



Encontro Nacional
de Águas Urbanas

16, 17 e 18 de setembro de 2014

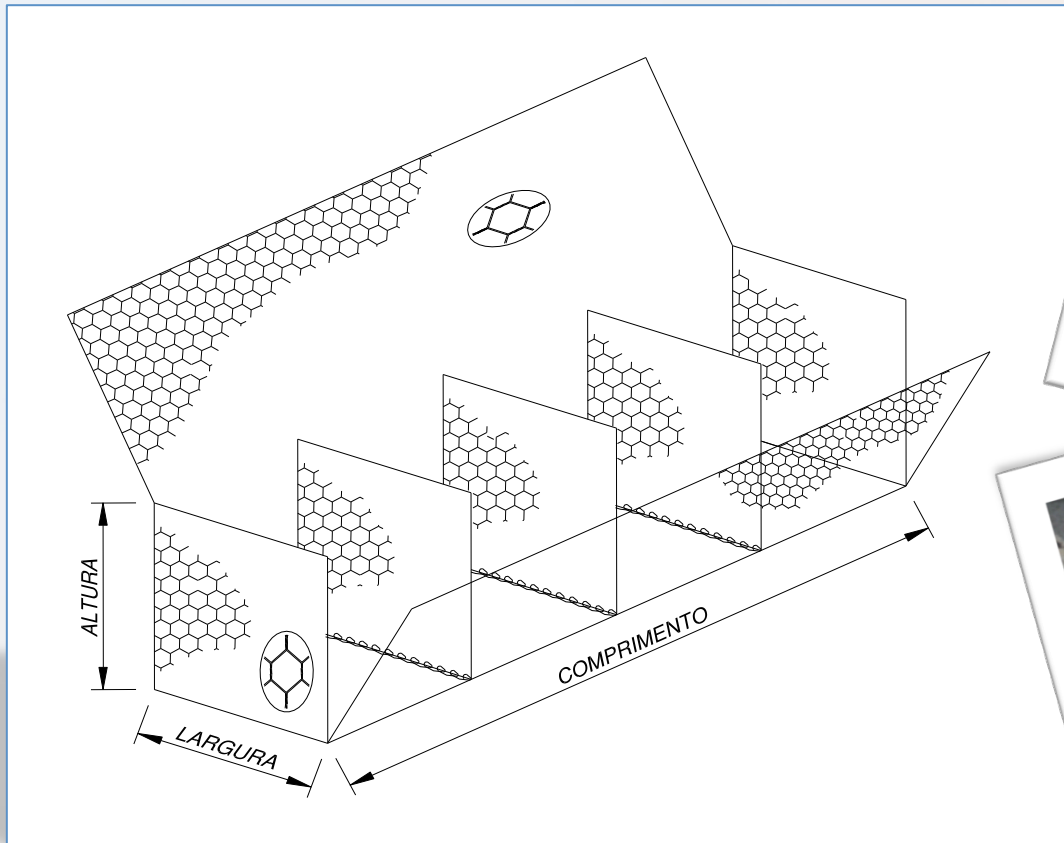
Hotel Maksoud Plaza

São Paulo – SP

Obras de canalização de cursos de água

Obras de canalização de cursos de água

✓ Avaliação dos Gabiões como revestimento de canais





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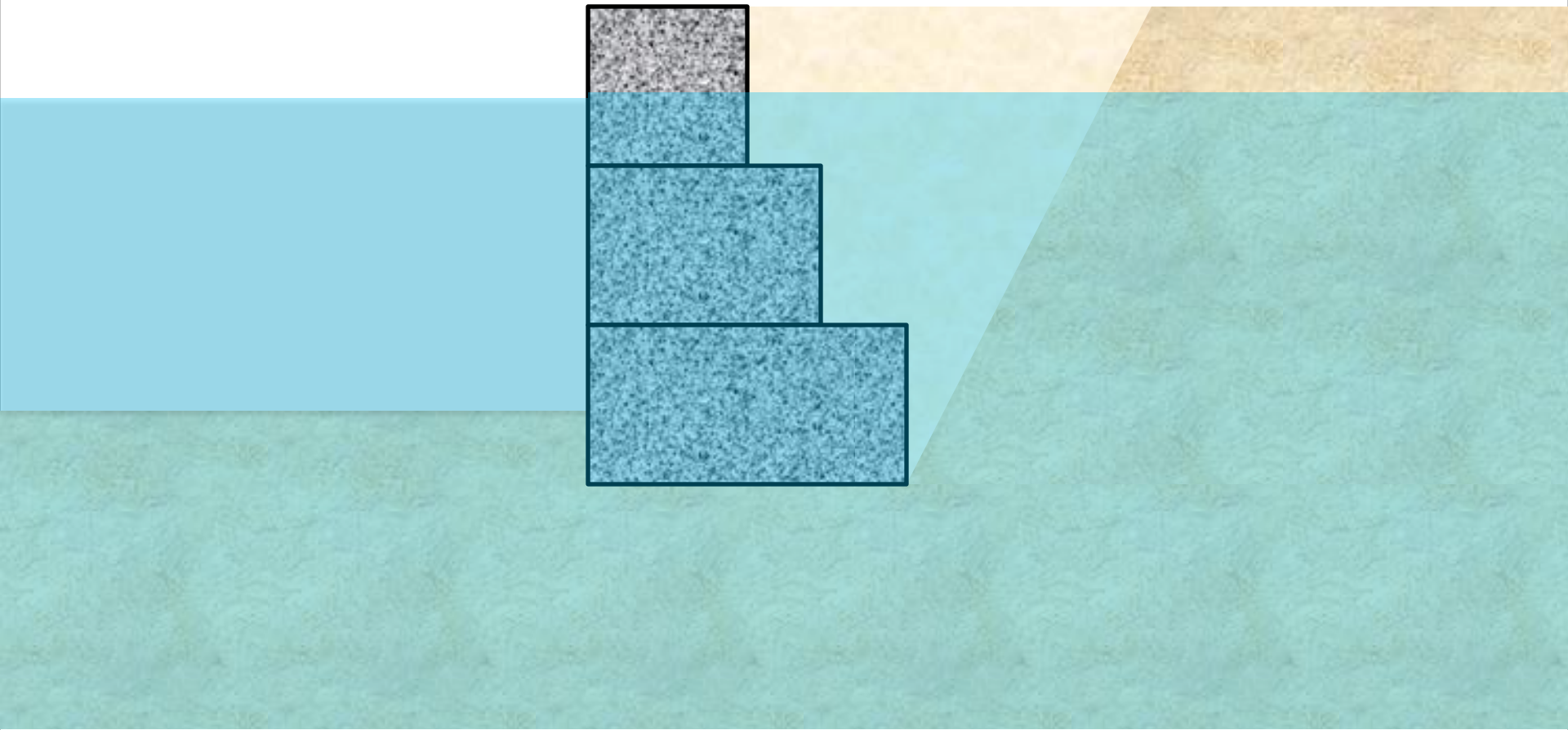




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✓ Permeabilidade





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✓ Rugosidade



Gabião



Concreto



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- ✓ Rugosidade
Colchão Reno

Vazão (m ³ /s)	Declividade %	Velocidade média (m/s)
15	0.50	2.51





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✓ Rugosidade
Concreto

Vazão (m ³ /s)	Declividade %	Velocidade média (m/s)
15	0.50	4.14

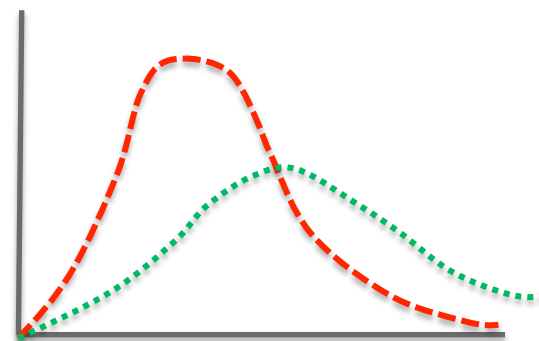




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✓ Rugosidade
Comparativo



5 Km	Vazão (m ³ /s)	Declividade %	Rugosidade	Velocidade média (m/s)
COLCHÃO RENO	15	0.50	0.0277	2.51
CONCRETO	15	0.50	0.013	4.14

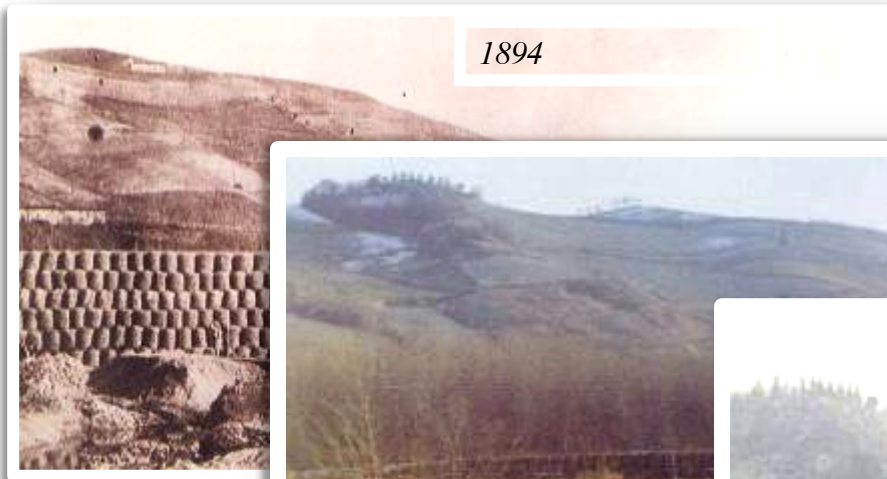
40% da velocidade = Retardo 13 min



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✓ Integração Ambiental

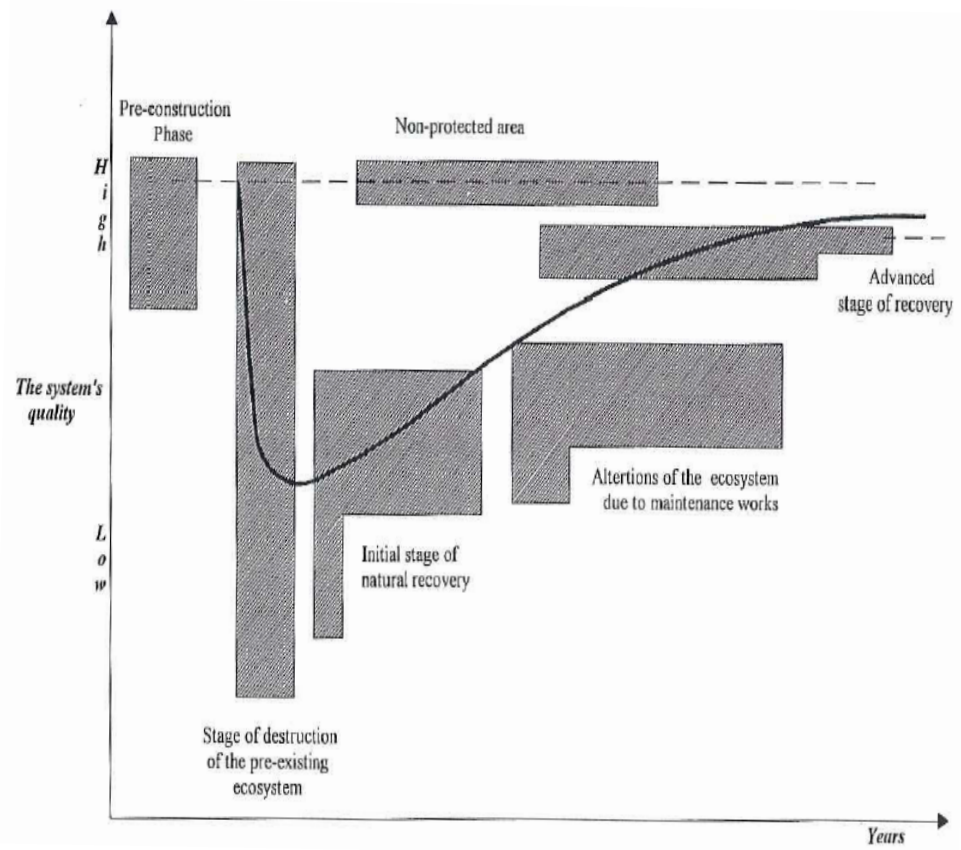




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✓ Integração Ambiental





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✓ Conclusão

PERMEABILIDADE

RUGOSIDADE

INTEGRAÇÃO AMBIENTAL

