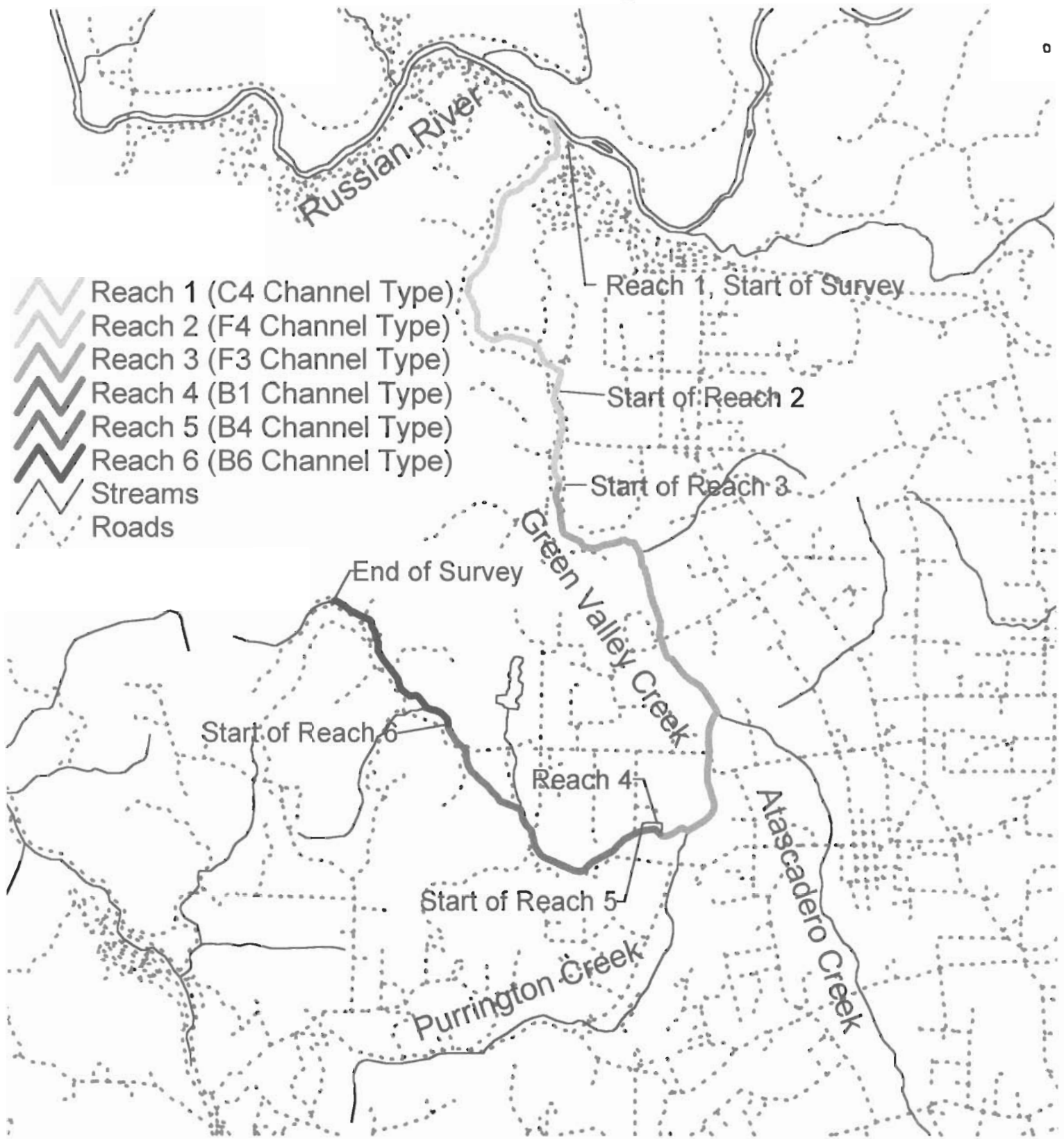


Green Valley Creek



Green Valley Creek

Drainage: RUSSIAN RIVER

Table 1 - SUMMARY OF RIFFLE, FLATWATER, AND POOL HABITAT TYPES Survey Dates: 09/28/94, 09/29/94

Confluence Location: QUAD: GUERNEVILL LEGAL DESCRIPTION: T08NR10WS25 LATITUDE: 38°30'17" LONGITUDE: 122°54'30"

UNITS MEASURED	HABITAT TYPE	HABITAT PERCENT OCCURRENCE	MEAN LENGTH (ft.)	TOTAL LENGTH (ft.)	TOTAL PERCENT LENGTH	MEAN WIDTH (ft.)	MEAN DEPTH (ft.)	MEAN AREA (sq.ft.)	TOTAL AREA (sq.ft.)	MEAN VOLUME (cu.ft.)	TOTAL VOLUME (cu.ft.)	MEAN RESIDUAL POOL VOL (cu.ft.)	MEAN SHELTER RATING
45	RIFFLE	5	40	1807	3	5.1	0.2	118	5329	26	1178	0	3
229	FLATWATER	28	86	19679	37	8.5	0.7	773	176935	829	189730	29	18
92	POOL	48	45	17799	34	13.0	1.3	685	268409	1237	484972	916	20
54	DRY	19	88	13568	26	0.4	***.*	6	923	1	170	0	1

TOTAL LENGTH (ft.)
52853

TOTAL AREA (sq. ft.)
451596

TOTAL VOL. (cu. ft.)
676051

Green Valley Creek

Drainage: RUSSIAN RIVER

Table 2 - SUMMARY OF HABITAT TYPES AND MEASURED PARAMETERS

Survey Dates: 09/28/94, 09/29/94

Confluence Location: QUAD: GUERNEVILL LEGAL DESCRIPTION: T08NR10WS25 LATITUDE: 38°30'17" LONGITUDE: 122°54'30"

UNITS MEASURED	HABITAT TYPE	HABITAT OCCURRENCE	MEAN LENGTH	TOTAL LENGTH	TOTAL LENGTH %	MEAN WIDTH	MEAN DEPTH	MEAN MAXIMUM DEPTH	MEAN AREA	TOTAL AREA	MEAN VOLUME	TOTAL VOLUME	MEAN RESIDUAL	MEAN SHELTER	MEAN RT. BANK	MEAN LT. BANK	MEAN CANOPY	#	POOL VOL RATING			VEGETATED		
																			ft.	sq.ft.	cu.ft.	%	ft.	sq.ft.
41	LGR	5	41	1664	3	5	0.2	5.5	124	5099	27	1099	0	3	57	63	86							
2	HGR	0	43	85	0	3	0.2	1.0	59	117	12	23	0	0	70	45	80							
1	CAS	0	42	42	0	3	0.5	0.8	105	105	53	53	0	0	70	60	100							
1	BRS	0	16	16	0	1	0.4	1.0	8	8	3	3	0	0	10	10	100							
111	GLD	14	94	10464	20	11	0.8	5.0	1080	119856	1400	155390	26	19	75	74	77							
117	RUN	14	78	9125	17	6	0.5	4.0	483	56539	291	34070	31	17	76	77	85							
1	SRN	0	90	90	0	6	0.5	1.1	540	540	270	270	216	0	60	100	90							
1	TRP	0	155	155	0	4	2.8	4.1	620	620	1736	1736	1674	20	30	50	70							
176	MCP	21	49	8704	16	13	1.4	7.0	709	124710	1303	229331	934	15	69	74	79							
3	CCP	0	42	126	0	17	1.9	4.0	703	2108	1574	4723	560	33	80	83	73							
1	STP	0	38	38	0	4	0.4	1.6	152	152	61	61	15	0	70	60	100							
42	CRP	5	47	1987	4	17	1.5	6.0	1009	42375	1987	83442	1719	12	74	77	83							
34	LSL	4	44	1489	3	13	1.4	7.0	603	20506	1022	34736	631	40	74	82	81							
83	LSR	10	37	3066	6	12	1.2	5.5	547	45396	904	75009	733	31	67	72	87							
13	LSBK	2	37	481	1	7	1.1	2.8	296	3849	297	3856	187	4	52	54	77							
9	LSBo	1	49	441	1	17	1.4	4.2	1154	10385	2275	20475	2052	6	71	73	87							
6	PLP	1	24	143	0	17	1.0	3.3	400	2398	440	2638	242	7	67	59	90							
5	BFB	1	21	104	0	7	1.1	2.9	135	676	139	694	122	13	50	74	92							
3	BPR	0	43	130	0	13	0.9	4.0	536	1607	422	1266	358	7	83	62	73							
6	BPL	1	28	166	0	10	1.2	2.8	310	1862	378	2268	322	3	68	88	87							
10	DPL	1	77	770	1	13	1.3	4.5	1177	11766	2474	24738	1095	48	66	81	77							
154	DRY	19	88	13568	26	0	***	2.0	6	923	1	170	0	1	73	74	85							

TOTAL LENGTH (ft.)	52853
TOTAL AREA (sq.ft)	451596
TOTAL VOL. (cu.ft)	676051

Green Valley Creek

Drainage: RUSSIAN RIVER

Table 3 - SUMMARY OF POOL TYPES

Survey Dates: 09/28/94, 09/29/94

Confluence Location: QUAD: GUERNEVILLE LEGAL DESCRIPTION: T08NR10WS25 LATITUDE: 38°30'17" LONGITUDE: 122°54'30"

UNITS MEASURED	HABITAT TYPE	HABITAT PERCENT OCCURRENCE	MEAN LENGTH (ft.)	TOTAL LENGTH (ft.)	PERCENT LENGTH	MEAN WIDTH (ft.)	MEAN DEPTH (ft.)	MEAN AREA (sq.ft.)	TOTAL AREA (sq.ft.)	MEAN VOLUME (cu.ft.)	TOTAL VOLUME (cu.ft.)	MEAN RESIDUAL POOL VOL. (cu.ft.)	MEAN SHELTER RATING
81	MAIN	46	50	9023	51	12.7	1.4	705	127590	1303	235851	927	16
87	SCOUR	48	41	7607	43	13.4	1.3	668	124908	1177	220156	946	24
24	BACKWATER	6	49	1170	7	11.0	1.2	663	15911	1207	28966	604	24

TOTAL LENGTH (ft.) 17799

TOTAL AREA (sq.ft.) 268409

TOTAL VOL. (cu.ft.) 484972

Green Valley Creek

Drainage: RUSSIAN RIVER

Table 4 - SUMMARY OF MAXIMUM POOL DEPTHS BY POOL HABITAT TYPES Survey Dates: 09/28/94, 09/29/94

Confluence Location: QUAD: GUERNEVILL LEGAL DESCRIPTION: T08NR10WS25 LATITUDE: 38°30'17" LONGITUDE: 122°54'30"

UNITS MEASURED	HABITAT TYPE	HABITAT PERCENT OCCURRENCE	<1 FOOT			1-<2 FOOT			2-<3 FOOT			3-<4 FOOT			>=4 FOOT		
			MAXIMUM DEPTH OCCURRENCE	PERCENT OCCURRENCE	MAXIMUM DEPTH OCCURRENCE	PERCENT OCCURRENCE	MAXIMUM DEPTH OCCURRENCE	PERCENT OCCURRENCE	MAXIMUM DEPTH OCCURRENCE	PERCENT OCCURRENCE	MAXIMUM DEPTH OCCURRENCE	PERCENT OCCURRENCE	MAXIMUM DEPTH OCCURRENCE	PERCENT OCCURRENCE			
1	TRP	0	0	0	0	0	0	0	0	0	0	0	0	1	100		
76	MCP	45	18	10	50	28	54	31	32	18	22	13	67	2	0		
3	CCP	1	1	33	0	0	0	0	0	0	0	0	0	0	0		
1	STP	0	0	0	1	100	0	0	0	0	0	0	0	0	0		
42	CRP	11	3	7	7	17	18	43	4	10	10	24	4	10	0		
54	LSL	9	3	9	11	32	9	26	7	21	4	12	14	17	0		
33	LSR	21	9	11	34	41	18	22	8	10	14	17	10	14	0		
13	LSBK	3	2	15	5	38	6	46	0	0	0	0	0	0	0		
9	LSBo	2	1	11	2	22	3	33	2	22	1	11	1	11	0		
6	PLP	2	1	17	3	50	1	17	1	17	0	0	0	0	0		
5	BPB	1	1	20	2	40	2	40	0	0	0	0	0	0	0		
3	BPR	1	0	0	1	33	1	33	0	0	0	0	1	33	0		
6	BPL	2	1	17	2	33	3	50	0	0	0	0	0	0	0		
10	DPL	3	0	0	6	60	1	10	1	10	2	20	2	20	0		

Green Valley Creek

Drainage: RUSSIAN RIVER

Table 5 - SUMMARY OF MEAN PERCENT COVER BY HABITAT TYPE Survey Dates: 09/28/94, 09/29/94

Confluence Location: QUAD: GUERNEVILLE LEGAL DESCRIPTION: T08NR10WS25 LATITUDE: 38°30'17" LONGITUDE: 122°54'30"

UNITS MEASURED	HABITAT TYPE	BANKS		SWD	LWD	ROOT MASS VEGETATION		TERR.	AQUATIC VEGETATION	WHITE WATER	BOULDERS	BEDROCK LEDGES
		MEAN % UNDERCUT	MEAN %			MEAN %	MEAN %					
41	LGR	2	0	0	0	0	4	0	0	0	5	0
2	HGR	0	0	0	0	0	0	0	0	0	0	0
1	CAS	0	0	0	0	0	0	0	0	0	0	0
1	BRS	0	0	0	0	0	0	0	0	0	0	0
11	GLD	3	2	2	3	3	14	20	0	0	1	0
7	RUN	4	1	3	3	2	8	12	0	0	0	0
1	SRN	0	0	0	0	0	0	0	0	0	0	0
1	TRP	0	40	0	0	0	0	60	0	0	0	0
76	MCP	8	3	8	6	6	11	11	0	0	1	1
3	CCP	0	0	0	0	0	60	0	0	0	0	7
1	STP	0	0	0	0	0	0	0	0	0	0	0
2	CRP	17	6	7	8	2	2	9	0	0	2	0
34	LSL	2	16	28	7	7	11	6	0	0	0	0
83	LSR	13	7	7	35	3	3	2	0	0	0	0
13	LSBK	15	0	0	7	8	0	0	0	0	0	15
9	LSBC	22	1	0	0	0	0	11	0	0	32	0
6	PLP	23	2	16	0	1	1	0	0	0	8	17
5	BPB	16	0	4	0	0	0	0	0	0	20	0
3	BPR	0	0	0	57	0	0	10	0	0	0	0
6	BPL	0	9	0	8	0	0	17	0	0	0	0
10	DPL	0	5	5	0	3	3	17	0	0	11	9
154	OPY	0	0	0	1	0	0	0	0	0	0	0

Green Valley Creek

Drainage: RUSSIAN RIVER

Table 6 - SUMMARY OF DOMINANT SUBSTRATES BY HABITAT TYPE

Survey Dates: 09/28/94, 09/29/94

Confluence Location: QUAD: GUERNEVILL LEGAL DESCRIPTION: T08NR10WS25 LATITUDE: 38°30'17" LONGITUDE: 122°54'30"

UNITS MEASURED	HABITAT TYPE	# UNITS		% TOTAL		# UNITS		% TOTAL		# UNITS		% TOTAL		# UNITS		% TOTAL	
		SILT/CLAY	SILT/CLAY DOMINANT	SAND	SAND DOMINANT	GRAVEL	GRAVEL DOMINANT	SM COBBLE	SM COBBLE DOMINANT	LG COBBLE	LG COBBLE DOMINANT	BOULDER	BOULDER DOMINANT	BOULDER	BOULDER DOMINANT	BEDROCK	BEDROCK DOMINANT
41	LGR	5	12	6	15	21	51	5	12	0	0	0	0	0	0	0	0
2	HGR	0	0	0	0	0	0	0	0	0	0	0	0	1	50	1	50
1	CAS	0	0	0	0	1	100	0	0	0	0	0	0	0	0	0	0
1	BRS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	GLD	21	19	43	39	43	39	2	2	0	0	0	0	0	0	0	0
1	RUN	23	20	28	24	52	44	7	6	0	0	0	0	1	1	6	5
1	SRN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	TRP	1	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	MCP	35	20	97	55	39	22	0	0	0	0	0	0	1	1	3	2
1	CCP	2	67	1	33	0	0	0	0	0	0	0	0	0	0	0	0
1	STP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	CRP	10	24	21	50	10	24	1	2	0	0	0	0	0	0	0	0
1	LSL	4	12	20	59	10	29	0	0	0	0	0	0	0	0	0	0
1	LSR	16	19	42	51	24	29	0	0	0	0	0	0	0	0	0	0
1	LSBK	6	46	5	38	1	8	0	0	0	0	0	0	0	0	0	0
1	LSBo	2	22	5	56	1	11	1	11	0	0	0	0	0	0	0	0
1	PLP	2	33	0	0	4	67	0	0	0	0	0	0	0	0	0	0
1	BPB	0	0	5	100	0	0	0	0	0	0	0	0	0	0	0	0
1	BPR	0	0	0	0	2	67	1	33	0	0	0	0	0	0	0	0
1	BPL	2	33	4	67	0	0	0	0	0	0	0	0	0	0	0	0
1	DPL	2	20	3	30	4	40	0	0	0	0	0	0	0	0	0	0
1	DRY	14	9	34	22	92	60	9	6	1	1	1	1	0	0	0	0

APPENDIX A.

Summary of Mean Percent Vegetative Cover for Entire Stream

Mean Percent Canopy	Mean Percent Conifer	Mean Percent Deciduous	Mean Right bank % Cover	Mean Left Bank % Cover
82.31	4.50	94.55	70.71	73.82

APPENDIX B

FISH HABITAT INVENTORY DATA SUMMARY

STREAM NAME: Green Valley Creek
SAMPLE DATES: 09/28/94, 09/29/94
STREAM LENGTH: 51424 ft.
LOCATION OF STREAM MOUTH:

USGS Quad Map: GUERNEVILL
Legal Description: T08NR10WS25

Latitude: 38°30'17"
Longitude: 122°54'30"

SUMMARY OF FISH HABITAT ELEMENTS BY STREAM REACH

STREAM REACH 01

Channel Type: C4	Canopy Density: 73%
Channel Length: 12575 ft.	Coniferous Component: 11%
Flowing Water Mean Width: 9 ft.	Deciduous Component: 89%
Flowing Water Mean Depth: 0.7 ft.	Pools by Stream Length: 54%
Base Flow: 0.3 cfs	Pools >=3 ft.deep: 50%
Water: 61 - 86 °F Air: 60 - 88 °F	Mean Pool Shelter Rtn: 22
Dom. Bank Veg.: Deciduous Trees	Dom. Shelter: Aquatic Vegetation
Vegetative Cover: 73%	Occurrence of LOD: 6%
Dom. Bank Substrate: No Data	Dry Channel: 1%
Embeddness Value: 1. 0% 2. 0% 3. 2% 4. 98%	

STREAM REACH 02

Channel Type: F4	Canopy Density: 87%
Channel Length: 3041 ft.	Coniferous Component: 1%
Flowing Water Mean Width: 10 ft.	Deciduous Component: 97%
Flowing Water Mean Depth: 1.0 ft.	Pools by Stream Length: 31%
Base Flow: 0.3 cfs	Pools >=3 ft.deep: 60%
Water: 61 - 64 °F Air: 67 - 78 °F	Mean Pool Shelter Rtn: 23
Dom. Bank Veg.: Deciduous Trees	Dom. Shelter: Aquatic Vegetation
Vegetative Cover: 83%	Occurrence of LOD: 0%
Dom. Bank Substrate: No Data	Dry Channel: 7%
Embeddness Value: 1. 0% 2. 0% 3. 0% 4. 100%	

STREAM REACH 03

Channel Type: F3	Canopy Density: 85%
Channel Length: 15434 ft.	Coniferous Component: 0%
Flowing Water Mean Width: 9 ft.	Deciduous Component: 100%
Flowing Water Mean Depth: 0.5 ft.	Pools by Stream Length: 29%
Base Flow: 0.3 cfs	Pools >=3 ft.deep: 24%
Water: 56 - 72 °F Air: 55 - 85 °F	Mean Pool Shelter Rtn: 17
Dom. Bank Veg.: Deciduous Trees	Dom. Shelter: Large Woody Debris
Vegetative Cover: 79%	Occurrence of LOD: 10%
Dom. Bank Substrate: No Data	Dry Channel: 37%
Embeddness Value: 1. 0% 2. 0% 3. 0% 4. 100%	

STREAM REACH 04

Channel Type: B1	Canopy Density: 92%
Channel Length: 919 ft.	Coniferous Component: 0%
Flowing Water Mean Width: 7 ft.	Deciduous Component: 100%
Flowing Water Mean Depth: 0.5 ft.	Pools by Stream Length: 57%
Base Flow: 0.3 cfs	Pools >=3 ft.deep: 30%
Water: 54 - 58 °F Air: 55 - 63 °F	Mean Pool Shelter Rtn: 11
Dom. Bank Veg.: Deciduous Trees	Dom. Shelter: Root masses
Vegetative Cover: 54%	Occurrence of LOD: 5%
Dom. Bank Substrate: No Data	Dry Channel: 0%
Embeddness Value: 1. 27% 2. 27% 3. 0% 4. 45%	

STREAM REACH 05

Channel Type: B4	Canopy Density: 86%
Channel Length: 14067 ft.	Coniferous Component: 5%
Flowing Water Mean Width: 7 ft.	Deciduous Component: 94%
Flowing Water Mean Depth: 0.4 ft.	Pools by Stream Length: 30%
Base Flow: 0.3 cfs	Pools >=3 ft.deep: 13%
Water: 54 - 70 °F Air: 55 - 79 °F	Mean Pool Shelter Rtn: 24
Dom. Bank Veg.: Deciduous Trees	Dom. Shelter: Undercut Banks
Vegetative Cover: 62%	Occurrence of LOD: 6%
Dom. Bank Substrate: No Data	Dry Channel: 46%
Embeddness Value: 1. 30% 2. 27% 3. 15% 4. 28%	

STREAM REACH 06

Channel Type: B6	Canopy Density: 84%
Channel Length: 5389 ft.	Coniferous Component: 4%
Flowing Water Mean Width: 6 ft.	Deciduous Component: 91%
Flowing Water Mean Depth: 0.6 ft.	Pools by Stream Length: 15%
Base Flow: 0.3 cfs	Pools >=3 ft.deep: 13%
Water: 57 - 70 °F Air: 60 - 82 °F	Mean Pool Shelter Rtn: 9
Dom. Bank Veg.: Deciduous Trees	Dom. Shelter: Aquatic Vegetation
Vegetative Cover: 77%	Occurrence of LOD: 2%
Dom. Bank Substrate: No Data	Dry Channel: 5%
Embeddness Value: 1. 5% 2. 5% 3. 0% 4. 91%	

APPENDIX C

Mean Percentage of Dominant Substrate

Dominant Class of Substrate	Number Units Right Bank	Number Units Left Bank	Total Mean Percent
Bedrock	48	46	5.73
Boulder	10	11	1.28
Cobble/Gravel	179	171	21.34
Silt/clay	582	591	71.52

Mean Percentage of Dominant Vegetation

Dominant Class of Vegetation	Number Units Right Bank	Number Units Left Bank	Total Mean Percent
Grass	36	30	4.02
Brush	86	113	12.13
Decid. Trees	676	663	81.65
Conif. Trees	11	4	0.91
No Vegetation	1	1	0.12