

**ODFW AQUATIC INVENTORY PROJECT  
RESTORATION MONITORING  
STREAM HABITAT REPORT**

STREAM: HONEYGROVE CREEK  
 GCG: 2-MC  
 SITE ID: 35  
 BASIN: ALSEA  
 TREATMENT DATE: 2000  
 SURVEY DATE: 2/16/2011  
 SURVEY CREW: Nick Chambers and Aaron McAlexander  
 USGS MAPS: ALSEA  
 ECOREGION: Mid-Coastal Sedimentary  
 REPORT PREPARED BY: Matt Strickland / Charles Stein

REACH: 1 LOCATION: T14S-R07W-S05NW

**SURVEY DESCRIPTION:**

Channel morphology: Constrained alternately by high terraces and hillslopes

Dominant landuse(s): Large timber (30-50 cm dbh)

Dominant riparian vegetation: Deciduous trees: size class 15-30cm dbh

Primary channel length (meters) and area (m<sup>2</sup>): 484 : 3,239

Secondary channel length (meters) and area (m<sup>2</sup>): 107 : 426

VWI average: 4.5 VWI Range: 2.5 - 7 Average Gradient: 0.3%

Pieces LWD per 100m: 23.5 Wood Volume (m<sup>3</sup>) per 100m: 14.4

Percent pools: 76% Complex pools (LWD pieces>=3): 9 Pools >=1m deep: 0

<u>Percent substrate (avg):</u>	<u>Silt / organics</u>	<u>Sand</u>	<u>Gravel</u>	<u>Cobble</u>	<u>Boulder</u>	<u>Bedrock</u>
All units	9	42	47	1	1	0
Pool units	5	45	48	0	2	0
Fast water units	0	23	69	7	1	0

**SURVEY COMMENTS:**

This is a post treatment restoration survey. The crew noted older large wood stream habitat structures and a remnant beaver complex. The crew also noted a salmon carcass.

Survey Date: 2/16/2011

Report Date: 9/14/2011

T14S-R07W-S05NW

REACH 1

**Valley and Channel Summary**

Valley Characteristics (Percent Reach Length)

Narrow Valley Floor		Broad Valley Floor	
Steep V-shape	0%	Constraining Terraces	0%
Moderate V-shape	0%	Multiple Terraces	100%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	4.5	VWI Range:	2.5 - 7

Channel Morphology (Percent Reach Length)

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

Channel Characteristics

Type	Length (m)	Area (m <sup>2</sup> )	Dry Units
Primary	484	3,239	0
Secondary	107	426	0

Channel Dimensions (m)

Wetted	Active	Floodprone <i>n</i> = 5	First Terrace <i>n</i> = 4
Width: 5.9	Width: 10.4	18.0 ( 7.8 - 31.5 )	15.9 ( 8.8 - 23.5 )
Depth: 0.81	Height: 0.9	1.7 ( 1.5 - 1.9 )	2.1 ( 1.9 - 2.3 )

W:D ratio: 12.4

Stream Flow Type: MF

Average Unit Gradient: 0.3%

Water temperature (°C): 8.0 - 8.0

Entrenchment (ACW:FPW ratio): 1.9

Habitat Units/100m (total channel length): 4.4

Habitat Units/100m (primary channel length): 5.4

**Riparian, Bank, and Wood Summary**

	Primary	Secondary
Land Use:	LT	ST
Riparian Vegetation:	D15	S

Bank Condition and Shade

Bank Status	Percent Reach Length	Shade (% of 180)
Actively Eroding:	10%	Reach avg: 92%
Undercut Banks:	21%	Range: 72 - 100

Large Wood Debris

	Total	Total / 100m primary channel
All pieces (>=3m x 0.15m):	114	23.5
Volume (m <sup>3</sup> ):	70	14.4
Key pieces (>=12m x 0.60m):	2	0.4

**OREGON DEPT OF FISH AND WILDLIFE**  
**HABITAT INVENTORY**

**HONEYGROVE CREEK**  
**GCG: 2-MC SITE ID: 35**

**Survey Date: 2/16/2011**

**Report Date: 9/14/2011**

**T14S-R07W-S05NW**

**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
POOL-ALCOVE	1	28	4.0	0.40	110	0	56	44	0	0	0	0
POOL-BACKWATER	1	7	2.7	0.60	18	0	30	70	0	0	0	0
POOL-DAMMED	1	20	10.8	1.30	212	0	0	89	11	0	0	0
POOL-ISOLATED	1	11	0.9	0.45	10	0	60	40	0	0	0	0
POOL-LATERAL SCOUR	15	402	6.2	1.05	2,591	1	5	43	50	0	2	0
RIFFLE	5	116	5.1	0.46	648	0	0	23	69	7	1	0
STEP/COBBLE	1	7	7.5	0.30	53	0	0	11	89	0	0	0
STEP/LOG	1	3	9.5	0.07	24	0	0	80	20	0	0	0
<b>Total:</b>		26	591	5.9	3,665	1	<b>Avg: 9</b>	42	47	1	1	0

**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	4	65	4.6	0.69	350	9.54%	0	0.0
Scour Pools	15	402	6.2	1.05	2,591	70.70%	1	0.0
Glides	0	0			0	0.00%	0	0.0
Riffles	5	116	5.1	0.46	648	17.68%	0	0.0
Rapids	0	0			0	0.00%	0	0.0
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	2	10	8.5	0.19	76	2.08%	0	0.0
Dry	0	0			0	0.00%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

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REACH 1

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**POOL SUMMARY**

	<u>Total</u>	Total of all Channel Lengths <u># / Km</u>	Primary Channel Length <u># / Km</u>
All Pools:	19	32.1	39.2
Pools >=1m deep:	10	16.9	20.7
Complex pools (LWD pieces>=3):	9	15.2	18.6
Pool frequency (channel widths/pool):	3.0		
Residual pool depth (avg):	0.70		

Survey Date 2/16/2011

**RIPARIAN ZONE  
VEGETATION SUMMARY**

Report Date: 9/14/2011

REACH 1

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

Total hardwoods/1000	650
Total conifers/1000 ft	284
Total conifers >20" dbh/1000 f	0
Total conifers >35" dbh/1000 f	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	1.0	0.3	3.0	0.7	1.3	1.0	5.3
15-30cm	0.0	1.3	1.0	2.3	1.0	1.0	2.0	4.7
30-50cm	0.7	0.7	0.0	0.0	1.0	0.0	1.7	0.7
50-90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m2	0.7	3.0	1.3	5.3	2.7	2.3	1.6	3.6

**Canopy closure and ground cover**

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	77		79		83	
Shrub cover	13		10		23	
Grass/forb cover	77		61		68	

**Predominant landform in each zone**

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	33		33		67	
High terrace	33		17		33	
Low terrace	33		17		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		17		0	
Roadbed/Railroad	0		0		0	
Riprap	0		0		0	
Surface slope (%)	30		18		12	

**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	650
Total conifers/1000 ft	284
Total conifers >20" dbh/1000 f	0
Total conifers >35" dbh/1000 f	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	1.0	5.3
15-30cm	2.0	4.7
30-50cm	1.7	0.7
50-90cm	0.0	0.0
>90cm	0.0	0.0

**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	
7	LT	1	HS	65	75	5	65	Conifer				1		
								Hardwood	1					
7	LT	2	HS	15	80	10	80	Conifer	1					REMAINING COVER = BARE
								Hardwood						
7	LT	3	HS	15	90	10	80	Conifer				2		
								Hardwood						
7	RT	1	LT	0	65	20	70	Conifer						
								Hardwood						
7	RT	2	IP	0	85	5	15	Conifer						ALCOVE. REMAINING SURFACE=WA
								Hardwood	2	3				REMAING SURFACE=RE
7	RT	3	HS	0	65	20	60	Conifer						ST OF
								Hardwood			2			
15	LT	1	LT	0	85	10	85	Conifer						
								Hardwood				1		
15	LT	2	LT	0	80	15	75	Conifer						
								Hardwood	3	2				
15	LT	3	HS	35	90	15	80	Conifer					1	
								Hardwood	3	1				
15	RT	1	HS	115	90	5	90	Conifer					1	
								Hardwood	2	1				
15	RT	2	HS	90	95	15	80	Conifer						
								Hardwood	0	1				
15	RT	3	HS	20	95	15	80	Conifer					2	
								Hardwood						
20	LT	1	HT	0	65	20	75	Conifer						
								Hardwood						
20	LT	2	SC	0	65	5	45	Conifer						REMAINING SURFACE=H2 O/SC
								Hardwood	2					
20	LT	3	HT	0	85	15	80	Conifer	2	1				
								Hardwood						
20	RT	1	HT	0	80	15	75	Conifer						
								Hardwood	0	3		1		
20	RT	2	HT	0	70	10	70	Conifer						
								Hardwood	2	1				
20	RT	3	HT	0	70	65	25	Conifer						
								Hardwood	1					

OREGON DEPT OF FISH AND WILDLIFE  
HABITAT INVENTORY

OREGON PLAN MONITORING SITE  
SURVEY DATE: 2/16/2011

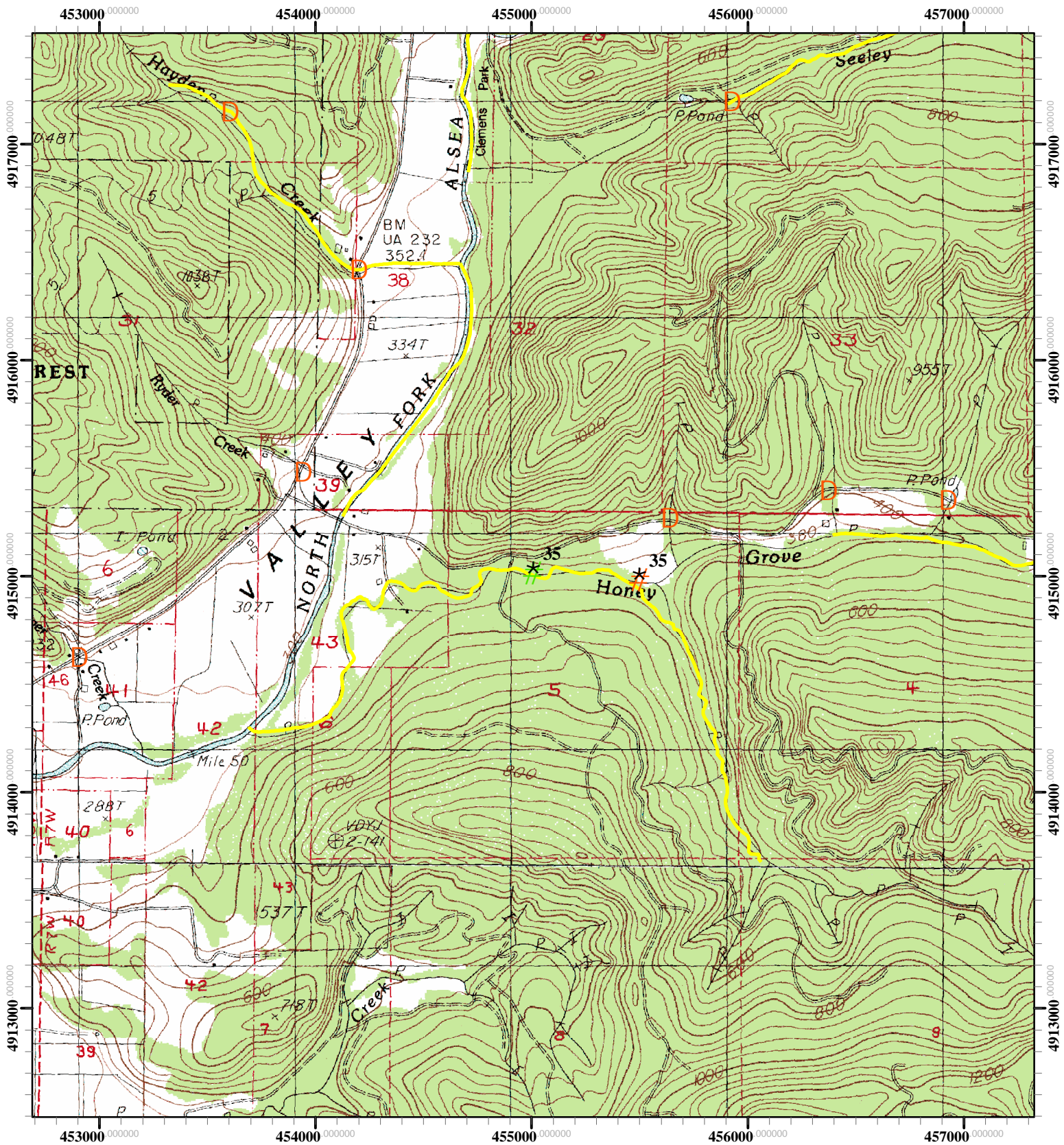
COMMENT SUMMARY

MONITORING AREA: 2-MC SITE ID: 35 STREAM: HONEYGROVE CREEK





REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	5	LP	01	122.5		
1	6	AL	10	122.5	AM	EGG MASSES
1	7	RI	01	142.8	/IP	CARCASS
1	10	SC	00	175.6	SS/	
1	11	LP	00	205.1	DJ	REDD
1	12	SL	00	207.6		H=.55
1	15	RI	00	304.9	SS/	
1	16	LP	00	325.1		OLD BV COMPLEX
1	20	LP	01	444.3	BV	ACTIVE INCLUDES 02
1	21	LP	01	455		15 HARDPAN
1	24	RI	02	465.5		







Restoration Site ID: 35  
 Stream: Honeygrove Creek  
 T14S- R07W - S05  
 USGS Map: Alsea  
 Basin: Alsea

-  Restoration Start Point
-  Restoration End Point
-  Potential Barrier
-  Spawning Survey Segments

