

Jacoby Creek - Brookwood Bridge (BW)																
Brookwood Drive (4K250) PM 0.12 Bridge # 4C-0124																
Compiled by Nate Lomba and Clark Fenton																
Checked By C. Fenton																
Humboldt County, California																
Hydrologic Year 99																
Grab Sampling: Turbidity / Suspended Sediment Data - provisional																
Salmon Forever / Sunny Brae Sediment Lab																
Grab samples are taken RR from bank at USGS staff gage																
Sign in page #	Datasheet #	Location Sampled	Date Sampled	Time Sampled	Sampled By	Turbidity FTU	Tur. Code	Container Type	Turbidity Date run	Turbidity Time run	Turbidity By	Tare Bottle Weight g	Total Bottle Weight g	Volume/ Bottle Wt.	Filter Total	Filter ID
4		BW	11/21/98	07:25	J. Frincke	712	0	Hach Cell	11/21/98		J. Frincke	18.2	35.3	17.1	1 1	203
11		BW	11/26/98	10:15	J. Frincke	413	0	Grab 2x6	11/27/98		J. Frincke					
12	26	BW	11/30/98	08:00	J. Frincke	249	0	Hach Cell	11/30/98		J. Frincke	17.9	35.8	17.9	1 1	452
21	38	BW	11/30/98	15:53	J. Frincke	115	0	PB 2x6	01/17/99	11:33	J. Frincke	24.3	248.1	223.8	1 1	712
24	39	BW	01/17/99	15:13	J. Frincke	29.7	0	Hach Cell	01/19/99	15:36	J. Frincke	18.2	36.4	18.2	1 1	752
25	43	BW	01/13/99	17:36	B. Thompson	3.86	0	Hach Cell	01/20/99	15:22	J. Frincke	17.9	37.4	19.5	1 1	806
25	43	BW	01/14/99	22:00	B. Thompson	44.5	0	Hach Cell	01/20/99	15:24	J. Frincke	18.2	35.8	17.6	1 1	807
25	43	BW	01/15/99	22:00	B. Thompson	54.5	0	Hach Cell	01/20/99	15:26	J. Frincke	18	32.4	14.4	1 1	809
25	43	BW	01/16/99	05:30	B. Thompson	61.2	0	Hach Cell	01/20/99	15:27	J. Frincke	18.1	33.1	15.0	1 1	814
25	43	BW	01/19/99	15:15	B. Thompson	71.5	0	Hach Cell	01/20/99	15:28	J. Frincke	18.2	31.4	13.2	1 1	818
25	43	BW	01/20/99	06:30	B. Thompson	38.3	0	Hach Cell	01/20/99	15:29	J. Frincke	18	35.4	17.4	1 1	822
44	51	BW	01/22/99	10:00	B. Thompson	22.5	0	Hach Cell	02/21/99	14:04	J. Frincke	18	35.1	17.1	1 1	1010
44	51	BW	01/22/99	23:30	B. Thompson	190	0	Hach Cell	02/21/99	14:06	J. Frincke	18	32.7	14.7	1 1	1012
44	51	BW	01/22/99	07:30	B. Thompson	137	0	Hach Cell	02/21/99	14:08	J. Frincke	17.8	34	16.2	1 1	1013
44	51	BW	01/24/99	06:30	B. Thompson	46.7	0	Hach Cell	02/21/99	14:14	J. Frincke	17.9	35.1	17.2	1 1	1014
44	51	BW	01/31/99	06:30	B. Thompson	12.5	0	Hach Cell	02/21/99	14:16	J. Frincke	18	35.2	17.2	1 1	1015
44		BW	02/06/99	06:00	B. Thompson	14.3	0	Hach Cell [1	02/21/99	14:19	J. Frincke					

Jacoby Creek - Brookwood Bridge (BW)									
Brookwood Drive (4K250) PM 0.12 Bridge # 4C-0124									
Humboldt County, California									
Hydrologic Year 99									
Grab Sampling: Turbidity / Suspended Sediment Data - provisional					Floating object vel. is measured at upstream or dn stream of bridge RR				
Salmon Forever / Sunny Br					Stage is measured as inches on crest stage gage/ metal pipe RR				
					Stage is measured as ft above sea level from USGS staff gage RR				
Initial Filter Weight g	Final Filter Weight g	Sediment Wt.	Lab Code	Total Mg/L	Stage	Discharge CFS	Vel. dist.	Vel. sec.	Comments
0.11542	0.13047	0.01505	0	880.6			15'	2.41	
					dn10'4"		25'	4.00	[1] 4.0 - 3.53 - 3.67 - 3.69 sec.
								3.53	
								3.67	
								3.69	
0.12234	0.12794	0.0056	0	312.9	dn 12'1" [1]		25'	7.72	[1] "taken off bridge"
0.11616	0.15026	0.0341	0	152.4	dn 12'1"		25'	7.46	
0.11352	0.1137	0.00018	0	9.9	8" [1]		25'	21.13	[1] "taken off guage"
0.11269	0.11232	-0.00037	1	-19.0	n/a		n/a		
0.11456	0.11491	0.00035	0	19.9	5.5"		25'	27.93	
0.1142	0.11447	0.00027	0	18.8	0		25'	11.00	
0.11314	0.11357	0.00043	0	28.7	10"		25'	9.24	
0.11244	0.11298	0.00054	0	40.9	13"		n/a		
0.11541	0.11499	-0.00042	1	-24.1	11"		25'	7.00	
0.10791	0.10806	0.00015	0	8.8	[1]		15'	13.00	[1] 1" below lowest mark
0.10865	0.11206	0.00341	0	232.0	19"		15'	4.00	
0.10748	0.10946	0.00198	0	122.2	18"		15'	4.50	
0.10634	0.10705	0.00071	0	41.3	13"		15'	7.00	
0.10764	0.10764	0	0	0.0	11.5"		15'	9.50	
					11.5"		15'	19.00	[1] half full bottle

Sign in page #	Datasheet #	Location Sampled	Date Sampled	Time Sampled	Sampled By	Turbidity FTU	Tur. Code	Container Type	Turbidity Date run	Turbidity Time run	Turbidity By	Tare Bottle Weight g	Total Bottle Weight g	Volume/ Bottle Wt.	Filter Total	Filter ID
44	59	BW	02/08/99	12:30	B. Thompson	38.5	0	[1]	02/21/99	14:37	J. Frincke	20.2	119.7	99.5	1 1	1227
45	59	BW	02/08/99	14:30	B. Thompson	200	0	[1]	02/21/99	14:42	J. Frincke	17.2	91.6	74.4	1 1	1228
45		BW	02/13/99	15:30	B. Thompson	19.2	0	Hach Cell	02/21/99	15:03	J. Frincke					

Initial Filter Weight g	Final Filter Weight g	Sediment Wt.	Lab Code	Total Mg/L	Stage	Discharge CFS	Vel. dist.	Vel. sec.	Comments				
0.10686	0.11338	0.00652	0	65.5	11"		15'	5.00	[1] plastic bottle, probably 6 oz.				
0.10778	0.12671	0.01893	0	254.5	19"		15'	4.00	[1] plastic bottle, probably 6 oz.				
					3.5" [1]		15'	8.00	[1] below 11 mark				

Jacoby Creek Trib. / Eric Creek -Eric Lane (ERIC)

Compiled by Nate Lomba and Clark Fenton

Humboldt County, California

Checked By C. Fenton

Hydrologic Year 99

Grab Sampling: Turbidity / Suspended Sediment Data - provisional

Salmon Forever / Sunny Brae Sediment Lab

Sign in page #	Datasheet #	Location Sampled	Date Sampled	Time Sampled	Sampled By	Turbidity FTU	Tur. Code	Container Type	Turbidity Date run	Turbidity Time run	Turbidity By	TUM S/N	Tare Bottle Weight g	Total Bottle Weight g	Volume/ Bottle Wt.	Filter Total	Filter ID
4		ERIC	11/21/98	06:42	J. Frincke	1000+	1	Hach Cell	11/21/98		J. Frincke	9614	18.2	37.4	19.2	1 1	201
11		ERIC	11/26/98	09:32	J. Frincke	441	0	PB 2x6	11/27/98		J. Frincke	9614	24	244.1	220.1	1 1	425
12	26	ERIC	11/30/98	07:17	J. Frincke	1000 +	1	Hach Cell	11/30/98		J. Frincke	9614	17.9	36.9	19.0	1 1	447
21	38	ERIC	11/30/98	16:58	J. Frincke	1000+	1	PB 2x6	01/17/99	11:50	J. Frincke	9614	22.6	247.1	224.5	1 3	717
	38												22.6	247.1	224.5	2 3	718
	38												22.6	247.1	224.5	3 3	719
	38																
24		ERIC	01/17/99	16:25	J. Frincke	1000+	1	PB 2x6	01/19/99	15:46	J. Frincke	9614					
27	46	ERIC	01/22/99	15:59	J. Frincke	454	0	PB 2x6	01/22/99	17:46	J. Frincke	9614	25.3	273.5	248.2	1 2	867
	46												25.3	273.5	248.2	2 2	868
28	46	ERIC	01/23/99	07:09	J. Frincke	177	0	PB 2x6	01/23/99	16:11	J. Frincke	9614	23.8	262.6	238.8	1 2	873
	46												23.8	262.6	238.8	2 2	874
45	59	ERIC	02/08/99	14:51	J. Frincke	234	0	PB 2x6	02/21/99	14:48	J. Frincke	9614	23.4	265.4	242.0	1 1	1229
45	59	ERIC	02/18/99	13:51	J. Frincke	101	0	PB 2x6	02/21/99	15:12	J. Frincke	9614	22.3	267.1	244.8	1 2	1238
	59												22.3	267.1	244.8	2 2	1239
	59																
45	59	ERIC	02/18/99	16:34	J. Frincke	122	0	Hach Cell	02/21/99	15:14	J. Frincke	9614	18.3	36.5	18.2	1 1	1240

Jacoby Creek Trib. / Eric Creek -Eric Lane (ERIC)										
Humboldt County, California										
Hydrologic Year 99										
Grab Sampling: Turbidity / Suspended Sediment Data - provisional										
Salmon Forever / Sunry Brae Sediment Lab										
Stage is measured as inches of flow in bottom of 36 "culvert										
Initial Filter Weight g	Final Filter Weight g	Sediment Wt.	Lab Code	Sand Fr. Mg/L	Total Mg/L	Stage	Discharge CFS	Vel. dist.	Vel. sec.	Comments
0.11126	0.14781	0.03655	0		1905.9					
spilled			0		0.0	dn 22.0"		15'	3.45	
0.12045	0.15418	0.03373	0		1777.2	dn 24.5"		15'	4.52	
0.11453	0.16782	0.05329	0		237.4	dn 24"		15'	3.95	
0.11517	0.17120	0.05603	0		249.6				4.39	
0.11454	0.32927	0.21473	0		957.1					
				Total	1444.1					
						29"		15'	4.35	
0.11328	0.20374	0.09046	0		364.5	26"		15'	3.43	
0.11531	0.11795	0.00264	0		10.6					
				Total	375.1					
0.11664	0.12807	0.01143	0		47.9	29"		15'	4.09	
0.11661	0.13400	0.01739	0		72.8					
				Total	120.7					
0.10845	0.14335	0.03490	0		144.2	41"		15'	9.02	
0.10851	0.10814	-0.00037	1		-1.5	29"		15'	7.80,8.13	
0.10700	0.12266	0.01566	0		64.0					
				Total	62.5					
0.10647	0.12266	0.01619	0		890.1	28"		15'	6.10	

Steep Creek?		Tributary at Jacoby Creek Road(4K230) PM 1.65 (MM1.65)																	
Compiled by Nate Lomba and Clark Fenton				Humboldt County, California															
Checked By C. Fenton				Hydrologic Year 99															
Grab Sampling: Turbidity / Suspended Sediment Data - provisional																			
Salmon Forever / Sunny Brae Sediment Lab																			
Sign in page #	Datasheet #	Location Sampled	Date Sampled	Time Sampled	Sampled By	Turbidity FTU	Tur. Code	Container Type	Turbidity Date run	Turbidity Time run	Turbidity By	TUM S/N	Tare Bottle Weight g	Total Bottle Weight g	Volume/ Bottle Wt.	Filter Total	Filter ID		
4		MM1.65	11/21/98	6:55	J. Frincke	532	0	Hach Cell	11/21/98		J. Frincke	9614	18.6	38.2	19.6	1 1	204		
11		MM1.65	11/26/98	9:44	J. Frincke	279	0	Grab 2x6	11/27/98		J. Frincke	9614	24.4	187.1	162.7	1 1	428		
12	26	MM1.65	11/30/98	7:33	J. Frincke	254	0	Hach Cell	11/30/98		J. Frincke	9614	18.3	37.2	18.9	1 1	449		
21	38	MM1.65	12/02/98	14:20	B. Hanley	244	0	PB 2x6	01/17/99	12:04	J. Frincke	9614	24.8	237.3	212.5	1 1	715		
24	39	MM1.65	01/17/99	16:18	J. Frincke	31.9	0	PB 2x6	01/19/99	15:44	J. Frincke	9614	24	261	237	1 1	755		
27		MM1.65	01/22/99	16:11	J. Frincke	171	0	PB 2x6	01/22/99	17:48	J. Frincke	9614	22.6	270.8	248.2	1 2	869		
													22.6	270.8	248.2	2 2	870		
28	46	MM1.65	01/23/99	7:18	J. Frincke	60	0	PB 2x6	01/23/99	16:11	J. Frincke	9614	23.1	264.4	241.3	1 1	872		
45	59	MM1.65	02/08/99	14:59	J. Frincke	40.7	0	PB 2x6	02/21/99	14:52	J. Frincke	9614	22.9	269.4	246.5	1 1	1230		
45		MM1.65	02/18/99	13:11	J. Frincke	54.8	0	PB 2x6	02/21/99	15:09	J. Frincke	9614							
45	60	MM1.65	02/18/99	16:43	J. Frincke	42.8	0	---	02/21/99	15:16	J. Frincke	9614	18.1	36.8	18.7	1 1	1241		
46	55	MM1.65	02/24/99	16:11	J. Frincke	22.9	0	PB 2x6	02/25/99	15:16	J. Frincke	9614	24	269.7	245.7	1 1	1157		
46	56	MM1.65	02/24/99	19:42	J. Frincke	84.8	0	PB 2x6	02/25/99	15:27	J. Frincke	9614	25.6	270	244.4	1 1	1220		
21		MM1.65	11/30/98	14:40	B. Hanley	74.4	0	PB 2x6	01/17/99	11:38	J. Frincke	9614							

Tributary at Jacoby Creek Road(4K230) PM 1.65 (MM1.65)										
Humboldt County, California										
Hydrologic Year 99										
Grab Sampling: Turbidity / Suspended Sediment Data - provisional										
Salmon Forever / Sunny Brae Sediment Lab										
Stage is measured at ...										
Initial Filter Weight g	Final Filter Weight g	Sediment Wt.	Lab Code		Total Mg/L	Stage	Discharge CFS	Vel. dist.	Vel. sec.	Comments
0.11722	0.13081	0.01359	0		693.7	10.5"				
0.11693	0.17191	0.05498	0		338.0	dn 28.0"		15'	2.86	
									3.13	
0.12313	0.12676	0.00363	0		192.1	dn 37"		15'	2.66	
0.11413	0.12545	0.01132	0		53.3	dn 32"		15'	2.31	
0.11405	0.11666	0.00261	0		11.0	45.5"		15'	4.33	
0.1108	0.12625	0.01545	0		62.3	36.5"		15'	2.56	
0.11582	0.11578	-0.00004	1		-0.2					
				Total	62.1					
0.11576	0.12415	0.00839	0		34.8	33.5"		15'	8,2.98,2.14	
0.10736	0.11176	0.00440	0		17.9	41"		15'	2.98	
						36"		15'	3.19	
0.1092	0.10935	0.00015	0		8.0	36"		15'	2.63	
0.10516	0.10822	0.00306	0		12.5	[1]		[1]	[1]	[1] "in notes"
0.10672	0.12503	0.01831	0		74.9	[1]		[1]	[1]	[1] "in notes"
						dn 33"		15'	2.62	

Jacoby Creek - S. Quarry Road (SQR)

South Quarry Road Bridge (4K240) PM 0.05 Bridge # 4C-006

Compiled by Nate Lomba and Clark Fenton

Humboldt County, California

Checked By C. Fenton

Hydrologic Year 99

Grab Sampling: Turbidity / Suspended Sediment Data - provisional

Salmon Forever / Sunny Brae Sediment Lab

Hand grab sample is taken RR upstream of bridge

Sign in page #	Datasheet #	Location Sampled	Date Sampled	Time Sampled	Sampled By	Turbidity FTU	Tur. Code	Container Type	Turbidity Date run	Turbidity Time run	Turbidity By	TUM S/N	Tare Bottle Weight g	Total Bottle Weight g	Volume/ Bottle Wt.	Filter Total	Filter ID
4		SQR	11/21/98	7:19	J. Frincke	751	0	Hach Cell	11/21/98		J. Frincke	9614	18.2	35.9	17.7	1 1	206
5		SQR	11/21/98	12:58	J. Noell			Hach Cell									
11	25	SQR	11/26/98	10:02	J. Frincke	361	0	Grab 2x6	11/27/98		J. Frincke	9614	23	248.1	225.1	1 2	432
	25												23	248.1	225.1	2 2	433
	25																
12	26	SQR	11/30/98	7:51	J. Frincke	266	0	Hach Cell	11/30/98		J. Frincke	9614	17.9	37.3	19.4	1 1	451
21	38	SQR	11/30/98	16:33	J. Frincke	111	0	PB 2x6	1/17/99	11:36	J. Frincke	9614	24.3	247.6	223.3	1 1	713
22	39	SQR	01/14/99	19:35	J. Frincke	20	0	glass jar	1/17/99	12:32	J. Frincke	9614	177.9	344.7	166.8	1 1	734
24	39	SQR	01/17/99	15:26	J. Frincke	31.9	0	Hach Cell	1/19/99	15:37	J. Frincke	9614	18.1	36.5	18.4	1 1	753
27	46	SQR	01/22/99	16:20	J. Frincke	124	0	Hach Cell	1/22/99	17:50	J. Frincke	9614	18	35.8	17.8	1 1	875
28	46	SQR	01/23/99	7:29	J. Frincke	145	0	Hach Cell	1/23/99	16:11	J. Frincke	9614	18	34.2	16.2	1 1	877
45		SQR	02/08/99	15:08	J. Frincke	60.6	0	2x6	2/21/99	14:54	J. Frincke	9614					
46	55	SQR	02/24/99	15:55	J. Frincke	34.9	0	2x6	2/25/99	15:12	J. Frincke	9614	22.6	264.4	241.8	1 1	1155
47	56	SQR	02/24/99	19:51	J. Frincke	106	0	[1]	2/25/99	15:30	J. Frincke	9614	168.5	321.4	152.9	1 1	1219

Jacoby Creek - S. Quarry Road (SQR) South Quarry Road Bridge (4K240) PM 0.05 Bridge # 4C-006 Humboldt County, California Hydrologic Year 99 Grab Sampling: Turbidity / Suspended Sediment Data - provisional Salmon Forever / Sunny Brae Sediment: Lab Floating object velocity is measured Stage is measured as distance down from bridge										
Initial Filter Weight g	Final Filter Weight g	Sed. Wt.	Lab Code	Total Mg/L	Stage	Discharge CFS	Vel. dist.	Vel. sec.	Comments	
0.11656	0.13046	0.01390	O	785.7						
0.11700	0.20009	0.08309	O	369.2	dn 20'		14'6"	3.27		
0.11210	0.14899	0.03689	O	163.9				3.1		
				Total 533.1						
0.12036	0.12752	0.00716	O	369.2	dn 20'10" [1]		14'6"	2.68	[1] "taken off bridge"	
0.11314	0.14102	0.02788	O	124.9	dn 21.0'		14'6"	3.16		
0.11576	0.11838	0.00262	O	15.7	dn 21'9"		14'6"	14.87	[1] "half pint jam jar"	
0.11214	0.11247	0.00033	O	17.9	20'11"		14'6"	4.81		
0.11515	0.11836	0.00321	O	180.4	20'6"		14'6"	3.62		
0.11067	0.11376	0.00309	O	190.8	19'5"		14'6"	3.02		
					20'1"		14'6"	3.77		
0.10373	0.10777	0.00404	O	16.7	[1]		[1]	[1]	[1] "in notes"	
0.10884	0.13655	0.02771	O	181.3	[1]		[1]	[1]	[1] "in notes"	

Jacoby Creek - Morrison Gulch (MOR)																	
South Quarry Road (4K240) - 2.2 miles east of Old Arcata Road																	
Compiled by Nate Lomba and Clark Fenton						Humboldt County, California											
Checked By C. Fenton						Hydrologic Year 99											
Grab Sampling: Turbidity / Suspended Sediment Data - provisional																	
Salmon Forever / Sunny Brae Sediment Lab																	
Sign in page #	Datasheet #	Location Sampled	Date Sampled	Time Sampled	Sampled By	Turbidity FTU	Tur. Code	Container Type	Turbidity Date run	Turbidity Time run	Turbidity By	TUM S/N	Tare Bottle Weight g	Total Bottle Weight g	Volume/ Bottle Wt.	Filter Total	Filter ID
4		MOR	11/21/98	07:02	J. Frincke	367	0	Hach	11/21/98		J. Frincke	9614	18.1	35.4	17.3	1 1	202
11		MOR	11/26/98	09:53	J. Frincke	123	0	Grab 2x6	11/27/98		J. Frincke	9614	22.9	246.2	223.3	1 1	429
12	26	MOR	11/30/98	07:41	J. Frincke	67.1	0	Hach	11/30/98		J. Frincke	9614	17.9	37.2	19.3	1 1	450
21	38	MOR	11/30/98	16:24	J. Frincke	39.8	0	PB 2x6	01/17/99	11:45	J. Frincke	9614	27.1	217.9	190.8	1 1	714
21	39	MOR	12/02/98	14:05	B. Hanley	122	0	PB 2x6	01/17/99	12:02	J. Frincke	9614	24.7	271.5	246.8	1 1	725
24	39	MOR	01/17/99	15:34	J. Frincke	24	0	PB 2x6	01/19/99	15:40	J. Frincke	9614	23.4	269.1	245.7	1 1	754
27	46	MOR	01/22/99	16:28	J. Frincke	48	0	PB 2x6	01/22/99	17:52	J. Frincke	9614	26.9	271.2	244.3	1 1	871
28	46	MOR	01/23/99	07:37	J. Frincke	33	0		01/23/99	16:11	J. Frincke	9614	168.7	393.9	225.2	1 1	886
45	59	MOR	02/08/99	15:18	J. Frincke	45.2	0	2x6	02/21/99	14:56	J. Frincke	9614	23	269.7	246.7	1 1	1233
46	55	MOR	02/24/99	16:02	J. Frincke	21	0	2x6	02/25/99	15:14	J. Frincke	9614	23.7	268.9	245.2	1 1	1156
47	60	MOR	02/24/99	20:01	J. Frincke	69.7	0	2x6	02/25/99	15:32	J. Frincke	9614	22.8	269.9	247.1	1 1	1251

Jacoby Creek - Morrison Gulch (MOR)

South Quarry Road (4K240)

Humboldt County, California

Hydrologic Year 99

Grab Sampling: Turbidity / Suspended Sediment Data - provisional

There is an existing dn stream staff plate not used

Salmon Forever / Sunny Brae Sediment Lab

Floating object velocity is measured at culvert lip 10' into culvert

stage is measured as flo in bottom of 5' culvert

Initial Filter Weight g	Final Filter Weight g	Sediment Wt.	Lab Code	Total Mg/L	Raw Stage	Stage	Discharge CFS	Vel. Str. hi or lo	Vel. dist.	Vel. sec.	Comments
0.11855	0.12493	0.00638	0	368.9							
0.1123	0.14999	0.03769	0	168.8		dn 39.5"			18'8"	4.24	
0.12347	0.12433	0.00086	0	44.6		dn 48"			18'8"	4.85	
0.11646	0.1217	0.00524	0	27.5		dn 47"			18'8"	4.37	
0.1145	0.16388	0.04938	0	200.1		dn 32"			18'8"	3.90	
0.11362	0.11655	0.00293	0	11.9		54"			18'8"	7.76	
0.1146	0.12264	0.00804	0	32.9		49"			18'8"	6.80	
0.11611	0.12148	0.00537	0	23.8		46"			18'8"	4.95,4.30	
0.10989	0.11458	0.00469	0	19.0		49.5"			18'8"	8.50,5.92	
0.10614	0.10792	0.00178	0	7.3		[1]			[1]	[1]	[1] "in notes"
0.10688	0.11786	0.01098	0	44.4		[1]			[1]	[1]	[1] "in notes"

Jacoby Creek - Snag Creek (SNAG)																	
Jacoby Creek Road (C4K230) 3.3 miles east of Old Arcata Road																	
Compiled by Nate Lomba and Clark Fenton					Humboldt County, California												
Checked By C. Fenton					Hydrologic Year 99 00												
Grab Sampling: Turbidity / Suspended Sediment Data - provisional																	
DH/TH = Tom and Debbie Hartman					Salmon Forever / Sunny Brae Sediment Lab												
Sample is taken at upstream end of 84" round metal pipe culvert under Jacoby Creek Road																	
Sign in page #	Datasheet #	Location Sampled	Date Sampled	Time Sampled	Sampled By	Turbidity FTU	Tur. Code	Container Type	Turbidity Date run	Turbidity Time run	Turbidity By	TUM S/N	Tare Bottle Weight g	Total Bottle Weight g	Volume/ Bottle Wt.	Filter Total	Filter ID
4		SNAG	11/21/98	06:50	J. Frincke	809	0	Hach	11/21/98		J. Frincke	9614	18.3	37.7	19.4	1 1	207
11	25	SNAG	11/26/98	09:37	J. Frincke	661	0	Grab 2x6	11/27/98		J. Frincke	9614	23.1	223.8	200.7	1 2	426
	25												23.1	223.8	200.7	2 2	427
	25																
12	26	SNAG	11/30/98	07:23	J. Frincke	543	0	Hach	11/30/98		J. Frincke	9614	18	36.1	18.1	1 1	448
21	38	SNAG	11/30/98	16:52	J. Frincke	207	0	PB 2x6	01/17/99	11:47	J. Frincke	9614	23.5	248.7	225.2	1 1	716
22	39	SNAG	12/02/98	14:35	DH/TH	428	0	PB 2x6	01/17/99	12:27	J. Frincke	9614	23.9	252.4	228.5	1 3	729
	39												23.9	252.4	228.5	2 3	730
	39												23.9	252.4	228.5	3 3	731
	39																
22	39	SNAG	12/13/98	11:45	DH/TH	19.3	0	PB 2x6	01/17/99	12:29	J. Frincke	9614	24.2	162.7	138.5	1 1	732
22	39	SNAG	01/14/99	22:10	DH/TH	131	0	PB 2x6	01/17/99	12:30	J. Frincke	9614	23.3	221.2	197.9	1 1	733
27	46	SNAG	01/17/99	16:30	DH/TH	69	0	PB 2x6	01/22/99	17:34	J. Frincke	9614	24.5	232.5	208	1 1	866
44	59	SNAG	01/23/99	13:00	DH/TH	51.4	0	2x6	02/21/99	14:11	J. Frincke	9614	23.4	268.3	244.9	1 1	1235
44	59	SNAG	02/06/99	11:20	DH/TH	340	0	2x6	02/21/99	14:26	J. Frincke	9614	27.7	230.7	203	1 2	1223
	59												27.7	230.7	203	2 2	1224
	59																
44	59	SNAG	02/07/99	11:45	DH/TH	111	0	2x6	02/21/99	14:30	J. Frincke	9614	25	246.3	221.3	1 1	1225
45	59	SNAG	02/08/99	17:20	DH/TH	66.6	0	2x6	02/21/99	15:00	J. Frincke	9614	23.9	260.1	236.2	1 1	1234
45	59	SNAG	01/20/99	12:00	DH/TH	45.6	0	2x6	02/21/99	15:19	J. Frincke	9614	26.2	268.3	242.1	1 1	1232
45	59	SNAG	02/13/99	16:15	DH/TH	29	0	2x6	02/21/99	15:05	J. Frincke	9614	25	263.8	238.8	1 1	1236
46		SNAG	02/24/99	16:17	J. Frincke	29	0	2x6	02/25/99	15:18	J. Frincke	9614					
46	56	SNAG	02/24/99	19:36	J. Frincke	97	0	2x6	02/25/99	15:24	J. Frincke	9614	24.1	265.8	241.7	1 1	1217

Jacoby Creek - Snag Creek (SNAG)												
Jacoby Creek Road (C4K230) 3.3 miles east of Old Arcata Road												
Humboldt County, California												
Hydrologic Year 98 99												
Grab Sampling: Turbidity / Suspended Sediment Data - provisional								GAGE is a metal pipe in streambed in Debbie Hartman's back yard				
Salmon Forever / Sunny Brae Sediment Lab								Velocity is floating object measured 10' above culvert				
Stage is depth of flo in bottom of 84" culvert at upstream edge of culvert												
Initial Filter Weight g	Final Filter Weight g	Sediment Wt.	Lab Code	Total Mg/L	Raw Stage	Stage	Discharge CFS	Vel. Str. hi or lo	Vel. dist.	Vel. sec.	Comments	
0.11538	0.14399	0.02861	0	1476.1		58.5"						
0.11251	0.26604	0.15353	0	765.3		dn 67.0"			10'	2.99		
0.11561	0.15304	0.03743	0	186.5						1.63		
				Total 951.8						2.52		
0.12127	0.13108	0.00981	0	542.2		dn 77"			10'	2.52		
0.11592	0.17390	0.05798	0	257.5		dn 77" cv			10'	3.30		
0.11594	0.22343	0.10749	0	470.6	hi/peak 24"	14"			16'	2.19	"note: all Snag Creek stages now done on stage gage hence high and current readings"	
0.11377	0.17620	0.06243	0	273.3								
0.11505	0.14133	0.02628	0	115.0								
				Total 858.9								
0.11413	0.11613	0.00200	0	14.4		0 [1]			16'	16.68	[1] "not registering"	
0.11445	0.13985	0.02540	0	128.4		1"			16'	14.02		
0.11569	0.12522	0.00953	0	45.8		0			16'	8.88		
0.10653	0.12401	0.01748	0	71.4		5.0"			16'	4.19	PVC high mark = 23"	
0.10814	0.18302	0.07488	0	369.0		6" [1]			16'	3.69	[1] high mark = 13"	
0.10700	0.19981	0.09281	0	457.3								
				Total 826.3								
0.10933	0.15214	0.04281	0	193.5		7" [1]			16'	3.21	[1] high mark = 17"	
0.10719	0.21937	0.11218	0	475.1		2.5"			16'	8.23		
0.10719	0.11507	0.00788	0	32.5		1" [1]			16'	5.87	[1] high mark = 16"	
0.10739	0.11120	0.00381	0	16.0		0			16'	6.00		
						[1]			[1]	[1]	[1] "in notes"	
0.10908	0.14489	0.03581	0	148.2		[1]			[1]	[1]	[1] "in notes"	

Jacoby Creek at Old Arcata Road Bridge (OAR)

Old Arcata Road (F3K300) PM 7.49 Bridge # 4C-0182

compiled by Nate Lomba and Clark Fenton

Humboldt County, California

Checked By C. Fenton

Hydrologic Year 01

Grab Sampling: Turbidity / Suspended Sediment Data - provisional

Salmon Forever / Sunny Brae Sediment Lab

Sign in page #	Datasheet #	Location Sampled	Date Sampled	Time Sampled	Sampled By	Turbidity FTU	Tur. Code	Container Type	Turbidity Date run	Turbidity Time run	Turbidity By	TUM S/N	Tare Bottle Weight g	Total Bottle Weight g	Volume/ Bottle Wt.	Filter Total
2		OAR	11/17/98	9:56	J. Frincke	122	0	2x6			J. Frincke	9614				
4	12	OAR	11/21/98	7:50	J. Frincke	846	0	Hach Cell	11/21/98		J. Frincke	9614	18.0	35.5	17.5	1 1
7		OAR	11/21/98	0:40	S. Kett	359	0	Hach Cell	11/22/98		S. Kett	9614				
10		OAR	11/23/98	11:15	J. Noell	188	0	DIS	11/25/98	15:20	J. Noell	9614				
10		OAR	11/24/98	11:15	J. Noell	186	0	Hach Cell	11/24/98	21:45	J. Noell	9614				
10	24	OAR	11/26/98	11:45	J. Noell	305	0	DIS	02/27/99	15:14	J. Noell	9614	376.3	731.6	355.3	1 2
	24												376.3	731.6	355.3	2 2
	24															
11		OAR	11/26/98	10:28	J. Frincke	467	0	Hach Cell	11/27/98		J. Frincke	9614	18.0	35.3	17.3	1 1
12	26	OAR	11/30/98	8:09	J. Frincke	171	0	Hach Cell	11/30/98		J. Frincke	9614	17.9	31.7	13.8	1 1
16	31	OAR	12/13/98	21:01	J. Noell	191	0	DIS	12/13/98	21:36			370.0	798.7	428.7	1 2
	31												370.0	798.7	428.7	2 2
	31															
21	38	OAR	11/30/98	16:03	J. Frincke	129	0	PB 2x6	01/17/99	11:31	J. Frincke	9614	24.4	235.8	211.4	1 1
27	46	OAR	1/14/99	19:00	B. Russell	3	0	glass jar	01/22/99	17:27	S. Kett	9614	236.6	348.3	111.7	1 1
27	46	OAR	1/15/99	10:30	B. Russell	73	0	glass jar	01/22/99	17:30	S. Kett	9614	473.8	992.9	519.1	1 1
27	46	OAR	1/19/99	9:30	B. Russell	34	0	glass jar	01/22/99	17:37	S. Kett	9614	238.4	419.9	181.5	1 1
27	46	OAR	1/21/99	17:00	B. Russell	33	0	glass jar	01/22/99	17:41	S. Kett	9614	283.5	615.8	332.3	1 1
44	59	OAR	2/6/99	10:30	B. Russell	143	0	glass jar	02/21/99	14:22	S. Kett	9614	245.9	562.3	316.4	1 2
	59												245.9	562.3	316.4	2 2
44	59	OAR	2/7/99	17:45	B. Russell	142	0	glass jar	02/21/99	14:33	S. Kett	9614	278.5	573.9	295.4	1 1
46	55	OAR	2/18/99	11:00	B. Russell	93.6	0	glass jar	02/25/99	15:10	S. Kett	9614	255.5	573.6	318.1	1 2
	55												255.5	573.6	318.1	2 2
46	56	OAR	2/24/99	17:45	B. Russell	36.7	0	glass jar	02/25/99	15:22	S. Kett	9614	165.6	410.1	244.5	1 1

Jacoby Creek at Old Arcata Road Bridge (OAR)													
Old Arcata Road (F3K300) PM 7.49 Bridge # 4C-0182													
Humboldt County, California													
Hydrologic Year 01													
Grab Sampling: Turbidity / Suspended Sediment Data - provisional											raw stage is depth of flo		
Salmon Forever / Sunny Brae Sediment Lab											Floating object		
Stage is measured down from deck upstream at center?													
Filter ID	Initial Filter Weight g	Final Filter Weight g	Sediment Wt.	Lab Code	Total Mg/L	Turbidity FTU	Raw Stage	Stage	Discharge CFS	Vel. Str. hi or lo	Vel. dist.	Vel. sec.	Comments
						122							
205	0.11748	0.12792	0.01044	0	596.8	846		12" [1]					[1] "from bottom of bridge"
						359		10'4"					"high tide"
						188							"All sta." "fine sand bottom of DIS Bottle"
						186	28" depth ?	28 / 47 [1]					[1] "under bridge"
414	0.11490	0.27162	0.15672	0	441.2	305		[1]					[1] "every 5' for 70'
415	0.11645	0.16037	0.04392	0	123.6								
				Total	564.8								
434	0.11266	0.12168	0.00902	0	521.6	467		dn 21.0"			15'	3.01	[1] 3.01 - 2.97 - 3.41 sec.
												2.97	
												3.41	
453	0.12334	0.12766	0.00432	0	313.1	171		dn 5.0' [1]			36'	8.68	[1] "taken off bridge"
560	0.12615	0.18988	0.06373	0	148.7	191	dn 29 mp	dn 50"				8.31	mp = crest stage gage dnstrm RL
561	0.12709	0.20180	0.07471	0	174.3							7.91	
				Total	323.0								
711	0.11372	0.15005	0.03633	0	171.9	129		dn 46"			15'	3.79	
887	0.11349	0.11502	0.00153	0	13.7	3		n/a			n/a		
888	0.11471	0.15001	0.03530	0	68.0	73		89.5"			36'	10.00	
889	0.11259	0.12154	0.00895	0	49.3	34		7'4"			n/a		
890	0.11511	0.12435	0.00924	0	27.8	33		7'4"			36'	8.00	
1221	0.10971	0.21455	0.10484	0	331.4	143		n/a			36'	8.40	
1222	0.10747	0.12748	0.02001	0	63.2								
				Total	394.6								
1226	0.10690	0.15628	0.04938	0	167.2	142		7'			36'	8.60	
1153	0.10187	0.13929	0.03742	0	117.6	93.6						8.50	
1154	0.10720	0.11442	0.00722	0	22.7								
1218	0.10687	0.11826	0.01139	0	46.6	36.7		5'4"				10.58	

Jacoby Creek - Rebel Creek (Rebel)																	
Compiled by Nate Lomba and Clark Fenton						Humboldt County, California											
Checked By C. Fenton						Hydrologic Year 99											
Grab Sampling: Turbidity / Suspended Sediment Data - provisional																	
Salmon Forever / Sunny Brae Sediment Lab																	
Sign in page #	Datasheet #	Location Sampled	Date Sampled	Time Sampled	Sampled By	Turbidity FTU	Tur. Code	Container Type	Turbidity Date run	Turbidity Time run	Turbidity By	TUM S/N	Tare Bottle Weight g	Total Bottle Weight g	Volume/ Bottle Wt.	Filter Total	Filter ID
22	39	Rebel	12/2/98	15:10	B. Hanley	54	0	PB 2x6	1/17/99	12:06		9614	27.2	269.1	241.9	1 1	728

Jacoboy Creek - Rebel Creek (Rebel)										
Humboldt County, California										
Hydrologic Year 99										
Grab Sampling: Turbidity / Suspended Sediment Data - provisional										
Salrnon Forever / Sunny Brae Sediment Lab										
Stage is measured at ...										
Initial Filter Weight g	Final Filter Weight g	Sediment Wt.	Lab Code	Total Mg/L	Stage	Discharge CFS	Vel. Str. hi or lo	Vel. dist.	Vel. sec.	Comments
0.11414	0.15638	0.04224	0	174.6	24"			20'	3.53	

Jacoby Creek (Jacoby) probable OAR

Compiled by Nate Lomba and Clark Fenton

Humboldt County, California

Checked By C. Fenton

Hydrologic Year 99

Grab Sampling: Turbidity / Suspended Sediment Data - provisional

Salmon Forever / Sunny Brae Sediment Lab

Sign in page #	Datasheet #	Location Sampled	Date Sampled	Time Sampled	Sampled By	Turbidity FTU	Tur. Code	Container Type	Turbidity Date run	Turbidity Time run	Turbidity By	TUM S/N	Tare Bottle Weight g	Total Bottle Weight g	Volume/ Bottle Wt.
3		Jacoby	11/17/98	01:00	S. Kett	30.2	0	?	11/21/98		S. Kett	9614	25.9	272.9	247
3		Jacoby	11/17/98	08:45	S. Kett	136	0	?	11/21/98		S. Kett	9614	187.4	446.1	258.7
23		Jacoby	01/18/99	01:35	S. Kett	202	0	Hach Cell	01/19/99	14:53	S. Kett	9614			
28		Jacoby	01/24/99	11:31	J. Frincke	51	0	---	01/24/99	12:07	J. Frincke	9614			
34		Jacoby	02/72/99	02:51	S. Kett	115	0	---	02/08/99	09:35	S. Kett	9614			

Jacoby Creek at Old Arcata Road Bridge (OAR)

Old Arcata Road (F3K300) PM 7.49 Bridge # 4C-0182

Humboldt County, California

Hydrologic Year 01

Grab Sampling: Turbidity / Suspended Sediment Data - provisional

Salmon Forever / Sunny Brae Sediment Lab Stage is measured at ...

Filter Total	Filter ID	Initial Filter Weight g	Final Filter Weight g	Sediment Wt.	Lab Code	Total Mg/L	Stage	Discharge CFS	Vel. Str. hi or lo	Vel. dist.	Vel. sec.	Comments
1	1	383	0.11915	0.13621	0	69.1	12'6" [1]			20'	11.00	[1] "to top of rail"
1	1	384	0.11398	0.15788	0	169.7	10'1" [1]			?	?	[1] "to top of rail"
							9'2.5" [1]			[2]	11.00	[1] "to top of metal rail", [2] "bridge length"
							[1]			40'	[2]	[1] dn 60 bridge = dn 42 MP, [2] V = 8.25 sec. fast RC, 10.75 sec. slow RR
							9'9" dn rail					

North Fork Elk River (KRW)

Hydrologic Year 99

Compiled by C. Fenton

Kristi Wrigley Property - 2550 Wrigley Road Eureka / Humboldt County, California

Turbidity / Suspended Sediment Data - Grab Sampling

Salmon Forever / Sunny Brae Sediment Lab

Sample is taken at agricultural pump intake

Sign-in page#	Location	Date	Time	Sampled By	Type Container	Turbidity Date Run	Turbidity Time Run	Turbidity Run BY	TUM S/N	Tur. Code	FTU Turbidity	Tare Bot. Wt. g	Tot. Bott. Weight g	Volume/ Bottle Wt.	Filter Total	Filter ID	Initial Filter Weight g
52	NF/KRW	03/07/99		K. Wrigley	3x8gl	3/01/99	19:58	C. Fenton	9614	0	28.6	310.7	601.7	291	1 7	1126	0.10295
															2 7	1127	0.10521
															3 7	1128	0.10173
															4 7	1129	0.10303
															5 7	1130	0.1063
															6 7	1131	0.10436
															7 7	1132	0.10234
52	NF/KRW	03/08/99	17:00	K. Wrigley	2 X 5 Glass	3/19/99	20:03	C. Fenton	9614	0	329	200.4	508.6	308.2	1 3	1133	0.1026
														0	2 3	1134	0.1027
														0	3 3	1135	0.10581
52	NF/KRW	03/13/99	08:00	K. Wrigley	2.5 x 7 Gl.	3/19/99	20:06		9614	0	30.8	270.8	623.3	352.5	1 1	1136	0.10387
57	KRW	03/27/99	10:00	K. Wrigley	jar	4/10/99	14:43	C. Fenton	9614	0	95						
57	KRW	04/03/99	10:00	K. Wrigley	jar	4/10/99	14:47	C. Fenton	9614	0	65.5						
60	KRW	04/10/99	10:00	K. Wrigley	jar	4/25/99	17:06	C. Fenton	9614	0	45.5						
60	KRW	04/17/99		K. Wrigley	jar	4/25/99	17:06	C. Fenton	9614	0	34.8						
60	KRW	04/19/99	07:00	K. Wrigley	jar	4/25/99	17:08	C. Fenton	9614	0	17.2						
62	KRW	04/21/99	18:00	K. Wrigley	jar	7/09/99		J. Noell	9614	0	11.2						
62	KRW	05/03/99	20:00	K. Wrigley	jar	7/09/99		J. Noell	9614	0	106.0						
62	KRW	05/10/99		K. Wrigley	jar	7/09/99		J. Noell	9614	0	9.62						
62	KRW	05/12/99		K. Wrigley	jar	1/06/04		J. Noell	9614	0	5.43						

North Fork Elk River (KRW)

Hydrologic Year 99

Kristi Wrigley Property - 2550 Wrigley Road Eureka / Humboldt County, California

Turbidity / Suspended Sediment Data - Grab Sampling

Salmon Forever / Sunny Brae Sediment Lab

Final Filter	Sediment Wt	Lab	FTU	Mg/l	Date	Time	Stage	Disch.	Comments
Weight g		Code	Turbidity	PPM	Sampled	sampled	ft.	CFS	
0.10406	0.00111	0	28.6	63.3	03/07/99				Site KRW river 4' deep
0.1072	0.00199	0							very slow, water thick
0.10802	0.00629	0							Kristi's
0.10615	0.00312	0							Possible low vacuum
0.1086	0.00230	0							
0.10611	0.00175	0							
0.10421	0.00187	0							
0.12532	0.02272	0	329	343	03/08/99	17:00			KRW river 5' 2" deep
0.14034	0.03764	0							
0.15114	0.04533	0							
0.11869	0.01482	0	30.8	42.04	03/13/99	08:00			KRW river 4' deep
			95		03/27/99	10:00			river 4' + - no rain 48 hours
			65.5		04/03/99	10:00			river @ 4' +
			45.5		04/10/99	10:00			not good yet - run ssc
			34.8		04/17/99				no rain for 6 days - not quite good to pump
			17.2		04/19/99	07:00			almost good enough to pump but not quite
			11.2		04/21/99	18:00			pumpable 3'8" no rain 10 days previous
			106.0		05/03/99	20:00			river @5.5' -was @2' before the rain starting on Saturday - 1.4" rain off/on Sat/Sun
			9.62		05/10/99				borderline agriculture ok - river @ 2' 10"
			5.43		05/12/99				trace of ppt measured - no rain since the 3rd - water pumpable

North Fork Elk River (NF/ NFELK)

Hydrologic Year 99

Compiled by C.Fenton

Elk River Bridge #4C-57 / Elk River Rd. # 3J305 PM 3.38 / Humboldt County, California

Turbidity / Suspended Sediment Data - Grab Sampling

Salmon Forever / Sunny Brae Sediment Lab

Sampled from lowered container from upstream center bridge rail

Sign-in page#	Location	Date	Time	Sampled By	Type Container	Turbidity Date Run	Turbidity Time Run	Turbidity Run BY	TUM S/N	Tur. Code	FTU Turbidity	Tare Bot. Wt. g	Tot. Bott. Weight g	Volume/ Bottle Wt.	Filter Total	Filter ID	Initial Filter Weight g	Final Filter Weight g
	NF	01/24/98	12:00	R. Kraus					9614	0	39.5							
	NF	01/25/98	13:00	R. Kraus					9614	0	27.2							
	NF	01/26/98	12:10	R. Kraus					9614	0	138							
	NF	01/26/98	20:00	R. Kraus	Hach Cell				9614	1	1000+	18.3	38.7	20.4	1 1	6	0.12324	0.15447
	NF	01/27/98	11:30	R. Kraus					9614	0	148							
	NF	01/28/98	12:45	R. Kraus					9614	0	48.3							
	NF	01/29/98	12:30	R. Kraus					9614	0	299							
	NF	01/30/98	13:00	R. Kraus					9614	0	86.2							
	NF	01/31/98	10:30	R. Kraus					9614	0	50.2							
	NF	02/02/98		R. Kraus														
	NF	02/03/98		R. Kraus														
	NF	02/04/98		R. Kraus														
	NF	02/05/98	13:00	R. Kraus					9614	0	57							
	NF	02/06/98	08:00	R. Kraus					9614	0	163							
	NF	02/07/98	17:00	R. Kraus					9614	0	545							
	NF	02/08/98	10:34	R. Kraus					9614	0	534							
	NF / E			R. Kraus	Hach Cell							18	37.6	19.6	1 1	10	0.12358	0.14319
	NF2		11:30	R. Kraus	Hach Cell							18	29.2	11.2	1 1	13	0.12276	0.12682
	NF	11/06/98	12:45	R. Kraus	Hach Cell				9614	0	3.16	18.2	37.6	19.4	1 1	131	0.12820	0.12825
	NF	11/07/98	13:05	R. Kraus	Hach Cell				9614	0	97.7	18.1	36.9	18.8	1 1	132	0.12784	0.12887
	NF	11/08/98	13:05	R. Kraus	Hach Cell				9614	0	44.5	18.5	36.9	18.4	1 1	134	0.12476	0.12491
	NF	11/17/98	17:53	R. Kraus					9614	0	180	24.6	265.1	240.5	1 1	171	0.11899	0.15094
6	NF	11/20/98	12:30	R. Kraus	Hach Cell	11/21/98		C. Fenton	9614	0	16.2	18.2	35.5	17.3	1 1	299	0.12010	0.12022
6	NF	11/20/98	23:15	R. Kraus	Hach Cell	11/21/98		C. Fenton	9614	0	38.6	18.1	32.6	14.5	1 1	300	0.12059	0.12101
6	NF	11/21/98	08:00	R. Kraus	Hach Cell	11/21/98		C. Fenton	9614	1	1000+	17.9	36.8	18.9	1 1	301	0.12140	0.14446
6	NF	11/21/98	15:30	R. Kraus	Hach Cell	11/21/98		C. Fenton	9614	1	1000+	17.9	37.4	19.5	1 1	302	0.12154	0.16299
6	NF	11/22/98	10:00	R. Kraus	Hach Cell			C. Fenton	9614	0	326	17.9	37.8	19.9	1 1	303	0.11948	0.12510
10	NF	11/23/98	14:05	J. Noell	DIS	11/25/98	15:18	C. Fenton	9614	0	679	369.8	618.5	248.7	1 2	396	0.11313	0.24438
				R. Kraus										0	2 2	397	0.11158	0.12979
12	NF	11/23/98	09:00	R. Kraus	Hach Cell	11/30/98	19:04	C. Fenton	9614	0	404	17.9	37.5	19.6	1 1	459	0.12018	0.12748
10	NF	11/23/98	14:50	R. Kraus	Hach Cell	11/24/98	21:35	J. Noel	9614	0	739	17.8	37.1	19.3	1 1	406	0.11478	0.12680

North Fork Elk River (NF/ NFELK)									
Hydrologic Year 99									
Elk River Bridge #4C-57 / Elk River Rd. # 3J305 PM 3.38 / Humboldt County, California									
Turbidity / Suspended Sediment Data - Grab Sampling									
Salmon Forever / Sunny Brae Sediment Lab					staff plate = 21.06 -rail				
Stage is feet down from top of upstream center bridge rail									
Sediment Wt	Lab	FTU	Mg/l	Date	Time	Stage		Comments	
	Code	Turbidity	PPM	Sampled	sampled	ft.	Disch.		
		39.5		01/24/98	12:00				
		27.2		01/25/98	13:00				
		138		01/26/98	12:10				
0.03123	0	1000+	1532.34	01/26/98	20:00			2000	
		148		01/27/98	11:30				
		48.3		01/28/98	12:45				
		299		01/29/98	12:30				
		86.2		01/30/98	13:00				
		50.2		01/31/98	10:30				
				02/02/98		12.5		2.3 ft/sec	
				02/03/98		1.9		2.0 ft/sc	
				02/04/98		13.9		13.2 9.8 11.4 sec 1.6 ft/sec	
		57		02/05/98	13:00	15.2		10.6 1.4 ft /sec	
		163		02/06/98	08:00			0.8 ft/sec	
		545		02/07/98	17:00	9.25		13.4 10.2 13.2 1.7 ft/sec	
		534		02/08/98	10:34	4.5			
0.01961	0		1001.13						
0.00406	0		362.58		11:30			TWO/THREE	
0.00005	0	3.16	2.58	11/06/98	12:45	19.50			
0.00103	0	97.7	54.79	11/07/98	13:05	18.60			
0.00015	0	44.5	8.15	11/08/98	13:05	19.00			
0.03195	0	180	132.86	11/17/98	17:53				
0.00012	0	16.2	6.94	11/20/98	12:30			1.1" rain since 13:40 on 11/19	
0.00042	0	38.6	28.97	11/20/98	23:15	14.30			
0.02306	0	1000+	1221.03	11/21/98	08:00	5.80		Flood - over road from corner to bridge. (SF up about 5 feet	
0.04145	0	1000+	2128.46	11/21/98	15:30				
0.00562	0	326	282.46	11/22/98	10:00	10.50			
0.13125	9	679	601.20	11/23/98	14:05			dropped tray	
0.01821	9								
0.00730	0	404	372.54	11/23/98	09:00	12.50			
0.01202	0	739	623.04	11/23/98	14:50				

Sign-in page#	Location	Date	Time	Sampled By	Type Container	Turbidity Date Run	Turbidity Time Run	Turbidity Run BY	TUM S/N	Tur. Code	FTU Turbidity	Tare Bot. Wt. g	Tot. Bott. Weight g	Volume/ Bottle Wt.	Filter Total	Filter ID	Initial Filter Weight g	Final Filter Weight g
12	NF	11/23/98	16:45	R. Kraus	Hach Cell	11/30/98	19:06	C. Fenton	9614	0	436	18.2	37.5	19.3	1 1	460	0.12082	0.12772
12	NF	11/24/98	07:40	R. Kraus	Hach Cell	11/30/98	19:21	C. Fenton	9614	0	309	18.3	37.2	18.9	1 1	461	0.12189	0.12601
12	NF	11/25/98	09:30	R. Kraus	Hach Cell	11/30/98	19:23	C. Fenton	9614	0	73.2	17.9	36.4	18.5	1 1	462	0.12412	0.12506
12	NF	11/26/98	09:30	R. Kraus	Hach Cell	11/30/98	19:24	C. Fenton	9614	0	204	17.8	36.9	19.1	1 1	463	0.12085	0.12431
12	NF	11/29/98	08:45	R. Kraus	Hach Cell	11/30/98	19:27	C. Fenton	9614	0	59.8	17.9	34.1	16.2	1 1	464	0.12059	0.12099
14	NF	11/30/98	16:30	R. Kraus	Hach Cell	12/04/98	19:45	C. Fenton	9614	0	421	18.1	36.9	18.8	1 1	499	0.12058	0.12678
14	NF	12/01/98	09:30	R. Kraus	Hach Cell	12/04/98	19:47	C. Fenton	9614	0	241	17.7	34.7	17	1 1	501	0.12451	0.12806
14	NF	12/01/98	16:30	R. Kraus	Hach Cell	12/04/98	19:50	C. Fenton	9614	0	128	18.4	38.1	19.7	1 1	502	0.12121	0.12403
14	NF	12/01/98	23:00	R. Kraus	Hach Cell	12/04/98	19:55	C. Fenton	9614	0	102	18.2	37.7	19.5	1 1	503	0.12179	0.12392
14	NF	12/02/98	08:15	R. Kraus	Hach Cell	12/04/98	19:57	C. Fenton	9614	0	628	18.1	37	18.9	1 1	507	0.12400	0.13751
14	NF	12/02/98	18:30	R. Kraus	Hach Cell	12/04/98	20:11	C. Fenton	9614	0	468	18.3	37.3	19	1 1	508	0.12828	0.13537
	NF	12/03/98	08:30	R. Kraus	Hach Cell				9614	0	324	18.4	38.3	19.9	1 1	509	0.12654	0.13316
	NF	12/04/98	10:30	R. Kraus	Hach Cell				9614	0	104	17.9	36.7	18.8	1 1	511	0.12482	0.12726
15	NF	12/05/98	17:15	R. Kraus	Hach Cell	12/10/98	18:44	P. Rhude	9614	0	149	17.9	36.9	19	1 1	519	0.12707	0.13038
15	NF	12/05/98	09:45	R. Kraus	Hach Cell	12/10/98	18:43	P. Rhude	9614	0	65.8	18.3	36.1	17.8	1 1	520	0.12777	0.12891
14	NF	12/05/98	12:45	J. Noell	DIS		16:17	J. Noel	9614	0	61.5							
15	NF	12/06/98	10:00	R. Kraus	Hach Cell	12/10/98	18:42	P. Rhude	9614	0	142	18.3	37.3	19	1 1	526	0.12583	0.12852
15	NF	12/07/98	08:30	R. Kraus	Hach Cell	12/10/98	18:46	P. Rhude	9614	0	54	18	34.2	16.2	1 1	536	0.12694	0.12775
15	NF	12/08/98	10:15	R. Kraus	Hach Cell	12/10/98	18:48	P. Rhude	9614	0	50	18	37.5	19.5	1 1	534	0.12690	0.12760
15	NF	12/09/98	11:10	R. Kraus	Hach Cell	12/10/98	18:49	P. Rhude	9614	0	45	18.2	33.6	15.4	1 1	538	0.12512	0.12549
18	NF	12/13/98	10:00	R. Kraus	Hach Cell	12/17/98	20:23	C. Fenton	9614	0	20.1	18.5	35.9	17.4	1 1	566	0.12889	0.12873
18	NF	12/13/98	18:00	R. Kraus	Hach Cell	12/17/98	20:25	C. Fenton	9614	0	584	18.3	35.4	17.1	1 1	570	0.12929	0.13845
18	NF	12/13/98	22:00	R. Kraus	Hach Cell	12/17/98	20:27	C. Fenton	9614	0	804	18	36.3	18.3	1 1	571	0.12714	0.14079
18	NF	12/14/98	08:45	R. Kraus	Hach Cell	12/17/98	20:29	C. Fenton	9614	0	131	18.2	37.1	18.9	1 1	592	0.12713	0.12953
18	NF	12/14/98	17:00	R. Kraus	Hach Cell	12/17/98	20:29	C. Fenton	9614	0	83.3	18.4	36.6	18.2	1 1	593	0.12659	0.12808
18	NF	12/15/98	10:05	R. Kraus	Hach Cell	12/17/98	20:33	C. Fenton	9614	0	49.4	18.1	36.4	18.3	1 1	608	0.11647	0.11689
18	NF	12/16/98	09:30	R. Kraus	Hach Cell	12/17/98	20:36	C. Fenton	9614	0	34.7	18	37.1	19.1	1 1	609	0.11605	0.11624
19	NF	12/18/99	09:45	R. Kraus	Hach Cell	12/27/01	17:07	C. Fenton	9614	0	24.6	17.9	34.8	16.9	1 1	610	0.11257	0.11279
19	NF	12/20/99	10:00	R. Kraus	Hach Cell	12/27/01	17:09	C. Fenton	9614	0	22.3	17.8	35.8	18	1 1	612	0.11582	0.11587
19	NF	12/21/98	09:30	R. Kraus	Hach Cell	12/27/01	17:11	C. Fenton	9614	0	19.4	18.3	38.5	20.2	1 1	614	0.113	0.1131
19	NF	12/22/98	10:00	R. Kraus	Hach Cell	12/27/01	17:13	C. Fenton	9614	0	14.5	17.9	37	19.1	1 1	616	0.11613	0.11603
19	NF	12/23/98	10:00	R. Kraus	Hach Cell	12/27/01	17:15	C. Fenton	9614	0	11.4	17.9	37.1	19.2	1 1	618	0.11278	0.11266
19	NF	12/25/98	12:45	R. Kraus	Hach Cell	12/27/01	17:17	C. Fenton	9614	0	12	18.1	35.7	17.6	1 1	620	0.11736	0.11707
25	NF	12/27/98	14:00	R. Kraus	Hach Cell	1/21/99	17:35	C. Fenton	9614	0	10.5	18.2	35	16.8	1 1	804	0.11313	0.11275
25	NF	12/29/98	14:00	R. Kraus	3x7	1/21/99	17:39	C. Fenton	9614	0	9.72							
25	NF	01/01/99	11:20	R. Kraus	3X7	1/21/99	17:43	C. Fenton	9614	0	33.1							
26	NF	01/09/99	11:45	R. Kraus	3 X 8	1/21/99	17:47	C. Fenton	9614	0	6.51	33.4	534.2	500.8	1 1	805	0.11504	0.11658
26	NF	01/15/99	10:00	R. Kraus	Hach Cell	1/21/99	17:49	C. Fenton	9614	0	149	18.3	37	18.7	1 1	811	0.11446	0.11626

Sediment Wt	Lab Code	FTU Turbidity	Mg/l PPM	Date Sampled	Time sampled	Stage ft.	Disch.	Comments
0.00690	0	436	357.59	11/23/98	16:45	8.30		
0.00412	0	309	218.02	11/24/98	07:40	9.00		
0.00094	0	73.2	50.81	11/25/98	09:30	16.00		
0.00346	0	204	181.17	11/26/98	09:30	14.30		
0.00040	0	59.8	24.69	11/29/98	08:45	16.50		
0.00620	0	421	329.85	11/30/98	16:30	9.00		
0.00355	0	241	208.85	12/01/98	09:30	10.00		
0.00282	0	128	143.16	12/01/98	16:30	13.00		
0.00213	0	102	109.24	12/01/98	23:00	13.00		
0.01351	0	628	715.13	12/02/98	08:15	6.00		floating objects can't flo thru
0.00709	0	468	373.24	12/02/98	18:30	4.00		water on bridge approach
0.00662	0	324	332.73	12/03/98	08:30	3.75		
0.00244	0	104	129.80	12/04/98	10:30	13.75		
0.00331	0	149	174.23	12/05/98	17:15			
0.00114	0	65.8	64.05	12/05/98	09:45	16.20		
		61.5		12/05/98	12:45	16.00		V=14.31 SEC /21' dis rr to 7' depth
0.00269	0	142	141.59	12/06/98	10:00	13.30		
0.00081	0	54	50.00	12/07/98	08:30	13.20		
0.00070	0	50	35.90	12/08/98	10:15	16.50		
0.00037	0	45	24.03	12/09/98	11:10	17.25		
-0.00016	1	20.1		12/13/98	10:00	18.75		
0.00916	0	584	535.85	12/13/98	18:00	15.25		
0.01365	0	804	746.25	12/13/98	22:00	12.25		
0.00240	0	131	126.99	12/14/98	08:45	13.75		
0.00149	0	83.3	81.87	12/14/98	17:00	15.50		
0.00042	0	49.4	22.95	12/15/98	10:05	16.50		
0.00019	0	34.7	9.95	12/16/98	09:30	18.00		
0.00022	0	24.6	13.02	12/18/99	09:45			
0.00005	0	22.3	2.78	12/20/99	10:00	18.60		
0.00010	0	19.4	4.95	12/21/98	09:30	19.20		
-0.00010	1	14.5		12/22/98	10:00	19.3		
-0.00012	1	11.4		12/23/98	10:00	19.3		
-0.00029	1	12		12/25/98	12:45	19.5		
-0.00038	1	10.5		12/27/98	14:00	19.3		
		9.72		12/29/98	14:00	19.5		
		33.1		01/01/99	11:20	18.6		
0.00154	0	6.51	3.08	01/09/99	11:45	19.75		
0.00180	0	149	96.26	01/15/99	10:00	17.50		

Sign-in page#	Location	Date	Time	Sampled By	Type Container	Turbidity Date Run	Turbidity Time Run	Turbidity Run BY	TUM S/N	Tur. Code	FTU Turbidity	Tare Bot. Wt. g	Tot. Bott. Weight g	Volume/ Bottle Wt.	Filter Total	Filter ID	Initial Filter Weight g	Final Filter Weight g
26	NF	01/15/99	19:15	R. Kraus	Hach Cell	1/21/99	17:51	C. Fenton	9614	0	105	17.9	36.9	19	1 1	812	0.11242	0.11317
26	NF	01/15/99	19:16	R. Kraus	Hach Cell	1/21/99	17:53	C. Fenton	9614	0	0.54	18.2	35.8	17.6	1 1	813	0.11585	0.11554
26	NF	01/16/99	09:15	R. Kraus	Hach Cell	1/21/99	17:56	C. Fenton	9614	0	86.7	18.6	37.7	19.1	1 1	815	0.11496	0.11593
23	NF	01/17/99	09:58	J. Noell		1/18/99	19:50	J. Noell	9614	0	182							
26	NF	01/17/99	10:30	R. Kraus	Hach Cell	1/21/99	18:01	C. Fenton	9614	0	42.2	18.4	36.5	18.1	1 1	816	0.11214	0.11231
	NF	01/18/99	09:58	R. Kraus														
26	NF	01/18/99	10:30	R. Kraus	Hach Cell	1/21/99	18:04	C. Fenton	9614	0	190	18.2	37	18.8	1 1	817	0.11497	0.11807
25	NF	01/19/99	10:10	R. Kraus	Hach Cell	1/21/99	18:06	C. Fenton	9614	0	169	17.9	35.3	17.4	1 1	819	0.11379	0.11671
26	NF	01/19/99	21:30	R. Kraus	Hach Cell	1/21/99	18:08	C. Fenton	9614	0	183	18.2	36.9	18.7	1 1	821	0.11196	0.1146
26	NF	01/19/99	23:45	R. Kraus	Hach Cell	1/21/99	18:10	C. Fenton	9614	0	887	18.1	35.9	17.8	1 1	825	0.11273	0.13509
26	NF	01/20/99	10:20	R. Kraus	Hach Cell	1/21/99	18:12	C. Fenton	9614	0	91.8	18.7	37.9	19.2	1 1	823	0.11543	0.1162
26	NF	01/21/99	12:25	R. Kraus	3x8	1/21/99	18:15	C. Fenton	9614	0	85.7							
30	NF	01/22/99	16:30	R. Kraus	2X6	2/05/99	15:35	C. Fenton	9614	0	215							
30	NF	01/23/99	09:15	R. Kraus	2X6	2/05/99	15:37	C. Fenton	9614	0	241							
30	NF	01/24/99	13:40	R. Kraus	2X6	2/05/99	15:42	C. Fenton	9614	0	81.8							
30	NF	01/25/99	14:30	R. Kraus	2X6	2/05/99	15:44	C. Fenton	9614	0	51.6							
30	NF	01/26/99	09:40	R. Kraus	2X6	2/05/99	15:46	C. Fenton	9614	0	40							
30	NF	01/27/99	11:20	R. Kraus	2X6	2/05/99	15:49	C. Fenton	9614	0	30.5							
30	NF	01/28/99	09:40	R. Kraus	2X6	2/05/99	15:52	C. Fenton	9614	0	24.6							
30	NF	01/29/99	15:40	R. Kraus	2X6	2/05/99	15:54	C. Fenton	9614	0	19.2							
30	NF	01/30/99	14:45	R. Kraus	2X6	2/05/99	16:21	C. Fenton	9614	0	22							
30	NF	01/31/99	15:30	R. Kraus	2X6	2/05/99	16:23	C. Fenton	9614	0	37.5							
30	NF	02/01/99	17:35	R. Kraus	2X6	2/05/99	16:29	C. Fenton	9614	0	28.5							
30	NF	02/02/99	14:45	R. Kraus	2X6	2/05/99	16:31	C. Fenton	9614	0	15.2							
31	NF	02/04/99	16:30	R. Kraus		2/05/99	16:35	C. Fenton	9614	0	23.2							
30	NF	02/05/99	08:45	R. Kraus		2/05/99	16:37	C. Fenton	9614	0	28.7							
40	NF	02/06/99	09:00	R. Kraus	Hach Cell	2/13/99	10:46	C. Fenton	9614	0	154	18.5	37.7	19.2	1 1	940	0.11253	0.11576
40	NF	02/06/99	14:10	R. Kraus	Hach Cell	2/13/99	10:49	C. Fenton	9614	1	1702	18.4	36.8	18.4	1 1	972	0.11122	0.14889
40	NF	02/07/99	09:05	R. Kraus	Hach Cell	2/13/99	10:52	C. Fenton	9614	0	626	18.4	36.9	18.5	1 1	966	0.11078	0.12217
40	NF	02/07/99	12:30	R. Kraus	Hach Cell	2/13/99	10:55	C. Fenton	9614	0	956	18.5	37	18.5	1 1	967	0.11228	0.12724
40	NF	02/08/99	09:15	R. Kraus	Hach Cell	2/13/99	10:57	C. Fenton	9614	0	128	18.4	36.1	17.7	1 1	973	0.11153	0.11381
40	NF	02/08/99	17:20	R. Kraus	Hach Cell	2/13/99	10:59	C. Fenton	9614	0	121	18.5	35.8	17.3	1 1	974	0.11208	0.11446
40	NF	02/09/99	09:15	R. Kraus	Hach Cell	2/13/99	11:00	C. Fenton	9614	0	854	17.9	37.6	19.7	1 1	975	0.11121	0.12714
40	NF	02/10/99	09:20	R. Kraus	Hach Cell	2/13/99	11:02	C. Fenton	9614	0	145	17.9	36.8	18.9	1 1	976	0.11207	0.11489
40	NF	02/11/99	08:50	R. Kraus	Hach Cell	2/13/99	11:04	C. Fenton	9614	0	76.7	17.9	36.6	18.7	1 1	977	0.11048	0.11181
40	NF	02/11/99	08:50	R. Kraus	H/QC Dist.	2/13/99	11:06	C. Fenton	9614	0	1.02	17.9	34	16.1	1 1	978	0.1109	0.11074
40	NF	02/12/99	09:10	R. Kraus	Hach Cell	2/13/99	11:08	C. Fenton	9614	0	52.8	17.9	34.4	16.5	1 1	979	0.11136	0.11206
40	NF	02/13/99	08:15	R. Kraus	Hach Cell	2/13/99	11:10	C. Fenton	9614	0	39.6	18.3	37.3	19	1 1	980	0.11025	0.11101

Sediment Wt	Lab	FTU	Mg/l	Date	Time	Stage		Comments			
	Code	Turbidity	PPM	Sampled	sampled	ft.	Disch.				
0.00075	0	105	39.47	01/15/99	19:15	17.50					
-0.00031	1	0.54		01/15/99	19:16			qc blank - distilled water			
0.00097	0	86.7	50.79	01/16/99	09:15	16.80					
		182		01/17/99	22:27	156.00		dn 33 mp = 32" = dn 156" br rail			
0.00017	0	42.2	9.39	01/17/99	10:30	17.80					
				01/18/99	09:58			dn 33"mp = 32" above 0 stage RR9.50 11.34 9.78 9.34 RL / 21 "			
0.00310	0	190	164.91	01/18/99	10:30	13.30					
0.00292	0	169	167.83	01/19/99	10:10	14.60					
0.00264	0	183	141.19	01/19/99	21:30	12.25					
0.02236	0	887	1257.16	01/19/99	23:45						
0.00077	0	91.8	40.11	01/20/99	10:20	14.20					
		85.7		01/21/99	12:25	13.50					
		215		01/22/99	16:30	13.00					
		241		01/23/99	09:15	10.00					
		81.8		01/24/99	13:40	14.50					
		51.6		01/25/99	14:30	16.30					
		40		01/26/99	09:40	17.25					
		30.5		01/27/99	11:20	18.00					
		24.6		01/28/99	09:40	18.50					
		19.2		01/29/99	15:40	18.80					
		22		01/30/99	14:45	19.00					
		37.5		01/31/99	15:30	18.60					
		28.5		02/01/99	17:35	19.00					
		15.2		02/02/99	14:45						
		23.2		02/04/99	16:30	18.90					
		28.7		02/05/99	08:45	18.75					
0.00323	0	154	168.25	02/06/99	09:00	18.00		River rose 8.9 ft in 5 hrs 10 min after 0.3 in of rain			
0.03767	0	1702	2049.90	02/06/99	14:10	9.10					
0.01139	0	626	615.91	02/07/99	09:05	7.60					
0.01496	0	956	809.06	02/07/99	12:30	5.90		water about 6" over road			
0.00228	0	128	128.82	02/08/99	09:15	13.90					
0.00238	0	121	137.58	02/08/99	17:20	14.20					
0.01593	0	854	809.04	02/09/99	09:15	5.30		river 1 ft over road			
0.00282	0	145	149.22	02/10/99	09:20	12.25					
0.00133	0	76.7	71.13	02/11/99	08:50	14.50					
-0.00016	1	1.02		02/11/99	08:50			qc blank- distilled water			
0.00070	0	52.8	42.43	02/12/99	09:10	16.10					
0.00076	0	39.6	40.00	02/13/99	08:15	17.00					

Sign-in page#	Location	Date	Time	Sampled By	Type Container	Turbidity Date Run	Turbidity Time Run	Turbidity Run BY	TUM S/N	Tur. Code	FTU Turbidity	Tare Bot. Wt. g	Tot. Bott. Weight g	Volume/ Bottle Wt.	Filter Total	Filter ID	Initial Filter Weight g	Final Filter Weight g
48	NF	02/14/99	09:30	R. Kraus	Hach Cell	2/25/99	19:33	C. Fenton	9614	0	89.1							
48	NF	02/15/99	09:30	R. Kraus	Hach Cell	2/25/99	19:34	C. Fenton	9614	0	36.7							
48	NF	02/16/99	09:30	R. Kraus	Hach Cell	2/25/99	19:35	C. Fenton	9614	0	39.9							
48	NF	02/17/99	09:30	R. Kraus	Hach Cell	2/25/99	19:36	C. Fenton	9614	0	144							
48	NF	02/18/99	08:00	R. Kraus	Hach Cell	2/25/99	19:36	C. Fenton	9614	0	91.6							
48	NF	02/19/99	10:30	R. Kraus	Hach Cell	2/25/99	19:37	C. Fenton	9614	0	92.8							
48	NF	02/20/99	09:00	R. Kraus	Hach Cell	2/25/99	19:38	C. Fenton	9614	0	49.6							
48	NF	02/20/99	11:10	R. Kraus	Hach Cell	2/25/99	19:39	C. Fenton	9614	0	119							
48	NF	02/22/99	08:45	R. Kraus	Hach Cell	2/25/99	19:40	C. Fenton	9614	0	53							
48	NF	02/22/99	20:10	R. Kraus	Hach Cell	2/25/99	19:41	C. Fenton	9614	0	1.21							
48	NF	02/23/99	09:20	R. Kraus	Hach Cell	2/25/99	19:42	C. Fenton	9614	0	738							
53	NF	03/08/99	18:30	R. Kraus	Hach Cell	3/19/99	18:27	C. Fenton	9614	0	256							
53	NF	03/09/99	08:40	R. Kraus	Hach Cell	3/19/99	18:33	C. Fenton	9614	0	307							
53	NF	03/10/99	10:00	R. Kraus	Hach Cell	3/19/99	18:35	C. Fenton	9614	0	88							
53	NF	03/11/99	09:30	R. Kraus	Hach Cell	3/19/99	18:37	C. Fenton	9614	0	48.6							
53	NF	03/13/99	22:00	R. Kraus	Hach Cell	3/19/99	18:38	C. Fenton	9614	0	51.8							
53	NF	03/14/99	10:15	R. Kraus	Hach Cell	3/19/99	18:40	C. Fenton	9614	0	419							
53	NF	03/14/99	14:15	R. Kraus	Hach Cell	3/19/99	18:41	C. Fenton	9614	0	457							
53	NF	03/15/99	09:45	R. Kraus	Hach Cell	3/19/99	18:43	C. Fenton	9614	0	95							
53	NF	03/16/99	10:00	R. Kraus	Hach Cell	3/19/99	18:44	C. Fenton	9614	0	46.2							
53	NF	03/17/99	09:45	R. Kraus	Hach Cell	3/19/99	18:45	C. Fenton	9614	0	1.19							
53	NF	03/18/99	14:45	R. Kraus	Hach Cell	3/19/99	18:47	C. Fenton	9614	0	26.4							
53	NF	03/19/99	09:00	R. Kraus	Hach Cell	3/19/99	18:49	C. Fenton	9614	0	22.1							
57	NF	03/22/99	10:10	R. Kraus	Hach Cell	4/02/99	18:01	C. Fenton	9614	0	18.1							
57	NF	03/23/99	09:30	R. Kraus	Hach Cell	4/02/99	18:03	C. Fenton	9614	0	32.5							
57	NF	03/24/99	09:50	R. Kraus	Hach Cell	4/02/99	18:06	C. Fenton	9614	0	720							
57	NF	03/24/99	14:50	R. Kraus	Hach Cell	4/02/99	18:07	C. Fenton	9614	0	660							
57	NF	03/25/99	09:30	R. Kraus	Hach Cell	4/02/99	18:08	C. Fenton	9614	0	323							
57	NF	03/26/99	10:30	R. Kraus	Hach Cell	4/02/99	18:10	C. Fenton	9614	0	91							
57	NF	03/27/99	08:45	R. Kraus	Hach Cell	4/03/99	10:19	P. Rhude	9614	0	52.1							
57	NF	03/28/99	09:45	R. Kraus	Hach Cell	4/03/99	10:21	P. Rhude	9614	0	33.7							
57	NF	03/30/99	13:15	R. Kraus	Hach Cell	4/03/99	10:24	P. Rhude	9614	0	192							
57	NF	03/31/99	10:10	R. Kraus	Hach Cell	4/03/99	10:26	P. Rhude	9614	0	192							
57	NF	04/01/99	10:30	R. Kraus	Hach Cell	4/03/99	10:27	P. Rhude	9614	0	81.3							
58	NF	04/02/99	09:30	R. Kraus	Hach Cell	4/12/99	19:28	C. Fenton	9614	0	48.8							
58	NF	04/03/99	09:30	R. Kraus	Hach Cell	4/12/99	19:30	C. Fenton	9614	0	79.7							
58	NF	04/04/99	10:15	R. Kraus	Hach Cell	4/12/99	19:31	C. Fenton	9614	0	28.8							
58	NF	04/05/99	10:15	R. Kraus	Hach Cell	4/12/99	19:32	C. Fenton	9614	0	27.6							

Sediment Wt	Lab	FTU	Mg/l	Date	Time	Stage		Comments			
	Code	Turbidity	PPM	Sampled	sampled	ft.	Disch.				
		89.1		02/14/99	09:30	15.6					
		36.7		02/15/99	09:30	16.7					
		39.9		02/16/99	09:30	16.9					
		144		02/17/99	09:30	14.2					
		91.6		02/18/99	08:00	15.2					
		92.8		02/19/99	10:30	13.6					
		49.6		02/20/99	09:00	15.6					
		119		02/20/99	11:10						
		53		02/22/99	08:45	13.3					
		1.21		02/22/99	20:10			distilled qc blank			
		738		02/23/99	09:20	8.3					
		256		03/08/99	18:30	16.3					
		307		03/09/99	08:40	13.75					
		88		03/10/99	10:00	13.25					
		48.6		03/11/99	09:30	16.25					
		51.8		03/13/99	22:00	18.25					
		419		03/14/99	10:15	13					
		457		03/14/99	14:15	11.25					
		95		03/15/99	09:45	14.25					
		46.2		03/16/99	10:00	16.25					
		1.19		03/17/99	09:45			distilled qc blank			
		26.4		03/18/99	14:45	18					
		22.1		03/19/99	09:00	18.5					
		18.1		03/22/99	10:10	19.25		Dumped 4-6-99 no ssc			
		32.5		03/23/99	09:30	18.6		no ssc			
		720		03/24/99	09:50	13.9		no ssc			
		660		03/24/99	14:50	9.6		no ssc			
		323		03/25/99	09:30	8.5		no ssc			
		91		03/26/99	10:30	14.9		no ssc			
		52.1		03/27/99	08:45	16.5		no ssc			
		33.7		03/28/99	09:45	17.5		no ssc			
		192		03/30/99	13:15	17.5		no ssc			
		192		03/31/99	10:10	12		no ssc			
		81.3		04/01/99	10:30	14.25		no ssc			
		48.8		04/02/99	09:30	16.2		stage only no ssc			
		79.7		04/03/99	09:30	16.9		stage only no ssc			
		28.8		04/04/99	10:15	17.5		stage only no ssc			
		27.6		04/05/99	10:15	17.6		stage only no ssc			

Sign-in page#	Location	Date	Time	Sampled By	Type Container	Turbidity Date Run	Turbidity Time Run	Turbidity Run BY	TUM S/N	Tur. Code	FTU Turbidity	Tare Bot. Wt. g	Tot. Bott. Weight g	Volume/ Bottle Wt.	Filter Total	Filter ID	Initial Filter Weight g	Final Filter Weight g
58	NF	04/06/99	08:45	R. Kraus	Hach Cell	4/12/99	19:33	C. Fenton	9614	0	120							
58	NF	04/07/99	14:45	R. Kraus	Hach Cell	4/12/99	19:34	C. Fenton	9614	0	36.4							
58	NF	04/08/99	10:20	R. Kraus	Hach Cell	4/12/99	19:35	C. Fenton	9614	0	135							
58	NF	04/09/99	08:45	R. Kraus	Hach Cell	4/12/99	19:36	C. Fenton	9614	0	61.8							
58	NF	04/10/99	09:45	R. Kraus	Hach Cell	4/12/99	19:37	C. Fenton	9614	0	36.8							
58	NF	04/11/99	09:24	R. Kraus	Hach Cell	4/12/99	19:39	C. Fenton	9614	0	0.91							
58	NF	04/11/99	09:25	R. Kraus	Hach Cell	4/12/99	19:40	C. Fenton	9614	0	68.1							
58	NF	04/12/99	10:00	R. Kraus	Hach Cell	4/12/99	19:42	C. Fenton	9614	0	30.9							
61	NF	04/13/99	09:30	R. Kraus	Hach Cell	5/11/99	20:35	C. Fenton	9614	0	24.3							
61	NF	04/14/99	09:15	R. Kraus	Hach Cell	5/11/99	20:36	C. Fenton	9614	0	21.2							
61	NF	04/15/99	09:10	R. Kraus	Hach Cell	5/11/99	20:38	C. Fenton	9614	0	19.8							
61	NF	04/16/99	09:45	R. Kraus	Hach Cell	5/11/99	20:40	C. Fenton	9614	0	13.4							
61	NF	04/17/99	09:50	R. Kraus	Hach Cell	5/11/99	20:41	C. Fenton	9614	0	15.7							
61	NF	04/18/99	11:05	R. Kraus	Hach Cell	5/11/99	20:44	C. Fenton	9614	0	13.2							
61	NF	05/07/99	10:30	R. Kraus	Hach Cell	5/11/99	20:45	C. Fenton	9614	0	12.3							

Sediment Wt	Lab	FTU	Mg/l	Date	Time	Stage		Comments			
	Code	Turbidity	PPM	Sampled	sampled	ft.	Disch.				
		120		04/06/99	08:45	14.7		stage only no ssc			
		36.4		04/07/99	14:45	16.9		stage only no ssc			
		135		04/08/99	10:20	13.5		stage only no ssc			
		61.8		04/09/99	08:45	13.2		stage only no ssc			
		36.8		04/10/99	09:45	16.4		stage only no ssc			
		0.91		04/11/99	09:24			stage only no ssc - distilled qc blank			
		68.1		04/11/99	09:25	13.3		stage only no ssc			
		30.9		04/12/99	10:00	16.9		stage only no ssc			
		24.3		04/13/99	09:30	17.6		no ssc			
		21.2		04/14/99	09:15	18.2		no ssc			
		19.8		04/15/99	09:10	18.5		no ssc			
		13.4		04/16/99	09:45	18.9		no ssc			
		15.7		04/17/99	09:50	19.2		no ssc			
		13.2		04/18/99	11:05	19.4		no ssc			
		12.3		05/07/99	10:30	19.2		no ssc			

South Fork Elk River(SF)

Humboldt County, California

Hydrologic Year 99

Compiled by C.Fenton

Jones Prarie Rd. Bridge

Grab Sampling: Turbidity / Suspended Sediment Data

Salmon Forever / Sunny Brae Sediment Lab

Location	Sign-in Page	Date	Time	Sampled By	Turbidity Date Run	Turbidity Time Run	Turbidity By	TUM S/N	Tur. Code	FTU Turbidity	Tare Bottle Weight g	Total Bottle Weight g	Volume/ Bottle Wt.	Filter Total	Filter ID	Initial Filter Weight g	Final Filter Weight g	Sediment Wt.
SF / E											18.0	34.5	16.5	1 1	7	0.12453	0.15410	0.02957
SF		02/12/98						9614	0	60.5	22.2	274.6	252.4	1 1	1314	0.11920	0.13830	0.01910
SF		02/14/98						9614	0	100	22.2	273.0	250.8	1 1	1315	0.12411	0.16017	0.03606
SF		02/14/98	18:00					9614	0	205	23.0	270.4	247.4	1 1	1316	0.11884	0.23716	0.11832
SF		02/15/98						9614	0	139	23.0	268.3	245.3	1 1	1317	0.12046	0.17955	0.05909
SF		02/16/98						9614	0	78.1	24.0	272.7	248.7	1 1	1318	0.11892	0.14636	0.02744
SF		02/17/98						9614	0	45.1	24.3	270.9	246.6	1 1	1319	0.11567	0.13408	0.01841
SF		02/19/98						9614	1	1200	18.2	38.0	19.8	1 2	50	0.12363	0.14759	0.02396
														2 2	51	0.12686	0.13968	0.01282
SF		02/21/98						9614	1	1312	17.8	37.6	19.8	1 1	58	0.12734	0.15871	0.03137
SF		11/01/98						9614	0	1.1	93.6	1078.3	984.7	1 1	65	0.12411	0.12448	0.00037
SF		12/31/98						9614	0	0.76	18.1	35.7	17.6	1 1	66	0.12758	0.12712	-0.00046
SF		11/07/98	14:00					9614	0	58.7	18.2	36.6	18.4	1 1	133	0.12628	0.12684	0.00056
SF	6	11/21/98	08:10		011-21-98			9614	1	1000+	18.0	37.4	19.4	1 1	304	0.11881	0.15592	0.03711
SF	6	11/21/98	12:40		11/21/98			9614	0	8.61	18.0	34.9	16.9	1 1	305	0.12091	0.12106	0.00015
SF		11/22/98	10:15		11/21/98			9614	0	228	17.9	36.3	18.4	1 1	306	0.11850	0.12404	0.00554
SF	12	11/23/98	09:15	R. Kraus	11/30/98	17:14	cf	9614	0	823	18.1	37.7	19.6	1 1	454	0.12416	0.14440	0.02024
SF	10	11/23/98	14:42	J. Noell	11/25/98	15:01	cf	9614	0	411	369.9	635.8	265.9	1 1	395	0.11823	0.26646	0.14823
SF	10	11/23/98	14:59	J. Noell	11/24/98	21:35	jn	9614	0	398	18.1	37.2	19.1	1 1	408	0.11445	0.12393	0.00948
SF	12	11/24/98	07:50	R. Kraus	11/30/98	17:16	cf	9614	0	234	18.1	36.9	18.8	1 1	455	0.12217	0.12787	0.00570
SF	12	11/25/98	09:40	R. Kraus	11/30/98	17:20	cf	9614	0	64.5	18.1	38.0	19.9	1 1	456	0.12353	0.12463	0.00110
SF	12	11/26/98	09:45	R. Kraus	11/30/98	18:59	cf	9614	0	287	17.9	37.0	19.1	1 1	457	0.12259	0.12753	0.00494
SF	12	11/29/98	08:45	R. Kraus	11/30/98	19:01	cf	9614	0	58	18.0	38.0	20.0	1 1	458	0.12457	?	
SF	14	11/30/98	16:40	R. Kraus	12/4/98	20:14	cf	9614	0	253	17.9	35.3	17.4	1 1	500	0.11948	0.12542	0.00594
SF	14	12/01/98	09:40	R. Kraus	12/4/98	20:18	cf	9614	0	163	17.9	36.9	19.0	1 1	504	0.12520	0.12993	0.00473
SF	14	12/01/98	16:40	R. Kraus	12/4/98	20:16	cf	9614	0	97.7	18.2	37.3	19.1	1 1	505	0.12346	0.12634	0.00288
SF	14	12/02/98	08:00	R. Kraus	12/4/98	20:21	cf	9614	1	1460	18.6	36.3	17.7	1 1	506	0.12774	0.17439	0.04665
SF	14	12/03/98	08:40	R. Kraus	12/4/98	20:27	cf	9614	0	448	18.2	37.9	19.7	1 1	510	0.12575	0.14085	0.01510
SF	14	12/04/98	10:41	R. Kraus	12/4/98	20:30	cf	9614	0	90.4	18.1	37.1	19.0	1 1	512	0.12644	0.12940	0.00296

South Fork Elk River(SF)					
Humboldt County, California					
Hydrologic Year 99					
Jones Prarie Rd. Bridge					
Grab Sampling: Turbidity / Suspended Sediment Data					
Salmon Forever / Sunny Brae Sediment Lab					
Stage is measured at top of flatcar bridge rail					
Lab	FTU	Mg/l		Type	Comments
Code	Turbidity	PPM	Stage		
0		1794.1		Hach Cell	
0	60.5	75.7		2 X 6	12 sec/30ft,paperlabel,Los Robles Lodge
0	100	143.8		2 X 6	27 SEC/40FT,Los Robles paper
0	205	478.4		2 X 6	
0	139	240.9		2 X 6	12SEC/40FT
0	78.1	110.3		2 X 6	11SEC/31FT
0	45.1	74.7			
0	1200	1859.7		Hach Cell	13 SEC 40 FT
0					
0	1312	1585.9		Hach Cell	too hi for vel.
0	1.1	0.4		ISCO	upper bridge
1	0.76			Hach Cell	upper bridge
0	58.7	30.4		Hach Cell	
0	1000+	1915.2		Hach Cell	
0	8.61	8.9		Hach Cell	
0	228	301.1		Hach Cell	
0	823	1033.3		Hach Cell	
9	411	557.7		DIS	Dropped tray
0	398	496.5	106.0	Hach Cell	
0	234	303.2		Hach Cell	
0	64.5	55.3		Hach Cell	
0	287	258.7		Hach Cell	
	58			Hach Cell	no wt. recorded
0	253	341.5		Hach Cell	
0	163	249.0		Hach Cell	
0	97.7	150.8		Hach Cell	
0	1460	2639.9		Hach Cell	
0	448	766.9		Hach Cell	
0	90.4	155.8		Hach Cell	

Location		Date	Time						Tur. Code	FTU Turbidity	Tare Bottle Weight g	Total Bottle Weight g	Volume/ Bottle Wt.	Filter Total	Filter ID	Initial Filter Weight g	Final Filter Weight g	Sediment Wt.
SF	15	12/05/98	10:00	R. Kraus	12/10/98	18:32	P. Rhude	9614	0	39.1	18.2	37.4	19.2	1 1	521	0.12522	0.12652	0.00130
SF	15	12/05/98	17:00	R. Kraus	12/10/98	18:33	pr	9614	0	110	18.0	36.7	18.7	1 1	522	0.12812	0.13094	0.00282
SF	15	12/06/98	10:10	R. Kraus	12/10/98	18:35	pr	9614	0	83.5	18.2	35.3	17.1	1 1	527	0.12621	0.12793	0.00172
SF	15	12/07/98	08:45	R. Kraus	12/10/98	18:37	pr	9614	0	35.9	18.0	37.4	19.4	1 1	535	0.12769	0.12834	0.00065
SF	15	12/08/98	10:30	R. Kraus	12/10/98	18:38	pr	9614	0	39.3	18.4	37.4	19.0	1 1	533	0.12789	0.12915	0.00126
SF	15	12/09/98	11:20	R. Kraus	12/10/98	18:39	pr	9614	0	25.3	18.2	38.1	19.9	1 1	537	0.12544	0.12582	0.00038
SF	18	12/13/98	10:15	R. Kraus	12/17/98	16:58	cf	9614	0	17.7	18.4	37.3	18.9	1 1	567	0.12998	0.12979	-0.00019
SF	18	12/14/98	09:00	R. Kraus	12/17/98	17:02	cf	9614	0	78.2	18.5	35.2	16.7	1 1	594	0.12420	0.12606	0.00186
SF	18	12/14/98	17:15	R. Kraus	12/17/98	17:13	cf	9614	0	52.7	18.3	37.0	18.7	1 1	595	0.12715	0.12846	0.00131
SF	18	12/15/98	10:30	R. Kraus	12/17/98	17:17	cf	9614	0	27.9	18.3	36.8	18.5	1 1	606	0.11314	0.11337	0.00023
SF	18	12/16/98	09:40	R. Kraus	12/17/98	17:20	cf	9614	0	22.8	17.9	37.9	20.0	1 1	607	0.11576	0.11574	-0.00002
SF	19	12/18/98	10:00	R. Kraus	12/27/98	16:59	cf	9614	0	15.5	18.4	37.5	19.1	1 1	611	0.11266	0.11285	0.00019
SF	19	12/18/98	10:01	R. Kraus	12/27/98	16:57	cf	9614	0	0.56	17.9	34.8	16.9	1 1	617	0.11335	0.11327	-0.00008
SF	19	12/20/98	10:10	R. Kraus	12/27/98	17:00	cf	9614	0	13	18.0	37.7	19.7	1 1	613	0.11275	0.11302	0.00027
SF	19	12/22/98	13:45	R. Kraus	12/27/98	17:02	cf	9614	0	8.48	18	35.9	17.9	1 1	615	0.11483	0.11478	-0.00005
SF	19	12/23/98	10:15	R. Kraus	12/27/98	17:03	cf	9614	0	8.37	18	37.1	19.1	1 1	619	0.11559	0.11533	-0.00026
SF	19	12/25/98	13:00	R. Kraus	12/27/98	17:05	cf	9614	0	6.79	18.1	35.6	17.5	1 1	621	0.11314	0.11307	-0.00007
SF	25	12/27/98	14:15	R. Kraus	1/21/99	17:22	CF	9614	0	6.97								
SF	25	12/29/98	14:15	R. Kraus	1/21/99	17:29	cf	9614	0	6.44								
SF	25	01/01/99	11:40	R. Kraus	1/21/99	17:32	CF	9614	0	13.5								
SF #10		03/14/99	11:47					9614	1	1014	18.1	33.2	15.1	1 1	1099	0.10514	0.13565	0.03051
SF #11		03/14/99	11:58					9614	0	264	17.9	36.2	18.3	1 1	1100	0.10552	0.11727	0.01175
SF #13		03/14/99	12:12					9614	0	121	18.1	36.7	18.6	1 1	1101	0.10308	0.10800	0.00492
SF #15		03/14/99	12:21					9614	0	62	18.3	37.1	18.8	1 1	1102	0.10277	0.10376	0.00099
SF #20		03/14/99	12:55					9614	0	296	18	37.5	19.5	1 1	1103	0.10570	0.11231	0.00661
SF #23		03/14/99	13:29					9614	0	221	18.4	38.1	19.7	1 1	1104	0.10471	0.11138	0.00667
SF #24		03/14/99	13:49					9614	0	95.1	17.9	35.7	17.8	1 1	1105	0.10261	0.10467	0.00206
SF #25		03/14/99	14:06					9614	0	97.1	18	36.7	18.7	1 1	1106	0.10616	0.10631	0.00015
SF #27		03/14/99	14:20					9614	0	30.1	17.9	36.5	18.6	1 1	1107	0.10220	0.10278	0.00058
SF#28		03/14/99	15:38					9614	0	29.6	18.1	36.9	18.8	1 1	1108	0.10589	0.10626	0.00037
SF# 29		03/14/99	16:21					9614	0	191	18	35.2	17.2	1 1	1109	0.10285	0.10444	0.00159
LSF #30		03/14/99	16:35					9614	0	13	22.6	266.3	243.7	1 1	1110	0.10363	0.10445	0.00082

Lab	FTU	Mg/l		Type	Comments
Code	Turbidity	PPM	Stage		
0	39.1	67.7		Hach Cell	
0	110	150.8		Hach Cell	
0	83.5	100.6		Hach Cell	
0	35.9	33.5		Hach Cell	
0	39.3	66.3		Hach Cell	
0	25.3	19.1		Hach Cell	
1	17.7			Hach Cell	
0	78.2	111.4		Hach Cell	
0	52.7	70.1		Hach Cell	
0	27.9	12.4		Hach Cell	
1	22.8			Hach Cell	
0	15.5	9.9		Hach Cell	
1	0.56			H/QC Dist.	
0	13	13.7		Hach Cell	
1	8.48			Hach Cell	
1	8.37			Hach Cell	
1	6.79			Hach Cell	
	6.97			Hach Cell	
	6.44			Hach Cell	
	13.5			Hach Cell	
0	1014	2023.1		Hach Cell	
0	264	642.3		Hach Cell	
0	121	264.6		Hach Cell	
0	62	52.7		Hach Cell	
0	296	339.0		Hach Cell	NO 21 IN LAB
0	221	338.7		Hach Cell	
0	95.1	115.7		Hach Cell	
0	97.1	8.0		Hach Cell	
0	30.1	31.2		Hach Cell	LSF Bridge
0	29.6	19.7		Hach Cell	LSF Xing Trib2
0	191	92.4		Hach Cell	pipng edge of cc
0	13	3.4		2 X 6	13 on tv

Freshwater Creek at Terry Roelofs(FTR)-120 Pacific Lumber Camp Road(4J070) (FTR)																	
Humboldt County, California																	
Hydrologic Year 99																	
Compiled by C. Fenton																	
Grab Sampling: Turbidity / Suspended Sediment Data - provisional																	
Salmon Forever / Sunny Brae Sediment Lab																	
Sign in	Datasheet	Location	Date	Time	Sampled	Turbidity	Tur.	Container	Turbidity	Turbidity	Turbidity	TUM	Tare Bottle	Total Bottle	Volume/	Filter	Filter
page #	#	Sampled	Sampled	Sampled	By	FTU	Code	Type	Date run	Time run	By	S/N	Weight g	Weight g	Bottle Wt.	Total	ID#
		FTR	01/16/98	00:00		1340	1	h				9614					34 35
		FTR	11/07/98	17:00		77	0	3x8				9614					146
		FTR	11/07/98	02:40		71.6	0	3x8				9614					147
		FTR	11/07/98	21:15		65.1	0	3x8				9614					149
		FTR	11/07/98	08:30		38.1	0	3x8				9614					150
		FTR	11/08/98	08:00		29.6	0	3x8				9614					152
		FTR	11/17/98	08:45		218	0	3x8				9614					177
		FTR	11/17/98	13:40		75.3	0	h				9614					72
		FTR	11/17/98	16:00		91.7	0					9614					178
		FTR	11/18/98	16:30		30.4	0	dis far				9614					173
		FTR	11/18/98	16:31		31.8	0	dis mid				9614					174
		FTR	11/18/98	16:32		29.6	0	dis house				9614					175
		FTR	11/18/98	08:20		40.4	0	3x8				9614					176
		FTR	11/21/98	17:00		1020	1	h				9614					217
		FTR	11/21/98	16:30		1014	1	h				9614					218
		FTR	11/21/98	18:12		861	0	h				9614					265
		FTR	11/21/98	18:13		816	0	dis				9614					266/270
		FTR	11/24/98			77.4	0	h				9614					413
		FTR	11/26/98			177	0	2x6				9614					439
		FTR	12/06/98	00:00		46.4	0	dis				9614					528
		FTR	12/06/98	00:00		52	0	2x6				9614					529
		FTR	12/13/98	00:00		244	0	dis				9614					548/549
		FTR	12/13/98	00:00		61.5	0	3x8				9614					550
		FTR	12/13/98	00:00		151	0	3x8				9614					551
		FTR	12/13/98	00:00		145	0	3x8				9614					552
		FTR	12/14/98	00:00		60.8	0	3x8				9614					553
		FTR	12/31/98	16:48		67.6	0	dis				9614					627
		FTR	01/04/99	12:34		8.87	0	h				9614					630

Freshwater Creek at Terry Roelofs(FTR)-120 Pacific Lumber Camp Road(4J070) (FTR)

Humboldt County, California

Hydrologic Year 99

Grab Sampling: Turbidity / Suspended Sediment Data - provisional

Salmon Forever / Sunny Brae Sediment Lab

Initial Filter	Final Filter	Sediment	Lab	Total	Turbidity	Container	Date	Time	Stage	Discharge	Vel. Str.	Vel.	Vel.	Comments
Weight g	Weight g	Wt. Gr	Code	Mg/L	FTJ	Type	Sampled	Sampled		CFS	hi or lo	dist.	sec.	
			0	1276.4	1340	h	01/16/98	00:00						
			0	43.4	77	3x8	11/07/98	17:00						
			0	53.1	71.6	3x8	11/07/98	02:40						
			0	21.0	65.1	3x8	11/07/98	21:15						
			0	38.9	38.1	3x8	11/07/98	08:30						
			0	6.6	29.6	3x8	11/08/98	08:00						
			0	119.2	218	3x8	11/17/98	08:45						
			0	42.3	75.3	h	11/17/98	13:40						
			0	46.8	91.7		11/17/98	16:00						
			0	5.3	30.4	dis far	11/18/98	16:30						
			0	6.1	31.8	dis mid	11/18/98	16:31						
			0	4.2	29.6	dis house	11/18/98	16:32						
			0	10.3	40.4	3x8	11/18/98	08:20						
			0	1672.9	1020	h	11/21/98	17:00						
			0	1298.0	1014	h	11/21/98	16:30						
			0	1443.7	861	h	11/21/98	18:12						
			0	1641.0	816	dis	11/21/98	18:13						
			0	58.4	77.4	h	11/24/98							
			0	311.8	177	2x6	11/26/98							
			0	17.0	46.4	dis	12/06/98	00:00						
			0	57.6	52	2x6	12/06/98	00:00						
			0	436.6	244	dis	12/13/98	00:00						
			0	48.9	61.5	3x8	12/13/98	00:00						
			0	279.6	151	3x8	12/13/98	00:00						
			0	164.2	145	3x8	12/13/98	00:00						
			0	34.6	60.8	3x8	12/14/98	00:00						
			0	33.9	67.6	dis	12/31/98	16:48						
			0	0.5	8.87	h	01/04/99	12:34						

Graham Gulch(GG) HY 99																		
Culvert at Pacific Lumber Camp Road(4J070) pm 0.1																		
Freshwater Creek / Humboldt County, California																		
Grab Sampling: Turbidity / Suspended Sediment Data - provisional																		
Salmon Forever / Sunny Brae Sediment Lab																		
Grab sample is taken at upstream edge of culvert																Top of met		
																Stage/ Discharge is fro		
Location	Date	Time	Type	Tur.	Tum	FTU	Tare Bottle	Tot Bottle	Volume/	Filter	Filter	Initial Filter	Final Filter	Sediment	Mg/l	FTU	Stage	Discharge
Sampled	Sampled	Sampled	Container	Code	S/N		Weight g	Weight g	Bottle Wt.	Total	ID	Weight g	Weight g	Wt. Gr	PPM		inches	CFS
GG	1/26/98			0	9614	740										740		
GG	1/27/98	8:38		0	9614	397										397	54.0	26.3
GG	1/29/98	10:06		0	9614	337										337		
GG	2/1/98			0	9614	221										221	58.6	17.1
GG	2/4/98			0	9614	106										106	57.0	19.8
GG	2/4/98			0	9614	60.4										60.4		
GG	2/7/98	15:01		0	9614	338										338	51.0	34.9
GG	2/14/98	14:50		0	9614	593										593	52.4	30.6
GG	2/15/98	11:00		0	9614	183										183	56.3	21.3
GG	2/19/98	16:15		0	9614	405										405	39.5	102.9
GG	2/21/98	11:42		0	9614	867										867	33.0	189.7
GG	2/21/98	13:01	2 X 6	0	9614	832	22.9	237.5	214.6	1 4	675	0.11234	0.21352	0.10118	1415.2	832	32.0	208.4
							22.9	237.5	214.6	2 4	676	0.11275	0.17957	0.06682				
							22.9	237.5	214.6	3 4	677	0.11592	0.19185	0.07593				
							22.9	237.5	214.6	4 4	678	0.11348	0.17298	0.05950				
GG	3/31/98	13:20	2 X 6	0	9614	252	22.6	263	240.4	1 2	673	0.1118	0.14994	0.03814	349	252		
			2 X 6				22.6	263	240.4	2 2	674	0.11375	0.1595	0.04575				
GG	10/24/98		DIS	0	9614	7.68	377.9	834.0	456.1	1 1	45	0.12603	0.12701	0.00098	2.15	7.68		
GR	11/6/98	9:10	Hach Cell	0	9614	20.9	18.0	38.3	20.3	1 1	81	0.12499	0.12484	-0.00015		20.9		
GR	11/7/98	9:10	Hach Cell	0	9614	332	18.5	38.4	19.9	1 1	80	0.12801	0.13389	0.00588	295.53	332	62.0	12.4
GR	11/7/98	13:25	Hach Cell	0	9614	217	18.4	37.4	19.0	1 1	76	0.12861	0.12944	0.00083	43.69	217		
GG	11/8/98	8:00	3 X 8	0	9614	64	67.2	580.8	513.6	1 1	104	0.12834	0.13796	0.00962	18.73	64		
GG	11/8/98	14:00	Hach Cell	0	9614	61.8	18.4	38.5	20.1	1 1	92	0.12832	0.12434	-0.00398		61.8	65.0	9.3
GG	11/17/98	0:44	Big vial														64.0	10.3
GG	11/17/98	8:30	2 X 6	0	9614	250	23.1	267.7	244.6	1 1	376	0.11353	0.21032	0.09679	395.80	250	54.0	26.3
GG	11/17/98	8:50	?	0	9614	378	65.4	483.3	417.9	1 4	179	0.11828	?	?		378	53.0	30.0
			?				65.4	483.3	417.9	2 4	180	0.11634	0.16047	0.04413				
			?				65.4	483.3	417.9	3 4	181	0.11699	0.14696	0.02997				
			?				65.4	483.3	417.9	4 4	182	0.11707	0.15499	0.03792				
GG	11/17/98	12:45	TS	0	9614	76	22.9	46.6	23.7	1 1	377	0.11303	0.1156	0.00257	108.45	76		
GG	11/17/98	15:50	3 x 8	0	9614	172	61.0	337.4	276.4	1 2	183	0.11765	0.13505	0.01740	118.1	172	57.0	20.0
			3 x 8				61.0	337.4	276.4	2 2	184	0.11789	0.13314	0.01525				

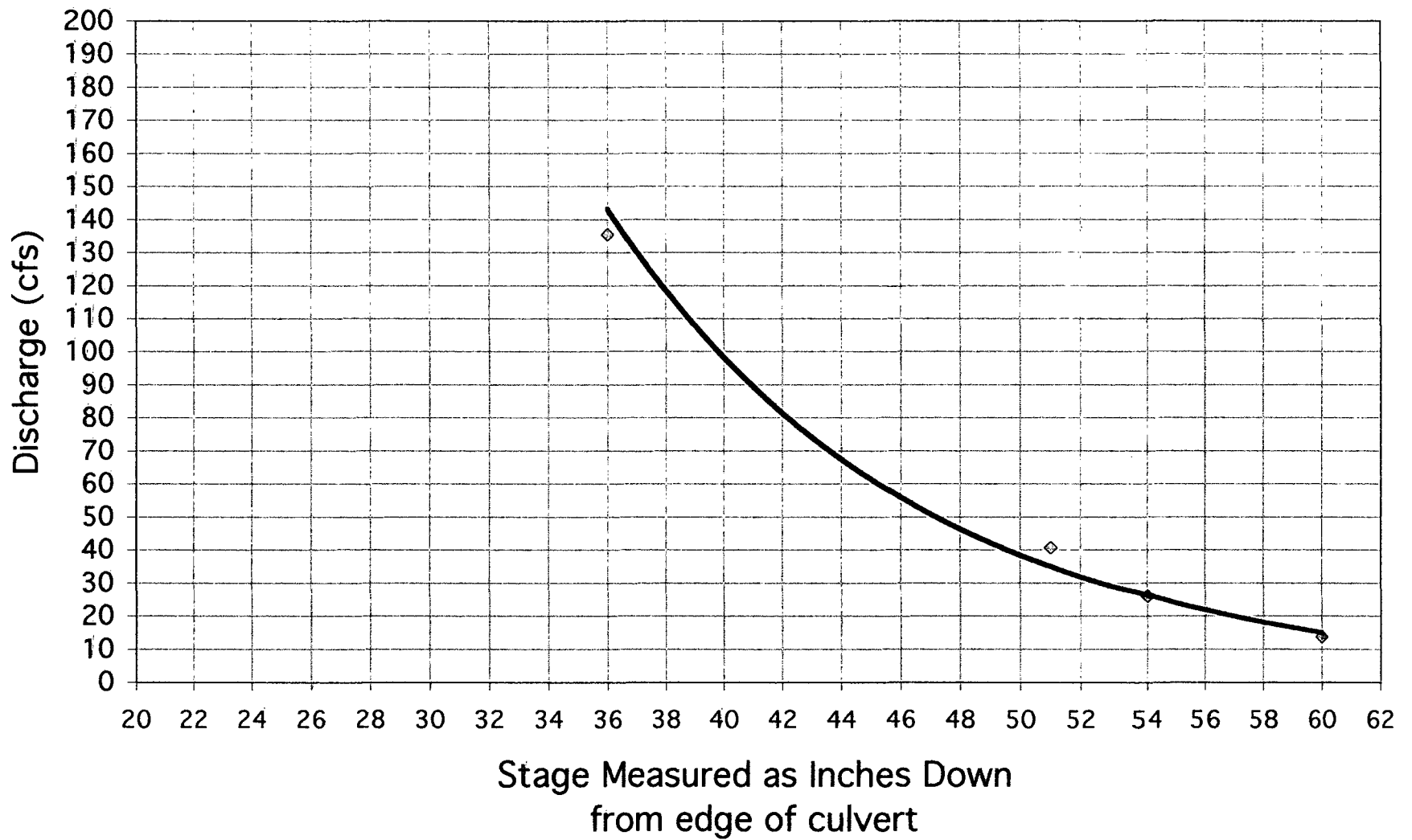
Location	Date	Time	Type	Tur.	Tum	FTU	Tare Bottle	Tot Bottle	Volume/	Filter	Filter	Initial Filter	Final Filter	Sediment	Mg/l	FTU	Stage	Discharge
Sampled	Sampled	Sampled	Container	Code	S/N		Weight g	Weight g	Bottle Wt.	Total	ID	Weight g	Weight g	Wt. Gr	PPM		inches	CFS
GG	11/18/98	8:30	3 x 8	0	9614	73	65.2	516.5	451.3	1 1	185	0.11729	0.12953	0.01224	27.12	73	61.5	13.0
GG	11/21/98	0:00	2 X 6	0	9614	166	25.9	273.7	247.8	1 1	358	0.11374	0.17095	0.05721	230.90	166	62.0	12.4
GG	11/21/98	16:40	DIS	1	9614	1426	18.4	37.6	19.2	1 1	238	0.11918	0.17397	0.05479	2858.73	1426		
GG	11/21/98	16:48	2 X 6	1	9614	1174	26.4	277.4	251.0	1 7	359	0.11705	0.14962	0.03257	2427.10	1174	26.0	366.6
							26.4	277.4	251.0	2 7	360	0.11841	0.15545	0.03704				
							26.4	277.4	251.0	3 7	361	0.11427	0.14749	0.03322				
							26.4	277.4	251.0	4 7	362	0.11513	0.15045	0.03532				
							26.4	277.4	251.0	5 7	363	0.11776	0.13292	0.01516				
							26.4	277.4	251.0	6 7	364	0.11454	0.14189	0.02735				
							26.4	277.4	251.0	7 7	365	0.11217	0.5398	0.42763				
GG	11/21/98	17:00	3 X 8	0	9614	348	38.0	524.7	486.7	1 4	366	0.11541	0.12941	0.01400	334.90	348	57.0	19.8
							38.0	524.7	486.7	2 4	367	0.11877	0.15883	0.04006				
							38.0	524.7	486.7	3 4	368	0.11389	0.14233	0.02844				
							38.0	524.7	486.7	4 4	369	0.11414	0.19458	0.08044				
GG	11/21/98	18:22	Hach Cell	1	9614	1052	18.1	37.5	19.4	1 2	276	0.11966	0.15315	0.03349	3558.40	1052		
			Hach Cell				18.1	37.5	19.4	2 2	277	0.11896	0.15435	0.03539				
GG	11/22/98	12:30	Hach Cell	0	9614	518	18.3	36.6	18.3	1 1	311	0.11894	0.1266	0.00766	418.69	518		
GG	11/22/98	16:50	Hach Cell	0	9614	391	18.2	37.3	19.1	1 1	315	0.12204	0.12712	0.00508	266.01	391	55.0	23.0
GG	11/23/98	8:15	?	1	9614	2007	26.8	205.4	178.6	1 4	293	0.11934	0.19036	0.07102	4468.10	2007	36.0	143.0
			?				26.8	205.4	178.6	2 4	294	0.12011	0.20879	0.08868				
			?				26.8	205.4	178.6	3 4	295	0.11909	0.21943	0.10034				
			?				26.8	205.4	178.6	4 4	296	0.12125	0.65699	0.53574				
GG	11/23/98	14:45	Hach Cell	0	9614	933	18.0	35.9	17.9	1 1	389	0.11274	0.1311	0.01836	1026.35	933	43.0	73.0
GG	11/24/98	20:01	DIS	0	9614	150	372.6	507.1	134.5	1 1	402	0.11428	0.13613	0.02185	162.47	150		
GG	11/24/98	20:01	Hach Cell	0	9614	156	17.9	32.4	14.5	1 1	412	0.11337	0.11508	0.00171	117.94	156	56.0	22.0
GG	11/26/98	13:41	DIS	0	9614	444	376.5	645.6	269.1	1 2	418	0.11429	0.20401	0.08972	990.8	444		
			DIS				376.5	645.6	269.1	2 2	419	0.11681	0.29355	0.17674				
GG	11/26/98	13:32	2 X 6	0	9614	403	23.5	263.8	240.3	1 2	435	0.11515	0.19385	0.07870	708.6	403		
							23.5	263.8	240.3	2 2	436	0.11692	0.20841	0.09149				
GG	11/27/98	16:37	2 X 6	0	9614	126	23.7	200.3	176.6	1 1	440	0.12109	0.13816	0.01707	96.66	126	59.0	16.4
GG	12/2/98	22:25	3 X 8	0	9614	414	33.8	355.7	321.9	1 3	483	0.1203	0.18438	0.06408	811.9	414	36.0	143.0
							33.8	355.7	321.9	2 3	484	0.12165	0.30745	0.18580				
							33.8	355.7	321.9	3 3	486	0.12254	0.13388	0.01134				
GG	12/3/98	8:35	3 X 8	0	9614	325	34.3	335.6	301.3	1 3	487	0.1216	0.15308	0.03148	624.3	325	49.0	42.1
							34.3	335.6	301.3	2 3	488	0.12142	0.15647	0.03505				
							34.3	335.6	301.3	3 3	489	0.12197	0.24346	0.12149				
GG	12/5/98	16:42	DIS	0	9614	88.9	243.1	614.3	371.2	1 1	518	0.129	0.15387	0.02487	67.00	88.9	60.0	15.0
GG	12/6/98	13:09	DIS	0	9614	135	297.4	675	377.6	1 2	531	0.12653	0.14839	0.02186	99.7	135	56.0	21.8
			DIS				297.4	675	377.6	2 2	532	0.12564	0.14142	0.01578				

vel. width hi or lo	Vel. dist. Ft.	Vel. time/sec	Comments floating object velocities
			S= 37.5" from top of metal pipe (good stage)
			S= 62" 5sec 22ft
			S= 2" below top of stage pipe (good stage) 4sec/22ft
			S= 57" 5sec/22ft
			DIS & grab
			1 sec 8'
			S= 31" from top of mp (good stage)
			S= 12" below top of stage pipe (good stage) 3.5sec/22ft
			S= 19" to top of mp (good stage) stream width 15' fast current 11'6" 1- 1- 1 sec
			S= dn56" = dn 32" pipe (good stage) 20ft/5.1-4.9-5.2sec
			S= dn59"
			S= 12" below top of stage pipe (good stage) 3sec/22ft
			S= 49" 3sec/22ft
			S= dn 36" mp (good stage) 5.55/5.75sec
			S= dn 32" 4.66/4.74sec

Location	Date	Time	Type	Tur.	Tum	FTU	Tare Bottle	Tot Bottle	Volume/	Filter	Filter	Initial Filter	Final Filter	Sediment	Mg/l	FTU	Stage	Discharge
Sampled	Sampled	Sampled	Container	Code	S/N		Weight g	Weight g	Bottle Wt.	Total	ID	Weight g	Weight g	Wt. Gr	PPM		inches	CFS
GG	12/13/98	16:30	3x8	1	9614	1216	58.7	373.2	314.5	1 6	572	0.12619	0.16974	0.04355	1219.5	1216	27.0	333.7
							58.7	373.2	314.5	2 6	573	0.12584	0.16691	0.04107				
							58.7	373.2	314.5	3 6	574	0.12803	0.16278	0.03475				
							58.7	373.2	314.5	4 6	575	0.12806	0.17095	0.04289				
							58.7	373.2	314.5	5 6	576	0.12448	0.23741	0.11293				
							58.7	373.2	314.5	6 6	577	0.1275	0.23556	0.10806				
GG	12/13/98	18:02	DIS	0	9614	678	370.8	649.6	278.8	1 4	578	0.12822	0.3017	0.17348	1442.8	678	49.5	39.0
							370.8	649.6	278.8	2 4	579	0.12865	0.20648	0.07783				
							370.8	649.6	278.8	3 4	580	0.12941	0.20334	0.07393				
							370.8	649.6	278.8	4 4	581	0.12806	0.20471	0.07665				
GG	12/13/98	21:30	4 X 10	0	9614	291	60.9	405.7	344.8	1 3	582	0.12522	0.31705	0.19183	772.2	291	52.5	30.3
							60.9	405.7	344.8	2 3	583	0.12685	0.16438	0.03753				
							60.9	405.7	344.8	3 3	584	0.12874	0.16552	0.03678				
GG	12/14/98	7:30	4 X 10	0	9614	129	63.1	483.2	420.1	1 3	597	0.12522	0.14957	0.02435	130.2	129	56.0	21.8
							63.1	483.2	420.1	2 3	598	0.12759	0.14996	0.02237				
							63.1	483.2	420.1	3 3	599	0.12835	0.13634	0.00799				
GG	12/31/98	16:48	Hach Cell	0	9614	132	18	36.5	18.5	1 1	623	0.11612	0.11738	0.00126	68.11	132	59.0	16.0
GG	12/31/98	16:48	DIS	0	9614	139	372.7	591.7	219.0	1 1	689	0.11459	0.1368	0.02221	101.42	139	85.0	1.4
GG	1/13/99	17:13	2 X 6	0	9614	6.07	23.1	218.3	195.2	1 1	692	0.11611	0.11738	0.00127	6.51	6.07		
GG	1/14/99	22:10	Hach Cell	0	9614	124	18.3	37.9	19.6	1 1	701	0.11411	0.11613	0.00202	103.07	124		
GG	1/16/99	17:00	2 X 6	0	9614	91	26	220.6	194.6	1 1	739	0.1144	0.12353	0.00913	46.92	91		
GG	1/18/99	1:00	Hach Cell	0	9614	372	17.9	35.4	17.5	1 1	782	0.11449	0.12443	0.00994	568.20	372	48.5	44.0
GG	1/18/99	15:00	Hach Cell	0	9614	149	18	36.4	18.4	1 1	783	0.11337	0.11575	0.00238	129.36	149	60.0	16.0
GG	1/17/99	17:35	2 X 6	0	9614	465	21.8	213.3	191.5	1 1	760	0.1123	0.27277	0.16047	838.40	465		
GG	1/18/99	13:10	2 X 6	0	9614	109	23.8	158.8	135.0	1 1	766	0.11433	0.13411	0.01978	146.53	109	56.5	21.0
GG	1/18/99	16:00	2 X 6	0	9614	60.4	21.9	?		1 1	767	0.11451	0.11709	0.00258		60.4		
GG	1/19/99	13:05	2 X 6	0	9614	228	22.5	179.4	156.9	1 2	769	0.11693	0.14937	0.03244	302	228		
							22.5	179.4	156.9	2 2	770	0.11527	0.1302	0.01493				
GG	1/22/99	14:45	Hach Cell	0	9614	107	17.9	37	19.1	1 1	884	0.11501	0.11654	0.00153	80.11	107		
GG	1/23/99	9:20	DIS	0	9614	138	372.3	626.3	254.0	1 1	892	0.11473	0.22064	0.10591	417.08	138	48.0	46.0
GG	1/24/99	11:02	DIS	0	9614	70	370.7	651.9	281.2	1 1	894	0.1156	0.13963	0.02403	85.46	70	57.0	20.0
GG	2/6/99	12:25															32.0	225.0
GG	2/6/99	12:45	3 X 8	0	9614	953.8	33.6	423.6	390.0	1 7	1048	0.01849	0.13259	0.11410	2566.8	953.8	36.0	143.1
							33.6	423.6	390.0	2 7	1049	0.01718	0.13467	0.11749				
							33.6	423.6	390.0	3 7	1050	0.1075	0.14522	0.03772				
							33.6	423.6	390.0	4 7	1051	0.10714	0.14649	0.03935				
							33.6	423.6	390.0	5 7	1053	0.1078	0.58481	0.47701				
							33.6	423.6	390.0	6 7	1061	0.10926	0.16034	0.05108				
							33.6	423.6	390.0	7 7	1074	0.10948	0.27217	0.16269				

Location	Date	Time	Type	Tur.	Tum	FTU	Tare Bottle	Tot Bottle	Volume/	Filter	Filter	Initial Filter	Final Filter	Sediment	Mg/l	FTU	Stage	Discharge
Sampled	Sampled	Sampled	Container	Code	S/N		Weight g	Weight g	Bottle Wt.	Total	ID	Weight g	Weight g	Wt. Gr	PPM		inches	CFS
GG	2/6/99	12:55	DIS															
GG	2/6/99	18:50	DIS	0	9614	587	376.6	586	209.4	1 2	1158	0.10385	0.23474	0.13089	1034.4	587	56.0	21.8
							376.6	586	209.4	2 2	1159	0.10317	0.18874	0.08557				
GG	2/7/99	2:15	Hach Cell	0	9614	133	18.1	37.5	19.4	1 1	957	0.1107	0.11363	0.00293	151.05	133		
GG	2/9/99	10:12	2x6		9614	117										117		
GG	2/18/99	17:27	Hach Cell	0	9614	90.7	18.1	36.2	18.1	1 1	1245	0.10919	0.11155	0.00236	130.40	90.7		
GG	2/18/99	17:20	2 X 6	0	9614	94.1	22	154.1	132.1	1 1	1260	0.10979	0.12162	0.01183	89.56	94.1		
GG	3/29/99	18:29															59.0	17.0
GG	3/29/99	18:32	DIS	0	9614	69	368.9	597.3	228.4	1 1	1214	0.10642	0.11828	0.01186	51.93	69		

vel. width hi or lo	Vel. dist. Ft.	Vel. time/sec	Comments floating object velocities						
			20' 2.83/3.43SEC						
			S=dn56"						
			S= 53"dn yellow line						
			S=48" below yellow 3.9sec 22 ft 38" stage high						
			53"dn yellow 3.4sec/22ft						
	20.00		S= 59" dn edge of culvert (good stage) - 5.25/4.99/5.34/4.86sec						



Graham Gulch Rating Curve as of 2-23-01

$$y = 4233.6e^{-0.0941x}$$
$$R^2 = 0.9876$$

Location	Date	Time	Tare Bottle Weight g	Total Bottle Weight g	Volume/ Bottle Wt.	Filter Total	Filter ID	Initial Filter Weight g	Final Filter Weight g	Sediment Wt	Lab Code	Tur. Code	FTU	Mg/l PPM	Stage	Discharge cfs	Container Type	Comments	
HH	11/23/98	07:34	56.4	477.6	421.2	1 5	282	0.11998	0.22013	0.10015	0	0	598.0	801.3	57.50		pb?	floating obj. velocities 5sec/25ft change previous stage by .54"	
						2 5	283	0.12221	0.24424	0.12203	0								
						3 5	284	0.11784	0.1627	0.04486	0								
						4 5	285	0.11938	0.16563	0.04625	0								
						5 5	286	0.12046	0.14451	0.02405	0								
HH	11/23/98	13:50	18.2	37	18.8	1 1	386	0.11549	0.12260	0.00711	0	0	380.0	378.3			Hach Cell	S= 93" from water to top of cement stream width 54' fast current 21' 3.3 3.5 4 sec	
HH	11/24/98	19:05	370.0	594	224	1 1	399	0.11731	0.14834	0.03103	3	0	98.3	138.5			DIS/GR	dropped tray	
HH	11/24/98	19:05	17.9	37.5	19.6	1 1	409	0.11426	0.11619	0.00193	0	0	109.0	98.5	153.00		Hach Cell	S= 99 dn/153"@guardrail/ 120 at N pier v+7.22/7.03ft	
HH	11/26/98	07:45	25.8	273.4	247.6	1 2	465	0.12316	0.18406	0.06090	0	0	336.0	694.7	131.00		2 X 6	4.5 sec	
						2 2	466	0.12186	0.23290	0.11104	0								
HH	11/26/98	12:05	372.8	819.1	446.3	1 2	416	0.11376	0.13934	0.02558	0	0	319.0	572.8			dis/gr		
						2 2	417	0.11187	0.34183	0.22996	0								
HH	11/26/98	15:00	26.4	268.2	241.8	1 1	467	0.12053	0.19255	0.07202	0	0	196.0	297.9	142.00		2 X 6	4.2 sec	
HH	11/27/98	16:23											55.0					S= dn110 or dn173"rail	
HH	11/30/98	09:00	25.8	175.6	149.8	1 1	468	0.12217	0.24499	0.12282	0	0	390.0	820.3	150.00		2 X 6	4.5 sec	
HH	11/30/98	16:00	25.8	177	151.2	1 1	469	0.12009	0.15412	0.03403	0	0	163.0	225.1	149.00		2 X 6	4.3 sec	
HH	12/02/98	07:45	34.3	510.1	475.8	1 2	470	0.11944	0.26579	0.14635	0	0	567.0	814.5	109.00		3 X 8	4.0 sec	
						2 2	471	0.12087	0.36184	0.24097	0								
HH	12/02/98	11:40	34.2	296.4	262.2	1 2	472	0.12266	0.22532	0.10266	0	0	566.0	692.9	88.00		3 X 8	4.4 sec	
						2 2	473	0.12546	0.20440	0.07894	0								
HH	12/02/98	16:50	33.7	319.3	285.6	1 2	474	0.12043	0.24594	0.12551	0	0	336.0	491.5	102.00		3 X 8	4.2	
						2 2	475	0.11955	0.13438	0.01483	0								
HH	12/02/98	21:30	33.6	278.5	244.9	1 2	476	0.12274	0.21149	0.08875	0	0	489.0	641.7	86.00		3 X 8	5sec/25ft S= 86" field flooded misty rain	
						2 2	477	0.12216	0.19054	0.06838	0								
HH	12/03/98	08:10	34.2	384	349.8	1 2	478	0.12172	0.16534	0.04362	0	0	216.0	303.6	127.00		3 X 8	5sec/25ft	
						2 2	479	0.12124	0.18380	0.06256	0								
HH	12/05/98	14:48	297.1	675.1	378	1 1	515	0.12673	0.14349	0.01676	0	0	48.4	44.3			dis/gr	S=dn 175"at rail 10.1sec/20ft	
HH	12/06/98	12:20	352.6	729.2	376.6	1 1	530	0.12596	0.14830	0.02234	0	0	64.8	59.3			dis/gr	S= dn103"dn166" v=8.3 secs	
HH	12/07/98	07:15													176.00			to rail/ no sample	
HH	12/13/98	14:10	18.3	34.4	16.1	1 1	554	0.12853	0.12995	0.00142	0	0	54.7	88.2	182.00		Hach Cell	12.0 sec	
HH	12/13/98	17:20	23.4	241.9	218.5	1 2	558	0.12694	0.29813	0.17119	0	0	525.0	797.3	102.00		3 X 8		
						2 2	555	0.12873	0.13166	0.00293	0								
HH	12/14/98	18:40	33.5	164	130.5	1 1	596	0.12876	0.13327	0.00451	0	0	53.4	34.6	114.00		3 X 8	7sec/25ft	
HH	12/13/98	20:38	327.3	703.8	376.5	1 3	545	0.12862	0.21407	0.08545	0	0	279.0	434.9			dis/gr	S= dn 150 rail v=5.31/6.15	
						2 3	546	0.12794	0.15295	0.02501	0								
						3 3	547	0.12509	0.17832	0.05323	0								
HH	12/15/98	18:30	18.2	37.2	19	1 1	702	0.1156	0.11595	0.00035	0	0	74.6	18.4			Hach Cell		
HH	12/16/98	07:46	18.4	37.7	19.3	1 1	703	0.11427	0.11502	0.00075	0	0	86.8	38.9			Hach Cell		
HH	12/16/98	17:15	18	38	20	1 1	772	0.11327	0.11354	0.00027	0	0	49.3	13.5			Hach Cell		
HH	01/13/99	18:25	60.4	701.3	640.9	1 1	695	0.11414	0.11522	0.00108	0	0	4.8	1.7	160.00		4 X 10	S=136" to bottom of bridge 22sec/10ft barely nothing at all no fast water	
HH	01/14/99	11:15	34.2	493.2	459	1 1	697	0.11534	0.11497	-0.00037	1	0	6.2		191.25		3 X 8	51.35sec/25ft/sign-in said 136" Tisa's notes 191.25	
HH	01/14/99	21:20	18.3	38.6	20.3	1 1	698	0.11669	0.11588	-0.00081	1	0	88.0				Hach Cell		
HH	01/14/99	20:30	18.7	37.1	18.4	1 1	704	0.11588	0.11603	0.00015	0	0	38.0	8.2	193.00		Hach Cell		
HH	01/15/99	08:40	35.0	497.3	462.3	1 2	705	0.11439	0.12614	0.01175	0	0	123.0	89.5	171.75		3 X 8	7.22sec/25ft Stacey in sign-in says 117.75" stage to base of bridge	
						2 2	706	0.11479	0.14440	0.02961									
HH	01/15/99	15:10	34.0	525.5	491.5	1 2	707	0.11513	0.12315	0.00802	0	0	82.5	38.1	173.75		3 X 8	6.98sec/25 ft Stacey in sign-in says 119.75" stage to base of bridge	
						2 2	708	0.11632	0.12700	0.01068	0								
HH	01/15/99	18:30													173.00			9.4 sec	
HH	01/16/99	07:40													172.00			7.6 sec	
HH	01/16/99	16:22	26.1	230.9	204.8	1 1	741	0.11555	0.12029	0.00474	0	0	57.7	23.1	176.00		2 X 6	8sec/25ft	
HH	01/16/99	17:15													175.00			8.0 SEC	
HH	01/17/99	12:00	34.8	512.1	477.3	1 1	756	0.11121	0.11757	0.00636	0	0	35.0	13.3	178.00		3 X 8	10.43sec/25ft Stacey in sign-in is back in agreement with Tisa's notes	
HH	01/17/99	16:50	34.0	268.2	234.2	1 1	761	0.11608	0.12292	0.00684	0	0	43.5	29.2	176.00		3 X 8	8.2 SEC	
HH	01/18/99	00:20	17.9	36.6	18.7	1 1	778	0.11386	0.12298	0.00912	0	0	378.0	487.8	131.00		Hach Cell	4.69sec/25ft	
HH	01/18/99	13:15	33.9	438.9	405	1 1	773	0.11591	0.15934	0.04343	0	0	90.1	107.2	164.75		3 X 8	4.7sec/25ft	
HH	01/19/99	08:45	20.8	163.3	142.5	1 1	774	0.11537	0.12285	0.00748	0	0	63.5	52.5	169.00		2 X 6	5.7 SEC	

Location	Date	Time	Tare Bottle Weight g	Total Bottle Weight g	Volume/ Bottle Wt.	Filter Total	Filter ID	Initial Filter Weight g	Final Filter Weight g	Sediment Wt	Lab Code	Tur. Code	FTU	Mg/l PPM	Stage	Discharge cfs	Container Type	Comments floating obj. velocities
HH	01/19/99	17:05	22.0	149.2	127.2	1 1	1029	0.10715	0.12346	0.01631	0	0	112.0	128.2	160.00		2 X 6	4.1 SEC
HH	01/20/99	08:40	26.3	238.2	211.9	1 1	1030	0.10628	0.11504	0.00876	0	0	54.0	41.3	168.00		2 X 6	5.7 SEC
HH	01/20/99	13:30	23.6	210.6	187	1 1	1031	0.10753	0.11570	0.00817	0	0	50.0	43.7	170.00		2 X 6	6.3 SEC
HH	01/20/99	17:25	37.4	246.7	209.3	1 1	1032	0.10931	0.11756	0.00825	0	0	49.0	39.4			3 X 8	bottle 1/2 full
HH	01/21/99	10:20	33.7	512.3	478.6	1 1	1033	0.10848	0.12791	0.01943	0	0	52.0	40.6	168.75		3 X 8	5.7sec/25ft end of storm
HH	01/22/99	15:00	34.0	497.3	463.3	1 1	1034	0.10858	0.14172	0.03314	0	0	57.0	71.5	171.00		3 X 8	6.18sec/25ft wind rain began in am
HH	01/23/99	08:30	33.5	459.0	425.5	1 1	1035	0.10842	0.19146	0.08304	0	0	131.0	195.2	142.50		3 X 8	4.8sec/25ft Tisa's notes say 8 am
HH	01/23/99	13:00	34.0	469.5	435.5	2 2	1036	0.10856	0.14968	0.04112	0	0	140.0	200.5	136.50		3 X 8	4.5sec/25ft sunny skies clearing
						2 2	1037	0.10827	0.15444	0.04617	0							
HH	01/31/99	12:45	33.5	513.1	479.6	1 1	1038	0.10582	0.12191	0.01609	0	0	19.0	33.5	184.50		3 X 8	12.4sec/25ft sprinkles x 2 days up today
HH	02/06/99	08:50	24.3	248.2	223.9	1 1	1040	0.10866	0.14645	0.03779	0	0	103.0	168.8	177.00		2 X 6	9.0 SEC
HH	02/06/99	11:10	24.1	172.4	148.3	2 2	1041	0.10727	0.21540	0.10813	0	0	729.0	1245.5	146.25		2 X 6	4.1sec/25ft really murky up rain
						2 2	1042	0.10779	0.18423	0.07644	0							
HH	02/06/99	13:15	23.4	238.9	215.5	1 4	1043	0.10735	0.19576	0.08841	0	1	1024.0	1356.9	94.00		2 X 6	3.7sec flooded
						2 4	1044	0.10815	0.16131	0.05316	0							
						3 4	1045	0.10853	0.21690	0.10837	0							
						4 4	1046	0.10728	0.14950	0.04222	0							
HH	02/06/99	13:15	24.4	237.5	213.1	1 6	1169	0.10332	0.13011	0.02679	0	6	1024.0	1341.3			2 X 6	vol error / 4-3-99 mid pasture on road
						2 6	1170	0.10372	0.13403	0.03031	0							
						3 6	1171	0.10229	0.11839	0.01610	0							
						4 6	1172	0.10595	0.12286	0.01691	0							
						5 6	1173	0.10631	0.18745	0.08114	0							
						6 6	1174	0.10632	0.22067	0.11435	0							
HH	02/06/99	14:30	22.4	247.1	224.7	1 2	1113	0.10373	0.21674	0.11301	0	0	902.0	953.9	88.00		2 X 6	3.7 SEC
						2 2	1114	0.10524	0.20648	0.10124	0							
HH	02/06/99	17:45	21.6	X		1 2	1111	0.10557	0.14424	0.03867	0	0	35.0		120.00		2 X 6	total bott. Not weighed 4.5 SEC
						2 2	1112	0.10479	0.13253	0.02774	0							
HH	02/07/99	08:40	22.8	165.2	142.4	1 2	1115	0.10315	0.15961	0.05646	0	0	462.0	751.3	99.00		2 X 6	3.6 SEC
						2 2	1116	0.10485	0.15533	0.05048	0							
HH	02/07/99	10:45	24.0	232.8	208.8	1 1	1117	0.10471	0.20193	0.09722	0	0	360.0	465.7	103.50		2 X 6	3.9sec/25ft road just flooded (1" on road
HH	02/07/99	01:35	18.1	35.4	17.3	1 1	947	0.11168	0.11470	0.00302	0	0	156.0	174.6	149.00		Hach Cell	5.53sec
HH	02/07/99	14:40	22.7	134.9	112.2	1 1	1118	0.10347	0.13284	0.02937	0	0	196.0	261.8	131.50		2 X 6	bottle 1/2 full 4.7sec/25ft receding
HH	02/07/99	17:20	22.0	246.8	224.8	1 1	1119	0.10461	0.16384	0.05923	0	0	154.0	263.5	141.00		2 X 6	4.2 sec
HH	02/08/99	13:25	21.6	262.2	240.6	1 1	1137	0.10596	0.12127	0.01531	0	0	61.8	63.6	165.25		2 X 6	6.6sec
HH	02/08/99	15:00	33.8	308.5	274.7	1 2	1138	0.10504	0.11602	0.01098	0	0	76.8	90.9	164.25		3 X 8	5.3sec
						2 2	1139	0.10668	0.12066	0.01398	0	0						
HH	02/08/99	16:25	18.2	38.0	19.8	1 1	953	0.11172	0.11292	0.00120	0	0	77.0	60.6	143.00		Hach Cell	8.0 sec
HH	02/09/99	09:22	38.0	429.7	391.7	1 3	1140	0.10456	0.11517	0.01061	0		220.0	336.8	129.00		3 X 8	6.07sec/25ft
						2 3	1141	0.10354	0.15889	0.05535	0							
						3 3	1142	0.10223	0.16817	0.06594	0							
HH	02/09/99	10:45	59.7	248.3	188.6	1 2	1121	0.10357	0.12887	0.02530	0	0	177.0	273.1	123.50		3 X 8	bottle 1/5 full 3.9sec/25ft lots of snow in Kneeland today
						2 2	1122	0.1059	0.13209	0.02619	0							
HH	02/09/99	15:15	61.0	280.0	219	1 1	1123	0.10701	0.15880	0.05179	0	0	152.0	236.5	138.50		3 X 10	bottle 1/4 full 4.4sec/25ft
HH	02/09/99	17:35	27.7	174.3	146.6	1 1	1124	0.105	0.12754	0.02254	0	0	109.0	153.8	143.00		2 X 6	bottle 2/3 full 4.4 sec
HH	02/10/99	07:35	24.6	196.6	172	1 1	1125	0.10421	0.12037	0.01616	0	0	66.4	94.0	160.00		2 X 6	bottle 2/3 full 4.2 sec
HH	02/13/99	14:00	33.9	309.4	275.5	1 1	1253	0.11072	0.11723	0.00651	0	0	30.2	23.6	176.50		3 X 8	8.1sec/25ft
HH	02/17/99	07:30	24.0	228.7	204.7	1 1	1254	0.10909	0.12372	0.01463	0	0	73.0	71.5			2 X 6	
HH	02/17/99	14:50	22.7	195.8	173.1	1 1	1255	0.10631	0.11554	0.00923	0	0	49.2	53.3			2 X 6	
HH	02/18/99	08:45	38.3	258.5	220.2	1 1	1256	0.1102	0.12313	0.01293	0	0	49.8	58.7			3 X 8	
HH	02/18/99	10:40	33.9	315.9	282	1 1	1258	0.10696	0.15655	0.04959	0	0	150.0	175.9	167.50		3 X 8	4.5sec/25ft
HH	02/18/99	13:45	34.2	227.7	193.5	1 1	1259	0.10719	0.12162	0.01443	0	0	195.0	74.6	153.75		3 X 8	4.4sec/25ft
HH	02/18/99	17:35	18.3	36.8	18.5	1 1	1243	0.10762	0.11056	0.00294	0	0	95.4	158.9			Hach Cell	
HH	02/19/99	08:20										0	53.9					no s/v don't run
HH	02/20/99	18:00	33.6	317.0	283.4	1 1	1147	0.10617	0.11048	0.00431	0	0	30.7	15.2	174.00		3 X 8	6.5sec/25ft
HH	02/22/99	07:40										0	295.0				2 X 6	no s/v don't run

Location	Date	Time	Tare Bottle Weight g	Total Bottle Weight g	Volume/ Bottle Wt.	Filter Total	Filter ID	Initial Filter Weight g	Final Filter Weight g	Sediment Wt	Lab Code	Tur. Code	FTU	Mg/l PPM	Stage	Discharge cfs	Container Type	Comments				
HH	02/23/99	15:00	37.4	336.4	299	1 1	1148	0.10518	0.13743	0.03225	0	0	83.9	107.9	156.00		3 X 8	floating obj. velocities				
HH	02/24/99	14:45	57.6	291.9	234.3	1 1	1149	0.10246	0.10720	0.00474	0	0	33.4	20.2	171.50		4 X 12	5.4sec/25ft				
HH	02/25/99	08:45											118.0				Hach Cell	no s/v don't run				
HH	02/25/99	10:30	57.8	561.0	503.2	1 2	1150	0.10713	0.16518	0.05805	0	0	146.0	206.5	138.25		4 X 12	3.7sec/25ft				
HH	02/28/99	14:30	33.3	320.0	286.7	1 1	1152	0.10319	0.12920	0.02601	0	0	79.0	90.7	157.25		3 X 8	4.2sec				
HH	03/03/99	07:45											51.0				Hach Cell	no s/v don't run				
HH	03/03/99	10:45											43.9		164.00			4.8sec/25ft				
HH	03/08/99	13:30											26.2		179.50			7.5SEC/25FT				
HH	03/09/99	08:00	18.7	38.5	19.8	1 1	1246	0.10788	0.10928	0.00140	0	0	74.3	70.7			Hach Cell					
HH	03/13/99	14:00											128.0		145.50			4.8sec/25ft				
HH	03/14/99	08:00	18.5	34.5	16	1 1	1247	0.10691	0.11029	0.00338	0	0	159.0	211.3			Hach Cell					
HH	03/24/99	07:15	18.1	36.8	18.7	1 1	1248	0.10712	0.11484	0.00772	0	0	246.0	412.9			Hach Cell					
HH	03/24/99	13:15											233.0		128.75			4.0sec/25ft coming up 1" every 10 minutes				
HH	03/24/99	16:10	18.1	36.7	18.6	1 1	1249	0.10943	0.12848	0.01905	0	0	646.0	1024.8			Hach Cell					
HH	03/25/99	06:40	18.7	37.3	18.6	1 1	1250	0.10897	0.11633	0.00736	0	0	156.0	395.8			Hach Cell					
HH	03/25/99	10:30											116.0		147"			4.1sec/25ft receding flood				
HH	03/25/99	18:35	37.4	221.8	184.4	1 1	1293	0.11863	0.14660	0.02797	0	0	67.9	151.7			3 X 8					
HH	03/26/99	06:30	22.8	106.6	83.8	1 1	1294	0.12179	0.13422	0.01243	0	0	59.5	148.3			2 X 6					
HH	03/29/99	14:45	33.9	256.2	222.3	1 1	1295	0.11888	0.12722	0.00834	0	0	30.5	37.5	176.00		3 X 8	8.4sec/25ft				
HH	03/30/99	15:00													171.50			6.5 sec/25 ft				
HH	03/31/99	06:35	18.7	36.4	17.7	1 1	1296	0.11887	0.12170	0.00283	0	0	77.0	159.9			Hach Cell					
HH	04/08/99	15:30	34.9	307.6	272.7	1 1	1297	0.11951	0.13176	0.01225	0	0	50.5	44.9	167.50		3 X 8	5.2sec/25ft				
HH	04/10/99	17:30	33.5	202.5	169	1 1	1298	0.12195	0.12375	0.00180	0	0	23.2	10.7	176.00		3 X 8	8.7sec/25ft				

Cloney Gulch(CL)															
Freshwater Road(6F060) PM 37.99															
Freshwater Creek, Humboldt County, California															
Compiled by C. Fenton															
Hydrologic Year 99															
Grab Sampling: Turbidity / Suspended Sediment Data - provisional															
Salmon Forever / Sunny Brae Sediment Lab															
Samples are taken downstream end of 1/2 circle corrugated metal culvert															
Location	Date	Time	Tare Bot. Wt. g	Total Bot. Wt. g	Bott. Wt.	Filter Total	Filter ID	Initial Filter Weight g	Final Filter Weight g	Sediment Wt. G	Lab Code	Tur. Code	FTU Turbidity	Mg/l PPM	Raw Stage
CL	01/26/98												189		s= 8" dn from yellow (upper)
CL	01/27/98												80.5		S= 13"
CL	01/29/98	09:54											126		S=up11
CL	02/01/98	11:40											95.6		5" deep
CL	02/04/98	09:48											60.8		S= up 7"
CL	02/14/98	15:00											233		S= 13" from chalk mark
CL	02/15/98	10:30											682		S= 14" from "22"
CL	02/19/98	04:26											236		S= 4" below "22" chalk line
CL	02/21/98	09:15											674		S= 16" below conc seam
CL	02/21/98	11:30											366		S= up 25"
CL	02/21/98	13:21											288		
CL6	03/31/98	13:46	22.6	264.7	242.1	1 1	680	0.11512	0.13209	0.01697	0	0	78	70.1	
CL	05/25/98		23.6	268.3	244.7	1 1	682	0.11353	0.12016	0.00663	0	0	66	27.1	
CL			18.1	37.6	19.5	1 1	9	0.12347	0.13365	0.01018	0			522.2	
CL2			18.2	38.2	20.0	1 2	20	0.12359	0.14069	0.01710	0	1	1170	1326.1	
						1 2	21	0.12715	0.13655	0.00940	0				
CC 1.2			23.0	261.9	238.9	1 1	67	0.12400	0.12408	0.00008	0	0	10.4	0.3	
CC	11/07/98		17.9	36.8	18.9	1 1	73	0.12732	0.12823	0.00091	0	0	261	48.1	8' 4"
CLONEY	11/07/98	09:30	18.1	37.4	19.3	1 1	78	0.12594	0.12834	0.00240	0	0	198	124.4	S=17"
CLONEY	11/08/98	14:10	18.1	33.8	15.7	1 1	93	0.12443	0.12828	0.00385	0	0	80.6	245.3	S= 20"
CL	11/17/98	08:40	16.8	32.1	15.3	1 1	374	0.11624	0.11814	0.00190	0	0	190	124.2	S= 12"
CC	11/17/98	09:15	18.5	37.8	19.3	1 1	172	0.11910	0.12057	0.00147	0	0	90.4	76.2	
CC	11/17/98	09:15	61.7	512.9	451.2	1 2	186	0.11848	0.14142	0.02294	0	0	221	130.4	S=13" from upper yellow line
						2 2	187	0.11739	0.15330	0.03591	0				
CC	11/17/98	15:45	61.9	481.9	420.0	1 2	188	0.11586	0.12837	0.01251	0	0	138	68.2	S=15" from upper yellow line
						2 2	189	0.11802	0.13414	0.01612	0				
CC	11/18/98	08:50	61.3	620.6	559.3	1 2	190	0.11727	0.12091	0.00364	0	0	72.7	9.2	S= 20" dn upper ylw line
						2 2	191	0.11672	0.11824	0.00152	0				
CL	11/21/98	00:20													S= 15"

Cloney Gulch(CL)					
Freshwater Road(6F060) PM					
Freshwater Creek, Humboldt County, California					
Hydrologic Year 99					
Grab Sampling: Turbidity / Suspended Sediment Data - provisional					
Salmon Forever / Sunny Brae Sediment Lab					
Stage is measured as inches down from conc. form line downstream RL wing wall					
Stage	Discharge CFS	Type	Distance Ft.	Time Sec.	Comments
36					No stages from Margaret Lang's stage recorder until fall of 98
				3.25 sec	
			10	8.83	8.83 sec/10'
			10	6.98	6.98 sec / 10'
16			10	1.35	10' 1.35sec
					S= 26 up = 26.5 xxx from con sa? of TR
		2 X 6			
		2 X 6			
		H			possibly OL
		H			
		2 X 6			
		H			
		H			
		H			
		glass 1/2 x 4			
		H			
41.0		3 X 8			
43.0		3 X 8			
48.0					

Location	Date	Time	Tare Bot. Wt. g	Total Bot. Wt. g	Bott. Wt.	Filter Total	Filter ID	Initial Filter Weight g	Final Filter Weight g	Sediment Wt. G	Lab Code	Tur. Code	FTU Turbidity	Mg/l PPM	Raw Stage
CL	11/21/98	02:00	371.9	789.6	417.7	1 6	239	0.11602	0.17914	0.06312	0	0	752	1956.2	
						2 6	240	0.11771	0.16542	0.04771	0				
						3 6	241	0.11842	0.17656	0.05814	0				
						4 6	242	0.11616	0.16616	0.05000	0				
						5 6	243	0.11838	0.21296	0.09458	0				
						6 6	244	0.11868	0.62122	0.50254	0				
CL/CC	11/21/98	09:40	26.0	274.2	248.2	1 2	355	0.11570	0.31977	0.20407	0	0	577	972.9	S= -6"
						2 2	356	0.11701	0.15427	0.03726	0				
CL/CC	11/21/98	12:20	26.7	272.5	245.8	1 1	357	0.11545	0.18531	0.06986	0	0	197	284.3	s= 15"
CL	11/21/98	16:05													
CL	11/21/98	16:50											714		S= 6" backwater
CL	11/21/98	18:00	18.4	36.1	17.7	1 1	271	0.11949	0.13946	0.01997	0	0	639	1129.0	
CL	11/21/98	18:33	371.8	811.7	439.9	1 4	272	0.12153	0.44180	0.32027	0	0	626	1375.0	S=22" 5" belw portholr
						2 4	273	0.12055	0.31769	0.19714	0				
						3 4	274	0.12091	0.17033	0.04942	0				
						4 4	275	0.12031	0.15784	0.03753	0				
CL	11/22/98	12:20	18.4	37.6	19.2	1 1	307	0.12073	0.12263	0.00190	0	0	139	99.0	S= 8' from top of culvert
CG	11/23/98	08:25	41.7	285.9	244.2	1 4	278	0.12030	0.26548	0.14518	0	0	729	1317.3	
						2 4	279	0.12073	0.24573	0.12500	0				
						3 4	280	0.11959	0.15305	0.03346	0				
						4 4	281	0.12098	0.13877	0.01779	0				
CL	11/23/98	14:25	18.3	37.5	19.2	1 1	388	0.11230	0.11820	0.00590	0	0	250	307.4	S=3' up to bolt
CL	11/24/98	19:28	17.8	36.8	19.0	1 1	410	0.11511	0.11579	0.00068	0	0	84.8	35.8	S= up 7" = 3'7" dn concrete tie
CL	11/24/98	19:29	370.7	636.6	265.9	1 1	400	0.11640	0.13027	0.01387	0	0	83.2	52.2	S= dn 3'7" = up7" concrete tie
CL	11/26/98	14:05	377.1	618.1	241.0	1 1	420	0.11446	0.20407	0.08961	0	0	199	371.9	
CL	11/26/98		21.9	273.8	251.9	1 1	438	0.12144	0.19568	0.07424	0	0	262	294.8	
CL	12/02/98	22:07	33.7	400.1	366.4	1 2	490	0.12192	0.19167	0.06975	0	0	258	475.4	S= at yellow line
						2 2	491	0.12625	0.23065	0.10440	0				
CL	12/03/98	08:50	33.7	426.7	393.0	1 2	492	0.12252	0.15371	0.03119	0	0	130	181.8	S= 8.5" below yellow line
						2 2	493	0.12501	0.16524	0.04023	0				
CL	12/13/98	16:30	63.8	565.9	502.1	1 3	562	0.12665	0.19569	0.06904	0	0	346	532.2	S= 10.5" below yellow line
						2 3	563	0.12981	0.18686	0.05705	0				
						3 3	564	0.12543	0.26646	0.14103	0				
CL	12/13/98	18:53	391.2	761.2	370.0	1 4	541	0.12792	0.15989	0.03197	0	0	313	347.7	S= dn 38" concrete up 13" wood
						2 4	542	0.12841	0.15938	0.03097	0				
						3 4	543	0.12487	0.15829	0.03342	0				
						4 4	544	0.12664	0.15890	0.03226	0				

Stage	Discharge CFS	Type	Distance Ft.	Time Sec.	Comments
		2 X 6			
7.0			10	1.79	dn 13" bolt at metal culvert = dn 7 from concrete form line(white concrete crack) 10' / 1.56sec(center) -2.1sec(RR)-1.7sec(RL)
22.0		H	5.42	8.88	at 18:03 DIS dn 22" cement line or 5" dn 4" black sewer (weephole)invert - 8.88 sec thru 65"
27.0		DIS			
48.0		H			seconds thru culvert 18-20-16 sec
31.5		3x8			S= 31.5" below conc. Line and 3" below yellow line- bottom of porthole is 6" above yellow stage line line on concrete is 27.5" above yellow stage - top of porthole is 17.5" below line on concrete -
30.0		H			12.5 9.5 12 10.5 sec
43.0		H	10	5.9	10'/6sec 6.5 sec 5.2 sec
43.0		DIS			
		DIS			
		DIS/2X6			
28.0		3 X 8			
36.5		3 X 8			
38.5	147.0	3 X 8			Discharge generated synthetically from McCready data per M.L.
38.0	135.0	DIS			Discharge generated synthetically from McCready data per M.L.

Location	Date	Time	Tare Bot. Wt. g	Total Bot. Wt. g	Bott. Wt.	Filter Total	Filter ID	Initial Filter Weight g	Final Filter Weight g	Sediment Wt. G	Lab Code	Tur. Code	FTU Turbidity	Mg/l PPM	Raw Stage
CL	12/13/98	21:30	64.6	571.9	507.3	1 3	585	0.12834	0.17734	0.04900	0	0	154	192.8	S= 10.5"
						2 3	586	0.12569	0.15106	0.02537	0				
						3 3	587	0.12864	0.15207	0.02343	0				
CL	12/14/98	07:30											78.4		S= 14"
CL	12/14/98	09:20	61.4	710.5	649.1	1 2	600	0.12892	0.14687	0.01795	0	0	78.4	42.6	
						2 2	601	0.12702	0.13671	0.00969	0				
CL	12/31/98	17:17	18.4	35.1	16.7	1 1	625	0.11330	0.11342	0.00012	0	0	98.8	7.2	S= dn47" = 3"deep
CL	12/31/98	17:17	370.7	593.7	223.0	1 1	628	0.11608	0.11956	0.00348	0	0	95.2	15.6	S= dn47" = 3"deep
CL	01/13/99	17:55	57.4	569.0	511.6	1 1	694	0.11668	0.11507	-0.00161	1		6.29		S= 2ft below yellow line
CL	01/14/99	21:50	18.7	38.2	19.5	1 1	700	0.11618	0.11689	0.00071	0	0	158	36.4	
CL	01/15/99	11:23	27.1	484.7	457.6	1 2	709	0.11392	0.12119	0.00727	0	0	106	51.4	S= 1'5" from yellow line
						2 2	710	0.11661	0.13287	0.01626	0				
CL	01/16/99	17:05	21.8	250.9	229.1	1 1	740	0.11595	0.12441	0.00846	0	0	65.2	36.9	S= 18" below yellow line
CL	01/17/99	17:00	36.5	506.5	470.0	1 2	758	0.11269	0.12576	0.01307	0	0	105	64.4	
						2 2	759	0.11361	0.13079	0.01718	0				
CL	01/18/99	01:05	18.2	35.9	17.7	1 1	780	0.11179	0.11433	0.00254	0	0	190	143.5	S= 11" to yellow line
CL	01/18/99	14:43	25.7	240.5	214.8	1 1	771	0.1135	0.11955	0.00605	0	0	80.4	28.2	S= 1'3.5" below yellow line
CL	01/22/99	14:30	18.2	36.9	18.7	1 1	883	0.11273	0.11312	0.00039	0	0	71.4	20.9	
CL	01/23/99	09:00											128		S= dn 39" conc
CL	01/24/99	11:08	376.3	625.7	249.4	1 1	895	0.11386	0.11861	0.00475	0	0	50	19.0	S= dn 44" conc = 4" depth
CL	01/31/99	11:15	26.3	263.8	237.5	1 1	1047	0.108	0.10966	0.00166	0	0	24	7.0	S= 2' below yellow line
CL	02/06/99	12:00	33.9	522.4	488.5	1 6	1175	0.10316	0.25792	0.15476	0	0	787	1333.6	
						2 6	1176	0.10310	0.20855	0.10545	0				
						3 6	1177	0.10545	0.13544	0.02999	0				
						4 6	1178	0.10543	0.15712	0.05169	0				
						5 6	1179	0.10222	0.13836	0.03614	0				
						6 6	1180	0.10321	0.37609	0.27288	0				
CL	02/06/99	12:30	369.6	587.1	217.5	1 2	1167	0.10348	0.28532	0.18184	0	0	831	1614.4	S= 28" dn conc
						2 2	1168	0.10378	0.27272	0.16894	0				
CL	02/07/99	01:55	18.1	35.4	17.3	1 1	947	0.11168	0.1147	0.00302	0	0	132	174.6	14" dn ylw line 29" up on stage gauge
CL	02/07/99	16:00	34.8	507.7	472.9	1 1	1120	0.10377	0.15653	0.05276	0	0	115	111.6	
CL	02/09/99	09:57	24.9	202.6	177.7	1 3	1143	0.10482	0.10822	0.00340	0		137	149.7	S=10" below yellow line
						2 3	1144	0.10520	0.12204	0.01684	0				
						3 3	1145	0.10429	0.11065	0.00636	0				
CL	02/18/99	09:30	25.3	268	242.7	1 1	1257	0.10846	0.13550	0.02704	0	0	140	111.4	
CL	02/18/99	14:59	17.7	36.3	18.6	1 1	1242	0.10708	0.10891	0.00183	0	0	159	98.4	12" dn ylw line 28" up stage gauge

dn 13" bolt at metal culvert = dn 7 from concrete form line(white concrete crack)
dn 22" cement line or 5" dn 4" black sewer (weep hole)invert
S= 31.5" below conc. Line and 3" below yellow line- bottom of porthole is 6" above yellow stage line
top of porthole is 17.5" below line on concrete -
line on concrete is 27.5" above yellow stage
S= dn 3'7" = up 7" concrete tie
S= dn 38" concrete up 13" wood S= 14" below yellow line 29" up on stage gauge
S= dn 47" = 3" deep S= 12" below yellow line 28" up stage gauge
S= dn 44" conc = 4" depth

concrete form line is 49" + - above wood bottom of culvert at outflow
yellow line is 28" + - below concrete form line
top of porthole(weep hole) is 17.5 " below concrete line

McCready Gulch(MC)																
Hydrologic Year 98/99																
Box culvert at Freshwater Road(F6F060) PM 38.60																
Humboldt County, California																
Compiled by C.Fenton				Turbidity / Suspended Sediment Data - Grab Sampling - provisional												
Salmon Forever / Sunny Brae Sediment Lab																
Grab sample is taken downstream end of box concrete culvert																
Location	Date	Time	Type	Tare Bot. Wt. g	Total Bot. Wt. g	Volume/ Bot. Wt.	Filter Total	Filter ID	Initial Filter Weight g	Final Filter Weight g	Sediment Wt.	Lab Code	Mg/l PPM	Tur. Code	TUM S/N	FTU Turbidity
MC	01/26/98	22:00												0	9614	240
MC	01/27/98	11:20												0	9614	78.4
MC	01/27/98	17:20												0	9614	65.4
MC	01/29/98	12:00												0	9614	168
	01/29/98	09:40												0	9614	156
MC	01/29/98	17:20												0	9614	87.6
MC	02/01/98	11:36												0	9614	78.8
MC	02/04/98	09:15												0	9614	49.5
MC	02/06/98	01:10												0	9614	88.9
MC	02/06/98	17:00												0	9614	161
MC	02/07/98	09:10												0	9614	52.1
MC	02/07/98	08:45												0	9614	104
MC	02/08/98	12:20												0	9614	159
MC	02/21/98	11:26												0	9614	554
MC#1	03/16/98	09:15	Hach Cell	18.2	38.3	20.1	1 1	161	0.12618	0.15694	0.03076	0	1531.8	0	9614	982
MC#2	03/16/98	13:57	Hach Cell	18.3	38.5	20.2	1 1	162	0.12877	0.13898	0.01021	0	505.6	0	9614	269
MC#3	03/16/98	18:00	Hach Cell	18.1	37.4	19.3	1 1	163	0.12756	0.13176	0.00420	0	217.6	0	9614	176
MC#4	03/17/98	17:00	Hach Cell	18.5	38.8	20.3	1 1	164	0.12649	0.12812	0.00163	0	80.3	0	9614	83.9
MC	03/31/98	13:53	2 x 6	24.3	266.4	242.1	1 1	158	0.1258	0.14356	0.01776	0	73.4	0	9614	73.4
MC#5	03/31/98	17:29	Hach Cell	18.3	38.1	19.8	1 1	165	0.12821	0.13113	0.00292	0	147.5	0	9614	130
MC#6	04/01/98	11:30	Hach Cell	18.3	37.2	18.9	1 1	166	0.1276	0.12893	0.00133	0	70.4	0	9614	52
MC	11/06/98	13:27	Hach Cell	17.8	37.0	19.2	1 1	69	0.12854	0.13312	0.00458	0	238.6	0	9614	802
McCr	11/06/98	09:00	Hach Cell	17.9	38.5	20.6	1 1	82	0.12524	0.12534	0.00010	0	4.9	0	9614	74.5
McCr	11/07/98	09:50	Hach Cell	17.9	37.4	19.5	1 1	83	0.12906	0.13748	0.00842	0	431.9	0	9614	863
McCr	11/08/98	08:35	2 x 6	23.9	267.6	243.7	1 1	101	0.1249	0.1275	0.00260	0	10.7	0	9614	89.8
McCr	11/08/98	13:40	Hach Cell	18.2	33.4	15.2	1 1	91	0.12714	0.1273	0.00016	0	10.5	0	9614	108
MC	11/17/98	00:50	2 X 6	25.8	267.9	242.1	1 3	340	0.11170	0.14052	0.02882	0	343.7	0	9614	477
							2 3	341	0.11174	0.13997	0.02823	0				
							3 3	342	0.11580	0.14193	0.02613	0				
MC	11/17/98	08:15	2 X 6	24.5	271.0	246.5	1 1	373	0.11254	0.16675	0.05421	0	219.9	0	9614	256

McCready Gulch(MC)			
Hydrologic Year 98/99			
Box culvert at Freshwater Road(F6F060) PM 38.60			
Humboldt County, California			
Turbidity / Suspended Sediment Data - Grab Sampling - provisional			
Salmon Forever / Sunny Brae Sediment Lab			
Discharge is from M.Lang upstream staff plate rating curve 3-01			
Stage is measured down from ceiling of culvert			
Raw Stage	Stage	Discharge CFS	Comments floating object velocities
S= dn 58"			
S= 58" dn			
S= 62" dn			
S= 52" down			
S= dn48 up 24			5.47sec 10 ft
S= 56" dn			
s= 66DN 7" deep			5.58 sec / 10 ft
S= dn 65 up 8			4.36 sec
S= 62"			
S= 60"			
S= 62"			
S= 52"			
S= 42"			
S= dn 13.5	13.5		20' / 8.72 8.76 sec 8' wide
S=17"			
S=21"			
S=36"			
S=48"			
S=54"	54"		
S=60"	60"		
S= 71.5" to underside of cv			v=6.84s=61+9
s=5'2"			v=5s/10ft
up4"			
70.0			5sec/10ft
63"			6 sec 10 ft
	58"		6 sec 10 ft

Location	Date	Time	Type	Tare Bot. Wt. g	Total Bot. Wt. g	Volume/ Bot. Wt.	Filter Total	Filter ID	Initial Filter Weight g	Final Filter Weight g	Sediment Wt.	Lab Code	Mg/l PPM	Tur. Code	TUM S/N	FTU Turbidity
MC	11/17/98	10:58	Hach Cell	18.1	36.5	18.4	1 1	169	0.11823	0.11994	0.00171	0	92.9	0	9614	202
MC	11/20/98	23:15	2 X 6	26.3	275.8	249.5	1 1	344	0.11804	0.2045	0.08646	0	346.6	0	9614	450
MC	11/21/98	02:00	Hach Cell	18.2	36.9	18.7	1 1	195	0.11728	0.12735	0.01007	0	538.7	0	9614	712
MC	11/21/98	08:00	Hach Cell	18.4	38.3	19.9	1 1	346	0.11497	0.13642	0.02145	0	1078.6	0	9614	1054
MC	11/21/98	11:00	Hach Cell	18.4	36.3	17.9	1 1	347	0.11678	0.12794	0.01116	0	623.7	0	9614	1414
MC	11/21/98	15:35														
MC	11/21/98	16:00	Hach Cell	18.5	37.1	18.6	1 1	348	0.11852	0.12633	0.00781	0	420.0	0	9614	842
MC	11/21/98	16:53													9614	785
MC	11/21/98	20:08	Hach Cell	18.1	38.1	20	1 1	310	0.11972	0.13672	0.01700	0	850.5	0	9614	498
MC	11/23/98	07:59	3X8												9614	775
MC	11/26/98	12:xx	dis	23.6	159.1	135.5	1 1	437	0.12321	0.16272	0.03951	0	291.6	0	9614	290
MC	12/02/98	08:25	3 X 8	34.4	362.3	327.9	1 2	480	0.12484	0.16616	0.04132	0	267.5	0	9614	177
							2 2	485	0.12169	0.16808	0.04639	0				
MC	12/02/98	21:50	3 X 8	34.1	321.0	286.9	1 2	481	0.12152	0.21430	0.09278	0	589	0	9614	447
						0	2 2	482	0.12345	0.19958	0.07613	0				
MC	12/03/98	08:25														
MC	12/13/98	16:14	Hach Cell	18.3	38.0	19.7	1 1	539	0.12687	0.13084	0.00397	0	201.5	0	9614	284
MC	12/13/98	19:58												0	9614	260
MC	12/14/98	09:20												0	9614	72.1
MC	12/14/98	18:02												0	9614	58.2
MC	12/31/98	17:30	DIS											0	9614	67.7
MC	01/13/99	18:00	4x10											0	9614	5.94
MC	01/15/99	12:30	pl											0	9614	97.9
MC	01/16/99	17:20												0	9614	51
MC	01/18/99	00:25	Hach Cell											0	9614	204
MC	01/18/99	15:04												0	9614	85.7
MC	02/06/99	12:00	Hach Cell											1	9614	1000+
MC	02/06/99	13:00	dis											1	9614	1000+
MC	02/06/99	19:00	Hach Cell											0	9614	162
MC	02/07/99	01:45	Hach Cell											0	9614	127
MC	02/07/99	11:00	Hach Cell											0	9614	167
MC	02/07/99	15:17	Hach Cell											0	9614	115
MC	02/08/99	16:30	Hach Cell											0	9614	93.4
MC	02/08/99	21:20	Hach Cell											0	9614	97.2
MC	02/09/99	09:45	Hach Cell											0	9614	202
MC	02/09/99	13:00	Hach Cell											0	9614	133
MC	02/10/99	13:30	Hach Cell											0	9614	49.6
MC	02/10/99	18:30	Hach Cell											0	9614	95.5
MC	02/18/99	17:35	2x6											0	9614	119

Raw Stage	Stage	Discharge CFS	Comments floating object velocities
dn 56"	56.0		4.35sec/10ft
s=62.5	62.5"		v=5.5/10ft
8 FT			
8 FT 7 INCHES			
8' 9"			
at 2" above			- DIS sampled to bottom @ center of culvert had been 12" higher 8"/7 sec
S= 105 ?			
			NO STAGE OR VEL.
S= dn 37" from mp	16.5		
4'5.5" top stage pipe	33.5		2 SEC / 10 FT culvert top thickness is 17" to pipe
S=DN4'8"	56.0		5SEC/10FT
S=DN 2'9"	33		5 SEC / 10 FT
	56		5 sec Discharge not available before, upstream gage installed 12/08/98 per M.Lang
		51.0	rising 12"
S= dn40" up23" dn61"mp	40	44	
S= 30" up		11	cork stage gauge 36" peak
S= 79" dn top of cement	79	7.6	
5-6"deep		2.5	10'/21sec
		0.6	S= 65" to inside culvert- top of stage to bottom 6sec/10ft
57" from bottom cv to top water		8	9sec/15ft
S= 61" to inside cv		7.8	8SEC/10 FT
S= 63" to top of culvert	63	44	5sec/15ft - not good number
	55"	7.6	7.76SEC/10FT
S= 52" to top of culvert	27	69	or 34" to bottom
S= 24" dn conc water column	24	81	43" deep 10ft/2.53 sec
S= 69" to top or 34" to bottom		35	
S= 73" to top of culvert	73	29	
S= 58" to top 40" to bottom		53	
S= 70" to top 51" to top		32	
		11	
		15	
S= 57" to top of culvert and 38"	57	66	stage 5.5 sec 15ft
68" dn top of culvert and 47" dn bot	68	52	
S= 78" dn top of cv	78	13	
S= 68" dn top of culvert	68	12	
S= 77" dn culvert top	77	22	4.5sec/15'

Freshwater Creek - Freshwater Park Bridge (Park) Bridge #4C- 0136																		
Freshwater Park Rd- Road# 4J060 PM. 0.03																		
Humboldt County, California																		
Hydrologic Year 99																		
Turbidity / Suspended Sediment Data - Grab Sampling - Provisional																		
Salmon Forever / Sunny Brae Sediment Lab																		
																		Stage is h
Location	Date	Time	Type	Tur.	TUM	FTU	Tare Bottle	Total Bottle	Volume/	Filter	Filter	Initial Filter	Final Filter	Sediment	Lab	Mg/l	FTU	
Sampled	Sampled	Sampled		Code	S/N	Turbidity	Weight g	Weight g	Bottle Wt.	Total	ID	Weight g	Weight g	Wt.	Code	PPM	Turbidity	Stage
PARK	01/26/98			0	9614	298											298	
PARK	01/29/98	10:00		0	9614	183											183	
PARK	01/27/98			0	9614	127											127	
PARK	02/14/98	14:55		0	9614	291											291	
PARK	02/15/98	10:38		0	9614	72.4											72.4	
PARK	02/19/98	16:20		0	9614	336											336	
PARK	02/21/98	09:20		1	9614	1000+											1000+	
PARK	02/21/98	11:36		0	9614	747											747	
PARK	03/31/98	13:41	2 X 6	0	9614	79	261.6			1 1					3		79	
PARK	11/07/98	09:15	Hach Cell	0	9614	127	18.2	33.5	15.3	1 1	77	0.12387	0.12500	0.00113	0	73.9	127	
Park	11/17/98	00:15	Hach Cell															
PARK	11/17/98	08:20	jar	0	9614	244	186.9	448.3	261.4	1 1	375	0.11795	0.20048	0.08253	0	315.8	244	130.5
PARK	11/20/98	23:25	2 X 6	0	9614	52.7	26.4	274.8	248.4	1 1	345	0.11465	0.12296	0.00831	0	33.5	52.7	147.0
PARK	11/21/98	02:00	Hach Cell	0	9614	344	18.4	37.8	19.4	1 1	192	0.11535	0.12261	0.00726	0	374.3	344	
PARK	11/21/98	09:35	2 x 6	0	9614	720	26.5	270.3	243.8	1 2	349	0.11445	0.38219	0.26774	0	1150.3	720	111.0
										2 2	350	0.11523	0.12774	0.01251	0			
PK	11/21/98	16:10	DIS	1	9614	1246	370.0	691.6	321.6	1 7	231	0.11874	0.16081	0.04207	0	2480.6	1246	
									0.0	2 7	232	0.11523	0.15447	0.03924	0			
									0.0	3 7	233	0.11746	0.16831	0.05085	0			
									0.0	4 7	234	0.11634	0.20693	0.09059	0			
									0.0	5 7	235	0.11833	0.19806	0.07973	0			
									0.0	6 7	236	0.11901	0.46919	0.35018	0			
									0.0	7 7	237	0.11891	0.26278	0.14387	0			
PARK	11/21/98	16:45	2 X 6	1	9614	1048	26.1	257.9	231.8	1 4	351	0.11548	0.23989	0.12441	0	2050.5	1048	86"
										2 4	352	0.11993	0.15911	0.03918	0			
										3 4	353	0.11585	0.15173	0.03588	0			
										4 4	354	0.11395	0.38919	0.27524	0			
PARK	11/22/98	16:18	Hach Cell	0	9614	157	18.0	37.4	19.4	1 1	316	0.11822	0.12086	0.00264	0	136.1	157	170.0
PARK	11/23/98	08:05	DIS?	0	9614	602	383.6	831.8	448.2	1 6	287	0.12038	0.44171	0.32133	0	2086.2	602	74.0
										2 6	288	0.11984	0.17793	0.05809	0			
										3 6	289	0.11955	0.17655	0.05700	0			
										4 6	290	0.11851	0.16716	0.04865	0			

										5 6	291	0.11947	0.45158	0.33211	0			
										6 6	292	0.11772	0.23438	0.11666	0			
PARK	11/23/98	14:10	Hach Cell	0	9614	428	18.1	36.8	18.7	1 1	387	0.11818	0.13008	0.01190	0	636.6	428	
PARK	11/24/98	19:47	DIS	0	9614	102	372.7	644.3	271.6	1 1	401	0.11395	0.23768	0.12373	9	455.7	102	
PARK	11/24/98	19:47	Hach Cell	0	9614	90.2	17.9	37.7	19.8	1 1	411	0.11721	0.11887	0.00166	0	83.8	90.2	
PARK	12/02/98	22:15	3 X 8	0	9614	495	34.1	334.0	299.9	1 3	494	0.12159	0.19532	0.07373	0	1008.5	495	
										2 3	495	0.12051	0.20639	0.08588	0			
										3 3	496	0.12243	0.26509	0.14266	0			
PARK	12/03/98	08:30	3 X 8	0	9614	220	36.2	367.8	331.6	1 2	497	0.12524	0.20019	0.07495	0	397.8	220	158.0
										2 2	498	0.12114	0.17806	0.05692	0			
PARK	12/13/98	17:15	Hach Cell	0	9614	409	18.0	37.7	19.7	1 1	540	0.12640	0.13871	0.01231	0	625.1	409	
PARK	12/13/98	17:20	DIS	0	9614	408	369.4	644.3	274.9	1 2	556	0.12762	0.24721	0.11959	0	691.1	408	
										2 2	557	0.12587	0.19618	0.07031	0			
PARK	12/13/99	21:45	3 X 8	0	9614	61.4	23.4	252.3	228.9	1 1	559	0.12871	0.13794	0.00923	0	40.3	61.4	
PARK	12/31/98	17:09	Hach Cell	0	9614	76.6	18.1	34.4	16.3	1 1	624	0.11583	0.11620	0.00037	0	22.7	76.6	
PARK	12/31/98	17:09	DIS	0	9614	74.5	371.4	581.6	210.2	1 1	629	0.11309	0.12036	0.00727	0	34.6	74.5	
PARK	01/13/99	17:45	3 X 8	0	9614	4.62	33.5	218.4	184.9	1 1	693	0.11532	0.11545	0.00013	0	0.7	4.62	192.0
PARK	01/15/99	11:00	1 pint plastic	0	9614	79.5	25.4	468.2	442.8	1 2	735	0.11466	0.12916	0.01450	0	80.2	79.5	
										2 2	736	0.11609	0.13708	0.02099	0			
PARK	01/17/99	16:45	3 X 8	0	9614	41.8	38.1	494.1	456.0	1 1	757	0.11519	0.12801	0.01282	0	28.1	41.8	
Park	01/18/00	00:40																160.0
PARK	01/18/99	14:28	2 X 6	0	9614	78.1	25.8	235.7	209.9	1 1	768	0.11347	0.12800	0.01453	0	69.2	78.1	
PARK	01/31/99	11:00	3 X 8	0	9614	15	36.6	337.0	300.4	1 1	1039	0.10811	0.11033	0.00222	0	7.4	15	
PARK	02/07/99	02:05	Hach Cell	0	9614	123	18.5	31.3	12.8	1 1	948	0.11186	0.11306	0.00120	0	93.8	123	
PARK	02/06/99	12:20	3 X 8	1	9614	1074	266.3	364.2	97.9	1 1							1074	
PARK	02/06/99	12:36	DIS	1	9614	1100	370.5	505.4	134.9	1 4	1163	0.10324	0.19872	0.09548	0	2779.8	1100	
										2 4	1164	0.10535	0.17058	0.06523				
										3 4	1165	0.10381	0.27589	0.17208				
										4 4	1166	0.10492	0.14648	0.04156				
PARK	02/07/99	02:05																165.0
PARK	02/09/99	10:00	Hach Cell	0	9614	127	18.0	31.5	13.5	1 1	955	0.11279	0.11464	0.00185	0	137.0	127	157.5
PARK	03/29/99	18:37	DIS	0	9614	39.6	374.1	602.3	228.2	1 1	1215	0.10746	0.11271	0.00525	0	23.0	39.6	

