PORTLAND PARKS & RECREATION
Healthy Parks, Healthy Portland

Riparian Habitat Condition Assessment

Woods Memorial Natural Area

Report Date: 4/12/2007

Reach ID: rWMNA*373 Survey date: 9/13/06 Length: 934 feet along Woods Creek

EPA Rapid Assessment Scores

Epifaunal Substrate/ Available Cover:	8 /20
Embeddedness: *(high gradient)*	7 /20
Velocity/Depth Regimes: *(high gradient)*	5 /20
Sediment Deposition:	8 /20
Channel Flow Status:	6 /20
Channel Alteration:	9 /20
Frequency of Riffles or Bends: *(high gradient)*	9 /20
Bank Stability	
Left Bank:	4 /10
Right Bank:	5 /10
Vegetative Protection	
Left Bank:	3 /10
Right Bank:	4 /10
Riparian Vegetation Zone Width	
Left Bank:	5 /10
Right Bank:	2 /10
Total Score:	**75 /200**
Overall Condition: Poor	

Supplemental Information

Vegetative Stream Shading
- Left Bank: 65%
- Right Bank: 60%

Riparian Vegetative Buffer Width
- Left Bank: 6 m.
- Right Bank: 2 m.

Bank Slope
- Left Bank: Steep
- Right Bank: Steep

Large Woody Debris count
- Small *(diameter 10 cm. to 30 cm.)* 35
- Medium *(diameter 30 cm. to 60 cm.)* 15
- Large *(diameter >60 cm.)* 8

Has LWD been placed? no

Management Issues

Field Notes

endpoint-narrow v shaped valley- reach has extensive incision on banks-
lots of trails

A description of the survey methodology can be found at http://www.portlandonline.com/parks/index.cfm?c=38279

PORTLAND PARKS & RECREATION
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Riparian Habitat Condition Assessment

Woods Memorial Natural Area

Report Date: 4/12/2007

Reach ID: rWMNA*390 Survey date: 9/13/06 Length: 831 feet along Woods Creek

EPA Rapid Assessment Scores

Epifaunal Substrate/ Available Cover:	8 /20
Embeddedness: *(high gradient)*	7 /20
Velocity/Depth Regimes: *(high gradient)*	5 /20
Sediment Deposition:	8 /20
Channel Flow Status:	6 /20
Channel Alteration:	9 /20
Frequency of Riffles or Bends: *(high gradient)*	9 /20
Bank Stability	
Left Bank:	4 /10
Right Bank:	5 /10
Vegetative Protection	
Left Bank:	3 /10
Right Bank:	4 /10
Riparian Vegetation Zone Width	
Left Bank:	5 /10
Right Bank:	2 /10

Total Score: 75 /200
Overall Condition:
Poor

Supplemental Information

Vegetative Stream Shading
Left Bank: 65%
Right Bank: 60%

Riparian Vegetative Buffer Width
Left Bank: 6 m.
Right Bank: 2 m.

Bank Slope
Left Bank: Steep
Right Bank: Steep

Large Woody Debris count
Small *(diameter 10 cm. to 30 cm.)* 64
Medium *(diameter 30 cm. to 60 cm.)* 42
Large *(diameter >60 cm.)* 29

Has LWD been placed? no

Management Issues

Field Notes

endpoint- narrow u shaped valley- very constrained-heavy incision on banks

A description of the survey methodology can be found at http://www.portlandonline.com/parks/index.cfm?c=38279

PORTLAND PARKS & RECREATION
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Riparian Habitat Condition Assessment

Woods Memorial Natural Area

Report Date: 4/12/2007

Reach ID: rWMNA*391 Survey date: 9/14/06 Length: 701 feet along Woods Creek

EPA Rapid Assessment Scores

Epifaunal Substrate/ Available Cover:	8 /20
Embeddedness: *(high gradient)*	7 /20
Velocity/Depth Regimes: *(high gradient)*	5 /20
Sediment Deposition:	8 /20
Channel Flow Status:	6 /20
Channel Alteration:	9 /20
Frequency of Riffles or Bends: *(high gradient)*	9 /20
Bank Stability	
Left Bank:	4 /10
Right Bank:	5 /10
Vegetative Protection	
Left Bank:	4 /10
Right Bank:	5 /10
Riparian Vegetation Zone Width	
Left Bank:	10 /10
Right Bank:	10 /10

Total Score: 90 /200
Overall Condition:
Fair

Supplemental Information

Vegetative Stream Shading
Left Bank: 50%
Right Bank: 75%

Riparian Vegetative Buffer Width
Left Bank: 12 m.
Right Bank: 15 m.

Bank Slope
Left Bank: Steep
Right Bank: Steep

Large Woody Debris count
Small *(diameter 10 cm. to 30 cm.)* 54
Medium *(diameter 30 cm. to 60 cm.)* 37
Large *(diameter >60 cm.)* 28

Has LWD been placed? no

Management Issues

Field Notes

endpoint- narrow v-shaped valley, very constrained - lots of invasives

A description of the survey methodology can be found at http://www.portlandonline.com/parks/index.cfm?c=38279

PORTLAND PARKS & RECREATION
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Riparian Habitat Condition Assessment

Woods Memorial Natural Area

Report Date: 4/12/2007

Reach ID: **rWMNA*395** Survey date: 9/14/06 Length: 875 feet along Woods Park tributary 3

EPA Rapid Assessment Scores

Epifaunal Substrate/ Available Cover:	9 /20
Embeddedness: *(high gradient)*	11 /20
Velocity/Depth Regimes: *(high gradient)*	2 /20
Sediment Deposition:	5 /20
Channel Flow Status:	3 /20
Channel Alteration:	14 /20
Frequency of Riffles or Bends: *(high gradient)*	13 /20
Bank Stability	
Left Bank:	3 /10
Right Bank:	3 /10
Vegetative Protection	
Left Bank:	7 /10
Right Bank:	7 /10
Riparian Vegetation Zone Width	
Left Bank:	10 /10
Right Bank:	10 /10
Total Score:	**97 /200**
Overall Condition: Fair	

Supplemental Information

Vegetative Stream Shading
- Left Bank: 85%
- Right Bank: 85%

Riparian Vegetative Buffer Width
- Left Bank: 12 m.
- Right Bank: 12 m.

Bank Slope
- Left Bank: Steep
- Right Bank: Steep

Large Woody Debris count
- Small *(diameter 10 cm. to 30 cm.)* 38
- Medium *(diameter 30 cm. to 60 cm.)* 18
- Large *(diameter >60 cm.)* 13

Has LWD been placed? no

Management Issues

Field Notes

endpoint- narrow v- shaped valley, very constrained- osprey lives here, elk spotted recently - The GPS time may be wrong

A description of the survey methodology can be found at http://www.portlandonline.com/parks/index.cfm?c=38279

PORTLAND PARKS & RECREATION
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Riparian Habitat Condition Assessment

Woods Memorial Natural Area

Report Date: 4/12/2007

Reach ID: **rWMNA*398** Survey date: 9/18/06 Length: 377 feet along Woods Park tributary 2

EPA Rapid Assessment Scores

Epifaunal Substrate/ Available Cover:	13 /20
Embeddedness: *(high gradient)*	11 /20
Velocity/Depth Regimes: *(high gradient)*	6 /20
Sediment Deposition:	10 /20
Channel Flow Status:	6 /20
Channel Alteration:	14 /20
Frequency of Riffles or Bends: *(high gradient)*	15 /20
Bank Stability	
Left Bank:	3 /10
Right Bank:	3 /10
Vegetative Protection	
Left Bank:	5 /10
Right Bank:	5 /10
Riparian Vegetation Zone Width	
Left Bank:	8 /10
Right Bank:	9 /10

Total Score: **108 /200**
Overall Condition:
Fair

Supplemental Information

Vegetative Stream Shading
- Left Bank: 80%
- Right Bank: 85%

Riparian Vegetative Buffer Width
- Left Bank: 12 m.
- Right Bank: 12 m.

Bank Slope
- Left Bank: Steep
- Right Bank: Steep

Large Woody Debris count
- Small *(diameter 10 cm. to 30 cm.)* 21
- Medium *(diameter 30 cm. to 60 cm.)* 8
- Large *(diameter >60 cm.)* 2

Has LWD been placed? no

Management Issues

Field Notes

endpoint- culvert- heavy invasives- broad valley, medium constraint

A description of the survey methodology can be found at http://www.portlandonline.com/parks/index.cfm?c=38279

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Woods Memorial Natural Area

Report Date: 4/12/2007

Reach ID: rWMNA*400 Survey date: 9/18/06 Length: 238 feet along Woods Park tributary 1

EPA Rapid Assessment Scores

Epifaunal Substrate/ Available Cover:	13 /20
Embeddedness: *(high gradient)*	11 /20
Velocity/Depth Regimes: *(high gradient)*	6 /20
Sediment Deposition:	7 /20
Channel Flow Status:	5 /20
Channel Alteration:	15 /20
Frequency of Riffles or Bends: *(high gradient)*	14 /20
Bank Stability	
Left Bank:	2 /10
Right Bank:	4 /10
Vegetative Protection	
Left Bank:	5 /10
Right Bank:	5 /10
Riparian Vegetation Zone Width	
Left Bank:	10 /10
Right Bank:	6 /10

Total Score: 103 /200
Overall Condition:
Fair

Supplemental Information

Vegetative Stream Shading
Left Bank: 70%
Right Bank: 80%

Riparian Vegetative Buffer Width
Left Bank: 12 m.
Right Bank: 10 m.

Bank Slope
Left Bank: Steep
Right Bank: Steep

Large Woody Debris count
Small *(diameter 10 cm. to 30 cm.)* 23
Medium *(diameter 30 cm. to 60 cm.)* 13
Large *(diameter >60 cm.)* 6

Has LWD been placed? no

Management Issues

Field Notes

endpoint- major incision on upper reaches- spring fed stream from this point- narrow v-shaped valley heavy constraint- heavy erosion along steep bank

A description of the survey methodology can be found at http://www.portlandonline.com/parks/index.cfm?c=38279

PORTLAND PARKS & RECREATION
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Riparian Habitat Condition Assessment

Woods Memorial Natural Area

Report Date: 4/12/2007

Reach ID: rWMNA*426 Survey date: 9/21/06 Length: 119 feet along Woods Creek

EPA Rapid Assessment Scores

Epifaunal Substrate/ Available Cover:	3 /20
Embeddedness: *(high gradient)*	5 /20
Velocity/Depth Regimes: *(high gradient)*	4 /20
Sediment Deposition:	11 /20
Channel Flow Status:	7 /20
Channel Alteration:	1 /20
Frequency of Riffles or Bends: *(high gradient)*	3 /20
Bank Stability	
Left Bank:	2 /10
Right Bank:	2 /10
Vegetative Protection	
Left Bank:	6 /10
Right Bank:	6 /10
Riparian Vegetation Zone Width	
Left Bank:	10 /10
Right Bank:	10 /10

Total Score: 70 /200
Overall Condition:
Poor

Supplemental Information

Vegetative Stream Shading
Left Bank: 95%
Right Bank: 95%

Riparian Vegetative Buffer Width
Left Bank: 15 m.
Right Bank: 15 m.

Bank Slope
Left Bank: Steep
Right Bank: Steep

Large Woody Debris count
Small *(diameter 10 cm. to 30 cm.)* 0
Medium *(diameter 30 cm. to 60 cm.)* 0
Large *(diameter >60 cm.)* 0

Has LWD been placed? no

Management Issues

Field Notes

endpoint- narrow u-shaped valley, heavily constrained, majority of reach is in culvert.

A description of the survey methodology can be found at http://www.portlandonline.com/parks/index.cfm?c=38279