7

Entered Rush Cr 91 9-19-91

STREAM Rush Creek DATE 8/5/91 COLLECTORS Rich

Conductivity 55.2 Weather –

EPA Reach # 17060206041000 Comments –

Temperature 11°C 8:00 pm

Stratum _____ Section Length (m) 52.7

Section 2 Section Width (m) 4.26
(n≥4) 5.0 3.8 3.8 4.8 3.9

Section Area 224.5 M² Visibility: (m) 1.1

METHODS: (✓) Snorkel (circle corridor or entire stream width)
( ) Electrofish
( ) Other _____

Length Class (in)	RAINBOW - STEELHEAD				RESIDENT SPECIES			
	Total	Wild & Natural	Adipose Clipped	Hatchery Catchabl	Cutthroat	Brook	Bull	Whtfish
<2								
2		11 ① .89			1 ①			
3					111			
4					④			
5					1			
6		1			11		①	
7		① .45			1 ③			
8								
9					1			
10					①			
11								
12								
>12 specify length								
Age 0 Chinook								
Age 1 Chinook								

Jeff,

as per your request -

Bruce Rich

A 6/89

Entered RushPhys 9-19-91

Stream Rush Creek Date 8/5/91 Collectors Rich

Length (M) 52.7 Comments

EPA Reach # 17060206041000 Vertical Drop (M) 1.5

Gradient (%) 2.85

PROGRAM:

Stratum

Section 2.

Channel Type:

B = Confined, Sediment flushing
C = Meandered, depositional
_ = Other, see Rosgen's Channel Types

4.3 .18

Transect [1](m) from downstream	Width [1](m)	Habitat	Location on transect (l to r)	Depth [1](m)	% Substrate Class by Area							
					Sand 0	Gravel (up to 3")	Rubble (3" to 12")	Boulder (>12")	Bedrock			
0	5.0	2	1/4	.2		60	20	20				
		2	1/2	.2		95	5					
		2	3/4	.15		90	10					
7	3.8	5	1/4	.35	40	40	20					
		2	1/2	.6	10	20	40	30				
		3	3/4	.25		60	40					
14	3.8	4	1/4	.15		40	40	20				
		4	1/2	.17		50	20	30				
		2	3/4	.2		50	50					
21	4.8	2	1/4	.15		60	20	20				
		3	1/2	.2		70	30					
		2	3/4	.2		30	40	30				
28	3.9	2	1/4	.28		80	20					
		2	1/2	.22		60	30	10				
		2	3/4	.14		30	10	60				
					50	B35	395	220				

Habitat: 1 = Pool; 2 = Run; 3 = Pocket Water; 4 = Riffle; 5 = Backwater

3% 56% 26% 15%

Top 52.7

2 = 67%
3 = 13%
4 = 13%

D 907

Entered RushCR91 9-19-91

STREAM Rush Creek DATE 8/6/91 COLLECTORS Rich

Conductivity _____ Weather _____

EPA Reach # 17060206041002 Comments _____

Temperature _____

Stratum _____ Section Length (m) 61.5

Section 3 Section Width (m) 5.18

(n≥4) 5.7 5.3 4.3 5.5 5.1

Section Area 318.57 M^2 Visibility: (m) _____

METHODS: (✓) Snorkel (circle corridor or (entire) stream width)
( ) Electrofish
( ) Other _____

Length Class (in)	RAINBOW - STEELHEAD				RESIDENT SPECIES			
	Total	Wild & Natural	Adipose Clipped	Hatchery Catchabl	Cutthroat	Brook	Bull	Whtfish
< 2								
2								
3					1			
4		① .31/100m²			(2)	(1)		
5		1			1	1		
6					11		11	
7		① .31/100m²			1 (4)		(2)	
8		1			1			
9								
10					(1)			
11					1			
12								
> 12 specify length								

Age 0 Chinook _____ Adults

Age 1 Chinook _____ Redds

A 6/89

Entered Rush Phys 9-19-91

Stream Rush Creek
Date 8/6/91
Collectors Rich
Length (M) 61.5
Comments
EPA Reach # 17060206040100
Vertical Drop (M) 1.19
Gradient (%) 1.93%

PROGRAM:
Stratum
Section 3
Channel Type: C

B = Confined, Sediment flushing
C = Meandered, depositional
_ = Other, see Rosgen's Channel Types

5.18 .18

Transect [1](m) from downstream	Width [1](m)	Habitat	Location on transect (l to r)	Depth [1](m)	% Substrate Class by Area: Sand 0	Gravel (up to 3")	Rubble (3" to 12")	Boulder (>12")	Bedrock
5	5.7	2	1/4	.25		30	70		
		2	1/2	.18		20	80		
		2	3/4	.2		10	40	50	
15	5.3	1	1/4	.3		60	30	10	
		1	1/2	.3		60	40		
		2	3/4	.27		10	50	40	
25	4.3	2	1/4	.2		10	40	50	
		4	1/2	.3		20	40	40	
		2	3/4	.1			40	60	
35	5.5	2	1/4	.2			50	50	
		2	1/2	.2		30	40	30	
		2	3/4	.15		50	50		
45	5.1	1	1/4	.35			50	50	
		2	1/2	.42		20	50	30	
		1	3/4	.25		70	30		
						390	700	410	

Habitat: 1 = Pool; 2 = Run; 3 = Pocket Water; 4 = Riffle; 5 = Backwater

1 = 27%
2 = 67%
4 = 6%

26% 47% 27%

D 907

Entered Rush Cr 91 9-19-91

STREAM Rush Creek DATE 8/6/91 COLLECTORS Rich

Conductivity 69.1 μmhos Weather

EPA Reach # 17060206041070 Comments mouth of W fork snorkel upstream

Temperature 14°C @ 1925 hrs

Stratum Section Length (m) 52.7

Section 4 Section Width (m) 5.66
(n≥4) 6.7 6.9 4.3 5.4 5.0

Section Area 298.28 M^2 Visibility: (m) 1.6 m

METHODS: (✓) Snorkel (circle corridor or entire stream width)
( ) Electrofish
( ) Other

Length Class (in)	RAINBOW - STEELHEAD				RESIDENT SPECIES			
	Total	Wild & Natural	Adipose Clipped	Hatchery Catchabl	Cutthroat	Brook	Bull	Whtfish
< 2								
2								
3		IIII						
4		III (10) 3.35/100m²			I (2)			
5		II			I			
6		II			II		I	
7		I (5) 1.68/100m²			II (7)			
8		II			III		I	
9					I (6)			
10					IIII			
11								
12					III (3)			
> 12 specify length								

Age 0 Chinook Adults

Age 1 Chinook Redds

A 6/89

Entered Rush Phys 9-19-91

Stream Rush Creek
Date 8/6/91
Length (M) 52.7
Vertical Drop (M) 1.52
Gradient (%) 2.88%
Collectors Rich
Comments

EPA Reach # 17060206L4102

PROGRAM:
Stratum
Section 4
Channel Type: B

B = Confined, Sediment flushing
C = Meandered, depositional
_ = Other, see Rosgen's Channel Types

5.66 ,27

Transect [1](m) from downstream	Width [1](m)	Habitat	Location on transect (l to r)	Depth [1](m)	% Substrate Class by Area: Sand 0	Gravel (up to 3")	Rubble (3" to 12")	Boulder (>12")	Bedrock
5	6.7	5	1/4	.4	60			40	
		2	1/2	.54		30	30	40	
		1	3/4	.26		60	40		
12	6.9	2	1/4	.3	10	30	60		
		4	1/2	.2		30	30	40	
		4	3/4	.18				50	50
19	4.3	2	1/4	.5			70	30	
		2	1/2	.34		20	40	40	
		2	3/4	.35				100	
26	5.4	2	1/4	.2			50	50	
		2	1/2	.55			50	50	
		5	3/4	.4	20	20	60		
33	5.0	5	1/4	.25		30	20	50	
		2	1/2	.55		30	70		
		2	3/4	.3		40	20	40	
					90	290	540	530	50
					6%	19%	36%	35%	4%

Habitat: 1 = Pool; 2 = Run; 3 = Pocket Water; 4 = Riffle; 5 = Backwater

1 = 7%
2 = 60%
4 = 13%
5 = 20%

D 907

Entered Rush Cr 91 9-19-91 !

STREAM Rush Creek DATE 8/6/91 COLLECTORS Rich

Conductivity 69.0 Weather

EPA Reach # 17060206041000 Comments

Temperature 14 @ 1810

Stratum Section Length (m) 63.5

Section 5 Section Width (m) 6.7

(n≥4) 5.9 7.7 5.8 7.2 6.9

Section Area 425.5 M^2 Visibility: (m) .9m

METHODS: (✓) Snorkel (circle corridor or (entire) stream width)
( ) Electrofish
( ) Other

Length Class (in)	RAINBOW - STEELHEAD				RESIDENT SPECIES			
	Total	Wild & Natural	Adipose Clipped	Hatchery Catchabl	Cutthroat	Brook	Bull	Whtfish
< 2		III (3) .71/100m²						
2								
3		III			II			
4		IIII (10) 2.35/100m²			I (4)			
5		II			I			
6		IIII			I			
7		II (6) 1.41/100m²			I (3)			
8					I			
9					III (5)			
10					II			
11								
12								
> 12 specify length								

Age 0 Chinook Adults

Age 1 Chinook Redds

A 6/89

Entered RushPhys 9-19-91

Stream Rush Creek
Date 8/6/91
Length (M) 63.5 m
Vertical Drop (M) 1.61
Gradient (%) 2.54%
Collectors Rich
Comments

EPA Reach # 17060206004100

PROGRAM:
Stratum
Section 5
Channel Type: B

B - Confined, Sediment flushing
C - Meandered, depositional
_ - Other, see Rosgen's Channel Types

6.7 .28

Transect [1](m) from downstream	Width [1](m)	Habitat	Location on transect (l to r)	Depth [1](m)	% Substrate Class by Area: Sand 0	Gravel (up to 3")	Rubble (3" to 12")	Boulder (>12")	Bedrock
0	5.9	1	1/4	.4		90	10		
		2	1/2	.55		20	30	50	
		1	3/4	.35	30	30	40		
10	7.7	2	1/4	.1		20	20	60	
		2	1/2	.2		10	40	50	
		2	3/4	.25		30	30	40	
20	5.8	2	1/4	.2				100	
		2	1/2	.4		30	70		
		1	3/4	.5		10	30	60	
30	7.2	2	1/4	.35			20	80	
		4	1/2	.35		10	30	60	
		2	3/4	.25				100	
42	6.9	1	1/4	.5				100	
		1	1/2	.65	50			50	
		4	3/4	.45			50	50	
					80	250	370	800	

Habitat: 1 = Pool; 2 = Run; 3 = Pocket Water; 4 = Riffle; 5 = Backwater

1 = 33%
2 = 53%
4 = 14%

5% 17% 25% 53%

Entered Rush Cr 91 9-19-91

STREAM Rush Creek DATE 8/7/91 COLLECTORS Rich

Conductivity 68 µmhos Weather

EPA Reach # Comments

Temperature (H_2O) 13°C Time

Stratum Section Length (m) 58

Section 6 Section Width (m) 7.18

(n≥4) 8.2 7.4 5.9 7.2

Section Area 416.15 M^2 Visibility: (m)

METHODS: (✓) Snorkel (circle corridor or entire stream width)
( ) Electrofish
( ) Other

Length Class (in)	RAINBOW - STEELHEAD				RESIDENT SPECIES			
	Total	Wild & Natural	Adipose Clipped	Hatchery Catchabl	Cutthroat	Brook	Bull	Whtfish
< 2		19						
2		4.57/100m²						
3		1 (5) 1.20/100m²			11 (6)			
4		1111			1111			
5								
6		111 (5) 1.20/100m²			11			
7					(3)			
8		11			1			
9								
10		1 (1)			11 (2)			
11								
12					1111 (5)			
> 12 specify length					13 14 1 15			

Age 0 Chinook Adults

Age 1 Chinook Redds

A 6/89

Entered RushPhys 9-19-91

Stream Rush Creek
Date 8/7/91
Length (M) 58
Vertical Drop (M) 1.15
Gradient (%) 1.98%
EPA Reach # 17060206064100
Collectors Rich
Comments Elevation 4400' 100 yds above section 7

PROGRAM:
Stratum
Section 6
Channel Type:
B = Confined, Sediment flushing
C = Meandered, depositional
_ = Other, see Rosgen's Channel Types

7.18 .19

Transect [1](m) from downstream	Width [1](m)	Habitat	Location on transect (l to r)	Depth [1](m)	% Substrate Class by Area: Sand 0	Gravel (up to 3")	Rubble (3" to 12")	Boulder (>12")	Bedrock			
2	8.2	2	1/4	.26		20	20	60				
		2	1/2	.25		25	35	40				
		2	3/4	.25	10	60	20	10				
12	7.4	4	1/4	.30		20	60	20				
		4	1/2	.30		20	40	40				
		3	3/4	.10		25	25	50				
22	5.9	3	1/4	.30		25		75				
		2	1/2	.28	5	20	50	25				
		2	3/4	.15	10	30	40	20				
32	7.2	2	1/4	.30	10	40	20	30				
		2	1/2	.38	5	40	40	15				
		2	3/4	.17	30	30	30	10				
			1/4									
			1/2									
			3/4									
					70	355	380	395				

Habitat: 1 = Pool; 2 = Run; 3 = Pocket Water; 4 = Riffle; 5 = Backwater

2=67%
3=17%
4=16%

5% 30% 32% 33%

Entered Rush Cr 91 9-19-91

STREAM Rush Creek DATE 8/7/91 COLLECTORS Rich

Conductivity 68.4 Weather

EPA Reach # 17060206044000 Comments

Temperature (H_2O) 13°C Time 1230

Stratum Section Length (m) 54.6

Section 7 Section Width (m) 7.9
(n≥4) 8.8 7.3 7.9 7.6

Section Area 431.34 M^2 Visibility: (m) 1.5m

METHODS: (✓) Snorkel (circle corridor or entire stream width)
( ) Electrofish
( ) Other

Length Class (in)	RAINBOW - STEELHEAD				RESIDENT SPECIES			
	Total	Wild & Natural	Adipose Clipped	Hatchery Catchabl	Cutthroat	Brook	Bull	Whtfish
<2								II (2)
2								
3		I						
4		III (4) .93/100m²			IIII (8)			
5					III			
6		II			I			
7		(3) .70/100m²			I (3)			
8		I			I			
9								
10		III (3)			II (2)			
11								
12		III (3)			I (2)			I (4)
>12 specify length					13 14 I 15			13 14 III 15

Age 0 Chinook Adults

Age 1 Chinook Redds

A 6/89

Entered RushPhys 9-19-91

Stream Rush Creek
EPA Reach # 17060206004100

Date 8/7/91
Length (M) 54.6
Vertical Drop (M) 1.05
Gradient (%) 1.92

Collectors Rich
Comments Elevation 4400' 10 meters upstream from fallen tree Big boulder five meters upstream

PROGRAM:
Stratum
Section 7
Channel Type: B

B = Confined, Sediment flushing
C = Meandered, depositional
_ = Other, see Rosgen's Channel Types

7.9 ,24

Transect [1](m) from downstream	Width [1](m)	Habitat	Location on transect (l to r)	Depth [1](m)	% Substrate Class by Area: Sand 0	Gravel (up to 3")	Rubble (3" to 12")	Boulder (>12")	Bedrock
2	8.8	2	1/4	.3	10	20	50	20	
		2	1/2	.35	5	25	60	10	
		2	3/4	.2	10	50	40		
12	7.3	2	1/4	.56	20	30	20	30	
		2	1/2	.55	10	30	60		
		5	3/4	.25	50	50			
22	7.9	3	1/4	.14	5	25	25	45	
		2	1/2	.5		25	50	25	
		2	3/4	.15		100			
32	7.6	2	1/4	.26	15	35	30	20	
		2	1/2	.35	10	20	60	10	
		2	3/4	.30	20	40	40		
			1/4						
			1/2						
			3/4						
					155	450	435	160	

Habitat: 1 = Pool; 2 = Run; 3 = Pocket Water; 4 = Riffle; 5 = Backwater

2 = 84%
3 = 8%
5 = 8%

13% 38% 36% 13%

Entered Rush Cr91 9-19-91

STREAM Rush Creek DATE 8/7/91 COLLECTORS Rich

Conductivity _____ Weather _____

EPA Reach # 17060206U4100 Comments _____

Temperature (H_2O) Time _____

Stratum _____ Section Length (m) 54.5

Section 8 Section Width (m) 7.42

(n≥4) 6.9 7.3 8.3 6.9 7.7

Section Area 404.39 M^2 Visibility: (m) _____

METHODS: (✓) Snorkel (circle corridor or entire stream width)
( ) Electrofish
( ) Other _____

Length Class (in)	RAINBOW - STEELHEAD				RESIDENT SPECIES			
	Total	Wild & Natural	Adipose Clipped	Hatchery Catchabl	Cutthroat	Brook	Bull	Whtfish
<2		12 (2.97/100m²)						1
2								
3					11			1
4		7 (1.73/100m²)			15			1
5		3			4			
6		7 (1.73/100m²)			3			
7		1			1			
8		3			2			
9								
10		1			3			1
11								
12					2			1
>12 specify length					13 1 14 1 15 (4)			13 14 1 22 (1)

Age 0 Chinook _____ Adults

Age 1 Chinook _____ Redds

A 6/89

Entered Rush Plugs 9-19-91

Stream Rush Creek | Date 8/7/91 | Collectors Rich

Length (M) 54.5 | Comments

EPA Reach # 17060206041UD | Vertical Drop (M) 1.3

Gradient (%) 2.39%

PROGRAM:

Stratum

Section B

Channel Type: B

B = Confined, Sediment flushing

C = Meandered, depositional

_ = Other, see Rosgen's Channel Types

7.42 .19

Transect [1] (m) from downstream	Width [1] (m)	Habitat	Location on transect (l to r)	Depth [1] (m)	% Substrate Class by Area: Sand 0	Gravel (up to 3")	Rubble (3" to 12")	Boulder (>12")	Bedrock			
3	6.9	2	1/4	.25	10	20	40	30				
		2	1/2	.26	20	50	20	10				
		2	3/4	.15	15	50	25	10				
13	7.3	4	1/4	.3		30	40	30				
		3	1/2	.1		65	10	25				
		4	3/4	.2		20	40	40				
23	8.3	2	1/4	.2		70	20	10				
		2	1/2	.2	5	35	30	30				
		2	3/4	.25		70	10	20				
31	6.9	1	1/4	.3		40	50	10				
		2	1/2	.165		50	20	30				
		5	3/4	.14	50	20	30					
41	7.7	2	1/4	.2	40		20	40				
		2	1/2	.35	10	40	25	25				
		2	3/4	.27	10	40	30	25				
					160	600	410	330				

Habitat: 1 = Pool; 2 = Run; 3 = Pocket Water; 4 = Riffle; 5 = Backwater

11% 40% 27% 22%

1 = 7%

2 = 67%

3 = 7%

4 = 12%

5 = 7%

Entered Rush Cr 91 9-19-97

STREAM Rush Creek DATE 8/7/91 COLLECTORS Rich

Conductivity 79.4 µmhos Weather

EPA Reach # 17060206 04100 Comments

Temperature (H_2O) 17 Time 1800

Stratum Section Length (m) 50.2

Section 9 Section Width (m) 7.3

(n≥4) 7.7 6.7 7.6 6.7 7.7

Section Area 366.46 M^2 Visibility: (m)

METHODS: (✓) Snorkel (circle corridor or entire stream width)
( ) Electrofish
( ) Other

Length Class (in)	RAINBOW - STEELHEAD				RESIDENT SPECIES			
	Total	Wild & Natural	Adipose Clipped	Hatchery Catchabl	Cutthroat	Brook	Bull	Whtfish
<2		6 (1.64/100m²)						
2								
3		1 (5) (1.36/100m²)			11 (13)			
4		111			////// 1111			
5		1			11			
6		111 (5) (1.36/100m²)						
7		11			1 (1)			
8								
9								
10								
11		1						
12								
>12 specify length								

Age 0 Chinook Adults

Age 1 Chinook Redds

A 6/89

Entered Rush1.Phys 9-19-91

Stream Rush Creek
Date 8/7/91
Length (M) 50.2
Vertical Drop (M) 1.17
Gradient (%) 2.33%
Collectors Rich
Comments

EPA Reach # 17060206041 00

PROGRAM:
Stratum
Section 9
Channel Type: B

B = Confined, Sediment flushing
C = Meandered, depositional
_ = Other, see Rosgen's Channel Types

7.3 ,20

Transect [1](m) from downstream	Width [1](m)	Habitat	Location on transect (l to r)	Depth [1](m)	% Substrate Class by Area: Sand 0	Gravel (up to 3")	Rubble (3" to 12")	Boulder (>12")	Bedrock
5	7.7	2	1/4	.4		25	60	15	
		2	1/2	.3	10	20	60	10	
		3	3/4	.14	50	50			
10	6.7	2	1/4	.4		45	45	10	
		3	1/2	.35		40	35	25	
		3	3/4	.42	10	15	25	50	
20	7.6	3	1/4	.1			20	80	
		4	1/2	.22		40	40	20	
		2	3/4	.2	10	20	50	20	
30	6.7	2	1/4	.2	10	20	40	30	
		4	1/2	.2	20	10	50	20	
		2	3/4	.25	10	20	20	50	
40	7.7	2	1/4	.25		20	70	10	
		3	1/2	.35	5	15	20	60	
		2	3/4	.28	10	30	60		
					135	370	595	400	

Habitat: 1 = Pool; 2 = Run; 3 = Pocket Water; 4 = Riffle; 5 = Backwater

2 = 53%
3 = 33%
4 = 14%

9% 25% 40% 27%

Entered Rushtr 91 9-1991

STREAM Rush Creek DATE 8/8/91 COLLECTORS Rich

Conductivity 73.6 Weather

EPA Reach # 170602060410O Comments

Temperature (H_2O) 16 Time 1000

Stratum Section Length (m) 69.5

Section 10 Section Width (m) 7.38

(n≥4) 6.9 8.4 4.7 8.0 8.9

Section Area 512.91 M^2 Visibility: (m) 2.2

METHODS: (✓) Snorkel (circle corridor or (entire) stream width)
( ) Electrofish
( ) Other

Length Class (in)	RAINBOW - STEELHEAD				RESIDENT SPECIES			
	Total	Wild & Natural	Adipose Clipped	Hatchery Catchabl	Cutthroat	Brook	Bull	Whtfish
<2		11 (7) 1.36/100m²						
2								
3		1			1			
4		11 (13) 2.53/100m²			6			
5								
6		1111			1			
7		1111 (9) 1.75/100m²			(3)			
8		1			11			
9		11						
10		(2)			1111 (5)			
11					1			
12					1 (4)			
>12 specify length					13 1 (2) 14 11 16 11 15 18 1 (1)			13 1 (1)

Age 0 Chinook Adults

Age 1 Chinook Redds

A 6/89

Entered RunPhys 7-17-91

Stream Rush Creek
Date 8/8/91
Length (M) 69.5
Vertical Drop (M) 1.82
Gradient (%) 2.62%
Collectors Rich
Comments

EPA Reach # 17060206004100

PROGRAM:
Stratum
Section 10
Channel Type: B

B = Confined, Sediment flushing
C = Meandered, depositional
_ = Other, see Rosgen's Channel Types

7.38 .32

Transect [1](m) from downstream	Width [1](m)	Habitat	Location on transect (l to r)	Depth [1](m)	% Substrate Class by Area: Sand 0	Gravel (up to 3")	Rubble (3" to 12")	Boulder (>12")	Bedrock			
5	6.9	1	1/4	.75	30	40	30					
		2	1/2	.6	10	60	30					
		1	3/4	.25		100						
15	8.4	1	1/4	.43		40	60					
		2	1/2	.65		30	60	10				
		1	3/4	.55	50	30	20					
25	4.7	2	1/4	.1			10	10	80			
		4	1/2	.55		40		60				
		2	3/4	.55		10	10	80				
35	8.0	2	1/4	.3	10	10	20	60				
		4	1/2	.35			70	30				
		4	3/4	.3		10	70	20				
45	8.9	5	1/4	.25		20	30	50				
		2	1/2	.3		10	40	50				
		4	3/4	.4			30	50	20			
					100	400	480	420	100			

Habitat: 1 = Pool; 2 = Run; 3 = Pocket Water; 4 = Riffle; 5 = Backwater

1 = 27%
2 = 40%
3 =
4 = 26%
5 = 7%

7% 27% 32% 27% 7%

D 907

Entered RushCr91 9-19-91

STREAM Rush Creek DATE 8/8/91 COLLECTORS Rich

Conductivity 79.3 Weather

EPA Reach # 170602060411DD Comments

Temperature 16 @ 1930

Stratum Section Length (m) 52

Section 11 Section Width (m) 7.44

(n≥4) 6.3 7.8 7.3 7.2 8.6

Section Area 386.88 M^2 Visibility: (m) 2.8

METHODS: (✓) Snorkel (circle corridor or (entire) stream width)
( ) Electrofish
( ) Other

Length Class (in)	RAINBOW - STEELHEAD				RESIDENT SPECIES			
	Total	Wild & Natural	Adipose Clipped	Hatchery Catchabl	Cutthroat	Brook	Bull	Whtfish
< 2		1111 (39) 10.08/100m²						
2								1
3								
4		1 (8) 2.07/100m²			1 (1)			
5		11			11			
6		11 1.29/100m²						
7		111 (5)			(3)			
8					111			
9		1 (1)						
10					1 (1)			
11						1		
12					1 (1)			
> 12 specify length					16 1 18 1 (2)			15 1 18 11
Age 0 Chinook						Adults		
Age 1 Chinook						Redds		

A 6/89

Entered RushFlux 9-19-91

Stream Rush Creek
Date 8/8/91
Length (M) 52
Vertical Drop (M) .7
Gradient (%) 1.35
Collectors Rich
Comments

EPA Reach # 17060206040 00

PROGRAM:
Stratum
Section 11
Channel Type: B

B = Confined, Sediment flushing
C = Meandered, depositional
_ = Other, see Rosgen's Channel Types

7.44 .18

Transect [1](m) from downstream	Width [1](m)	Habitat	Location on transect (l to r)	Depth [1](m)	% Substrate Class by Area: Sand 0	Gravel (up to 3")	Rubble (3" to 12")	Boulder (>12")	Bedrock
5	6.3	2	1/4	.35		70	20	10	
		2	1/2	.25	10	30	20	40	
		2	3/4	.12	5	95			
15	7.8	2	1/4	.28	5	35	35	25	
		2	1/2	.05				100	
		2	3/4	.31	5	75	20		
25	7.3	4	1/4	.22		20	40	40	
		3	1/2	.28		10	80	10	
		2	3/4	.15	5	45	40	10	
35	7.2	2	1/4	.28	15	45	30	10	
		4	1/2	.30	5	65	30		
		4	3/4	.14		60	40		
45	8.6	1	1/4	.48		25	50	25	
		2	1/2	.33	5	65	30		
		2	3/4	.15	5	70	25		
					60	710	460	270	
					4%	47%	31%	18%	

Habitat: 1 = Pool; 2 = Run; 3 = Pocket Water; 4 = Riffle; 5 = Backwater

1=7%
2=67%
3=7%
4=19%

5/89

Entered RushCr91 9-19-91

STREAM Rush Creek DATE 8/8/91 COLLECTORS Rich

Conductivity 79.3 Weather

EPA Reach # 17060206041000 Comments Mouth at Big Creek

Temperature (H_2O) 16 Time 1825 Elev 3820'

Stratum Section Length (m) 50

Section 12 Section Width (m) 8.42

(n≥4) 6.8 6.5 8.1 9.6 11.1

Section Area 421 M^2 Visibility: (m) 1.4

METHODS: (✓) Snorkel (circle corridor or entire stream width)
( ) Electrofish
( ) Other

Length Class (in)	RAINBOW - STEELHEAD				RESIDENT SPECIES			
	Total	Wild & Natural	Adipose Clipped	Hatchery Catchabl	Cutthroat	Brook	Bull	Whtfish
< 2		IIII IIII IIII III (18) 4.28/100m²						1 (5)
2								IIII
3					1 (1)			
4		11 (4) .95/100m²						
5		11						
6								
7		1 (2) .48/100m²						
8		1						
9								1 (1)
10		1 (1)			1 (1)			
11								
12					1 (1)			
> 12 specify length						16 1		18 1

Age 0 Chinook Adults

Age 1 Chinook Redds

A 6/89

Entered Rush Fin: 9-19-91

Stream Rush Creek
Date 8/8/91
Length (M) 50
Collectors Rich
Comments

EPA Reach # 17060206040/60
Vertical Drop (M) 1.3
Gradient (%) 2.6%

PROGRAM:
Stratum
Section 12
Channel Type: B

B = Confined, Sediment flushing
C = Meandered, depositional
_ = Other, see Rosgen's Channel Types

8.42 .17

Transect [1](m) from downstream	Width [1](m)	Habitat	Location on transect (l to r)	Depth [1](m)	% Substrate Class by Area: Sand 0	Gravel (up to 3")	Rubble (3" to 12")	Boulder (>12")	Bedrock
5	6.8	2	1/4	.25		40	50	10	
		2	1/2	.35		60	40		
		2	3/4	.25		60	30	10	
15	6.5	4	1/4	.25		50	20	30	
		2	1/2	.20		50	50		
		4	3/4	.25		70	30		
25	8.1	2	1/4	.2		50	20	30	
		2	1/2	.2		60	20	20	
		2	3/4	.2		60	30	10	
35	9.6	2	1/4	.1		60	40		
		2	1/2	.25	5	45	40	10	
		2	3/4	.2	10	50	20	20	
48	11.1	2	1/4	.2	10	70	20		
		2	1/2	.22	5	75	20		
		2	3/4	.18	5	85	10		
					35	885	440	140	

Habitat: 1 = Pool; 2 = Run; 3 = Pocket Water; 4 = Riffle; 5 = Backwater

2 = 83%
4 = 17%

2% 59% 29% 10%

D 907

Entered Ruth's 91 9-19-91

STREAM South Fork Rush Creek DATE 8/6/91 COLLECTORS Rich

Conductivity 96.3 Weather

EPA Reach # 17060206042000 Comments conductivity high.

Temperature 8.5°C 11:30 am

Stratum Section Length (m) 51.5

Section 1 Section Width (m) 2.98

(n≥4) 2.6 2.6 3.2 2.7 3.3 3.5

Section Area 153.6 M^2 Visibility: (m) 10

METHODS: (✓) Snorkel (circle corridor or entire stream width)
( ) Electrofish
( ) Other

Length Class (in)	RAINBOW - STEELHEAD				RESIDENT SPECIES			
	Total	Wild & Natural	Adipose Clipped	Hatchery Catchabl	Cutthroat	Brook	Bull	Whtfish
<2								
2								
3								
4						1	1	
5								
6								
7		1						
8							1	
9								
10								
11								
12								
>12 specify length								

1 30.5

Age 0 Chinook Adults

Age 1 Chinook Redds

A 6/89

Entered Rich Phys 9-19-91

Stream South Fork Rush Creek Date 8/6/91 Collectors Rich

Length (M) 51.5 Comments

EPA Reach # 17060206004200 Vertical Drop (M) 2.14

Gradient (%) 4.16

PROGRAM:

Stratum

Section 1

Channel Type:

B = Confined, Sediment flushing
C = Meandered, depositional
_ = Other, see Rosgen's Channel Types

2.98 ,12

Transect [1](m) from downstream	Width [1](m)	Habitat	Location on transect (l to r)	Depth [1](m)	% Substrate Class by Area: Sand 0	Gravel (up to 3")	Rubble (3" to 12")	Boulder (>12")	Bedrock
0	2.6	2	1/4	.09		70	30		
		3	1/2	.12		80	10	10	
		2	3/4	.20		75	25		
7	2.6	4	1/4	.20		25	50	25	
		4	1/2	.20		25	25	50	
		4	3/4	.15		60	30	10	
14	3.2	2	1/4	.10		45	45	10	
		2	1/2	.12		30	30	40	
		3	3/4	.08		40	50	10	
21	2.7	1	1/4	.35		20	80		
		2	1/2	.22		75	25		
		1	3/4	.20		60	20	20	
28	3.3	2	1/4	.14		30	40	30	
		2	1/2	.15		60	30	10	
		2	3/4	.14		50	40	10	
		4		.08		40	60		
		2		.15		50	50		
		2		.20		40	60		
						875	700	225	
						49%	39%	12%	

Habitat: 1 = Pool; 2 = Run; 3 = Pocket Water; 4 = Riffle; 5 = Backwater

35 | 3.5

Top 51.5

1 = 11%
2 = 56%
3 = 11%
4 = 22%

D 907

Entered Rush Cr 21 9-19-91

STREAM Lewis Creek DATE 8/8/91 COLLECTORS Rich

Conductivity 55.7 μmhos Weather

EPA Reach # M6020604100 Comments No insects

Temperature 10°

Stratum Section Length (m) 50.5

Section Mouth Section Width (m) 4.16

(n≥4) 3.3 4.3 5.1 4.6 3.5

Section Area 210.08 M² Visibility: (m) > 5m

METHODS: (✓) Snorkel (circle corridor or entire stream width)
( ) Electrofish
( ) Other

Length Class (in)	RAINBOW - STEELHEAD				RESIDENT SPECIES			
	Total	Wild & Natural	Adipose Clipped	Hatchery Catchabl	Cutthroat	Brook	Bull	Whtfish
< 2								
2								
3		11 (4) 1.90/100m²						
4								
5		11						
6					1			
7					(1)	(1)		
8						1		
9								
10								
11								
12					1 (1)			
> 12 specify length								

Age 0 Chinook Adults

Age 1 Chinook Redds

A 6/89

Stream Lewis Creek
Date 8/8/91
Length (M) 50.5
Vertical Drop (M) 2.54
Gradient (%) 5.03%
Collectors Rich
Comments

EPA Reach # 17060206040U

PROGRAM:
Stratum
Section Mouth
Channel Type: B

B = Confined, Sediment flushing
C = Meandered, depositional
_ = Other, see Rosgen's Channel Types

4.16 .14

Transect [1](m) from downstream	Width [1](m)	Habitat	Location on transect (l to r)	Depth [1](m)	% Substrate Class by Area: Sand 0	Gravel (up to 3")	Rubble (3" to 12")	Boulder (>12")	Bedrock
2	3.3	2	1/4	.15		40	60		
		2	1/2	.18		20	40	40	
		2	3/4	.20	10	20	30	40	
9	4.3	2	1/4	.02		50	50		
		2	1/2	.13		40	60		
		2	3/4	.20		30	70		
17	5.1	1	1/4	.30	30	40	30		
		1	1/2	.33		20	40	40	
		1	3/4	.15	20	10	30	40	
24	4.6	2	1/4	.15			40	60	
		4	1/2	.23			80	20	
		2	3/4	.13		60	40		
31	3.5	2	1/4	.17		10	30	60	
		2	1/2	.25	20	60	20		
		2	3/4	.15	10	20	40	30	
					90	420	660	330	

Habitat: 1 = Pool; 2 = Run; 3 = Pocket Water; 4 = Riffle; 5 = Backwater

1= 20%
2= 73%
4= 7%

6% 28% 44% 22%

A 6/89

Entered RushPlus 9-19-91

Stream Rush Creek Date 8/5/91 Collectors Rich

EPA Reach # 17060206004100 Length (M) 48.2 Comments

Vertical Drop (M) .85 m

Gradient (%) 1.76

PROGRAM:

Stratum

Section 1

Channel Type:

B = Confined, Sediment flushing
C = Meandered, depositional
_ = Other, see Rosgen's Channel Types

4.3 Z

.13

Transect 1(m) from downstream	Width 1(m)	Habitat	Location on transect (l to r)	Depth 1(m)	% Substrate Class by Area: Sand 0	Gravel (up to 3")	Rubble (3" to 12")	Boulder (>12")	Bedrock
3	6.4	4	1/4	.15	20	20	30	30	
		4	1/2	0.1		30	70		
		4	3/4	.08		50	50		
10	4.2	2	1/4	.17	5	80	15		
		2	1/2	.15	5	90	5		
		2	3/4	.15	10	60	30		
17	3.1	5	1/4	.25	50	25	25		
		2	1/2	.4		50	20	30	
		2	3/4	.25				100	
24	3.7	4	1/4	.1	5	50	20	25	
		4	1/2	.2		50	20	30	
		4	3/4	.15		50	50		
31	4.2	3	1/4	.14		70	30		
		4	1/2	.15		100			
		3	3/4	.17		100			
					95	825	365	215	

Habitat: 1 = Pool; 2 = Run; 3 = Pocket Water; 4 = Riffle; 5 = Backwater

Top 48.2

2 = 33%
3 = 13%
4 = 54%

6% 55% 24% 15%

"Rite in the Rain"®

ALL-WEATHER

LEVEL

Notebook No. 311

RUSH CR
1991

"Rite in the Rain" - A unique All-Weather Writing Paper created to shed water and enhance the written image. It is widely used throughout the world for recording critical field data in all kinds of weather.

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TACOMA, WA 98421-3696 USA

1- Pool
2- Run
3- Pocket w.
4- Riffle
5- Backwater

START - 12:30 pm

Wed- August 7

Section 7

Rush Creek

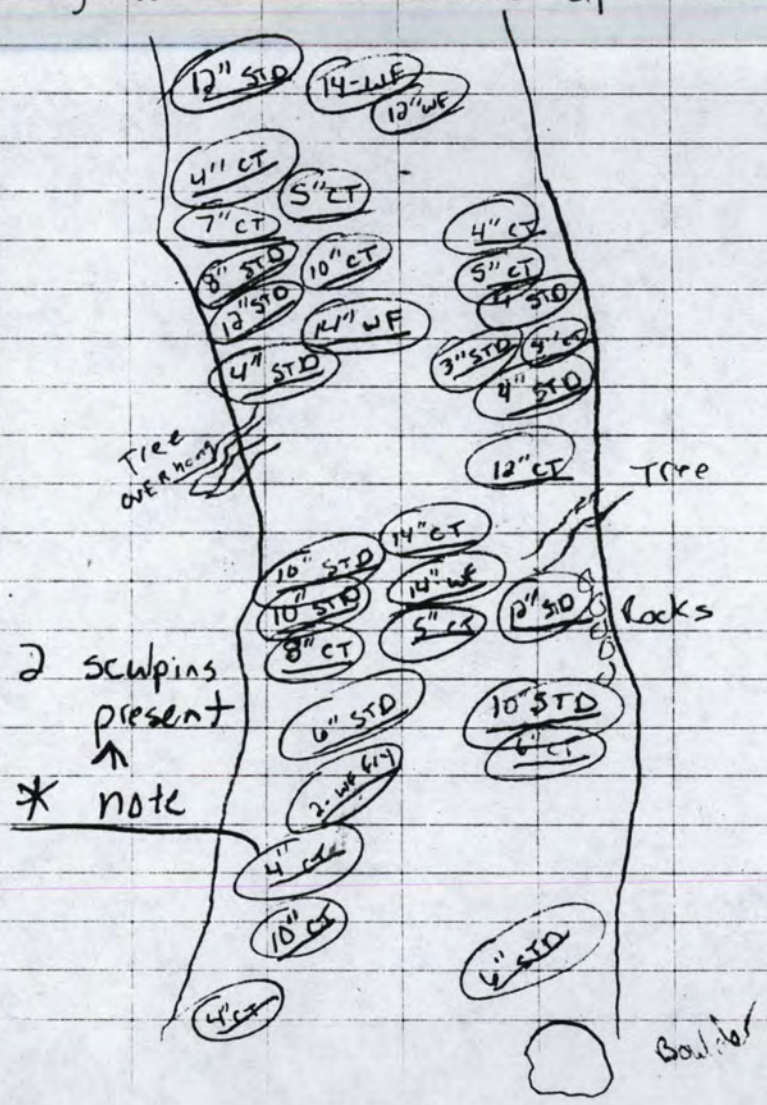
Visibility	1.5m
Temp	13°C
Cond.	68.4
Vertical drop	1.05

Site Description

Elevation - 4400

10 meters up from fallen tree.

Big boulder five meters upstream



Start From Bottom	Width	Depth	Hab	S	G	R	B	Bed
2	8.8	.3	2	10	20	50	20	
		.35	2	5	25	60	10	
		.2	2	10	50	40		
12	7.3	.56	2	20	30	20	30	
		.55	2	10	30	60		
		.25	5	50	50			
22	7.9	.14	3	5	25	25	45	
		.5	2		25	50	25	
		.15	2		100			
32	7.6	.26	2	15	35	30	20	
		.35	2	10	20	60	10	
End 22.6		.30	2	20	40	40		

TOTAL 54.6

12 12 STD / 412.5 m² = 3/103 m²

255
75
275
3850
4125

START 1:15

Aug 7

Section 6

Visibility -

Temp -

Cond -

Vertical drop - 1:15

$\begin{array}{r} 2.75 \\ 4\overline{)11.30^{2}} \end{array}$ 11 12 stno / 430.2 m²

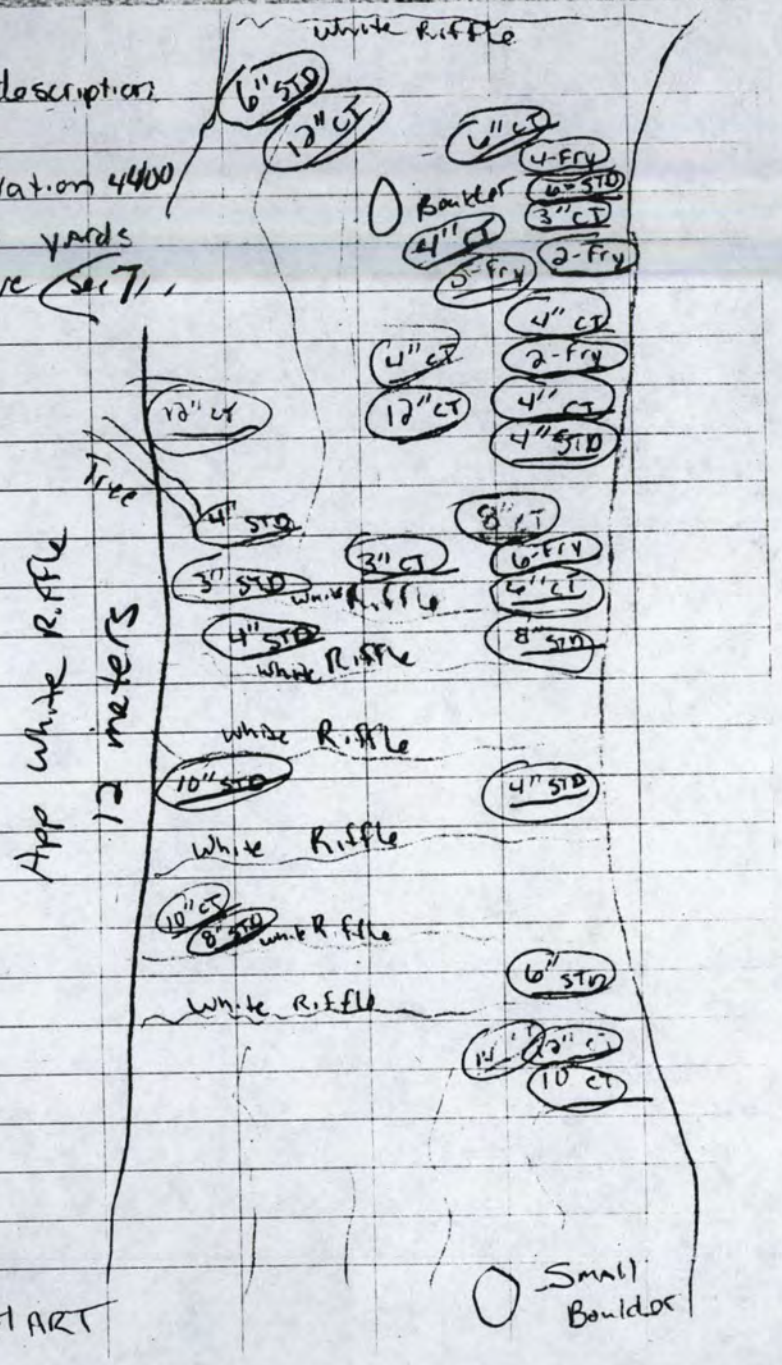
= 2.75 / 107 m²
12 stno

Site description:

Elevation 4400

100 yards

Above Sec 7



August 8 11:45

Section 1
Lewis Creek

START From Bottom	Width	Depth	Hab	S	G	R	B	Bed
2	8.2	.26	2		20	20	60	
		.25	2		25	35	40	
		.25	2	10	60	20	10	
12	7.4	.30	4		20	60	20	
		.30	4		20	40	40	
		.10	3		25	25	50	
22	5.9	.30	3		25		75	
		.28	2	5	20	50	25	
		.15	2	10	30	40	20	
32	7.2	.30	2	10	40	20	30	
		.38	2	5	40	40	15	
		.17	2	30	30	30	10	

Sculpin Present

* note

End length 26

Total = 58

8.2
7.4
5.9
7.2
4 | 28.7
$\bar{x}$ = 7.4 m width

7.4 × 58

58
7.4
232
4060
4302

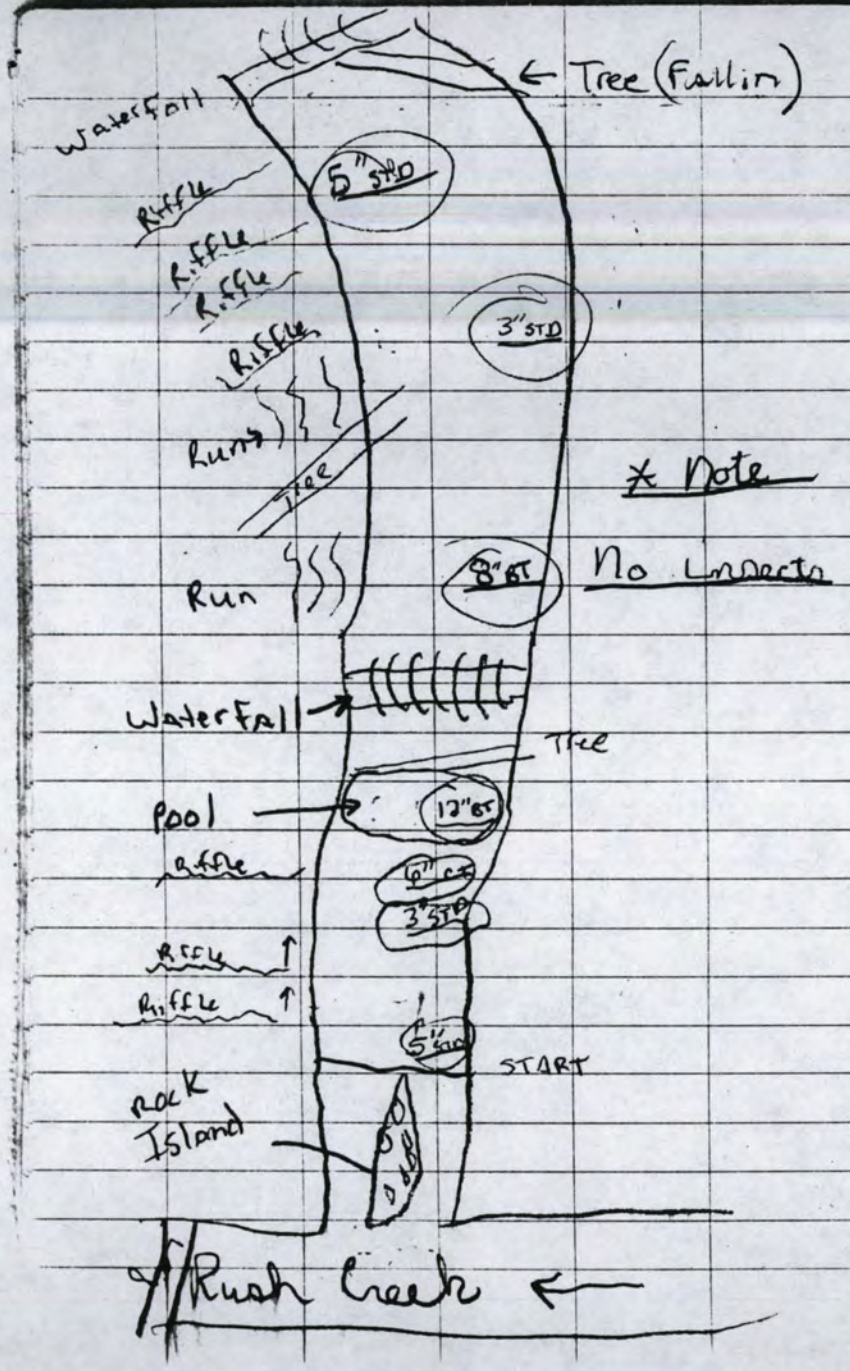
Temp 10°C
Cond 55.7
Visibility - > 5 meters
Vertical drop - 2.54

① 1.42
② 1.17

Lewis Creek

site description -
Elevation -
12 meters above Rush Creek (mouth)

Special Comments - No insects



* Note
No Insects

start from bottom	width	#	depth	S	G	R	B	Bed
2	3.3	2	.15			4Ø	6Ø	
		2	.18			2Ø	4Ø	4Ø
		2	.2Ø	1Ø		2Ø	3Ø	4Ø
9	4.3	2	.Ø2			5Ø	5Ø	
		2	.13			4Ø	6Ø	
		2	.2Ø			3Ø	7Ø	
17	5.1	1	.3Ø	3Ø		4Ø	3Ø	
		1	.33			2Ø	4Ø	4Ø
		1	.15	2Ø		1Ø	3Ø	4Ø
24.	4.6	2	.15				4Ø	6Ø
		4	.23				8Ø	2Ø
		2	.13			6Ø	4Ø	
31.	3.5	2	.17			1Ø	3Ø	6Ø
		2	.25	2Ø		6Ø	2Ø	
End =	19.5	2	.15	1Ø		2Ø	4Ø	3Ø

Total = 50.5

SMD 12D ≙ 2/100m²

"Rite in the Rain"®

ALL-WEATHER

LEVEL

Notebook No. 311

RUSH CR. EVALUATION
Aug 4-10, 1991
The mother of all trips
BRUCE RICH

"Rite in the Rain" - A unique All-Weather Writing Paper created to shed water and enhance the written image. It is widely used throughout the world for recording critical field data in all kinds of weather.

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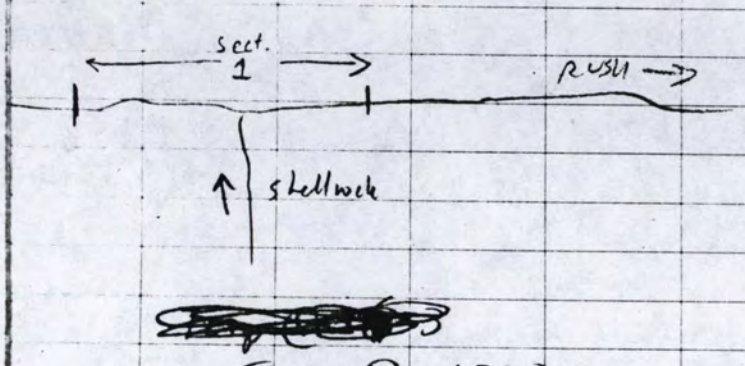
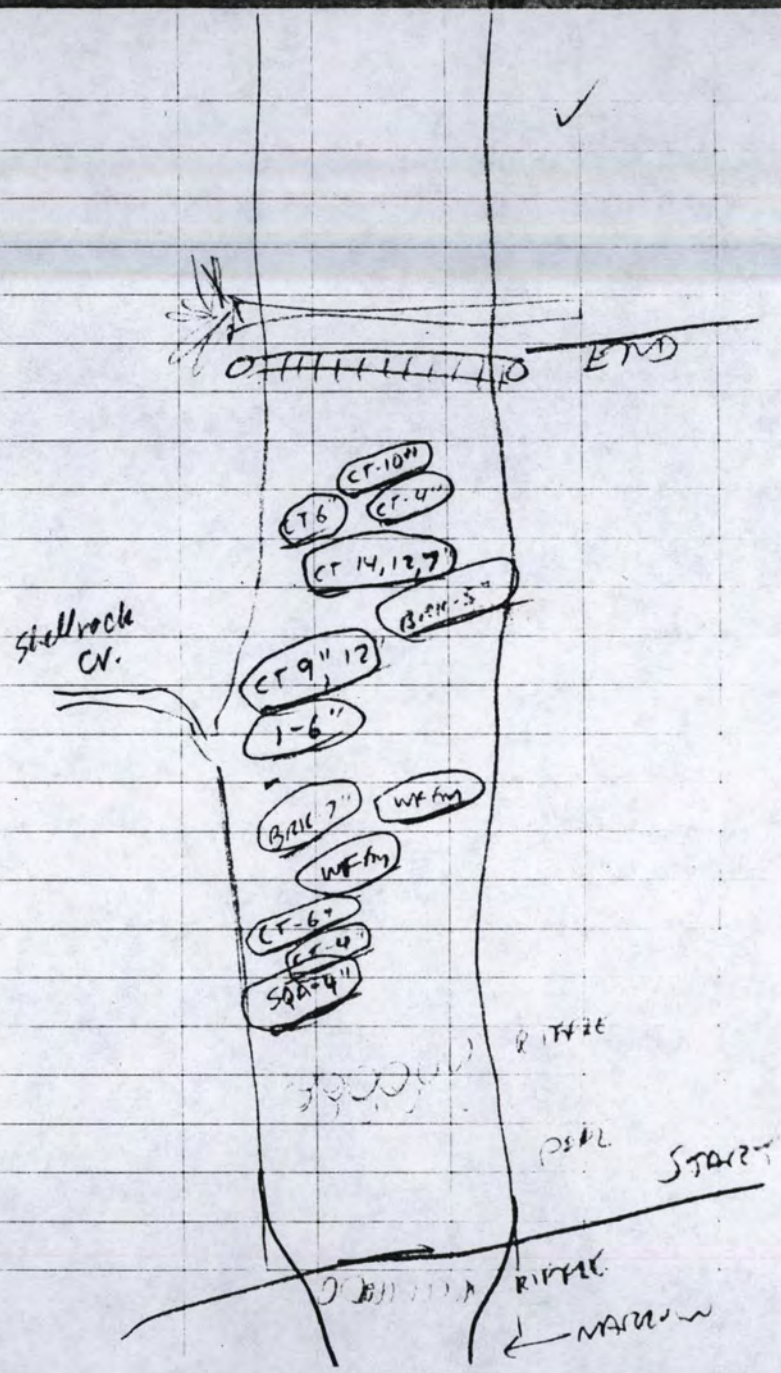
RUSH CR. 8/5/91

SECTION 1



Temp @ 1830
10°C
Conductivity 69.7 umhos



Dist from bottom [redacted] ✓	Width	Depth	Hab	S (organic silt)	G	R	B	SAK
3	6.4	.15	4	20	20	30	30	
		0.1	4		30	70		
		.08	4		50	50		
10	4.2	.17	2	5	80	15		
		.15	2	5	90	5		
		.15	2	10	60	30		
17	3.1	.25	5	50	25	25		
		.4	2		50	20	30	
		.25	2				100	
24	3.7	.1	4	5	50	20	25	
		.2	4		50	20	30	
		.15	4		50	50		
31	4.2	.14	3		70	30		
		.15	4		100			
		.17	3		100			

+17.2
48.2m total length.

1.75 1.1 6.65
1.75 1.55 = 0.2

1.76% gradient [0.85m / 48.2m]

VISIBILITY ~ 1.0m
need to be 13" away to ID
CUTT vs. STND

Pool - 1 ✓
Run - 2
Pocket H2O - 3
Riffle - 4
Backwater - 5

RUSH CK 1

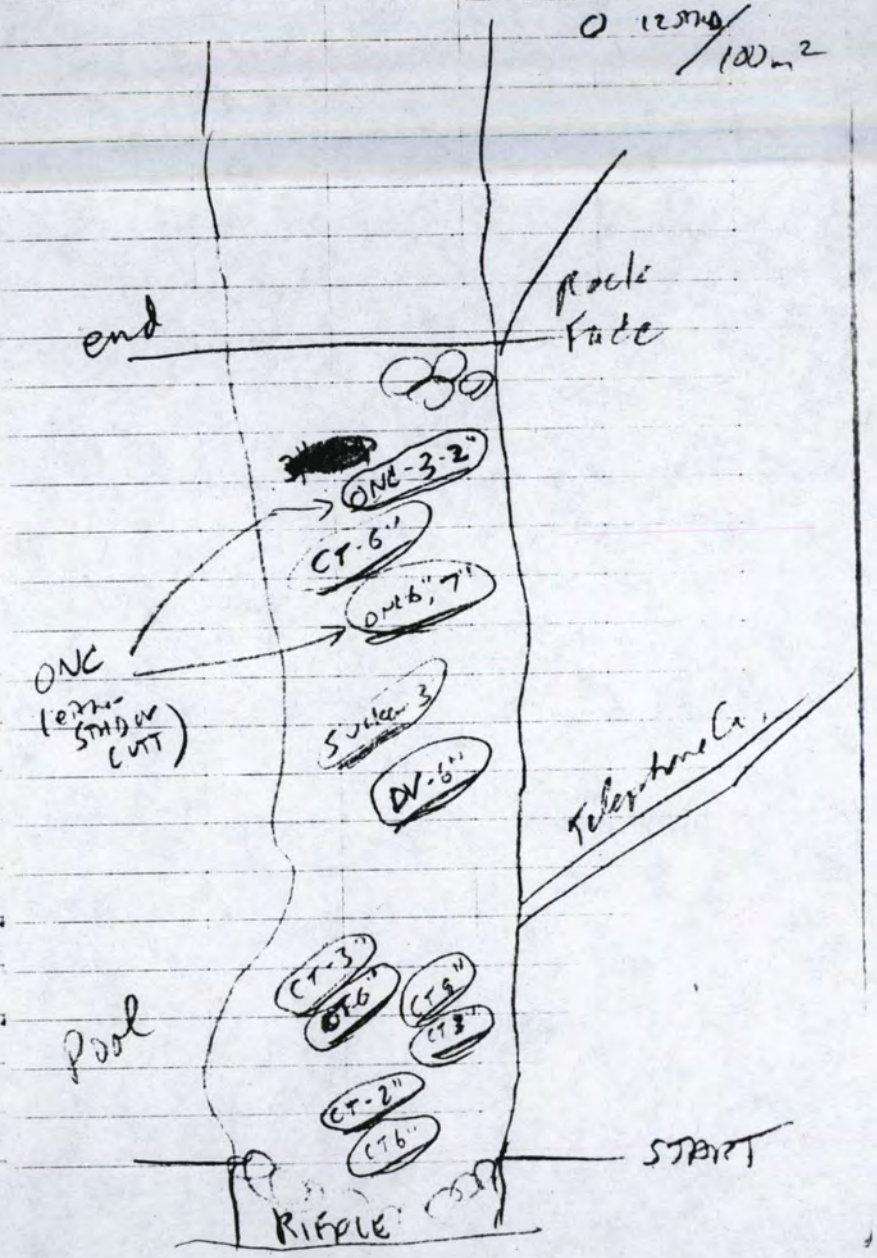
50m × 4 = 200m²
1 stnd

= 0.5 (12.5 ft.) / 100m²

8/5/91

RUSH CR SECTION 2

0 12 mg/100 m²



8/6/91

SOUTH FORK RUSH CR. SEC. 1

SECTION 2

START @ mouth gauckel upstream ___ m.

1 person snorkel - George Schemer

Temp 8.5°C 11:30 am

Conductivity 96.3 mhos

Temp 11°C Cond 53.2 mhos @ 2000 hrs.

Suspiciously high, considering granite clear.

VISIBILITY 1.1m

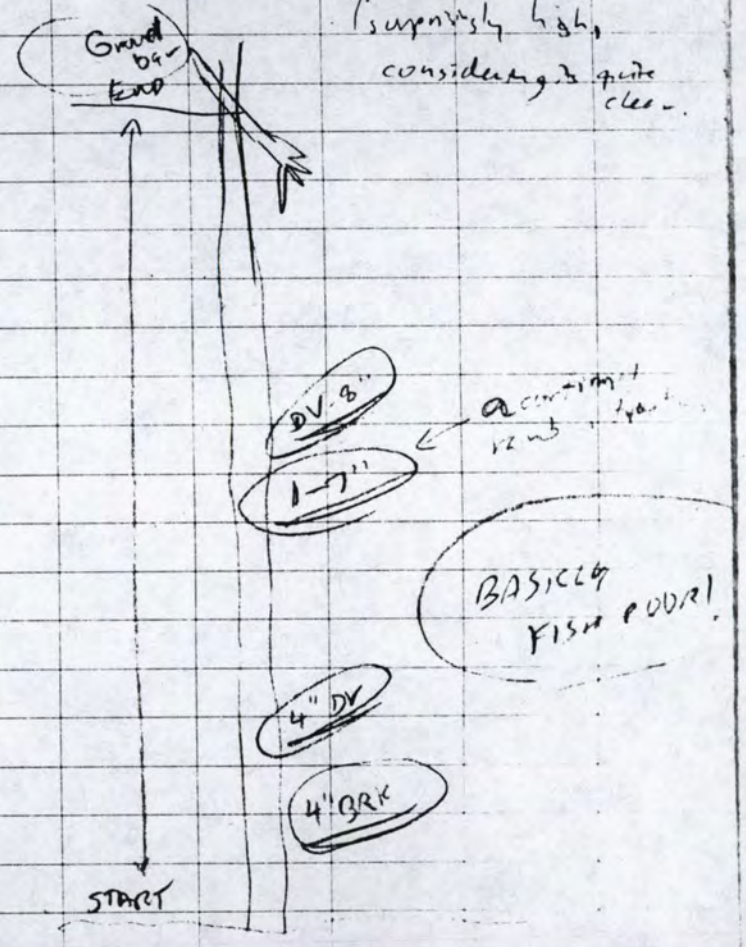
Dist from Start	Width	Depth	Hab	S	G	R	B	Brk
0	5.0	.2	2		60	20	20	
		.2	2		95	5		
		.15	2		90	10		
7	3.8	.35	5	40	40	20		
		.6	2	10	20	40	30	
		.25	3		60	40		
14	3.8	.15	4		40	40	20	
		.17	4		50	20	30	
		.2	2		50	50		
21	4.8	.15	2		60	20	20	
		.2	3		70	30		
		.2	2		30	40	30	
28	3.9	.28	2		80	20		
		.22	2		60	30	10	
		.14	2		30	10	60	

+24.7 to top

52.7m

Drop .65 + .85 = 1.5m

1.5m / 52.7m



SOUTH FORK RUSH CR. SECT. 1

Pt from start	Width	Depth/Hab	S	G	R	B	Brk
0	2.6	0.09	2	70	30		
		0.12	3	80	10	10	
		0.2	2	75	25		
7	2.6	0.2	4	25	50	25	
		0.2	4	25	25	50	
		0.15	4	60	30	10	
14	3.2	0.1	2	45	45	10	
		0.12	2	30	30	40	
		0.08	3	40	50	10	
21	2.7	0.35	1	20	80		
		0.22	2	75	25		
		0.2	1	60	20	20	
28	3.3	0.14	2	30	70	30	
		0.15	2	60	30	10	
		0.14	2	50	40	10	
35	3.5	0.08	4	40	60		
		0.15	2	50	50		
		0.2	2	40	60		

+ 16.5 Depth top

51.5 m total length

2.14 m deep / 51.5

Visibility >5m. (probably 10)

8/6/91 ✓

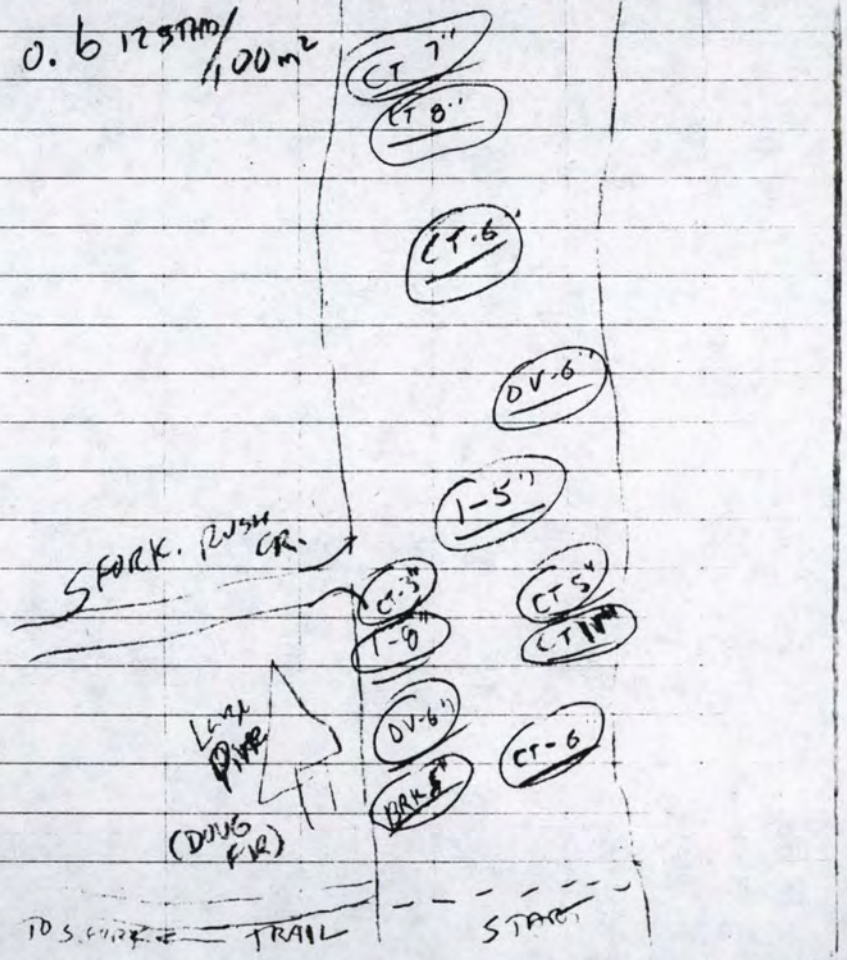
RUSH CR. SECTION 3

START ~ 20m below SFork mouth, shoulder

upstream — m.

2/300 m²

0.6 12 STHD/100 m²



RUSH CR. SECT. 3

Dist from top	Width	Depth	Hab	S	G	R	B	Brk
5.0	5.7	.25	2		30	70		
		.18	2		20	80		
		.2	2		10	40	50	
15.0	5.3	.3	1		60	30	10	
		.3	1		60	40		
		.27	2		10	50	40	
25.0	4.3	.2	2		10	40	50	
		.3	4		20	40	40	
		.1	2			40	60	
35.0	5.5	.2	2			50	50	
		.2	2		30	40	30	
		.15	2		50	50		
45.0	5.1	.35	1		●	50	50	
		.42	2		20	50	30	
		.25	1		70	30		
+16.5								
61.5m total length		Drop .92+.27 = 1.19						
		1.19m drop / 61.5m						

.92
.27
1.19

SUBSTRATE NOTE:
in pools 100% of substrate is covered by grey silt.

RUSH CR. SECT. 5

(BELOW WEST FORK)

8/6/91
We've been on Rush Cr 28 hours and the visibility has not improved despite levels and precipitation. Cal Trans there has been some very late afternoon Thundershowers noted may be more snow in the higher altitude headwaters.

Site description
13 marks walk downstream from West Fork
Start at large boulder on N. side leaning away from creek.
Sinkhole ↑ 5m 6'5m. Tree up in left bank marked w/ 2 white ribbons around trunk.
Lower end marked w/ ribbons on both sides.
Whole sight has just 4 trees. 4 long talus slopes w/ 2 low precipitation

Physicals Rush Cr. # 5

Dist from top	Width	Dep	Hab	S	G	R	B	Brk
0	5.9	.4	1		90	10		
		.55	2		20	30	50	
		.35	1	30	30	40		
10	7.7	.1	2		20	20	60	
		.2	2		10	40	50	
		.25	2		30	30	40	
20	5.8	.2	2				100	
		.4	2		30	70		
		.5	1		10	30	60	
30	7.2	.35	2			20	80	
		.35	4		10	30	60	
		.25	2				100	
42	6.9	.5	1				100	
		.65	1	50		[illegible]	50	
		.45	4			50	50	

21.5

63.5 total length

Foyt ht. 1.92

1.92 − .95 = .97

Drop .64 + .97 = 1.61

.64 + .97

1.61 drop/63.5m

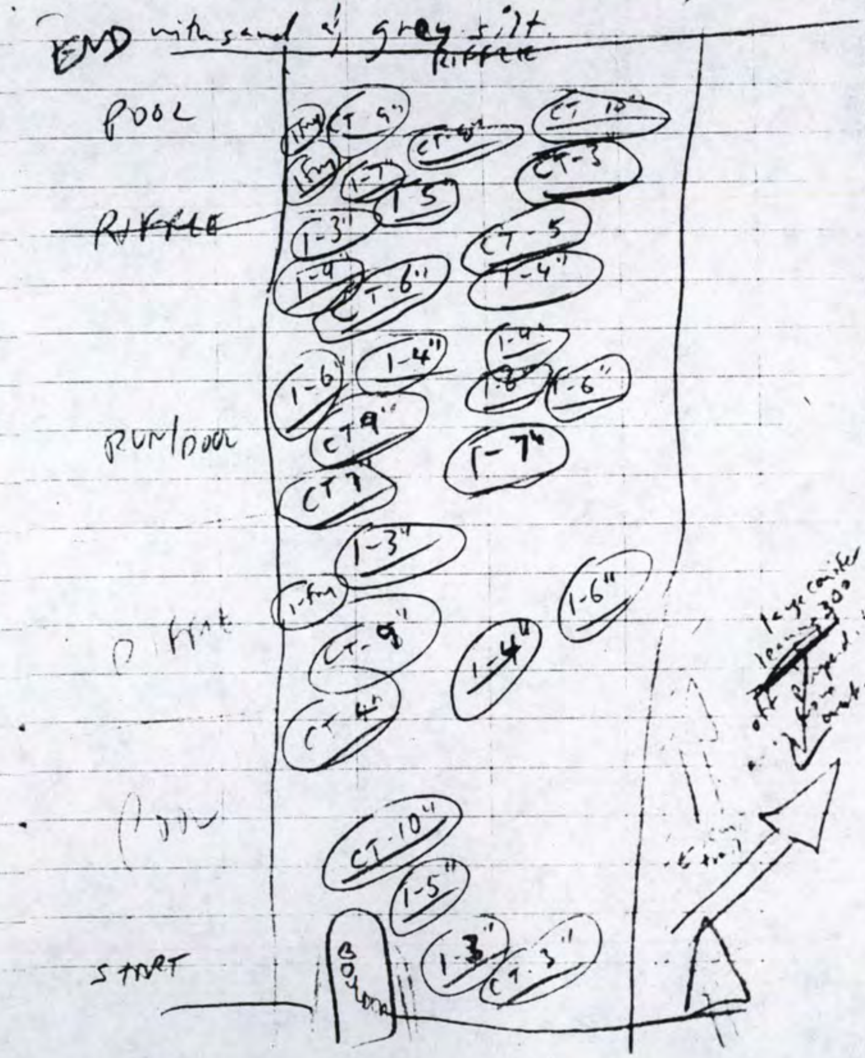
Rush Cr. Sect. 5. ✓

0.9 m visibility

Temp 14°C @ 1810 hrs.

Conductivity 69.0 umhos.

Bottom here is armored heavily with sand & gray silt.



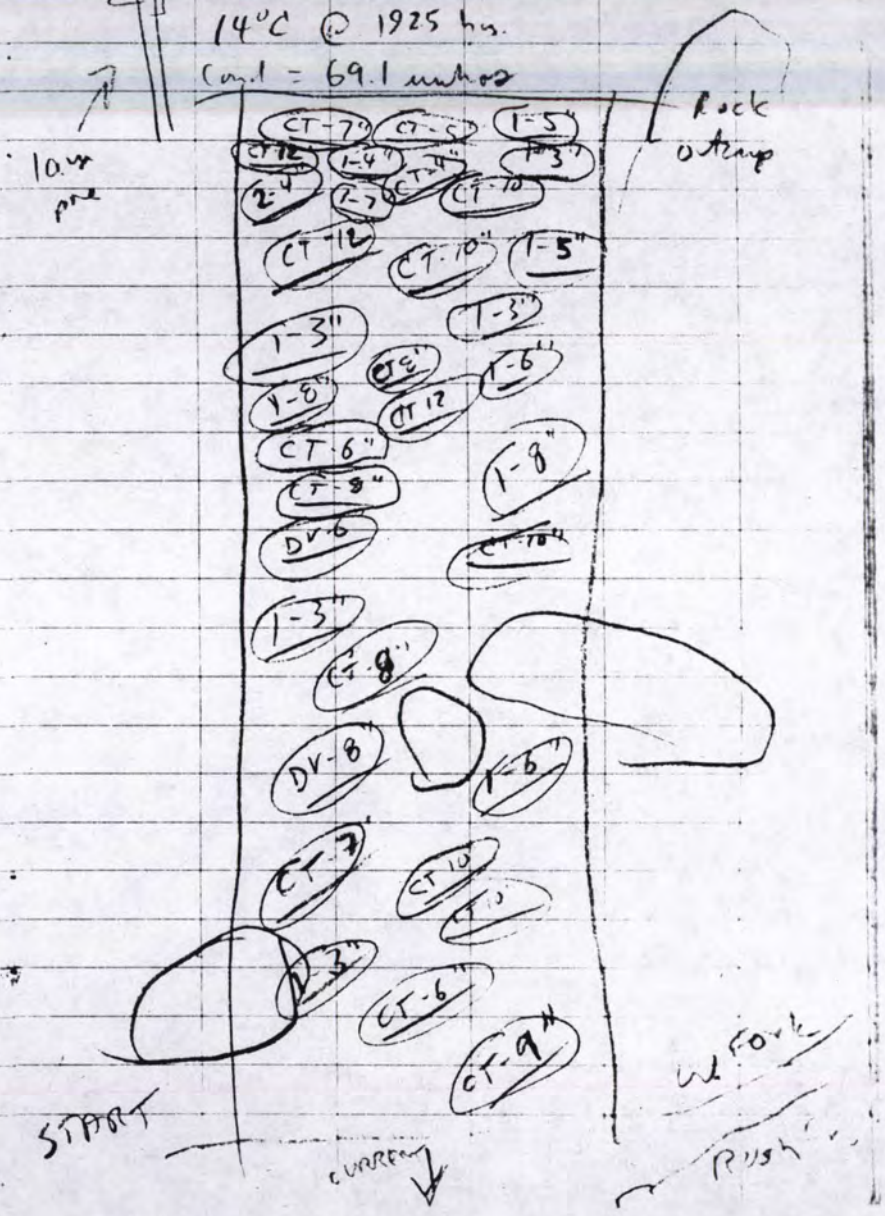
8/6/91

RUSH CR. SECT. 4

V 13.3 fps 1.6m

14°C @ 1925 hrs.

Cond = 69.1 mhos



5.9
7.7
5.8
7.2
6.9

5 | 33.35

6.7

X width = 6.7m

≈ 420 sq m

16 DI STND / 420

4 STND / 105 m²

Rush Cr. Sect. 4.

start @ mouth of W Fork, marked upstream 52.7 m.

Drop = 1.52 m / 52.7 m length

Rush Cr. Sect 4

Dist from Bottom	Width	Depth/Ht	S	G	R	B	Cut
5m	6.7	.4	5	60		40	
		.54	2		30	30	40
		.26	1		60	40	
12m	6.9	.3	2	10	30	60	
		.2	4		30	30	40
		.18	4			50	50
19m	4.3	.5	2			70	30
		.34	2		20	40	40
		.35	2				100
26m	5.4	.2	2			50	50
		.55	2			50	50
		.4	5	20	20	60	
33m	5.0	.25	5		30	20	50
		.55	2		30	70	
		.3	2		40	20	40

+19.7 to top

52.7m total length

6.7
6.9
4.3
5.4
5.0
5 | 29.3
5.66

~300 sq m

14 quads

300 m²
≈3.6 quads
100 m²

WED AUG 7th QUIT 1915. 1 hour lunch

START 0630. D-day.

We leave the W. Fork trail and head into lower canyon for transect Random.

walked from 0900 am till Noon.
Got to creek elevation 4400.
did two sections have about 100m took till 2pm. spent
walked side hills & storm till 3pms, got to mouth of deep valley Storm at 6220 pt.

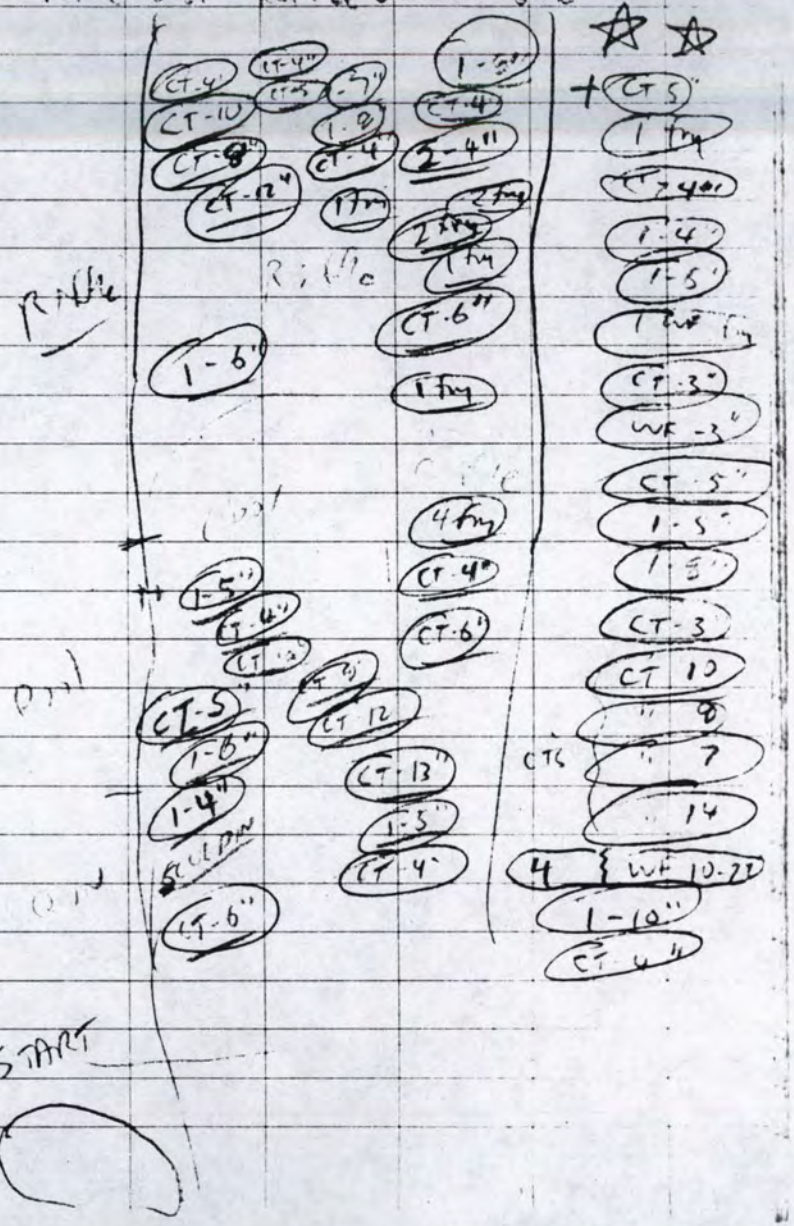
Seather book for Sites 6 & 7.

9 125sm / 350 / 3

N 2.7 125sm/100m²

8/8/91 RUSH CR # 8 BR

TOP END OF RATTLESNAKE GAP



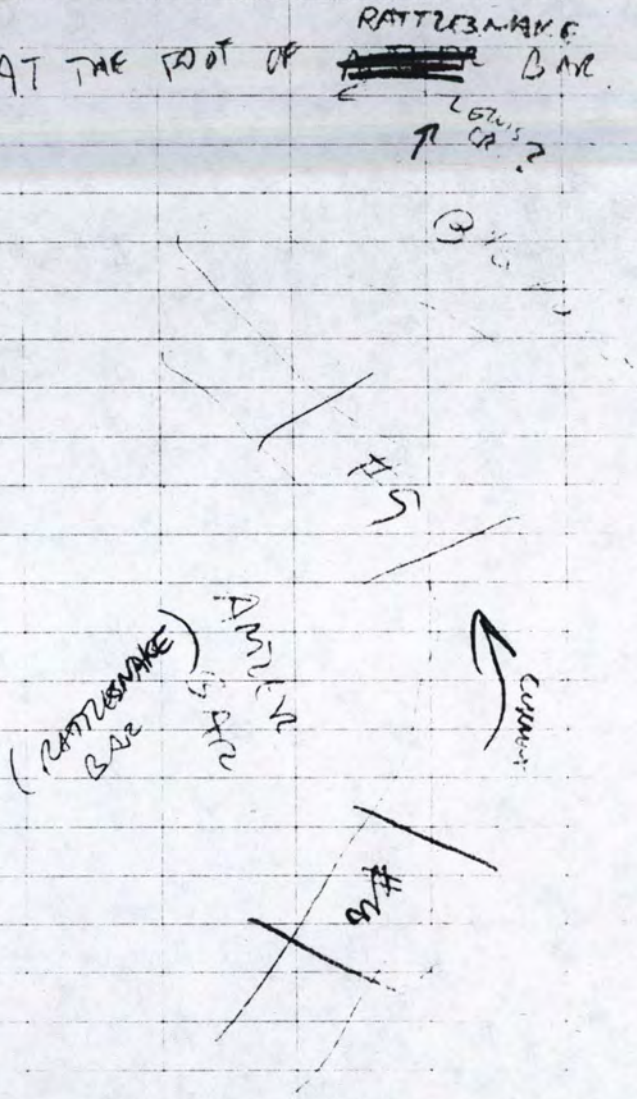
Dist from Datum	width	Depth	Hab	S	G	R	B	BMK
3	6.9	.25	2	10	20	40	30	
		.26	2	20	50	20	10	
		.15	2	15	50	25	10	
13	7.3	.3	4		30	40	30	
		.1	3		65	10	25	
		.2	4		20	40	40	
23	9.3	.2	2		70	20	10	
		.2	2	5	35	30	30	
		.25	2		70	10	20	
37	6.9	.3	1		40	50	10	
		.15	2		50	20	30	
		.14	5	50	20	30		
41	7.7	.2	2		40	20	40	
		.35	2	10	40	25	25	
		.27	2	10	40	30	20	
+13.5								
54.5m total length								

Drop .45+.85
1.3m

1.3m drop / 54.5m length

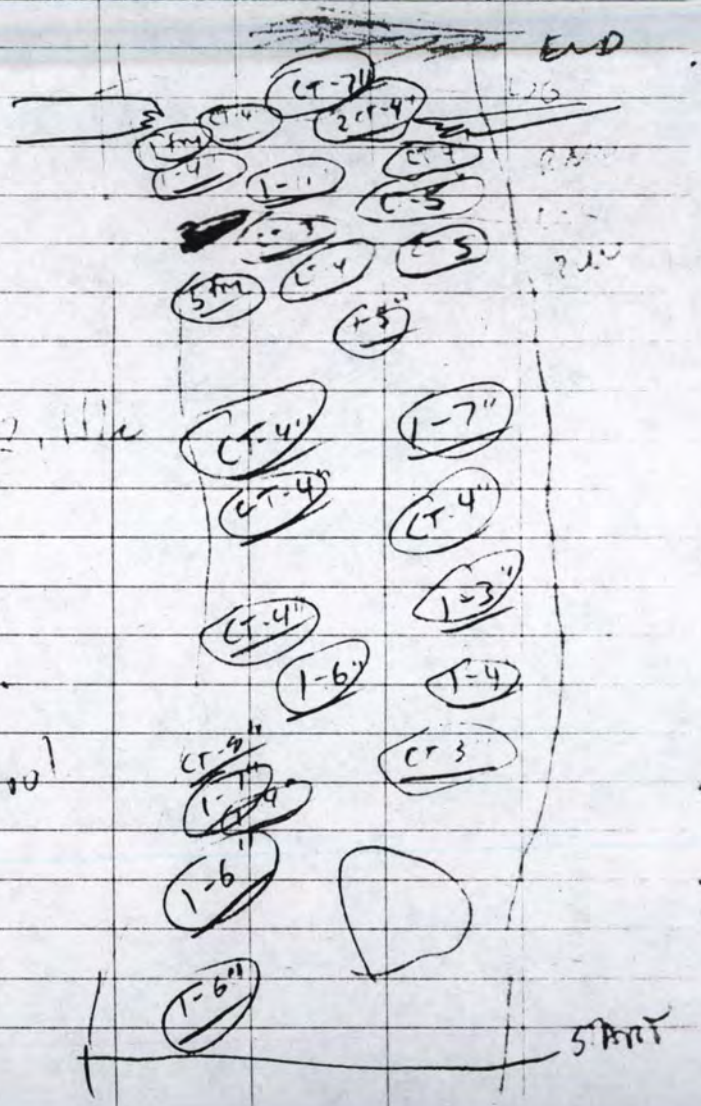
RUSH CR. #9

AT THE FOOT OF [redacted] BAR.



RUCH CR. #9.

Temp 1900 hrs - 17°C
VISIBILITY = 1.8m
Cond. 79.4 mhos



RUCH CR. #4

DIST FROM CITY	WIDTH	DEPTH	No.	S	G	R	B	BAC
5m	7.7	.4	2		25	60	15	
		.3	2	10	20	60	10	
		.14	3	50	50			
10m	6.7	.4	2		45	45	10	
		.35	3		40	35	25	
		.42	3	10	15	25	50	
20m	7.6	.1	3			20	80	
		.22	4		40	40	20	
		.2	2	10	20	50	20	
30m	6.7	.2	2	10	20	40	30	
		.2	4	20	10	50	20	
		.125	2	10	20	20	50	
40m	7.7	.125	2		20	70	10	
		.135	3	5	15	20	60	
		.128	2	10	30	60		

+ 10.2
= 50.2m

1.17m drop / 50.2m

1.17

11 125THD / 350m²

50
1.3
350

N 3 / 100m²

RUSH CR SECTION 6

2,75 · 725THD / 107m²

RUSH CR SECTION 5

3.0 125THD / 163m²

LEWIS CR.
SECTION 1

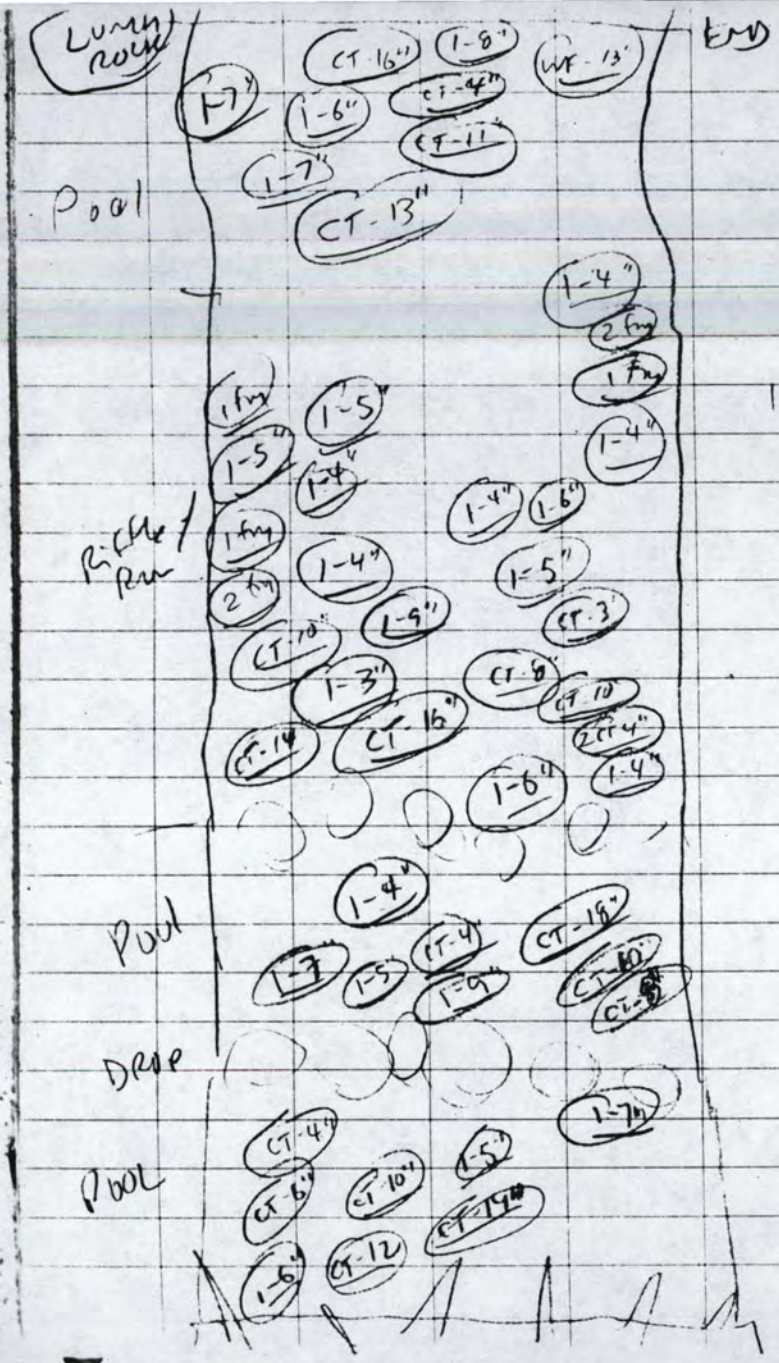
Start 20m above mouth
approx 125 THD D ≃ 2/100m²

RUSH CR # 10

2 hrs walking time (in stream)
below Lewis Cr. (possibly 1 or 1½ miles).

Visibility 2.2 m
Temp 16 °C
Conductivity 73.6 umhos

start @ large tree in water, snorkel upstream
— m to "Inch rock"



Dist from bottom	width	Dpt	Num	S	G	R	B	Opp
5m	6.9m	.175	1	30	40	30		
		.6	2	10	60	30		
		.25	1		100			
15	8.4	.43	1		40	60		
		.65	2		30	60	10	
		.55	1	50	30	20		
25	4.7	.1				10	80	80
		.55	4		40		60	
		.55	2		10	10	80	
35	8.0	.3	2	10	10	20	60	
		.35	4			70	30	
		.3	4		10	70	20	
45	8.9	.25	5		20	30	50	
		.3	2		10	40	50	
[redacted]		.4	4			30	50	20

+24.5m to top.

= 69.5 total length

drop = 1.82

$\text{grade} = \frac{1.82\text{m}}{69.5\text{m}} \times 100 = 7.38$

$\bar{x}$ width:
6.9
8.4
4.7
8.9
0.5
5)36.9

24 12STHD / 518 sq meters = 12STHD DENSITY. 4.8/103 m²

70x 7.4 = 518.0

August 8 Rush Creek

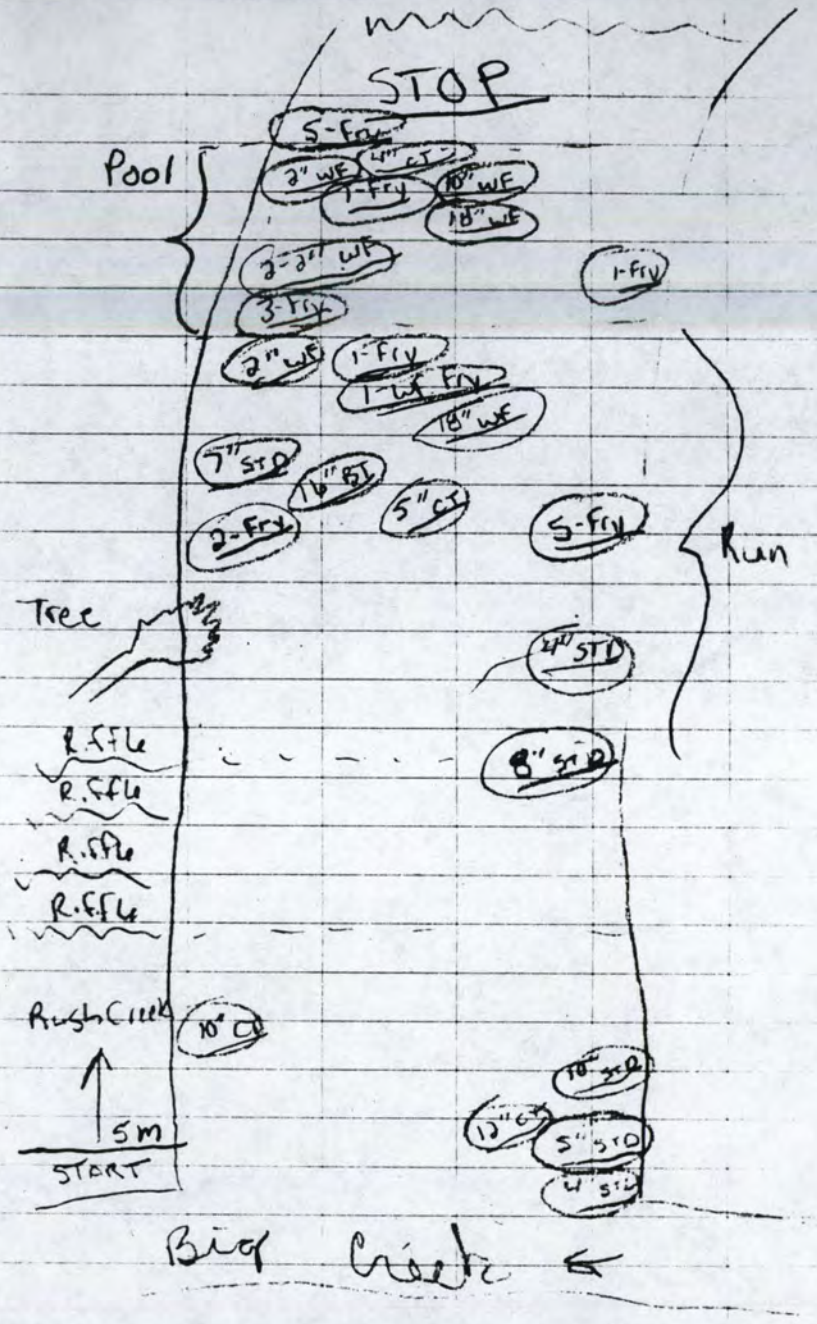
Section 12

Temp - 16°C
Visibility - 1.4m
Conductivity - 79.3
Vertical drop - 1.38
Time - 6:25pm

Site description - Mouth of Big Creek

Elevation - 3820

Special Comments - 2 people not adequate. Needed 1 or 2 more people because of insufficient visibility and size of section.



August 8 — Rush Creek

Section 11

Temp - 16°C
Visibility 2.8
Conductivity 79.3
Vertical drop .70
Time 7:30

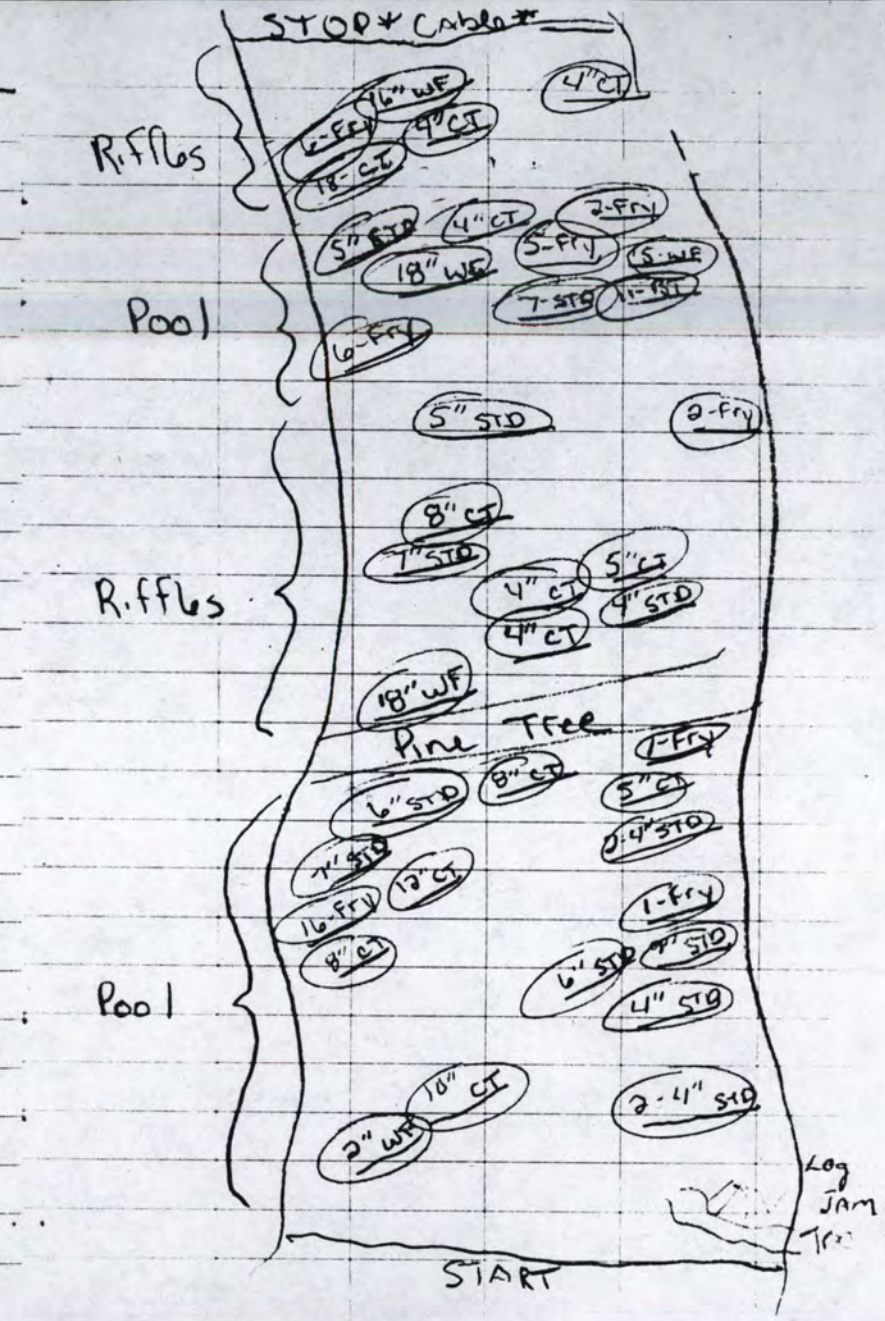
Site description - 100 yards upstream from section 12 10 yards upstream from diversion.

Special Comments - Better visibility

Distance from bottom	Width	Hits	depth	S	G	B	B	Bed
5	6.8	2	.25		40	50	10	
		2	.35		60	40		
		2	.25		60	30	10	
15	6.5	4	.25		50	20	30	
		2	.20		50	50		
		4	.25		70	30		
25	8.1	2	.20		50	20	30	
		2	.20		60	20	20	
		2	.20		60	30	10	
35	9.6	2	.10		60	40		
		2	.25	5	45	40	10	
		2	.20	10	50	20	20	
48 End	11.1	2	.20	10	70	20		
		2	.22	5	75	20		
Total		2	.18	5	85	10		
50m								

Note — Chinook Ø was seen below this section.

Stream system	Width	#	depth	S	G	R	B	Bed
5	6.3	2	.35		70	20	10	
		2	.25	10	30	20	40	
		2	.12	5	95			
15	7.8	2	.28	5	35	35	25	
		2	.05				100	
		2	.31	5	75	20		
25	7.3	4	.22		20	40	40	
		3	.28		10	80	10	
		2	.15	5	45	40	10	
35	7.2	2	.28	15	45	30	10	
		4	.30	5	65	30		
		4	.14		60	40		
45	8.6	1	.48		25	50	25	
		2	.33	5	65	30		
End 7		2	.15	5	70	25		
Total 52								



RUSH CR. SECTION 6

1315 hrs 8/7/91

SECTION 6 -

Visibility

Temp

Cond.

Vertical Drop 1.15