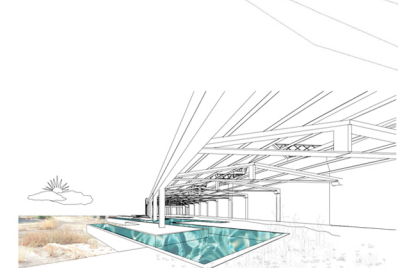
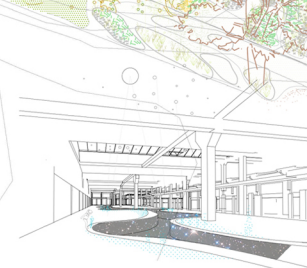


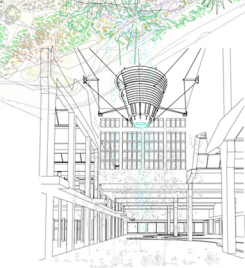
1. The machinery unit



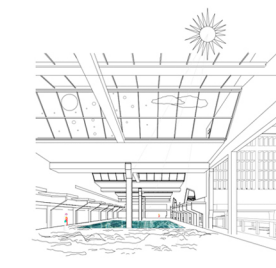
2. The natural ruin



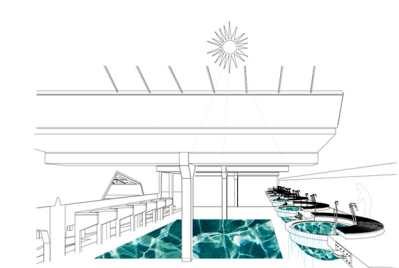
3. The observatory river



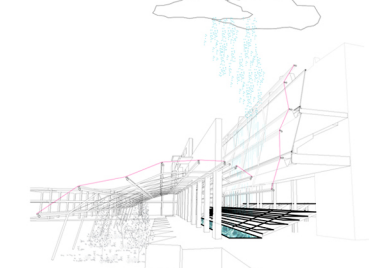
4. The rain garden



5. The interior beach



6. The hanging hot springs



7. The reflection waterfall

Country / City Spain/Madrid
 University / School San Pablo CEU University
 Academic year 2016-2017
 Title of the project Waterscapes in Clesa
 Authors M^a Teresa Casbas González





PERFORMATIVE NATURE

Barcelona International Landscape Architecture Biennial

September 2018 **Barcelona**

SCHOOL PRIZE

X International Landscape Architecture Biennial

Máster d'Arquitectura del Paisatge -DUOT - UPC
ETSAB- Escola Tècnica Superior
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Avenida Diagonal, 649 piso 5
08028 Barcelona-Spain

TECHNICAL DOSSIER

Title of the project Waterscapes in Clesa
Authors M^a Teresa Casbas González
Title of the course PFC
Academic year 2016/2017
Teaching Staff M^aAuxiliadora Gálvez, Mariano Molina, Cristina Villamil, Rodrigo Núñez
Department/Section/Program of belonging PFC
University/School CEU San Pablo University

Written statement, short description of the project in English, no more than 250 words

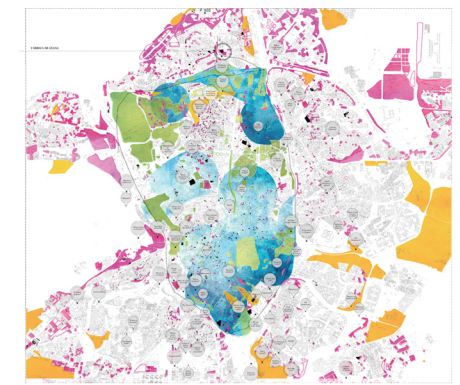
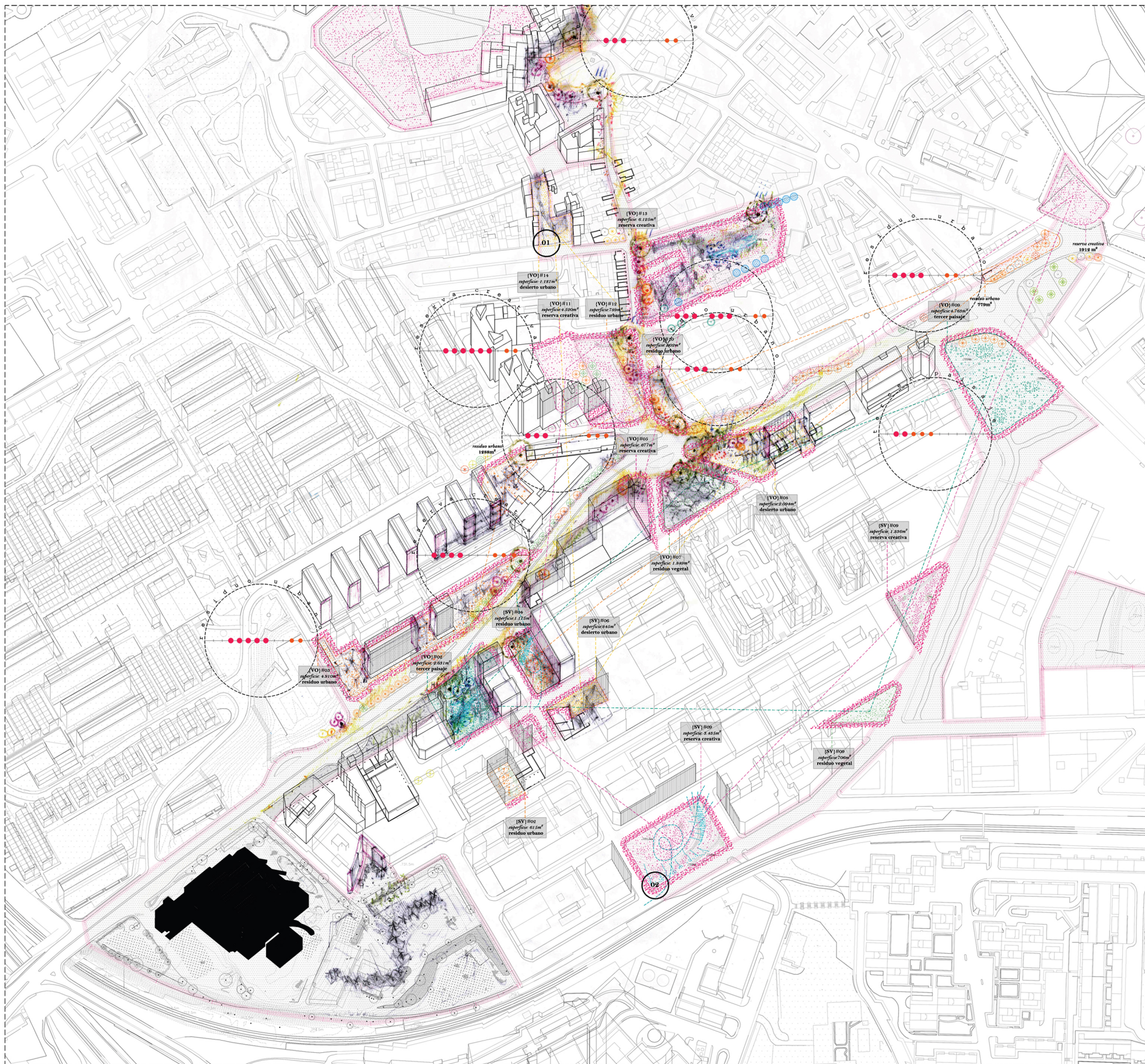
"The water landscapes in Clesa" is an intervention in an old milk Factory, an industrial building designed in the 60's by Alejandro de la Sota in Madrid. Nowadays the building is not only abandoned, but also takes part in a network of urban voids. These voids are used as an opportunity in the project from which the intervention starts creating landscapes that provide with a new identity to the neighborhood and factory.

This new identity starts with the study of meteorologic aspects as the principal designer. There is an investigation of the connection between the architecture and both the meteorologic and energy conditions. We study all these seasonal changes and how the landscape inside the building and their associate programs may change and determinate different atmospheres. We study the water and it's morphogenesis, the shape it has when it arrives to the building. The water cycle and water states are studied in order to create landscapes in each industrial unit and their associate programs. Every industrial unit in the Factory was designed for a specific role in the milk industry process, therefore each of them have different conditions. We create a variety of landscapes in each unit of the Factory using different states of water, such as rain, liquid and steam. The new atmospheric water landscapes define the thermodynamic of each space, as happens with the natural swimming pool, the observatory river, the rain garden or the interior beach, among others.

This project tries to give a new identity to the abandoned building starting with a meteorology study while paying attention to the water rhythm and the social necessity.

For further information
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"The water landscapes in Cles" is an intervention in an old milk factory, an industrial building designed in the 60's by Alejandro de la Sota in Madrid.
 Nowadays the building is not only abandoned, but also takes part in a network of urban voids. These voids are used as an opportunity in the project from which the intervention starts creating landscapes that provide with a new identity to the neighborhood and factory.
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Vegetación existente de la calle

	E	F	M	A	M	J	J	A	S	O	N	D
Acacia de tres espinas												
Arce real												
Árbol del amor												
Aligustre japonés												
Encina												
Olmo de bola												
Negundo												
Melocotonero												
Pino piñonero												
Olmo siberiano												
Falsa acacia												
Almez												
Acacia del japon												
Plátano de sombra												

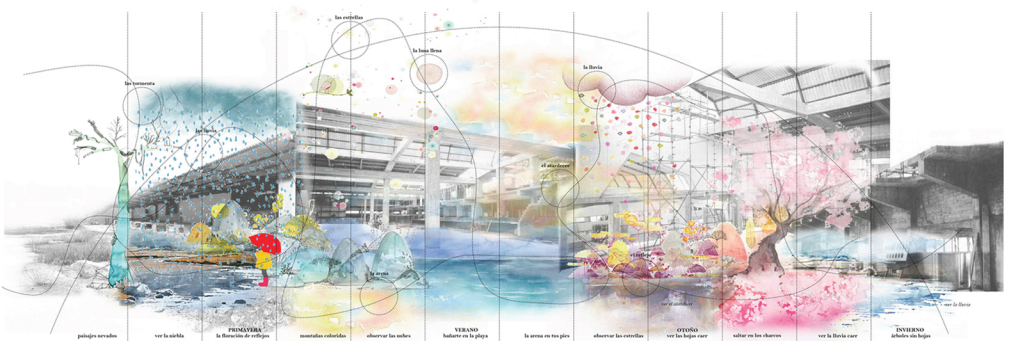
- FAUNA:
1. Avión común
 2. Vencejo común
 3. Golondrina común
 4. Estornino negro
 5. Pinzón vulgar
 6. Ratón de campo
 7. Lagartija ibérica
 8. Abubilla
 9. Mirlo común
 10. Lavandera blanca
- FLORA:
1. Cardo
 2. Espiguilla
 3. Cenizo
 4. Corchogüela
 5. Lecherina
 6. Amor de hortelano
 7. Anapola
 8. Llantén
 9. Cerraja
 10. Veza silvestre

Legenda:

Manifiesto del Tercer paisaje:

- Terceer paisaje: evolución del conjunto de los seres biológicos que forman el territorio sin decisión humana
- Reserva creativa: lugar no explotado pero con posibilidades creativas
- Residuo urbano: resultado del abandono de un terreno
- Desierto urbano: lugar con cierta acción humana y luego abandonado
- Residuo vegetal: lugar vegetal abandonado

Referencia:
 Equipo de arquitectos: Javier Grijalbo, Juan Manuel Martínez, Andrés Hervilla, Emilio Blanco



WATERSCAPES IN CLESA

We study the water and it's morphogenesis, the shape it has when it arrives to the building. The water cycle and water states are studied in order to create landscapes in each industrial unit and their associate programs.

Every industrial unit in the Factory was designed for a specific role in the milk industry process, therefore each of them have different conditions. We create a variety of landscapes in each unit of the Factory using different states of water, such as rain, liquid and steam. The new atmospheric water landscapes define the thermodynamic of each space, as happens with the natural swimming pool, the observatory river, the rain garden or the interior beach, among others.

The rain garden
 agua: 47 m³
 vegetación: *cerreo en flor y aromáticas: rosas, lavanda, romero*
 inst: agua de lluvia
 uso: anual
 fenómeno atmosférico: lluvia y sol
 temp ambiente: exterior
 temp agua: exterior
 hum relativo: exterior
 energía hombre: 65H

The natural swimming pool
 agua: 496 m³
 vegetación:
 inst: vegetación depuradora
 uso: primavera y verano
 fenómeno atmosférico: amanecer
 temp ambiente: exterior
 temp agua: 18-20°C
 hum relativo: exterior
 energía hombre: 70-100 H

The observatory river
 agua: 390m³
 vegetación:
 inst: agua-homba (agua caliente)
 vapor de agua
 uso: anual
 fenómeno atmosférico: todos
 temp ambiente: 21-25 °C
 temp agua: 15-30°C
 hum relativa: 45-65%
 energía hombre: 70 H espacio
 energía hombre: 140 H agua

The underground pools
 agua: 557m³
 vegetación: *jardín*
 inst: agua-homba (agua caliente)
 uso: siempre
 fenómeno atmosférico: todos
 temp ambiente: 24-28 °C
 temp agua: 36-46°C
 hum relativa: 65-75%
 energía hombre: 100 H espacio
 energía hombre: 100 H agua

The machine unit
 uso: limpieza de agua
 uso asociado: reuniones técnicas, congreso
 vegetación: plantas macrófitas, junco fino, carrizo, jacinto de agua, lentijas de agua, nenúfars
 inst: vegetación depuradora
 uso: siempre
 fenómeno atmosférico: sol
 temp ambiente: exterior
 temp agua: exterior
 hum relativo: exterior
 energía hombre: 70 H

ACTIVITIES CATALOGUE

- | | | |
|-----------------------------------|--------------------------------|-------------------------------|
| pe_ plaza de encuentro espontáneo | 1. <i>Sonchus oleraceus</i> | 11. <i>Palmera</i> |
| me_montaña de escombros | 2. <i>Ailanthus altissima</i> | 12. <i>Fragaria vesicaria</i> |
| se_sala exterior | 3. <i>Bromus tectorum</i> | 13. <i>Rhus typhina</i> |
| ue_umbra de escombros | 4. <i>Trifolium repens</i> | 14. <i>Olmo siberiano</i> |
| be_banco solarium | 5. <i>Salix purpurea</i> | 15. <i>Falco acacia</i> |
| zd_zona descanso | 6. <i>Convolvulus arvensis</i> | 16. <i>Acacia del japon</i> |
| jl_jardín de lavanda | 7. <i>Cyprus</i> | 17. <i>Falco acacia</i> |
| jl_jardín de rosas | 8. <i>Tamariz gallica</i> | 18. <i>Almez</i> |
| je_jardín espontáneo | 9. <i>Ulmus americana</i> | 19. <i>Páramo de sombra</i> |
| | 10. <i>Humez crispus</i> | |

