

**ODFW AQUATIC INVENTORY PROJECT**  
**OREGON PLAN FOR SALMON & WATERSHEDS**  
**STREAM RESTORATION HABITAT REPORT**

STREAM: South Fork Trask River Tributary A (N-319)  
BASIN: Trask River  
SURVEY TYPE: Pre-Tx  
DATE: June 29, 2005  
SURVEY CREW: Scott Young, Ben Walczak  
REPORT PREPARED BY: Paul Jacobsen  
BASIN AREA: 2.5 km<sup>2</sup>  
USGS MAPS: Blaine  
ECOREGION: Coast Range Volcanics

**GENERAL DESCRIPTION:**

The South Fork Trask River Tributary A habitat survey extended 505 meters. The channel was constrained by hillslopes in a moderate V-shaped valley. The average valley width index was 2.6 (range: 1.5-4.0). Land use for the reach was second growth (15-30 cm dbh) trees. The average unit gradient was 3.7 percent. Rapids (85%) dominated stream habitat. Gravel (44%) and cobble (30%) dominated stream substrate. Wood volume was low at 18.0 m<sup>3</sup>/100m.

**COMMENTS:**

There were no potential barriers to upstream fish migration in the surveyed length.

REACH 1

T02S-R08W-S35SE

REACH 1

**Valley and Channel Summary**

Valley Characteristics (Percent Reach Length)

<u>Narrow Valley Floor</u>		<u>Broad Valley Floor</u>	
Steep V-shape	0%	Constraining Terraces	0%
Moderate V-shape	100%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	2.6	VWI Range:	1.5 - 4

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	100%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	0%	Braided Channel	0%
Alt. Terrace/Hill	0%		
Landuse	0%		

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary Channel	505	1,451	0
Secondary Channel	61	118	0
Off-Channel Units	15	27	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 2
Width: 2.7	Width: 5.5	6.9 ( 4.7 - 8.4 )	8.2 ( 8 - 8.3 )
Depth: 0.18	Height: 0.4	0.8 ( 0.8 - 0.9 )	1.1 ( 1.1 - 1.1 )

W:D ratio: 13.5

Entrenchment (ACW:FPW ratio): 1.3

Stream Flow Type: MF

Habitat Units/100m (total channel length): 5.7

Average Unit Gradient: 3.7%

Habitat Units/100m (primary channel length): 6.5

Water temperature (°C): 8.0 - 8.0

**Riparian, Bank, and Wood Summary**

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	
Riparian Vegetation:	D15	

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:		Reach avg: 94%
Undercut Banks:	1%	Range: 92 - 94

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	149	29.5
Volume (m <sup>3</sup> ):	91	18.0
Key pieces (>=12m x 0.60m):	1	0.2

OREGON DEPT OF FISH AND WILDLIFE      SOUTH FORK TRASK TRIB A PRE-TX      (1-NC, 319)

HABITAT INVENTORY      Report Date: 4/26/2006      Survey Date: 6/29/2005

REACH 1		T02S-R08W-S35SE					REACH 1					
HABITAT DETAIL												
Habitat Type	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m <sup>2</sup> )	Large Boulders (#>0.5m)	Substrate Percent Wetted Area					
							S/O	Snd	Grvl	Cbl	Bldr	Bdrk
CASCADE/BOULDERS	2	50	3.3	0.20	163	0	6	14	46	35	0	0
POOL-BACKWATER	2	4	2.0	0.23	8	0	17	68	15	0	0	0
POOL-ISOLATED	1	1	1.5	0.30	2	0	33	44	22	0	0	0
POOL-LATERAL SCOUR	2	16	3.3	0.43	51	0	5	48	31	16	0	0
POOL-PLUNGE	2	5	3.3	0.38	16	0	30	55	15	0	0	0
RAPID/BOULDERS	22	505	2.6	0.14	1,353	0	0	13	50	37	0	0
STEP/LOG	2	1	3.0	0.10	3	0	3	13	51	33	0	0
<b>Total:</b>	<b>33</b>	<b>582</b>	<b>2.7</b>	<b>0.18</b>	<b>1,595</b>	<b>0</b>	<b>Avg: 5</b>	<b>22</b>	<b>44</b>	<b>30</b>	<b>0</b>	<b>0</b>

HABITAT SUMMARY									
Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders		
					(m <sup>2</sup> )	Percent	Number	(# / 100m <sup>2</sup> )	
Dammed & BW Pools	3	5	1.8	0.25	10	0.60%	0	0.0	
Scour Pools	4	21	3.3	0.40	67	4.20%	0	0.0	
Glides	0	0			0	0.00%	0	0.0	
Riffles	0	0			0	0.00%	0	0.0	
Rapids	22	505	2.6	0.14	1,353	84.83%	0	0.0	
Cascades	2	50	3.3	0.20	163	10.19%	0	0.0	
Step/Falls	2	1	3.0	0.10	3	0.19%	0	0.0	
Dry	0	0			0	0.00%	0	0.0	
Culverts	0	0			0	0.00%	0	0.0	

POOL SUMMARY			
	Total	Total of all Channel Lengths # / Km	Primary Channel Length # / Km
All Pools:	7	12.0	13.9
Pools >=1m deep:	0	0.0	0.0
Complex pools (LWD pieces>=3):	1	1.7	2.0
Pool frequency (channel widths/pool):	15.2		
Residual pool depth (avg):	0.30		

Survey Date 6/29/2005  
Report Date: 4/26/2006

**RIPARIAN ZONE  
VEGETATION SUMMARY**

REACH 1

**Summary of Riparian Zone (0-30m) 3 transects**

Total hardwoods/1000	528
Total conifers/1000 ft	41
Total conifers >20" dbh/1000 ft	0
Total conifers >35" dbh/1000 ft	0

**Average number of trees in a 5-meter wide band**

Diameter class (cm)	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters		Zones 1-3 0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	0.0	0.3	0.0	0.7	0.0	0.0	0.0	1.0
15-30cm	0.0	1.3	0.0	1.7	0.3	2.0	0.3	5.0
30-50cm	0.3	0.3	0.0	1.0	0.0	1.0	0.3	2.3
50-90cm	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	0.3	2.3	0.0	3.3	0.3	3.0	0.2	2.9

**Canopy closure and ground cover**

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	77		79		79	
Shrub cover	29		36		38	
Grass/forb cover	70		64		62	

**Predominant landform in each zone**

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	67		83		83	
High terrace	33		17		17	
Low terrace	0		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		0		0	
Riprap	0		0		0	
Surface slope (%)	24		38		43	

Summary of Riparian Zone (0-30m) for all reaches

3 transects

Summary of riparian zone (0-100 feet) extrapolated to 1,000 feet along stream

Total hardwoods/1000	528
Total conifers/1000 ft	41
Total conifers >20" dbh/1000 ft	0
Total conifers >35" dbh/1000 ft	0

**Average number of trees in a 5-m wide band**

Diameter class (cm)	Zones 1-3 <u>0-30 meters</u>	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	0.0	1.0
15-30cm	0.3	5.0
30-50cm	0.3	2.3
50-90cm	0.0	0.3
>90cm	0.0	0.0

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**RIPARIAN ZONE VEGETATION**

Reach 1

Reach 1

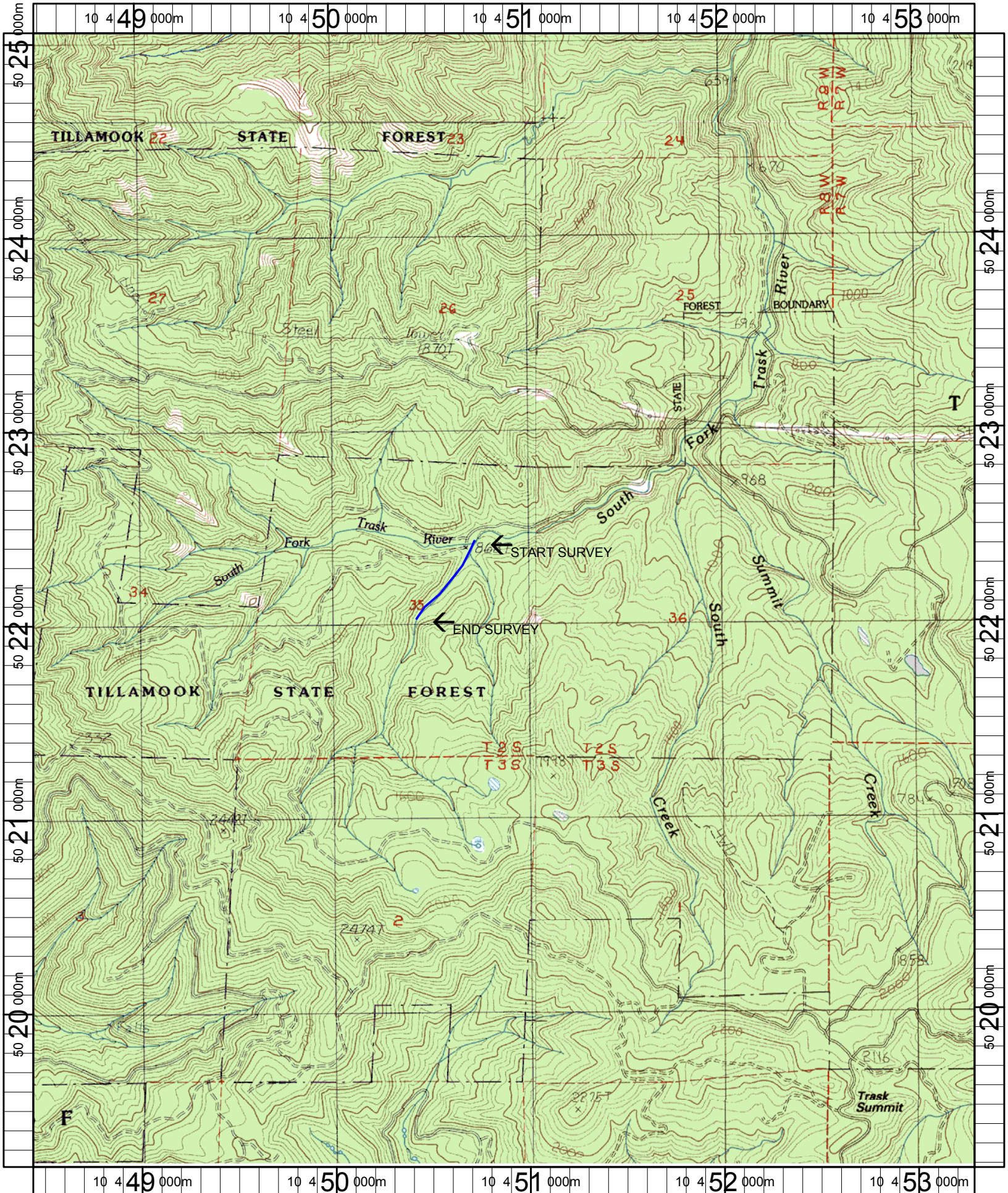
Unit	Side	Zone	Surface	Slope	Cover (percent)			Diameter class (cm)					Notes		
					Canopy	Shrub	Grass	3-15	15-30	30-50	50-90	>90			
8	RT	3	HS	25	80	80	20	Conifer							
								Hardwood		1	1				
8	LF	2	HS	90	80	40	60	Conifer							
								Hardwood			1				
8	RT	2	HS	25	80	80	20	Conifer							
								Hardwood		1	1				
8	LF	3	HS	85	80	50	50	Conifer		1					
								Hardwood		1					
8	LF	1	HS	90	75	30	70	Conifer						2D	
								Hardwood						0450644/50223	33
8	RT	1	HS	25	75	70	30	Conifer							
								Hardwood		2					
14	LF	1	HT	0	80	20	80	Conifer						2D	
								Hardwood				1		0450629/50221	95
14	LF	2	HS	55	80	30	70	Conifer							
								Hardwood			1				
14	LF	3	HS	70	80	20	80	Conifer							
								Hardwood		2					
14	RT	1	HT	0	80	40	60	Conifer							
								Hardwood		1					
14	RT	2	HT	0	80	40	60	Conifer							
								Hardwood	2						
14	RT	3	HT	0	80	40	60	Conifer							
								Hardwood		1	1				
20	LF	1	HS	15	75	10	90	Conifer				1		3D	
								Hardwood	1	1	1			0450565/50220	85
20	LF	2	HS	40	80	10	90	Conifer							
								Hardwood		1					
20	LF	3	HS	55	80	15	85	Conifer							
								Hardwood			1				
20	RT	1	HS	15	75	5	90	Conifer							
								Hardwood							
20	RT	2	HS	20	75	15	85	Conifer							
								Hardwood		3					
20	RT	3	HS	20	75	25	75	Conifer							
								Hardwood		1					

# Comment Summary

## Restoration Monitoring Sites 2005

**MONITORING AREA: 1-NC      SITE ID: 319      SOUTH FORK TRASK TRIB A PRE-TX**

<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
1	RB	00	26.8		START AT CONFLUENCE	START SIGN ALDER LEFT
5	RB	01	91.8	TJ/		
6	RB	11	91.8		ACW 3.25M	TRIB UNIT
8	CB	00	127.1		RIPARIAN 1	
9	CB	01	152.1	DJ		
14	RB	00	252.1		RIPARIAN 2	RIPARIAN 2
20	RB	00	382.9		RIPARIAN 3	
21	RB	00	407.9	/SS		
26	SL	02	482.9		H=0.4M	
31	SL	02	482.9		H=0.5M	
33	RB	00	505.3		END AT TOP OF 01/02 SE	END SURVEY ALDER RIGHT



Name: BLAINE  
 Date: 6/13/2005  
 Scale: 1 inch equals 2000 feet

Location: 10 450883 E 5022118 N  
 Caption: SOUTH FORK TRASK RIVER TRIBUTARY A RESTORATION  
 SITE - TRASK BASIN