure						
	⊖		⚠	⊕		↗
4.1.5 Interpretative and visitation facilities	⊕	⚠		⊕		→
4.2 Transportation Infrastructure						
4.2.1 Ground transport infrastructure	⊕		⚠	⊕	↻	↘
	⊖		⚠	⊕	↻	↘
4.2.3 Air transport infrastructure						
	⊖	⚠	⚠		↻	↗
4.2.5 Effects arising from use of transportation infrastructure						
	⊖		⚠		↻	↗
4.3 Services Infrastructures						
4.3.1 Water infrastructure						
	⊖	⚠		⊕		↗
4.3.2 Renewable energy facilities						
	⊖	⚠			↻	↗
4.3.5 Major linear utilities						
	⊖	⚠	⚠		↻	↗
4.4 Pollution						
4.4.3 Surface water pollution						
	⊖	⚠	⚠	⊕	↻	→
4.5 Biological resource use/modification						
4.5.3 Land conversion	⊕	⚠	⚠	⊕		→
	⊖	⚠	⚠	⊕		→






4.5.4 Livestock farming/Grazing of domesticated animals						
4.5.5 Crop production						
4.6 Physical resource extraction						
4.6.1 Mining						
4.6.2 Quarrying						
4.6.4 Water (extraction)						
4.7 Local conditions affecting physical fabric						
4.7.1 Wind						
4.7.6 Water (rain/water table)						
4.7.7 Pests						
4.8 Social/Cultural uses of heritage						
4.8.1 Ritual/Spiritual/Religious and associative uses						
4.8.2 Society's valuing of heritage						
4.8.4 Changes in traditional ways of life and knowledge system						
4.8.5 Identity, social cohesion, changes in local population and community						
4.8.6 Impacts of tourism/Visitation/Recreation						
4.9 Other human activities						
4.9.1 Illegal activities						
4.9.2 Deliberate destruction of heritage						
4.9.6 Civil unrest						
4.10 Climate change and severe weather events						
4.10.1 Storms						
4.10.2 Flooding						
4.10.3 Drought						

						
4.10.4 Desertification						
						
4.11 Sudden ecological or geological events						
4.11.2 Earthquake						
						
4.11.4 Avalanche/Landslide						
						
4.11.5 Erosion and siltation/Deposition						
						
4.12 Invasive/alien species or hyper-abundant species						
4.12.1 Translocated species						
						
4.13 Management and institutional factors						
4.13.1 Management system/Management plan						
4.13.2 Legal framework						
						
4.13.3 Governance						
4.13.4 Management activities						
						
4.13.5 Financial resources						
4.13.6 Human resources						
4.13.7 Low impact research/monitoring activities						
Legend  Current  Potential  Negative  Positive  Inside  Outside						





4.16. Assessment of current and potential positive and negative factors

4.16.1 - Assessment of current and potential negative and positive factors

4.1 Buildings and Development





Name		Impact			Origin		Trend
4.1.1 Housing							
							
Spatial scale - Area affected by the factor							
	Restricted						
	Localised						
	Extensive						
	Widespread						

Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact			Origin		Trend
4.1.2 Commercial development						
						

Spatial scale - Area affected by the factor	
	Restricted
✕	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity



Temporal scale - Occurrence of the impact	
	One off or rare
✕	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact			Origin		Trend
4.1.5 Interpretative and visitation facilities						




Spatial scale - Area affected by the factor	
	Restricted
✕	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
✕	High capacity
	Medium capacity
	Low capacity

	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

4.2 Transportation Infrastructure





Name	Impact	Origin	Trend
4.2.1 Ground transport infrastructure			
			

Spatial scale - Area affected by the factor	
	Restricted
✕	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.2.3 Air transport infrastructure			
			

Spatial scale - Area affected by the factor	
✕	Restricted
	Localised
	Extensive





	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
✕	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.2.5 Effects arising from use of transportation infrastructure			
			 

Spatial scale - Area affected by the factor	
	Restricted
✕	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity

	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

4.3 Services Infrastructures

Name	Impact	Origin	Trend
4.3.1 Water infrastructure			
	 		




Spatial scale - Area affected by the factor	
	Restricted
	Localised
✕	Extensive
	Widespread

Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
✕	Frequent
	On-going

Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major






Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources

Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.3.2 Renewable energy facilities			
	 		

Spatial scale - Area affected by the factor	
✕	Restricted
	Localised







	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
✕	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact			Origin		Trend
4.3.5 Major linear utilities						
						

Spatial scale - Area affected by the factor	
✕	Restricted
	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
✕	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
✕	High capacity











	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

4.4 Pollution

Name	Impact	Origin	Trend
4.4.3 Surface water pollution			
	  	 	

Spatial scale - Area affected by the factor	
✕	Restricted
	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

4.5 Biological resource use/modification








Name	Impact	Origin	Trend
4.5.3 Land conversion	  		
	  		

Spatial scale - Area affected by the factor	
	Restricted
✕	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact			Origin		Trend
4.5.4 Livestock farming/Grazing of domesticated animals						

Spatial scale - Area affected by the factor	
✕	Restricted
	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
✕	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
✕	Insignificant
	Minor
	Significant

	Major
Management response - Capacity of management to respond	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact			Origin		Trend
4.5.5 Crop production						
						

Spatial scale - Area affected by the factor	
	Restricted
✕	Localised
	Extensive
	Widespread

Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
✕	Frequent
	On-going

Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major

Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

4.6 Physical resource extraction

Name	Impact			Origin		Trend
4.6.1 Mining						

Spatial scale - Area affected by the factor

✕

Restricted

Localised

Extensive

Widespread

Temporal scale - Occurence of the impact

One off or rare

Intermittent or sporadic

Frequent

✕

On-going

Impact - Impact on the attributes

Insignificant

✕

Minor

Significant

Major

Management response - Capacity of management to respond

High capacity

✕

Medium capacity

Low capacity

No capacity and / or resources

Trend - Developement over the last 6 years

Decreasing

✕

Static

Increasing

Name	Impact			Origin		Trend
4.6.2 Quarrying						

Spatial scale - Area affected by the factor

✕

Restricted

Localised

Extensive

Widespread

Temporal scale - Occurence of the impact

✕

One off or rare

Intermittent or sporadic

Frequent

On-going






Impact - Impact on the attributes

Insignificant

✕

Minor

	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact			Origin		Trend
4.6.4 Water (extraction)						
						

Spatial scale - Area affected by the factor	
✕	Restricted
	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
✕	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

4.7 Local conditions affecting physical fabric

Name	Impact	Origin	Trend
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4.7.1 Wind							

Spatial scale - Area affected by the factor	
<input checked="" type="checkbox"/>	Restricted
<input type="checkbox"/>	Localised
<input type="checkbox"/>	Extensive
<input type="checkbox"/>	Widespread
Temporal scale - Occurrence of the impact	
<input type="checkbox"/>	One off or rare
<input type="checkbox"/>	Intermittent or sporadic
<input checked="" type="checkbox"/>	Frequent
<input type="checkbox"/>	On-going
Impact - Impact on the attributes	
<input type="checkbox"/>	Insignificant
<input type="checkbox"/>	Minor
<input checked="" type="checkbox"/>	Significant
<input type="checkbox"/>	Major
Management response - Capacity of management to respond	
<input type="checkbox"/>	High capacity
<input type="checkbox"/>	Medium capacity
<input type="checkbox"/>	Low capacity
<input checked="" type="checkbox"/>	No capacity and / or resources
Trend - Development over the last 6 years	
<input type="checkbox"/>	Decreasing
<input checked="" type="checkbox"/>	Static
<input type="checkbox"/>	Increasing

Name	Impact			Origin		Trend
4.7.6 Water (rain/water table)						

Spatial scale - Area affected by the factor	
<input type="checkbox"/>	Restricted
<input checked="" type="checkbox"/>	Localised
<input type="checkbox"/>	Extensive
<input type="checkbox"/>	Widespread
Temporal scale - Occurrence of the impact	
<input type="checkbox"/>	One off or rare
<input type="checkbox"/>	Intermittent or sporadic
<input checked="" type="checkbox"/>	Frequent
<input type="checkbox"/>	On-going
Impact - Impact on the attributes	
<input type="checkbox"/>	Insignificant

	Minor
✕	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
✕	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact			Origin		Trend
4.7.7 Pests						
						





Spatial scale - Area affected by the factor	
	Restricted
✕	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
✕	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
✕	Insignificant
	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

4.8 Social/Cultural uses of heritage

Name		Impact			Origin		Trend
4.8.1 Ritual/Spiritual/Religious and associative uses							
Spatial scale - Area affected by the factor							
<input checked="" type="checkbox"/>	Restricted						
	Localised						
	Extensive						
	Widespread						
Temporal scale - Occurrence of the impact							
	One off or rare						
<input checked="" type="checkbox"/>	Intermittent or sporadic						
	Frequent						
	On-going						
Impact - Impact on the attributes							
	Insignificant						
<input checked="" type="checkbox"/>	Minor						
	Significant						
	Major						
Management response - Capacity of management to respond							
<input checked="" type="checkbox"/>	High capacity						
	Medium capacity						
	Low capacity						
	No capacity and / or resources						
Trend - Development over the last 6 years							
	Decreasing						
<input checked="" type="checkbox"/>	Static						
	Increasing						

Name		Impact			Origin		Trend
4.8.2 Society's valuing of heritage							
Spatial scale - Area affected by the factor							
	Restricted						
	Localised						
<input checked="" type="checkbox"/>	Extensive						
	Widespread						
Temporal scale - Occurrence of the impact							
	One off or rare						
<input checked="" type="checkbox"/>	Intermittent or sporadic						
	Frequent						
	On-going						
Impact - Impact on the attributes							

	Insignificant
	Minor
✕	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
✕	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact			Origin		Trend
4.8.4 Changes in traditional ways of life and knowledge system						
						

Spatial scale - Area affected by the factor	
	Restricted
✕	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
✕	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
✕	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
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4.8.5 Identity, social cohesion, changes in local population and community						

Spatial scale - Area affected by the factor

	Restricted
✕	Localised
	Extensive
	Widespread

Temporal scale - Occurrence of the impact

	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going

Impact - Impact on the attributes

	Insignificant
	Minor
✕	Significant
	Major

Management response - Capacity of management to respond

	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources

Trend - Development over the last 6 years

	Decreasing
	Static
✕	Increasing

Name	Impact			Origin		Trend
4.8.6 Impacts of tourism/Visitation/Recreation						

Spatial scale - Area affected by the factor

✕	Restricted
	Localised
	Extensive
	Widespread

Temporal scale - Occurrence of the impact






	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going

Impact - Impact on the attributes

	Insignificant
--	---------------

	Minor
✕	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

4.9 Other human activities

Name	Impact			Origin		Trend
4.9.1 Illegal activities						
						






Spatial scale - Area affected by the factor						
	Restricted					
✕	Localised					
	Extensive					
	Widespread					
Temporal scale - Occurrence of the impact						
	One off or rare					
	Intermittent or sporadic					
✕	Frequent					
	On-going					
Impact - Impact on the attributes						
	Insignificant					
	Minor					
✕	Significant					
	Major					
Management response - Capacity of management to respond						
	High capacity					
✕	Medium capacity					
	Low capacity					
	No capacity and / or resources					
Trend - Development over the last 6 years						
	Decreasing					
✕	Static					
	Increasing					

Name		Impact			Origin		Trend
4.9.2 Deliberate destruction of heritage							
Spatial scale - Area affected by the factor							
	Restricted						
✕	Localised						
	Extensive						
	Widespread						
Temporal scale - Occurrence of the impact							
	One off or rare						
✕	Intermittent or sporadic						
	Frequent						
	On-going						
Impact - Impact on the attributes							
	Insignificant						
	Minor						
✕	Significant						
	Major						
Management response - Capacity of management to respond							
	High capacity						
✕	Medium capacity						
	Low capacity						
	No capacity and / or resources						
Trend - Development over the last 6 years							
	Decreasing						
✕	Static						
	Increasing						




Name		Impact			Origin		Trend
4.9.6 Civil unrest							
Spatial scale - Area affected by the factor							
✕	Restricted						
	Localised						
	Extensive						
	Widespread						
Temporal scale - Occurrence of the impact							
	One off or rare						
✕	Intermittent or sporadic						
	Frequent						
	On-going						
Impact - Impact on the attributes							

	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
✕	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

4.10 Climate change and severe weather events

Name	Impact			Origin		Trend
4.10.1 Storms						
						

Spatial scale - Area affected by the factor	
✕	Restricted
	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
✕	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.10.2 Flooding			
			

Spatial scale - Area affected by the factor

<input checked="" type="checkbox"/>	Restricted
<input type="checkbox"/>	Localised
<input type="checkbox"/>	Extensive
<input type="checkbox"/>	Widespread

Temporal scale - Occurrence of the impact

<input type="checkbox"/>	One off or rare
<input checked="" type="checkbox"/>	Intermittent or sporadic
<input type="checkbox"/>	Frequent
<input type="checkbox"/>	On-going

Impact - Impact on the attributes




<input type="checkbox"/>	Insignificant
<input type="checkbox"/>	Minor
<input checked="" type="checkbox"/>	Significant
<input type="checkbox"/>	Major

Management response - Capacity of management to respond

<input type="checkbox"/>	High capacity
<input checked="" type="checkbox"/>	Medium capacity
<input type="checkbox"/>	Low capacity
<input type="checkbox"/>	No capacity and / or resources

Trend - Development over the last 6 years

<input type="checkbox"/>	Decreasing
<input type="checkbox"/>	Static
<input checked="" type="checkbox"/>	Increasing

Name	Impact	Origin	Trend
4.10.3 Drought			
			





Spatial scale - Area affected by the factor

<input checked="" type="checkbox"/>	Restricted
<input type="checkbox"/>	Localised
<input type="checkbox"/>	Extensive
<input type="checkbox"/>	Widespread

Temporal scale - Occurrence of the impact





<input type="checkbox"/>	One off or rare
<input checked="" type="checkbox"/>	Intermittent or sporadic
<input type="checkbox"/>	Frequent
<input type="checkbox"/>	On-going

Impact - Impact on the attributes	
<input checked="" type="checkbox"/>	Insignificant
<input type="checkbox"/>	Minor
<input type="checkbox"/>	Significant
<input type="checkbox"/>	Major
Management response - Capacity of management to respond	
<input type="checkbox"/>	High capacity
<input checked="" type="checkbox"/>	Medium capacity
<input type="checkbox"/>	Low capacity
<input type="checkbox"/>	No capacity and / or resources
Trend - Development over the last 6 years	
<input type="checkbox"/>	Decreasing
<input type="checkbox"/>	Static
<input checked="" type="checkbox"/>	Increasing





Name	Impact			Origin		Trend
4.10.4 Desertification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>			<input type="checkbox"/>	

Spatial scale - Area affected by the factor	
<input checked="" type="checkbox"/>	Restricted
<input type="checkbox"/>	Localised
<input type="checkbox"/>	Extensive
<input type="checkbox"/>	Widespread
Temporal scale - Occurrence of the impact	
<input checked="" type="checkbox"/>	One off or rare
<input type="checkbox"/>	Intermittent or sporadic
<input type="checkbox"/>	Frequent
<input type="checkbox"/>	On-going
Impact - Impact on the attributes	
<input checked="" type="checkbox"/>	Insignificant
<input type="checkbox"/>	Minor
<input type="checkbox"/>	Significant
<input type="checkbox"/>	Major
Management response - Capacity of management to respond	
<input type="checkbox"/>	High capacity
<input type="checkbox"/>	Medium capacity
<input checked="" type="checkbox"/>	Low capacity
<input type="checkbox"/>	No capacity and / or resources
Trend - Development over the last 6 years	
<input type="checkbox"/>	Decreasing
<input checked="" type="checkbox"/>	Static
<input type="checkbox"/>	Increasing

4.11 Sudden ecological or geological events



Name	Impact	Origin	Trend
4.11.2 Earthquake			
			
			

Spatial scale - Area affected by the factor	
<input checked="" type="checkbox"/>	Restricted
<input type="checkbox"/>	Localised
<input type="checkbox"/>	Extensive
<input type="checkbox"/>	Widespread
Temporal scale - Occurrence of the impact	
<input checked="" type="checkbox"/>	One off or rare
<input type="checkbox"/>	Intermittent or sporadic
<input type="checkbox"/>	Frequent
<input type="checkbox"/>	On-going
Impact - Impact on the attributes	
<input type="checkbox"/>	Insignificant
<input type="checkbox"/>	Minor
<input type="checkbox"/>	Significant
<input checked="" type="checkbox"/>	Major
Management response - Capacity of management to respond	
<input type="checkbox"/>	High capacity
<input type="checkbox"/>	Medium capacity
<input checked="" type="checkbox"/>	Low capacity
<input type="checkbox"/>	No capacity and / or resources
Trend - Development over the last 6 years	
<input type="checkbox"/>	Decreasing
<input checked="" type="checkbox"/>	Static
<input type="checkbox"/>	Increasing

Name	Impact	Origin	Trend
4.11.4 Avalanche/Landslide			
			
			

Spatial scale - Area affected by the factor	
<input checked="" type="checkbox"/>	Restricted
<input type="checkbox"/>	Localised
<input type="checkbox"/>	Extensive
<input type="checkbox"/>	Widespread
Temporal scale - Occurrence of the impact	
<input checked="" type="checkbox"/>	One off or rare
<input type="checkbox"/>	Intermittent or sporadic

	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
✕	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact			Origin		Trend
4.11.5 Erosion and siltation/Deposition						
						

Spatial scale - Area affected by the factor	
✕	Restricted
	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
✕	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing

	Static
✕	Increasing

4.12 Invasive/alien species or hyper-abundant species

Name	Impact	Origin	Trend
4.12.1 Translocated species	<div>+</div> <div>🚩</div> <div></div>	<div></div> <div></div>	<div></div>
	<div>-</div> <div>🚩</div> <div>🚩</div>	<div>🕒</div> <div></div>	<div>➡</div>










Spatial scale - Area affected by the factor	
✕	Restricted
	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
✕	One off or rare
	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

4.13 Management and institutional factors

Name	Impact	Origin	Trend
4.13.1 Management system/Management plan	<div>+</div> <div>🚩</div> <div></div>	<div>🕒</div> <div></div>	<div>➡</div>
	<div></div> <div></div> <div></div>	<div></div> <div></div>	<div></div>






Spatial scale - Area affected by the factor	
	Restricted
	Localised
	Extensive
✕	Widespread

Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
	Significant
✕	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact			Origin		Trend
4.13.2 Legal framework						
						

Spatial scale - Area affected by the factor	
	Restricted
	Localised
	Extensive
✕	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
	Significant
✕	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity

	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.13.3 Governance	  		









Spatial scale - Area affected by the factor	
	Restricted
	Localised
✕	Extensive
	Widespread

Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going

Impact - Impact on the attributes	
	Insignificant
	Minor
	Significant
✕	Major

Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources

Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.13.4 Management activities	 		
	 		




Spatial scale - Area affected by the factor	
	Restricted
	Localised
✕	Extensive
	Widespread

Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going

Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major

Management response - Capacity of management to respond	
	High capacity
	Medium capacity
✕	Low capacity
	No capacity and / or resources

Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact			Origin		Trend
4.13.5 Financial resources						






Spatial scale - Area affected by the factor	
✕	Restricted
	Localised
	Extensive
	Widespread

Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
✕	Frequent
	On-going

Impact - Impact on the attributes	
	Insignificant
	Minor
	Significant
✕	Major

Management response - Capacity of management to respond	
	High capacity
	Medium capacity
	Low capacity

✕	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact	Origin	Trend
4.13.6 Human resources	  		





Spatial scale - Area affected by the factor	
	Restricted
✕	Localised
	Extensive
	Widespread

Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
✕	Frequent
	On-going

Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major

Management response - Capacity of management to respond	
	High capacity
	Medium capacity
✕	Low capacity
	No capacity and / or resources

Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact	Origin	Trend
4.13.7 Low impact research/monitoring activities	 		

Spatial scale - Area affected by the factor	
✕	Restricted
	Localised
	Extensive
	Widespread

Temporal scale - Occurrence of the impact	
	One off or rare
✕	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
✕	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

4.17. Serial inscriptions (national or transnational)

4.17.1 - If your property is a serial inscription (national or transnational) please identify which components of the property are impacted by each factor

In the case of the Hydraulic Complex of the Padre Tembleque Aqueduct, which is a national serial inscription, as a whole it is affected if there is no instrument that plans, operates, monitors and evaluates the objectives set to preserve the Exceptional Universal Value; It is also affected if there is no effective management of economic and financial resources. Of the components affected by factors or threats are: the main channel of the spring area, Arquería Mayor and the immediate natural environment.

4.18. Prediction of the state of conservation at next cycle of Periodic Reporting.

4.18.1 - Please predict what the state of conservation of each attribute will be approximately 6 years from now (at the time of the next cycle of Periodic Reporting)

	Attribute	Preserved	Compromised	Seriously compromised	Lost
4.18.1.1	The Main Arch of Tepeyahualco of 68 arches with a length of 48.22 km	✕			
4.18.1.2	The use of adobe shoring for the construction of the main arcade in Tepeyahualco		✕		
4.18.1.3	Miscegenation of European and indigenous technique, technology, materials, construction systems.	✕			
4.18.1.4	Presence of pictograms that left evidence of the indigenous hand used	✕			
4.18.1.5	Integrity in its length and in its components	✕			

5. Protection and Management of the Property

5.1. Boundaries and Buffer Zones

5.1.1 - Are the boundaries of the World Heritage property adequate to maintain the property's Outstanding Universal Value?

The boundaries are **adequate to maintain** the property's Outstanding Universal Value

5.1.2 - Are the boundaries of the World Heritage property known and recognised?

The boundaries **are known by both** the management authority and local communities/landowners

5.1.3 - Are the buffer zone(s) of the World Heritage property adequate to maintain the property's Outstanding Universal Value?

The buffer zones are **adequate** to maintain the property's Outstanding Universal Value

5.1.4 - Are the boundaries of the buffer zones known and recognised?

The buffer zones of the World Heritage property **are known and recognised** by the management authority **but are not known** by local communities/landowners

5.1.5 - Comments, conclusions and/or recommendations related to boundaries and buffer zones of the World Heritage property

The Core and Buffer Zone are sufficient to preserve the Exceptional Universal Value and conditions of integrity and authenticity; however, it is necessary to take steps to be recognized by communities and owners and insert them in the State, regional and municipal plans for urban development and in Lineamientos and Regulations for the protection of Cultural Heritage so that their recognition and knowledge have legal force.

5.2. Protective Measures

5.2.1 - Protective designation (legal, regulatory, contractual, planning, institutional and/or traditional).

Comment

For the Hydraulic Complex of the Padre Tembleque Aqueduct, it is the first periodic report in this third cycle; the basis of protection is as listed in point 5.2.2 below. in addition to the Convention on the Protection of the World Cultural and Natural Heritage of 1972, approved by the Senate of the Republic on February 23, 1984, ratified by the Mexican State and published in the Official Gazette of the Federation on May 2 of the same year.

5.2.2 - Please list any legislation and other measures (regulatory -including spatial planning- contractual, institutional or traditional) not included in 5.2.1 and indicate the category

1917 /

Political Constitution of the United Mexican States. <https://www.diputados.gob.mx/LeyesBiblio/index.htm> National Law; Magna Carta of the Mexican State. / Yes / No / Mexican State / No / 1972 /

Federal Law on Archaeological, Artistic and Historical Monuments and Zones. <https://www.diputados.gob.mx/LeyesBiblio/index.htm> Federal Law / Yes / No / Yes, From the National Institute of Anthropology and History. / No / 1988 /

General Law of Ecological Balance and Environmental Protection. <https://www.diputados.gob.mx/LeyesBiblio/index.htm>

Federal Law / Yes / No / Yes / No / 2004 /

General Law of National Assets. <https://www.diputados.gob.mx/LeyesBiblio/index.htm> Federal Law /

No / No / No / No / 2016 /

General Law on Human Settlements, Territorial Planning and Urban Development. <https://www.diputados.gob.mx/LeyesBiblio/index.htm> Federal Law / Yes /

No / Yes, Secretary of Territorial and Urban Agrarian Development / No / 1939 /

Organic Law of the National Institute of Anthropology and History. <https://www.diputados.gob.mx/LeyesBiblio/index.htm> Federal Law / No / No /

National Institute of Anthropology and History / No / 2022 /

Federal Law on the Protection of the Cultural Heritage of Indigenous and Afro-American Peoples and Communities. <https://www.diputados.gob.mx/LeyesBiblio/index.htm> Federal Law / No / No / No /

No / 1992; Last reform 2018 /

Agrarian Law; <https://www.diputados.gob.mx/LeyesBiblio/index.htm> Federal Law / Yes / No / Yes, Secretary of Agrarian Reform / No /

1992 /

National Water Law; <https://www.diputados.gob.mx/LeyesBiblio/index.htm> Federal Law / Yes / No / National Water Commission / No / 1920 /

Political Constitution of the Free and Sovereign State of Hidalgo; <https://www.diputados.gob.mx/LeyesBiblio/index.htm> Magna Carta of the State Hidalgo. / Yes / No / Government of the State of Hidalgo / No / 2007; Last reform 2021 / Law on Human Settlements, Urban Development and Territorial Planning of the State of Hidalgo. /

State law / Yes / no / Yes, Government of the State of Hidalgo / No / 2018; Last reform 2021 / Law of Culture and Cultural Rights of the State of Hidalgo. / State law /

No / No / Secretary of Culture of the State of Hidalgo / No / 2012; Last reform 2021 / Sustainable Tourism Law of the State of Hidalgo. / State law / No /

No / Secretary of Tourism of the State of Hidalgo / No / 2015; Last reform 2021 / Law for the Protection of the Environment of the State of Hidalgo. / State law / No / No /

Government of the State of Hidalgo / No / 1983 / Law on Protection And Architectural Conservation Of The Tepeapulco Area And Surrounding Communities Of The State Of Hidalgo. / State and Municipal Law of Tepeapulco, Hidalgo. / Yes / No / Municipal Government of Tepeapulco, Hidalgo /

No / 1983 / Law on Protection and Architectural Conservation of the Zempoala Area and Surrounding Communities of the State of Hidalgo 1983 / State and Municipal Law of Zempoala, Hidalgo. / Yes / No / Municipal Government of Zempoala, Hidalgo / No /

1917. Last reform 2021 / Political Constitution of the Free and Sovereign State of Mexico. / Yes, Magna Carta of the State of Mexico / Yes / No / Yes, Government of the State of Mexico / No / 1983; Last reform 2020 /

The State Urban Development Plan of the State of Mexico. / Yes / Yes / No / Secretary of Urban Development, with dependyes, federal, state and municipal public sector, in terms of the provisions of articles 5.6 and 5.24 of the Administrative Code of the State of Mexico. / No / 2001 last modified 2017 / The Planning Law of the State of Mexico and Municipalities /

State law / Yes / No / Yes, State government and municipalities of Acolman, Otumba, Axapusco and Nopaltepec of the State of Mexico / No / 2008 / Regional Tourism Development Program of the Teotihuacan-Acolman-Otumba-San Martín de las Pirámides-Axapusco-Nopaltepec corridor. / Yes /

Yes / No / Municipalities of Acolman, Otumba, Axapusco and Nopaltepec in the State of Mexico. / No / Period 2020-2024 / Municipal Urban Development Plan of Zempoala, State of Hidalgo. 2020-2024 / Yes, Legal Instrument of Territorial and Urban Planning of the Municipality of Zempoala, Hidalgo. / Yes /

No / Municipal government of Zempoala, Hidalgo / No / 2003 /

Municipal Urban Development Plan of Otumba, State of Mexico; <https://seduo.edomex.gob.mx/otumba> Yes / Yes. Legal Instrument of Territorial and Urban Planning of the Municipality of Otumba, State of Mexico / No /

Municipal government of Otumba, State of Mexico / No / 2019 / Municipal Urban Development Plan of Nopaltepec, State of Mexico. / Yes / Yes. Legal Instrument of Territorial and Urban Planning of the Municipality of Nopaltepec, State of Mexico / No / Municipal government of Nopaltepec, State of Mexico /

No / Period 2019-2021 /

Municipal Urban Development Plan of Axapusco, State of Mexico. <https://axapusco.edomex.gob.mx/plan-desarrollo-municipal> Yes. Legal Instrument of Territorial and Urban Planning of the Municipality of Axapusco, State of Mexico / Yes. Legal Instrument of Territorial and Urban Planning of the Municipality of Axapusco, State of Mexico / No / Municipal government of Axapusco, State of Mexico. / No /

5.2.3 - Is the legal framework (i.e. legislation and/or regulation including spatial planning) adequate for maintaining the Outstanding Universal Value including conditions of Integrity and/or Authenticity of the property?

The **legal framework** for maintaining of the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the World Heritage property provides an **adequate basis for effective management and protection**

5.2.4 - Is the legal framework (i.e. legislation and/or regulation) adequate in the buffer zone for maintaining the Outstanding Universal Value including conditions of Integrity and/or Authenticity of the property?

There is **no legal framework** in the buffer zone for maintaining the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the World Heritage property

5.2.5 - Is the legal framework (i.e. legislation and/or regulation) in the broader setting of the World Heritage property adequate for maintaining the Outstanding Universal Value including conditions of Integrity and/or Authenticity of the property?

There is **no legal framework** for controlling use and activities in the broader setting of the World Heritage property

5.2.6 - Can the legal framework (i.e. legislation and/or regulation) be enforced?

There are **major deficiencies in capacity/resources** to enforce legislation and/or regulation in the World Heritage property

5.2.7 - Please provide a short summary of how the legislation, including spatial planning and other regulation, works in practice

In practice, the existing federal legislation is applied in the attention of requests for direct conservation work in the Cultural Property or in its adjoining areas, also in response to complaints for works in the property and in its adjoining areas when there is no authorization from the competent institutions. It makes use of the statements established in the international agreements signed by the Mexican State and of intervening federal laws.

5.2.8 - Comments, conclusions and/or recommendations about the information related to the measures taken to protect the World Heritage property

It is necessary to strengthen the Federal Law on Archaeological, Artistic and Historical Areas and Monuments with Technical Conservation Guidelines and specific manuals for the protection of the World Heritage of Humanity. Strengthen the core area with the Declaration of Monuments Zone of cultural property and include the protection zones in the State and Municipal Urban Development Plans. Bring to fruition the Comprehensive Management and Management Plan.

5.3. Management System/Management Plan

5.3.1 - Please check the box which most closely match the character of the governance and management system of the property

Public management system at national level

If 'Other', please specify

Traditional management system

5.3.2 - Management System: Please indicate which of the various management tools listed below are used to help protect the property.

Traditional ways of management recognised by local communities and other specific groups

Governance mechanisms that foster and respect traditional practices, knowledge and uses of the property

A framework for inclusive economic development, including equal access and distribution of resources and opportunities arising from the protection of the property

An annual work plan or business plan

5.3.3 - Please give a brief description of the management system currently in place at your property

Technical and Legal Protection of Historical Monuments of the INAH Hidalgo Center of the National Institute of Anthropology and History.

5.3.4 - Management Documents

5.3.5 - Has any use been made of the 2011 Recommendation on the Historic Urban Landscape in developing policies and best practices for the protection of this property?

Some use has been made of the 2011 Recommendation on the Historic Urban Landscape

5.3.6 - If the Historic Urban Landscape Recommendation has been used at this property, please describe briefly what has been done.

the 2011 Recommendation on the Historic Urban Landscape has used been In the localities of Zempoala in Hidalgo and Otumba in the State of Mexico, in Urban Image Projects and in the protection of Archaeological Zones within the Core Protection Zone.

5.3.7 - Has any use been made of the Policy Document on the Impacts of Climate Change on World Heritage Properties at the property?

No use has been made of the World Heritage Policy for Climate Change

5.3.8 - If the Climate Change policy has been used, please briefly describe what has been done along with any research on the impacts of Climate Change on the property:

The Climate Change policy has not been used

5.3.9 - Has any use been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties at the property ?

No use has been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties

5.3.10 - If the Strategy for Reducing Risks from Disasters at World Heritage Properties has been used, please briefly describe what has been done

The Strategy for Reducing Risks from Disasters at World Heritage Properties has not been used.

5.3.11 - Rate the coordination between the various levels of administration (i.e. national/federal; regional/provincial/state; local/municipal etc.) involved in the management of the World Heritage property

There is **coordination** between the range of administrative bodies involved in the management of the property, **but it could be improved**

5.3.12 - Is the management system/plan adequate to maintain the property's Outstanding Universal Value?

No management system/plan is currently in place to maintain the property's Outstanding Universal Value

5.3.13 - Is the management system being implemented?

No management system is currently in place

5.3.14 - Is there an annual work/action plan and is it being implemented?

No annual work/action plan exists despite an identified need

5.3.15 - Does the management system include formal mechanisms and procedures that ensure participation and contribution of the following groups, living within or near the World Heritage property and/or buffer zone in management decisions that maintain the Outstanding Universal Value of the property?

		Not applicable	No mechanisms for participation	Some participation	Direct participation	Transformative participation in all relevant decision processes
5.3.15.1	Local communities			✗		
5.3.15.2	Local authorities				✗	
5.3.15.3	Landowners in the property and the buffer zone		✗			
5.3.15.4	Indigenous peoples	✗				
5.3.15.5	Women			✗		
5.3.15.6	Other specific groups					
	If you selected, 'Other specific groups' please specify					

5.3.16 - Please rate the cooperation/relationship between the World Heritage property managers/coordinators/staff and the following groups

		Not applicable	Non-existent	Poor	Fair	Good
5.3.16.1	Local communities				✗	
5.3.16.2	Local/Municipal authorities			✗		
5.3.16.3	Indigenous peoples	✗				
5.3.16.4	Landowners			✗		
5.3.16.5	Women			✗		
5.3.16.6	Youth/Children			✗		
5.3.16.7	Researchers			✗		
5.3.16.8	Local Visitors/Tourists			✗		
5.3.16.9	National/International tourists			✗		
5.3.16.10	Tourism Industry			✗		
5.3.16.11	Local businesses and industries			✗		
5.3.16.12	NGOs			✗		
5.3.16.13	Other specific groups					
	If you selected 'Other specific groups', please specify					

5.3.17 - Please rate the extent to which the management system of your property contributes towards achieving the objectives of the World Heritage Committee's Policy for the Integration of a Sustainable Development Perspective into the Processes of the *World Heritage Convention*

		Not applicable	No contribution	Limited	Significant	Full achievement
5.3.17.1	The management system of the property contributes to gender equality			✗		
5.3.17.2	The management system of the property provides ecosystem services/benefits to the local community (e.g. fresh air, water, food, medicinal plants)	✗				

5.3.17.3	The management system of the property contributes to social inclusion and equity, improving opportunities for all, irrespective of age, sex, disability, ethnicity, origin, religion or economic or other status			×		
5.3.17.4	The management system of the property integrates a human rights-based approach			×		
5.3.17.5	The management system of the property contributes to fostering inclusive local economic development, and to enhancing livelihood			×		
5.3.17.6	The management system of the property contributes to conflict prevention, including respect for cultural diversity within and around the World Heritage property			×		

5.3.18 - Please provide further details on the ratings of the management system given in the table above

The inscription of the property on the World Heritage list contributed to the promotion of identity; the right to culture as a human right; communities are becoming aware of the importance of the good as an integrator of common interests, which should contribute to the prevention of social conflicts such as the use of water and the preventive conservation of the good and its surroundings.

5.3.19 - Comments, conclusions and/or recommendations related to the management system/plan

It is pertinent and useful that the Hydraulic Complex of the Padre Tembleque Aqueduct has an appropriate management plan or other documented management system that specifies how the Exceptional Universal Value of a good should be preserved, preferably through participatory means; to provide lines of action and strategies to preserve cultural values or Exceptional Universal Value (VUE), and the conditions of Integrity and authenticity, with the approach preferably through participatory means.

6. Financial and Human Resources

6.1. Funding

6.1.1 - If your funding sources do not exactly fit those shown, put the relevant amounts against the funding type that most closely represents your situation, and use the comment box below to provide more details.

		Project costs	Running costs
6.1.1.1	Multilateral funding (GEF, World Bank, etc.)	0 %	0 %
6.1.1.2	Bilateral international funding	0 %	0 %
6.1.1.3	World Heritage Fund (International Assistance)	0 %	0 %
6.1.1.4	Contribution from other conventions and programmes	0 %	0 %
6.1.1.5	International donations (NGOs, foundations, etc.)	0 %	0 %
6.1.1.6	Governmental (national/federal)	0 %	0 %
6.1.1.7	Governmental (regional/provincial/state)	100 %	0 %
6.1.1.8	Governmental (local/municipal)	0 %	0 %
6.1.1.9	In-country donations (NGOs, foundations, etc.)	0 %	0 %
6.1.1.10	Individual visitor charges (e.g. entry, toilets, parking, camping fees, etc.)	0 %	0 %
6.1.1.11	Commercial activities (e.g. merchandising and catering, filming permit, concessions, etc.)	0 %	0 %
6.1.1.12	Other	0 %	0 %
		Total 100 %	Total 0 %

6.1.2 - Please comment here on any other aspects of funding sources not covered in the table above

Due to the earthquakes of 2017, which affected the Cultural Heritage of the Country, as well as the SARS-CoV2 Pandemic (COVID-19), funding for the conservation of cultural property has been almost zero. The reported financing refers to conservation works in the terminal cistern in Otumba in 2016, in dissemination and signage activities to reach the Arcade in Tepeyahualco.

6.1.3 - Is the current budget sufficient to manage the World Heritage property effectively?

There is **no budget** for the effective management of the World Heritage property **despite an identified need**

6.1.4 - Are the existing sources of funding secure and likely to remain so?

The existing sources of funding are **not secure**

6.1.5 - Comments, conclusion, and/or recommendations related to finance and infrastructure

Before 2015 there was federal funding, curos resources were applied by a civil association in the Cultural Property in maintenance works; in 2015 an international financing that allowed the conservation of three central arches of the Arcada Mayor de Tepeyahualco; in 2019 there was financing from the municipality of Zempoala for the purchase of land adjacent to the Convent of All Saints of the sixteenth century, in Zempoala, associated with the trajectory of the Aqueduct.

6.1.6 - Estimate the distribution of men and women involved in the management, conservation, interpretation of the World Heritage properties and the extent to which they are drawn from local communities.

		From local communities %	From elsewhere %
6.1.6.1	Men	60 %	40 %
6.1.6.2	Women	40 %	60 %

6.1.7 - Are available human resources adequate to manage the World Heritage property?

Human resources **partly meet** the management needs of the World Heritage property

6.1.8 - Considering the management needs of the World Heritage property, please rate the availability of professionals in the following disciplines

Conservation	Fair
Environmental sustainability	Poor
Community participation and inclusion	Fair
Risk preparedness	Poor
Capacity development and education	Poor
Administration	Not available
Research and monitoring	Fair
Awareness raising and public information/communication	Fair
Marketing and promotion	Poor
Interpretation	Poor
Visitor management/tourism	Poor
Enforcement (custodians, police)	Fair

6.1.9 - Please rate the availability of training opportunities for the management of the World Heritage property in the following disciplines

Conservation	Poor
Environmental sustainability	Fair
Community participation and inclusion	Good
Risk preparedness	Poor
Capacity development and education	Fair
Administration	Poor
Research and monitoring	Good
Awareness raising and public information/communication	Fair
Marketing and promotion	Fair
Interpretation	Poor
Visitor management/tourism	Poor
Enforcement (custodians, police)	Poor

6.1.10 - Has any use been made of the World Heritage Strategy for Capacity Building at the property?

Some use has been made of the World Heritage Strategy for Capacity Building

6.1.11 - If the World Heritage Strategy for Capacity Building has been used, please briefly describe what has been done.

In the management for conservation and protection of the Hydraulic Complex of the Padre Tembleque Aqueduct, the strategy for the development of capacities has been applied, strengthening the knowledge of the professionals in charge of it; a dynamic has begun to be generated between heritage and its social context, without losing sight of the fact that the Exceptional Universal Values, integrity and authenticity of the good, are protected in an effective and sustainable way.

6.1.12 - Are there site-specific capacity building plans or programmes that develop local expertise and that contribute to the transfer of skills for the conservation and management of the World Heritage property?

A site-based capacity building plan or programme is in place and partially implemented; some technical skills are being transferred to those managing the property locally, **but most technical work is carried out by external staff**

6.1.13 - Comments, conclusions and/or recommendations related to human resources, expertise and training

It is necessary to manage financial resources for the mobility and management of specialized technical personnel. As for the human resources of the communities, this is one of the effective available assets, which, in the absence of budget, contributes to the monitoring of the site, the environmental and agricultural heritage that is part of the environment of the Cultural Property and the intangible; The extension of the site requires greater human resources with budgetary support.

7. Scientific Studies and Research Projects**7.1 - Is there adequate knowledge (scientific or traditional) about the values and attributes of the World Heritage property to support**

planning, management and decision-making to ensure that Outstanding Universal Value is maintained?

Knowledge about the values and attributes of the World Heritage property is **acceptable** for most key areas but there are gaps

7.2 - Is there a planned programme of research at the property which is directed towards management needs and/or improving understanding of Outstanding Universal Value?

There is **considerable research** but it is **not directed towards management needs and/or improving understanding of Outstanding Universal Value**

7.3 - Are results from research programmes publicly available and disseminated?

Research **results are shared** with local communities and partners **but there is no active outreach** to national or international agencies

7.4 - Comments, conclusions and/or recommendations related to scientific studies and research projects

The research works to date have been of a historical, urban, archaeological and anthropological nature around the cultural property; the Ministry of Culture of Hidalgo has promoted the research of the Cultural Property with the publication of two books and three days of dissemination, a colloquium with an inclusive and transdisciplinary vision whose central theme is the criteria of Exceptional Universal Value, integrity and authenticity; it is necessary to promote other studies.

8. Education, Information and Awareness Building

8.1 - Please rate the awareness and understanding of the existence and justification for inscription of the World Heritage property amongst the following groups

Local communities	Fair
Local/municipal authorities	Fair
Indigenous peoples	Poor
Landowners	Poor
Women	Poor
Youth/children	Fair
Researchers	Good
Local visitors	Fair
National/international tourists	Poor
Tourism industry	Fair
Local businesses and industries	Fair
NGOs	Fair
Other specific groups	Fair
If you selected 'Other specific groups', please describe	Sportsmen(cycling, hiking, athletics), horse, riders and religious

8.2 - Does the property have a heritage education programme(s) for children and/or youth, that can contribute to a better understanding of heritage, promote diversity and foster intercultural dialogue?

There is a **limited and ad hoc education** and awareness programme for children and/or youth

8.3 - Who are the target audiences for education and awareness programmes at your property?

Local communities
Local/municipal authorities
Women
Youth/children
Researchers
Local Visitors
National/international tourists
Tourism industry
Local businesses and industries
NGOs
Other specific groups
Athletes and bearers of other cultural traditions linked to the rural life of the environment of the heritage asset such as horseback riding and charrería, as well as small owners dedicated to the agriculture of the maguey and the extraction of its derivatives to obtain mead and pulque.

8.4 - Please rate the adequacy of the following visitor facilities and services at the World Heritage property for education, information, interpretation and awareness building

Visitor centre	Not provided but needed
Site museum	Not provided but needed
Information booths	Not provided but needed
Guided tours	Poor
Trails/routes	Not provided but needed
Printed information materials	Poor
Online (website, social media, etc.)	Fair
Transportation facilities	Fair
Other	Not provided but needed
If 'Other' is selected, please specify	Sanitary facilities at strategic points

8.5 - Comments, conclusions and/or recommendations related to education, information and awareness building

Continue to raise awareness among communities, authorities, local, national and international tourism about the preservation of the World Heritage Site; Permanent monitoring of visitors; continue to educate children and young people of all basic, middle and higher levels, on the importance of the Exceptional Universal Value and the conditions of integrity and authenticity of the World Heritage property.

9. Visitor Management

9.1 - Please provide estimated annual visitor numbers (including national and international visitors) since the last Periodic Report

12400 / 18450 / 22685 / 24782 / 5800 /

9.2 - What information sources are used to collect visitor statistics?

Entry tickets and registries

Accommodation establishments

Transportation services

Tourism industry

Visitor surveys

Other

Sources: Municipal Tourism Directorate of Zempoala, Hidalgo, with count of tourists and visitors, economic spillover, DATATur System; registration logs

9.3 - What is the average length stay of a visitor to the World Heritage property?

One day (no overnight stay)

9.4 - Please provide the source of information

Sources: Municipal Tourism Directorate of Zempoala, Hidalgo, with count of tourists and visitors, economic spillover, DATATur System; Average records.

9.5 - What is the approximate average daily visitor expenditure? (Please provide an estimated monetary figure in USD)

100 / 40 / 30 / 10 / 30 / 50 /

9.6 - Please provide the source of information

Sources: Municipal Tourism Directorate of Zempoala, Hidalgo, with count of tourists and visitors, economic spillover, DATATur System; Average of registrations and surveys.

9.7 - Does the management system/plan for the World Heritage property include a strategy with an action plan to manage visitors, tourism activity and its derived economic, socio-cultural and environmental impacts?

There is a **strategy** to manage visitors, tourism activity and its derived impacts on the World Heritage property but there are **some deficiencies in implementation**

9.8 - Please provide any comments relating to the answer provided above in question 9.7

It is intended that, with the National Strategy of Magical Towns at the State level, including Zempoala, -urban center of arrival of one of the main branches of the Hydraulic Complex of the Aqueduct of Padre Tembleque will benefit economically and in its conservation. Promotion of the good is carried out in social networks. Tourist routes are drawn with strategic points.

9.9 - Is visitor use effectively managed to maintain the Outstanding Universal Value of the property?

There is **some management** of the visitor use of the World Heritage property

9.10 - Is the effectiveness of tourism management regularly monitored?

Yes, using a different system

If a different system, please specify

The Municipal Tourism Development Plan.

9.11 - How does the tourism industry cooperate with the site management to improve visitor experiences and maintain the

Outstanding Universal Value of the World Heritage property?

Although the tourism industry is active in the property, there is **no contact** between those responsible for the World Heritage property and the tourism industry

9.12 - How well is the information on the Outstanding Universal Value of the property presented and interpreted?

The presentation and interpretation of the Outstanding Universal Value of the property is **acceptable but improvements could be made**

9.13 - At how many locations is the World Heritage emblem displayed at the property?

In **many locations**, but **not easily visible** to visitors

9.14 - How does visitor/tourism revenue (e.g. entry charges, permits) contribute to the management of the World Heritage property?

No fees are collected

9.15 - Are there locally driven sustainable tourism initiatives?

Yes

If 'Yes', please specify

The initiatives are visualized in the indicators and goals associated with well-being and sustainable tourism in the Magical Towns, described in the State strategy of Magical Towns of the State of Hidalgo, presented in the first quarter of 2021 by the State Government; which is applicable to the Magical Town of Zempoala, Hidalgo; In Otumba in the elaboration of a Sustainable and Artisanal Tourism Development Plan.

9.16 - Are the benefits of tourism shared with local communities?

Yes

If 'Yes', please specify

Improvements in urban infrastructure services.

9.17 - Comments, conclusions and/or recommendations related to visitation/tourism/public use of the World Heritage property

One of the most well-known and visited elements is the Arcada Mayor in Tepeyahualco, it is considered important to enable health and rest infrastructure for tourists and visitors at a distance that does not visually affect the good; another aspect of vital importance is to improve and increase the surveillance rondines in this area, making this action permanent to guarantee the conservation of the Arcade and the physical safety of those who come. Also to avoid vehicular access under the arches.

10. Monitoring

10.1 - Is there a monitoring programme at the property directed towards management needs and/or towards improving the understanding of the Outstanding Universal Value?

There is **considerable monitoring** but it is not directed towards management needs and/or improving the understanding of Outstanding Universal Value

10.2 - Is necessary information available in order to define key indicators for measuring the state of conservation and are they used in monitoring how the Outstanding Universal Value of the property is being maintained?

Information on the values of the World Heritage property is **sufficient to define key indicators, but this has not been done**

10.3 - Are key indicators defined and in place for the following principal aspects of the property?

	Extend of indicators	Not applicable	No indicators	Indicators have been defined but are not yet in use	Indicators are in place and in use since the last Periodic Reporting cycle
10.3.1	State of conservation			✗	
10.3.2	Effectiveness of the management system		✗		
10.3.3	Character of governance		✗		
10.3.4	Appropriate synergy with other conservation designations		✗		
10.3.5	Contribution to sustainable development		✗		
10.3.6	Capacity development		✗		

10.4 - Please provide information on relevant key indicators adopted at the property

From the inscription in 2015 and to date (2021), it is through inspections, tours and surveillance in the good in the two states of its trajectory, that the state of conservation of the Exceptional Universal Value, Authenticity and integrity has been determined; with the attention and follow-up of technical requests for intervention work in the World Heritage property and its adjoining as established by the Federal Law on Monuments and Archaeological, Artistic and Historical Zones.

10.5 - Please rate the level of involvement in monitoring of the following groups:

World Heritage managers/coordinators and staff	Fair
Local/municipal authorities	Poor
Local communities	Poor
Indigenous peoples	Non-existent
Landowners	Non-existent

Women	Poor
Researchers	Poor
Tourism industry	Poor
Local businesses and industry	Poor
NGOs	Not applicable
Other specific groups	Poor
If you selected 'Other specific groups', please specify	Athletes, children and young people

10.6 - Has the State Party implemented relevant recommendations arising from the World Heritage Committee?

Implementation is underway

10.7 - Please provide comments relevant to the implementation of recommendations from the World Heritage Committee.

The three levels of Mexican government (Federal, state and municipal), in the two states where the hydraulic complex has its trajectory, according to their administrative competence monitor and monitor the conditions of the state of conservation of the Hydraulic Complex, however, it is necessary that it be more coordinated, participatory and effective to achieve the common objective of integrated conservation of the Aqueduct and its associated environment.

10.8 - Comments, conclusions and/or recommendations related to Monitoring

The monitoring of the Hydraulic Complex must be integral in all those aspects or indicators that provide truthful information about its condition both positively and negatively and that allow evaluating whether the strategies and decisions are being adequate to guarantee the VUE. An important aspect is that of risks (dangers and vulnerabilities); Following up on the six indicator themes in point 10.3 is relevant to preserve exceptional Universal Values and integrity and authenticity

11. Identification of Priority Management Needs

11.1 - Identification of Priority Management Needs

5.1	Boundaries and Buffer Zones	
5.1.4	The buffer zones of the World Heritage property are known and recognised by the management authority but are not known and recognized by local communities/landowners	
5.2	Protective Measures	
5.2.4	There is no legal framework in the buffer zone for maintaining the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the World Heritage property	
5.2.5	There is no legal framework for controlling use and activities in the broader setting of the World Heritage property and the buffer zone	
5.2.6	There are major deficiencies in capacity/resources to enforce legislation and/or regulation in the World Heritage property	✗
5.3	Management System/Management Plan	
5.3.5	Some use has been made of the Historic Urban Landscape Recommendation to develop policies and best practices for the protection of the property	
5.3.7	No use has been made of the Policy Document on the Impacts of Climate Change on World Heritage Properties at the property	✗
5.3.9	No use has been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties at the property	✗
5.3.11	There is coordination between the range of administrative bodies involved in the management of the property, but it could be improved	
5.3.12	No management system/plan is currently in place to maintain the property's Outstanding Universal Value	
5.3.13	There is currently no management system in place at the property	✗
5.3.14	There is no existing annual work/action plan for the property despite an identified need	✗
5.3.17	<ul style="list-style-type: none"> In a limited manner, the management system of the World Heritage property does contribute to gender equality In a limited manner, the management system of the World Heritage property does contribute to social inclusion and equity, improving opportunities for all, irrespective of age, sex, disability, ethnicity, origin, religion or economic or other status In a limited manner, the management system of the World Heritage property does integrate a human rights-based approach In a limited manner, the management system of the World Heritage property does contribute to fostering inclusive local economic development, and to enhancing livelihood In a limited manner, the management system of the World Heritage property does contribute to conflict prevention, including respect for cultural diversity within and around the World Heritage property 	✗
6.1	Funding	
6.1.3	There is no budget for effective management of the World Heritage property despite an identified need	
6.1.4	Existing sources of funding are not secure	
6.1.7	Human resources partly meet the management needs of the World Heritage property	✗
6.1.10	Some use has been made of the World Heritage Strategy for Capacity Development at the World Heritage property	
6.1.12	A site-based capacity building plan or programme is in place and partially implemented; some technical skills are being transferred to those managing the property locally, but most technical work is carried out by external staff	

7	Scientific Studies and Research Projects	
7.2	There is considerable research in the World Heritage property but it is not directed towards management needs and/or improving understanding of Outstanding Universal Value	X
7.3	Research results are shared with local communities and partners but there is no active outreach to national or international agencies	
8	Education, Information and Awareness Building	
8.2	There is a limited and ad hoc education and awareness programme for children and/or youth	
9	Visitor Management	
9.7	There is a strategy to manage visitors, tourism activity and its derived impacts on the World Heritage property but there are some deficiencies in implementation	
9.9	There is some management of the visitor use of the World Heritage property	
9.11	Although the tourism industry is active in the property, there is no contact between tourism operators and those responsible for the World Heritage property	X
9.12	The presentation and interpretation of the Outstanding Universal Value of the property is acceptable but improvements could be made	
10	Monitoring	
10.1	There is considerable monitoring at the World Heritage property but it is not directed towards management needs and/or improving understanding of Outstanding Universal Value	X
10.2	Information on the values of the World Heritage property is sufficient to define key indicators, but this has not been done	

Please select 0 more issues.

☒ Please save this question to reflect changes

12. Summary and Conclusions

12.1. Summary - Factors affecting the Property

12.1.1 - Summary - Factors affecting the Property

4.2	Transportation Infrastructure							
4.2.1	Ground transport infrastructure	The rural landscape environment described in the Condition of Integrity in Core Zone is visually affected by the road infrastructure for land transport due to the construction of the new international airport.	Planning and inclusion in the municipal urban development plans of the four municipalities where it is their trajectory to control land uses and urban development.	Regional monitoring and inter-institutional coordination.	Annually	Delegation in the states of the Secretariat of Transport, Secretary of Territorial Agrarian Development, specialized offices of the municipalities and National Institute of Anthropology and History.	Increase coordination between the key actors of the two states - Hidalgo and the State of Mexico - to follow up and strictly supervise the projects close to the Bien Cultura in the core and buffer zones. Allocate Funding to perform this oversight.	
4.2.3		Air transport infrastructure						
4.2.5		Effects arising from use of transportation infrastructure						
4.3	Services Infrastructures							
4.3.1		Water infrastructure						
4.5	Biological resource use/modification							
4.5.3	Land conversion	The rural landscape environment characterized by agriculture and plantings of maguey and nopal indicated in the condition of Integrity it is feasible that with the	The planning and inclusion in the municipal urban development plans of the four municipalities where it is their trajectory to set limits and management of controlled land uses.	Regional monitoring and inter-institutional coordination.	Annually	Delegation in the states of the Secretary Secretary of Territorial Agrarian Development, specialized offices of the municipalities and National Institute of Anthropology and History	Increase coordination between the key actors of the two states - Hidalgo and the State of Mexico - to follow up and strictly supervise the projects close to the	

		construction of the new international airport in the state of Mexico generate changes						Bien Cultura in the core and buffer zones. Allocate Funding to perform this oversight.
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4.7 Local conditions affecting physical fabric

4.7.1	Wind						
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4.8 Social/Cultural uses of heritage

4.8.6	Impacts of tourism/Visitation/Recreation	The impact of tourism impacts on two aspects, the negative, which affects the Exceptional Universal Value of criterion i), deteriorating the formwork or adobe shoring of the main arcade. The positive is that it generates economic development.	Regular technical supervision	Every three months	Every three months	Municipality and the federation through the National Institute of Anthropology and History	It is necessary to increase signage; permanent surveillance in arched areas; implement technical measures to avoid the deterioration of the formwork with the placement of natural elements to avoid pedestrian and vehicular passage.
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4.11 Sudden ecological or geological events

4.11.2	Earthquake	An earth movement or earthquake can affect the VUE, i) and ii), this is due to the architectural characteristics of the arches (structural mainly, height, slenderness), depending on the intensity deformations, buckling, extreme collapse case can occur	No action or measure	No technological supervision or instrumentation	Currently any	Municipality and the federation through the Directorate of Sites and Monuments and National Institute of Anthropology and History	Earthquakes with unpredictable geological events. Continuous monitoring and maintenance of the aqueduct's arcade structures is convenient.
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4.13 Management and institutional factors

4.13.2	Legal framework	Legal frameworks not applied or formalized, not made specifically for cultural heritage or with deficiencies may in this case affect the three criteria i, ii and iv and the conditions of authenticity and integrity.	Apply them strictly and elevate them to the status of laws	Review and improve them periodically	Every six years	State government and municipalities	The Management and Management Plans must be published in the official governing bodies so that they have a legal status.
4.13.4	Management activities	VUE criteria i, ii and iv and the conditions of authenticity.	Technical and legal supervision of protection is carried out.	Technical and legal supervision of protection is carried out	Technical and legal supervision every three months and in these last two years and due to the pandemic by Sars.Cov2 (Covid-19), every six months.	Municipality and the federation through the National Institute of Anthropology and History	The management unit or similar commissioned body – made up of key actors from the different levels of government – must meet periodically every two or three months to follow up.

Question not completed

12.2. Summary - Management Needs

12.2.1 - Summary - Management Needs

5.2	Protective Measures				
		Actions	Timeframe	Lead agency (and others involved)	More info / comment
5.2.6	There are major deficiencies in capacity/resources to enforce legislation and/or regulation in the World Heritage property	We are working on National Guidelines for the Conservation of Cultural and World Heritage; in the management of human and economic resources; four municipalities included the core protection zone in their urban development plans.	Currently these aspects are being worked on, one year is proposed for the conclusion of the guidelines and three years to evaluate the municipal plans and, where appropriate, improve them.	State and Municipal Governments -of the State of Mexico and Hidalgo- and the federation through the National Institute of Anthropology and History.	In addition to human and technical resources, it is necessary to manage financial resources for the activities.

5.3	Management System/Management Plan				
5.3.7	No use has been made of the Policy Document on the Impacts of Climate Change on World Heritage Properties at the property	No action is currently proposed to influence it to be included in the municipal urban development plans of the municipalities of Itrayectoria del Bien.	It has not yet been analyzed and planned.	The different key actors of the different levels of government: federal, state and municipal, organized in the inter-institutional commission (to be transformed into the management unit)	Monitor the implementation process in municipal development plans and channel the strategies to those established in the Climate Change Policy Paper.
5.3.9	No use has been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties at the property	To date, no use has been made of the strategy; in the immediate future, influence the development of a specific program with this strategy to reduce the risks of disasters in the Cultural Property.	In three years, results are feasible.	Municipal, state, federal authorities and civil society.	This strategy is important for its preventive vision, identifying threats and dangers, vulnerability and reducing risks, implementing actions, for the conservation of cultural property.
5.3.13	There is currently no management system in place at the property	Management is beginning with meetings to plan work and goals with some actors.	It is intended that in the next two years the management unit or commission will be consolidated.	Municipal, state, federal authorities and civil society.	There is coordination between some bodies or actors involved, but all levels must be integrated, including civil society.
5.3.14	There is no existing annual work/action plan for the property despite an identified need	Prepare an annual work plan, coordinated between the bodies and administrative actors involved.	One year	Municipal, state, federal authorities and civil society.	A specific technical and legal protection project for Cultural Property for 2022 is under review
5.3.17	<ul style="list-style-type: none"> • In a limited manner, the management system of the World Heritage property does contribute to gender equality • In a limited manner, the management system of the World Heritage property does contribute to social inclusion and equity, improving opportunities for all, irrespective of age, sex, disability, ethnicity, origin, religion or economic or other status • In a limited manner, the management system of the World Heritage property does integrate a human rights-based approach • In a limited manner, the management system of the World Heritage property does contribute to fostering inclusive local 	Continue working on effective integral management to consolidate these valuable values with the World Heritage Committee Policy with the perspective of sustainable development in the processes of the World Heritage Convention.	Permanently, in accordance with the Operational Directives.	Municipal, state, federal authorities and civil society.	That cultural property contributes to achieving these objectives locally and regionally is important with the Policy of the World Heritage Committee in the processes of the World Heritage Convention.

	<p>economic development, and to enhancing livelihood</p> <ul style="list-style-type: none"> • In a limited manner, the management system of the World Heritage property does contribute to conflict prevention, including respect for cultural diversity within and around the World Heritage property 				
6.1	Funding				
6.1.7	Human resources partly meet the management needs of the World Heritage property	Increase the number of human resources to improve the integrated conservation of cultural property.	From two to three years, an increase in specialized technical personnel is proposed to reinforce the integrated conservation of the Cultural Property.	The National Institute of Anthropology and History manages to increase its technical staff by proposing in a specific project the hiring of an eventual professional.	In future meetings with actors and administrative bodies involved, the need to manage additional human resources will be manifested.
7	Scientific Studies and Research Projects				
7.2	There is considerable research in the World Heritage property but it is not directed towards management needs and/or improving understanding of Outstanding Universal Value	Manage with the Institutes and Research Centers, specific scientific studies in addition to the historical and urban ones that contribute to the integrated conservation of the Cultural Property.	Times are difficult due to the Sars-Cov2 pandemic (Covid 19), a period of two years is feasible for effective management for the start of these investigations.	It is feasible that the National Institute of Anthropology and History generate collaboration agreements with the National Polytechnic Institute and with the National Autonomous University of Mexico.	They are necessary studies in the Cultural Property, for example, those of mechanics of materials, structural, risks, hydraulic, landscaping, among others.
9	Visitor Management				
9.11	Although the tourism industry is active in the property, there is no contact between tourism operators and those responsible for the World Heritage property	Integrate the tourism industry into the inter-institutional management unit or commission with its representatives.	Due to the Sars-Cov2 pandemic (Covid 19) and its variants, which hinder meetings and management, therefore, it is feasible that in 2022 the integration of a representative of the tourism industry in the commission or inter-institutional management.	Inter-institutional commission or management unit that brings together key actors or administrators.	The tourism industry is key to achieving the World Heritage Committee Policy with the perspective of sustainable development in the processes of the World Heritage Convention and specifically with sustainable tourism.
10	Monitoring				
10.1	There is considerable monitoring at the World Heritage property but it is not directed towards management needs and/or improving understanding of Outstanding Universal Value	Consolidate the inter-institutional unit or commission of management and in the dissemination of the Exceptional Universal Value and the conditions of authenticity and integrity, through the technological means of communication, as well as the organ	In 2022, a technical and legal supervision is proposed twice a year in the trajectory of the Hydraulic Complex in the two states - Hidalgo and State of Mexico.	Section of Historical Monuments of the INAH Centers of the National Institute of Anthropology and History.	It is feasible that in coordination with the municipalities where the Hydraulic Complex transits, adjuvant supervision is generated.

12.3. Conclusions on the State of Conservation of the Property

12.3.1 - Following the analysis undertaken for this report, what is the current state of Authenticity of the World Heritage property?

The Authenticity of the World Heritage property **has been preserved**

12.3.2 - Following the analysis undertaken for this report, what is the current state of Integrity of the World Heritage property?

The Integrity of the World Heritage property **has been compromised** by factors described in this report

12.3.3 - Following the analysis undertaken for this report, what is the current state of the World Heritage property's Outstanding Universal Value?

The World Heritage property's Outstanding Universal Value has been **maintained**.

12.3.4 - What is the current state of the property's other values?

Other important cultural and/or natural values are being **partially degraded** but the state of conservation of the World Heritage property has **not been significantly impacted**

12.3.5 - Comments, conclusions and/or recommendations related to the state of conservation of the property.

In order to preserve the state of conservation and the Exceptional Universal Value of the Hydraulic Complex of the Shaky Father Aqueduct intact and recover the minimum physical interruptions of the system and other cultural values inherent to it, preventive conservation is required, continue with the awareness and management of projects and financial resources for these activities. That is, an integrated conservation through a Specific Management and Management Plan for this objective.

13. Impact of World Heritage Status

13.1 - Please rate the impacts of World Heritage status of the property in relation to the following areas

Conservation	Positive
Research and monitoring	Positive
Management effectiveness	No impact
Quality of life for local communities and indigenous peoples	No impact
Recognition	Very positive
Education	Very positive
Infrastructure development	No impact
Funding for the property	Positive
International cooperation	Very positive
Political support for conservation	Positive
Legal/Policy framework	Positive
Advocacy	No impact
Institutional coordination	Positive
Security	No impact
Gender equality	Positive
Provision of ecosystem services/ benefits to local communities	No impact
Social inclusion and equity, and improvement of opportunities for all, irrespective of age, sex, disability, ethnicity, origin, religion, or economic or other status	No impact
Fostering inclusive local economic development and enhancing livelihood	Positive
Contributing to conflict prevention, including respect for cultural diversity within and around heritage properties	Positive
Other	Positive
If 'Other', please specify	

13.2 - Comments, conclusions and/or recommendations related to World Heritage status and its impacts

Effective coordination and institutional collaboration of the three levels of government -Federal, State and Municipal- and key actors, including communities with a horizontal approach in the two states where the World Heritage cultural property is located. Promote and work with specific projects and/or programmes with the approach set out in the Operational Directives.

14. Good Practice in the Implementation of the World Heritage Convention

14.1 - Example of good practice in World Heritage protection, identification, conservation or management at the property level

Dissemination of the cultural values of the good, that is, its Exceptional Universal Values and its conditions of integrity and authenticity; Consolidate the Management Plan, with its follow-up processes: planning, monitoring, evaluation and rectification or improvements thereof; increase in trained security personnel.

14.2 - Define which topics are covered by this example of best practice at the property level

Sustainable Development
Synergies
State of Conservation
Management
Governance
Capacity Building

15. Assessment of the Periodic Reporting Exercise

15.1. Relevance of Periodic Reporting

15.1.1 - Has the Periodic Reporting process improved the understanding of the following?

The <i>World Heritage Convention</i>
The concept of Outstanding Universal Value
The property's Outstanding Universal Value
The concept of Integrity and/or Authenticity
The property's Integrity and/or Authenticity
Management effectiveness to maintain the Outstanding Universal Value
Monitoring and reporting

15.1.2 - Please rate the follow-up to conclusions and recommendations from previous Periodic Reporting exercise by the following entities

State Party	Fair
Site Managers	Fair
UNESCO World Heritage Centre	Fair
Advisory Bodies (ICOMOS, IUCN, ICCROM)	Fair

15.2. Use of Data

15.2.1 - How do the authorities in charge of the property plan to use the data recorded from this cycle of Periodic Reporting?

Revision of priorities/strategies/policies for the protection, management and conservation of heritage
Update of management plans
Fundraising
Awareness raising
Advocacy
Other
Construction of an Evolutionary Management Plan and specific Guidelines for the Conservation of Cultural Property.

15.2.2 - Comments on use of data from the Cycle of Periodic Reporting

Consolidate the Management and Management Plan with an evolutionary character, reinforce the technical and legal measures with specific conservation guidelines of protection; elaborate and keep updated the state of conservation of the Cultural Property; assess that it has been done positively or negatively in these first 6 years of inscription on the World Heritage list; resolve, monitor and control those factors that affect the Exceptional Universal Value.

15.3. Timing and resources

15.3.1 - Entities involved in the filling out of this online questionnaire (tick as many boxes as applicable)

Governmental institutions responsible for cultural and natural heritage
Site Manager/Coordinator World Heritage property staff
Focal points of other international conventions/programmes

15.3.2 - Has a gender balanced contribution and participation been considered in the filling out of this questionnaire?

Gender balance is explicitly considered and effectively implemented in the process.

15.3.3 - Were you given adequate time (i.e. roughly ten months) to gather necessary information and to fill in this questionnaire?

No

15.3.4 - Please estimate the time (working hours) needed to complete this questionnaire

30 / 20 / 30 /

15.3.5 - Did you mobilise any additional resources to fill out this questionnaire?

	Additional resources	No	Yes
15.3.5.1	Human resources		×
15.3.5.2	Financial resources for organizing consultation meetings/ training	×	

15.4. Format and content of the Periodic Report**15.4.1 - How accessible was the information required to complete this questionnaire?**

Most required information was accessible.

15.4.2 - Was the questionnaire easy to use and clear to understand?

		Very Difficult	Difficult	Easy	Very easy
15.4.2.1	Ease of use of questionnaire				×
15.4.2.2	Clarity of questions				×

15.4.3 - Please provide suggestions for improvement of the Periodic Reporting questionnaire

One suggestion is that the format of the questionnaire corresponds to the language of the country where the Cultural Property is located and more space or number of characters allowed in the spaces for additional comments.

15.5. Training and Guidance**15.5.1 - Please rate the level of support in terms of training and guidance from the following entities in completing this questionnaire**

UNESCO World Heritage Centre	Good
UNESCO (other sectors/field offices)	No support
UNESCO National Commission	No support
ICOMOS International	No support
IUCN International	No support
ICCROM international/regional	No support
ICOMOS national/regional	No support
IUCN national/regional	No support

15.5.2 - Please rate the level of support for completing the Periodic Reporting questionnaire from the following entities

UNESCO World Heritage Centre	Good
State Party Representative (national Focal Point)	Good
UNESCO other sectors (e.g. field office)	No support
National Commission for UNESCO	No support
ICOMOS International	No support
ICCROM International/regional	No support
ICOMOS national/regional	No support
IUCN national/regional	No support
IUCN International	No support

15.5.3 - Were the online training resources prepared by the World Heritage Centre regarding Periodic Reporting adequate for you to complete this questionnaire?

Yes

15.5.4 - If you found that the online training resources were not adequate, what changes would you like to see implemented?

They are suitable, however, it is convenient to combine them with a face-to-face training workshop(s).

15.6. Actions that will require formal consideration by the World Heritage Committee

15.6.1 - Summary of actions that will require formal consideration by the World Heritage Committee

No item were proposed for update

15.7. Comments, conclusions and/or recommendations related to the Assessment of the Periodic Reporting Exercise

15.7.1 - Comments, conclusions and/or recommendations related to the Assessment of the Periodic Reporting Exercise

The sources of information are the federal, state and municipal institutions of the states of Hidalgo and the State of Mexico, destined to the protection and conservation of cultural property. Due to the Sars.Cov 2 (COVID 19) pandemic, the efforts and progress made, including supervision, were taken a break. The site manager was assigned in September 2021, it is suggested to be assigned two years prior to the preparation of the report.

15.7.2 - Thank you for having filled in all the questions. Please contact your National Focal Point for validation.