

# Mianus River Cold Water Habitat Improvement Project

Town of Stamford, CT

Location: 41.088811; -73.585284





Prepared by:
Trout Unlimited, Inc.

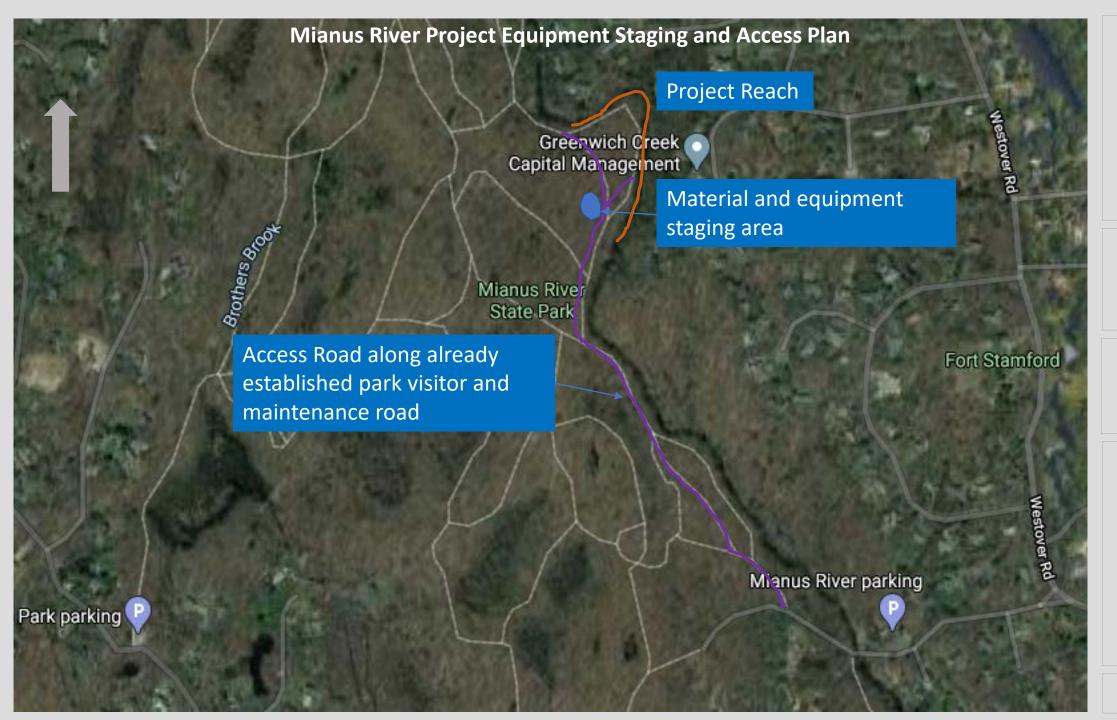
**Cover Sheet** 

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May 20, 2020

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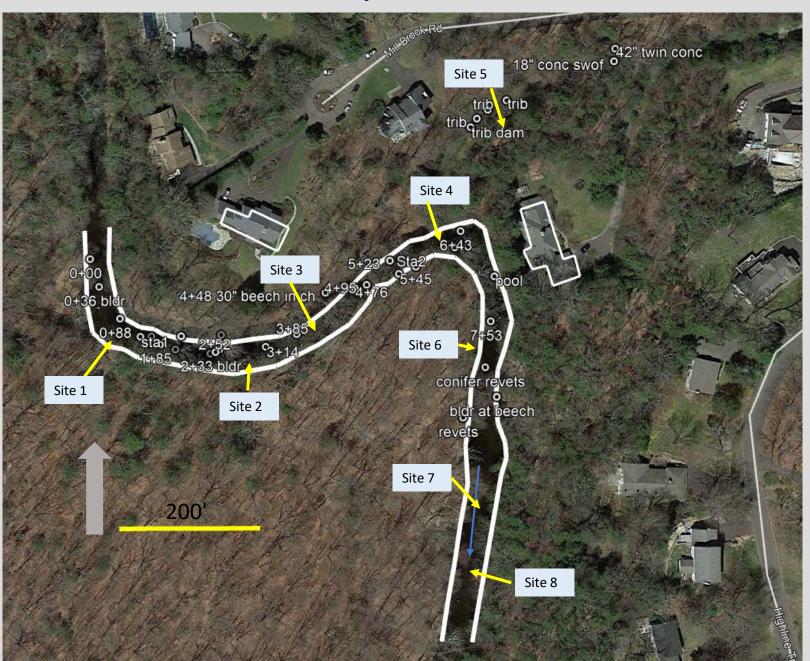
**Site Access** 

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### **Mianus River Project Restoration Plan**





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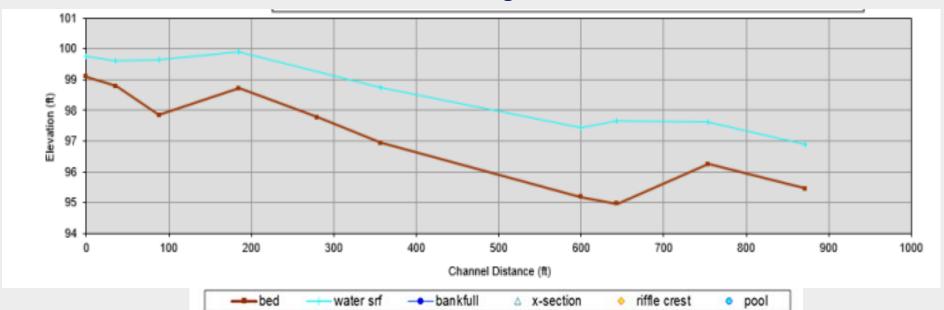
Aerial Survey Plan View

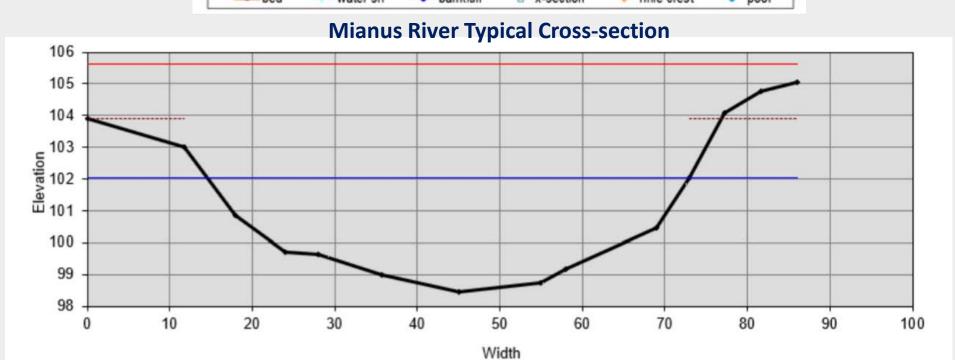
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# **Mianus River Longitudinal Profile**





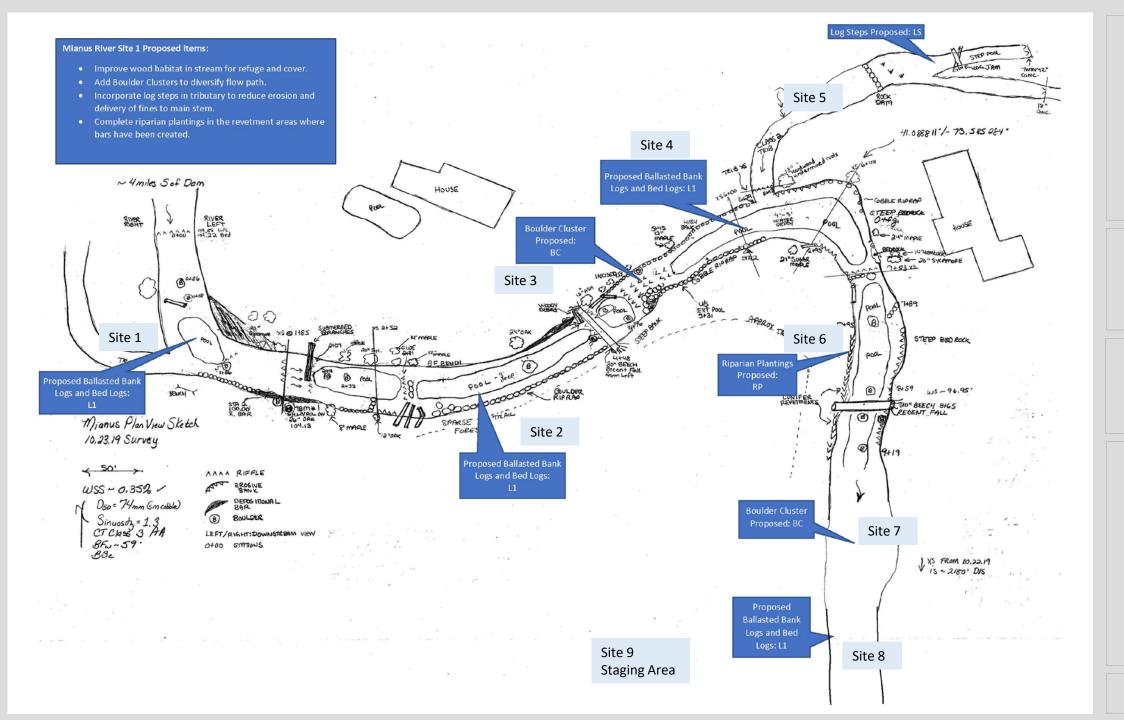


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Proposed Restoration Plan

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Site 1 Bed and Bank Ballasted Logs



Site 4 Bed and Bank Ballasted Logs



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Site 2 Bed and Bank Ballasted Logs



Site 5 Tributary Log Vanes



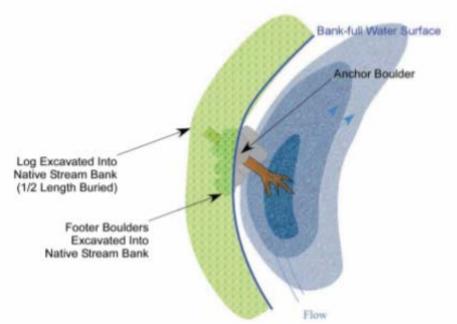
Site 7 Boulder Cluster

Site Photos

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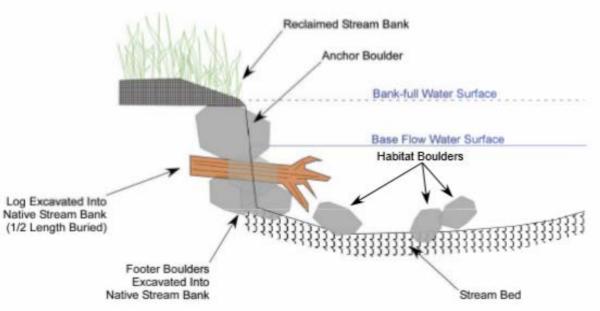
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# Ballasted Bank and Bed Log Treatment Typical



Natural wood debris filled pool.



Typical design developed by TroutScapes River Restoration, LLC.



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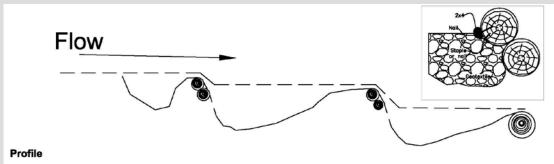
Typical Treatment Log Ballast

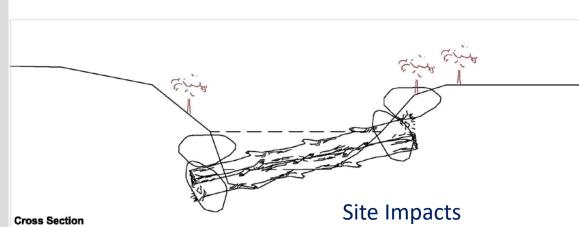
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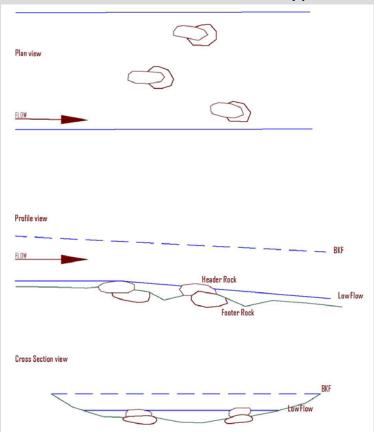
### Log Vane Treatment Typical





	Treatment	Fill Placed Below OHW (cu-yd)	Length (ft)	Temporary Impact (sq ft)	Direct Impact (sq ft)	Boulders (each 2-3 ft)	Logs with rootwads
Site 1	Bed and Bank Logs	8	20	0	36	6	2
Site 2	Bed and Bank Logs	9	30	0	39	6	3
Site 3	Boulder Cluster	6	30	0	30	6	0
Site 4	Bed and Bank Logs	12	30	0	47	9	3
Site 5	Log stetps (5)	30	100	0	87	20	10
Site 6	Riparian Planting	0	0	0	0	0	0
Site 7	Boulder Cluster	6	30	0	30	6	0
Site 8	Bed and Bank Logs	20	50	0	66	15	5
Site 9	Staging Area and temperaory river work	0	40	3000	0	0	0
Total		91	330	3000	335	68	23

### **Boulder Cluster Treatment Typical**



Typical design developed by USFWS Partners Program, NY.



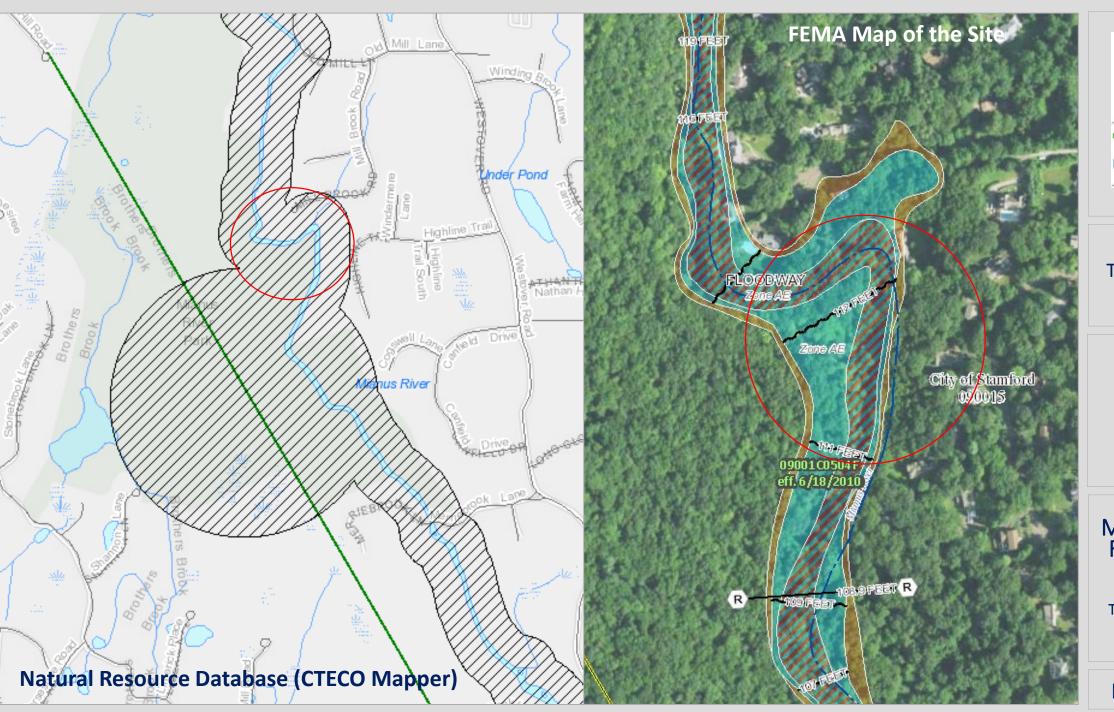
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Typical Treatments

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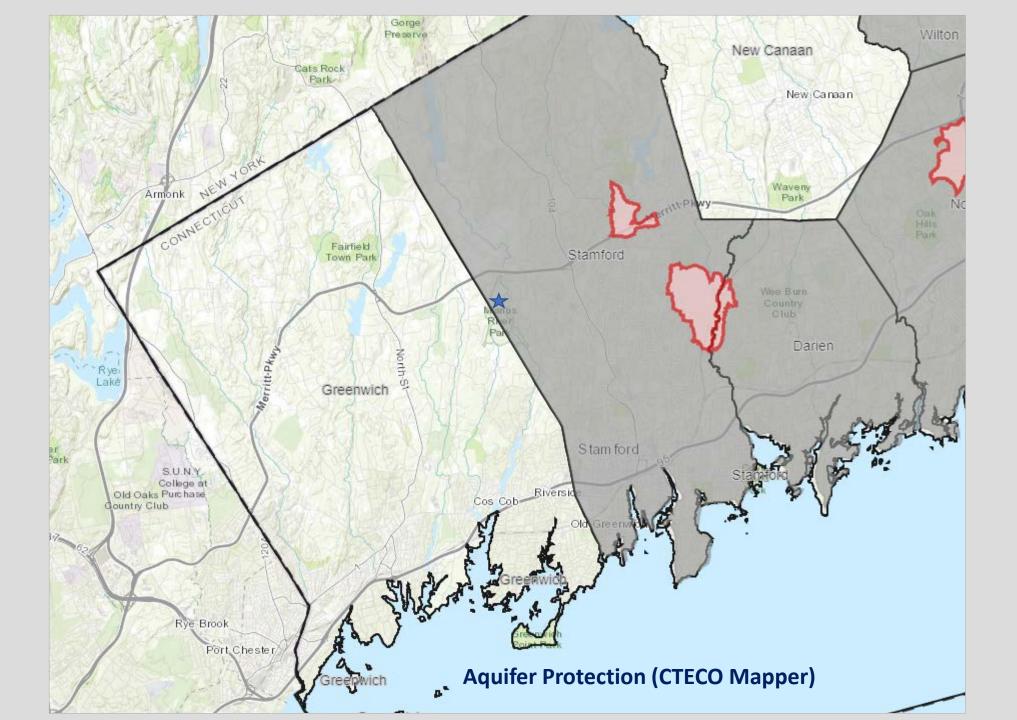


Natural
Diversity
Database
FEMA
Mapping

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Aquifer Protection

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