Lower Payette River Subbasin Assessment and Total Maximum Daily Load

December 1999

Prepared For State of Idaho

by
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Appendix B. Water Quality Information 1997-199Lower Payette River

Lower Payette River Monitoring
September 1996 through October 1998

Provisional Data, Do Not Cite

Station LPR-001, Lower Payette River @ Black Canyon Dam, STORET #2040689

	Temp.	Dissolved Oxygen	Conductivity	Flow measured	pH	Nitrates/ Nitrites	TKN	Ammonia	Total Phos.	ortho-Phos.	Hg	Ar	Fe	Susp. Solids	Turbidity	Fecal Coliform	Fecal Strep.	E. coli
	C	mg/l	umhos	CFS	su	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	mg/l	FTU	CFU/100 ml	CFU/100 ml	CFU/100 ml
29-Oct-96	6.9	11.5	69.3	1130	7.67	0.01	0.19	0.02	0.024	0.007	0.2		250	6	2	8	12	
20-Nov-96	5.0	13.3	54.8	6600	7.43	0.09	0.36	0.01	0.081	0.013	0.2		1650	44	21	196	280	
16-Dec-96	1.4	16.1	53.1	3520	7.18	0.11	0.24	0.02	0.04	0.014	0.2		710	6	5	15	40	
21-Jan-97	3.2	15.1		6810	7.92	0.11	0.29	0.03	0.055	0.017	0.2		700	14	9	10	4	
18-Feb-97	4.4		49.8	7320	6.76	0.12	0.24	0.02	0.051	0.019	0.2		700	8	7	36	4	
25-Mar-97	5.8	13.5	49.3	9480	6.92	0.08	0.27	0.01	0.08	0.023	0.2		1290	36	16	10	4	
08-Apr-97	6.7	12.4	49.6	5450	7.49	0.04	0.21	0.01	0.053	0.017	0.2		640	14	8	4	2	
22-Apr-97	7.6	13.7	41.1	11500	7.76	0.2	0.28	0.01	0.12	0.028	0.2		2720	73	42	80	32	
07-May-97	9.6	13.4	44.7	9230	7.22	0.03	0.18	0.01	0.058	0.018	0.2		850	19	11	32	8	
21-May-97	10.1	13.4	36.5	11700	7.18	0.06	0.17	0.01	0.066	0.016	0.2		1100	40	19	400	60	
03-Jun-97	11.6	13.6	35.0	12000	7.55	0.05	0.14	0.01	0.042	0.011		2.0	770	28	11	40	20	
17-Jun-97	14.2	12.6	34.2	12100	7.63	0.06	0.21	0.01	0.039	0.011		2.0	600	16	7	20	8	
14-Jul-97	17.4		44.5	3060	7.57	0.02	0.12	0.01	0.027	0.013		2.0	240	6	3	8	4	
29-Jul-97	20.2	9.0	48.9	2300	8.01	0.02	0.18	0.02	0.043	0.006			380	9	2	12	44	
13-Aug-97	19.7	9.1	47.4	2180	7.43	0.02	0.24	0.02	0.032	0.007		2.0	320	7	3	4	4	
26-Aug-97	19.7	8.6	52.0	1600	8.41	0.02	0.2	0.02	0.035	0.007		2.0	290	6	2	6	6	
09-Sep-97	20.0	8.9	57.6	536	7.67	0.03	0.22	0.01	0.024	0.008		2.0	230	5	2	2	4	
23-Sep-97	16.9	10.3	66.0	483	8.15	0.04	0.27	0.04	0.032	0.008		2.0	280	8	3	2	32	
27-Oct-97	7.8	12.2	86.0	1170	8.7	0.04	0.21	0.02	0.037	0.004		1.0	340	5	3	2	2	
18-Nov-97	3.0	12.4	83.0	1160	7.72	0.04	0.32	0.16	0.047	0.009		1.0	750	8	4	4	2	
09-Dec-97	1.5	15.6	57.0	1770	7.83	0.05	0.2	0.02	0.035	0.007		1.0	190	3	3	2	4	
21-Jan-98	1.5		77.0	1570	7.69	0.24	0.42	0.07	0.14	0.043		1.0	4490	43	48	190	580	
23-Jan-98	4.7	15.4	77.0	1970	8.08	0.07	0.18	0.02	0.051	0.015		1.0	550	4	4	8	12	
19-Mar-98	6.6	14.8	63.0	2930	7.71	0.06	0.21	0.02	0.047	0.011		1.0	590	5	6			
24-Mar-98				2930												106	80	
06-Apr-98	6.9	14.6	55.0	4210	7.61	0.08	0.28	0.01	0.047	0.015		1.0	630	6	6	2	10	2
26-Apr-98	10.3	14.6	39.0	6370	7.52	0.09	0.23	0.03	0.044	0.016		1.0	530	7	5	42	40	2
12-May-98	10.4	14.3	37.0	9550		0.06	0.24	0.02	0.079	0.015		1.0	1260	30	9	120	78	30
28-May-98				16900		0.03	0.29	0.02	0.096	0.028		1.0	1770	28	19	1440	1660	16
08-Jun-98	12.9	13.8	38.1	10300	7.41	0.01	0.24	0.02	0.043	0.011		1.0	430	9	5	20	20	2
22-Jun-98	14.9		34.4	5590	7.79	0.06	0.16	0.02	0.035	0.008		1.0	320	6	3	30	16	2
06-Jul-98	19.0		37.8	4210	7.72	0.02	0.2	0.02	0.028	0.011		1.0	310	6	4	30	24	12
20-Jul-98	22.3	8.7	47.8	1950	7.37	0.07	0.19	0.02	0.028	0.01		1.0	220	4	2	20	78	4
05-Aug-98	22.2	8.8	66.2	1600	7.87	0.01	0.27	0.02	0.043	0.008		1.0	510	13	4	12	4	2
17-Aug-98	21.8	9.8	65.4	1430	7.73	0.16	0.22	0.04	0.03	0.008		1.0	340	5	2	2	4	2
02-Sep-98	19.4	9.0	43.0	991	7.65	0.02	0.22	0.03	0.03	0.004		1.0	360	8	2	4	12	2
28-Sep-98	16.0		63.4	633		0.01	0.25	0.02	0.039	0.003		1.0	450	8	4	6	8	4

Blank Spaces=Data Not Available, Underlined Values=Less Than, Irrigation Season Defined as April 1 through Sept. 30

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Station LPR-001, Lower Payette River @ Black Canyon Dam, STORET #2040689

Statistical Summary

	Temp.	Dissolved Oxygen	Conductivity	Flow measured	pH	Nitrates/ Nitrites	TKN	Ammonia	Total Phos.	ortho-Phos.	Hg	Ar	Fe	Susp. Solids	Turbidity	Fecal Coliform	Fecal Strep.	E. coli
	C	mg/l	umhos	CFS	su	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	mg/l	FTU	CFU/100 ml	CFU/100 ml	CFU/100 ml
Overall																		
Average	11.5	12.4	53.1	4979.3	7.6	0.06	0.23	0.02	0.050	0.013	0.2	1.2	771	15	9	81	89	7
Stand. Dev.	6.7	2.4	14.2	4210.6	0.4	0.05	0.06	0.03	0.026	0.008	0.0	0.5	813	15	10	242	285	8
Count	35	29	34	37	33	36	36	36	36	36	10	25	36	36	36	36	36	12
Max.	22.3	16.1	86.0	16900.0	8.7	0.24	0.42	0.16	0.140	0.043	0.2	2.0	4490	73	48	1440	1660	30
Min.	1.4	8.6	34.2	483.0	6.8	0.01	0.12	0.01	0.024	0.003	0.2	0.0	190	3	2	2	2	2
Water year 1997																		
Average	11.1	12.1	49.1	5944	7.6	0.1	0.2	0.01	0.050	0.014	0.20	2	762	19	10	49	32	ERR
Stand. Dev.	6.3	2.3	9.4	4136	0.4	0.0	0.1	0.01	0.024	0.006	0.00	1	610	18	10	96	63	ERR
Count	18	16	17	18	18	18	18	18.00	18	18	10	7	18	18	18	18	18	0
Max.	20.2	16.1	69.3	12100	8.4	0.2	0.4	0.04	0.120	0.028	0.20	2	2720	73	42	400	280	ERR
Min.	1.4	8.6	34.2	483	6.8	0.0	0.1	0.01	0.024	0.006	0.20	0	230	5	2	2	2	ERR
Irrigation Season 1997																		
Average	14.5	11.4	46.5	6012	7.7	0.05	0.20	0.01	0.048	0.013	0.2	1.7	702	19	9	51	19	ERR
Stand. Dev.	4.9	2.1	9.0	4684	0.3	0.05	0.05	0.01	0.025	0.006	0.0	0.7	665	19	11	108	18	ERR
Count	12	11	12	12	12	12	12	12	12	12	4	7	12	12	12	12	12	0
Max.	20.2	13.7	66.0	12100	8.4	0.20	0.28	0.04	0.120	0.028	0.2	2.0	2720	73	42	400	60	ERR
Min.	6.7	8.6	34.2	483	7.2	0.02	0.12	0.01	0.024	0.006	0.2	0.0	230	5	2	2	2	ERR
Non-Irrigation 1997																		
Average	4.5	13.9	55.3	5810	7.3	0.09	0.27	0.02	0.055	0.016	0.2	ERR	883	19	10	46	57	ERR
Stand. Dev.	1.8	1.6	7.3	2724	0.4	0.04	0.05	0.01	0.020	0.005	0.0	ERR	457	15	7	68	100	ERR
Count	6	5	5	6	6	6	6	6	6	6	6	0	6	6	6	6	6	0
Max.	6.9	16.1	69.3	9480	7.9	0.12	0.36	0.03	0.081	0.023	0.2	ERR	1650	44	21	196	280	ERR
Min.	1.4	11.5	49.3	1130	6.8	0.01	0.19	0.01	0.024	0.007	0.2	ERR	250	6	2	8	4	ERR
Water year 1998																		
Average	11.8	12.6	57.1	4065	7.8	0.06	0.24	0.03	0.050	0.013	ERR	1.0	780	11	7	113	146	7
Stand. Dev.	7.1	2.6	16.8	4074	0.3	0.06	0.06	0.03	0.028	0.009	ERR	0.0	975	11	11	326	389	8
Count	17	13	17	19	15	18	18	18	18	18	0	18	18	18	18	18	18	12
Max.	22.3	15.6	86.0	16900	8.7	0.24	0.42	0.16	0.140	0.043	ERR	1.0	4490	43	48	1440	1660	30
Min.	1.5	8.7	34.4	633	7.4	0.01	0.16	0.01	0.028	0.003	ERR	1.0	190	3	2	2	2	2
Irrigation Season 1998																		
Average	16.0	11.7	47.9	5311	7.6	0.05	0.23	0.02	0.045	0.011	ERR	1.0	594	11	5	144	163	7
Stand. Dev.	5.1	2.7	11.8	4668	0.2	0.04	0.04	0.01	0.020	0.006	ERR	0.0	438	8	5	392	452	8
Count	11	8	11	12	9	12	12	12	12	12	0	12	12	12	12	12	12	12
Max.	22.3	14.6	66.2	16900	7.9	0.16	0.29	0.04	0.096	0.028	ERR	1.0	1770	30	19	1440	1660	30
Min.	10.3	8.7	34.4	633	7.4	0.01	0.16	0.02	0.028	0.003	ERR	1.0	220	4	2	2	4	2
Non-Irrigation 1998																		
Average	4.2	14.1	73.8	1929	8.0	0.08	0.26	0.05	0.060	0.015	ERR	1.0	1152	11	11	52	113	ERR
Stand. Dev.	2.4	1.5	10.4	689	0.4	0.07	0.09	0.05	0.036	0.013	ERR	0.0	1504	14	16	72	211	ERR
Count	6	5	6	7	6	6	6	6	6	6	0	6	6	6	6	6	6	0
Max.	7.8	15.6	86.0	2930	8.7	0.24	0.42	0.16	0.140	0.043	ERR	1.0	4490	43	48	190	580	ERR
Min.	1.5	12.2	57.0	1160	7.7	0.04	0.18	0.02	0.035	0.004	ERR	1.0	190	3	3	2	2	ERR

Blank Spaces=Data Not Available, Underlined Values=Less Than, Irrigation Season Defined as April 1 through Sept. 30

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Lower Payette River Monitoring
September 1996 through October 1998

Provisional Data, Do Not Cite

Station LPR-002, Lower Payette River below Emmett WWTP STORET #2040631

	Temp.	Dissolved Oxygen	Conductivity	Flow estimated	pH	Nitrates/ Nitrites	TKN	Ammonia	Total Phos.	ortho-Phos.	Hg	Ar	Fe	Susp. Solids	Turbidity	Fecal Coliform	Fecal Strep.	E. coli
	C	mg/l	umhos	CFS	su	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	mg/l	FTU	CFU/100 ml	CFU/100 ml	CFU/100 ml
29-Oct-96	7.23	12	78.56	756	7.8	0.03	0.16	0.01	0.024	0.011	0.2		180	2	2	16	16	
20-Nov-96	5.11	12.58	59.28	6226	7.3	0.1	0.44	0.01	0.091	0.013	0.2		1340	35	17	100	272	
16-Dec-96	2.03	16.23	55.7	3146	7.51	0.12	0.24	0.02	0.047	0.018	0.2		460	3	5	15	20	
21-Jan-97	2.77	15.64	48.3	6436	7.25	0.12	0.26	0.04	0.055	0.019	0.2		770	14	8	8	6	
18-Feb-97	5.04		51.4	6946	6.83	0.13	0.24	0.02	0.055	0.021	0.2		750	9	6	8	2	
25-Mar-97	7.62	12.71	51.77	9106	7.05	0.11	0.26	0.01	0.078	0.025	0.2		1300	27	15	12	10	
08-Apr-97	7.32	12.24	51.8	5076	7.62	0.05	0.21	0.01	0.052	0.018	0.2		640	9	8	4	4	
22-Apr-97	8.51	13.13	42.3	11126	7.88	0.09	0.31	0.01	0.147	0.028	0.2		2600	79	44	48	100	
07-May-97	11.24	12.46	46.5	8856	7.24	0.04	0.23	0.01	0.059	0.019	0.2		880	20	10	36	24	
21-May-97	11.36	12.61	37.4	11326	7.28	0.06	0.16	0.01	0.073	0.02	0.2		1240	41	16	24	60	
03-Jun-97	12.52	12.46	36.6	11626	7.45	0.05	0.14	0.01	0.043	0.011		2.0	810	28	13	54	52	
17-Jun-97	15.67	11.77	36	11726	7.7	0.03	0.18	0.01	0.053	0.012		2.0	750	21	7	24	320	
14-Jul-97	19.8		50	2686	7.97	0.02	0.17	0.01	0.039	0.012		2.0	350	21	3	8	4	
29-Jul-97	22.47	9.6	55.1	1926	8.41	0.02	0.24	0.01	0.016	0.007		2.0	240	6	2	2	4	
13-Aug-97	21.4	10.43	52.7	1806	7.96	0.02	0.25	0.01	0.035	0.01		2.0	200	4	2	22	28	
26-Aug-97	19.16	9.63	61	1226	7.81	0.03	0.24	0.01	0.033	0.03		2.0	230	5	2	4	4	
09-Sep-97	22.76	13.7	153	162	8.45	0.05	0.26	0.01	0.047	0.018		2.0	310	5	2	60	4	
23-Sep-97	17.76	13.42	119	109	8.44	0.06	0.3	0.05	0.082	0.021		2.0	520	10	2	8	16	
27-Oct-97	7.75	13.86	94	796	8.32	0.04	0.18	0.01	0.04	0.007		1.0	280	4	2	2	4	
18-Nov-97	3.71	12.78	88	786	7.72	0.08	0.28	0.12	0.055	0.013		1.0	610	6	4	2	2	
09-Dec-97	1.86	16.48	61	1396	8.14	0.06	0.2	0.02	0.046	0.012		1.0	250	3	3	2	16	
21-Jan-98	2.56		83	1196	7.6		0.46	0.09	0.17			1.0	4560	54	44			
23-Jan-98	4.81	15.25	90	1596	8.13	0.08	0.24	0.02	0.058	0.018		1.0	630	6	5	4	4	
19-Mar-98	8.28	15.23	65	2556	8.08	0.05	0.2	0.02	0.048	0.012		1.0	680	6	5			
24-Mar-98				2556												132	76	
06-Apr-98	8.21	14.35	56	3836	7.63	0.07	0.28	0.01	0.043	0.016		1.0	660	10	6	4	10	2
26-Apr-98	11.99	13.37	48	5996	8.03	0.07	0.28	0.03	0.033	0.019		1.0	630	9	6	40	34	2
12-May-98	11.4	14.1	40	9176		0.06	0.26	0.02	0.068	0.017		1.0	980	17	9	220	200	38
28-May-98				16526		0.05	0.31	0.02	0.102	0.031		1.0	2010	32	20	1460	1820	24
08-Jun-98	14.35	13.19	40	9926	7.43	0.02	0.24	0.02	0.064	0.013		1.0	590	15	6	20	20	2
22-Jun-98	16.78		38	5216	8.05	0.88	0.14	0.02	0.038	0.01		1.0	220	6	3	16	130	2
06-Jul-98	19.63	11.67	43	3836	8.01	0.01	0.21	0.02	0.036	0.013		1.0	360	7	3	50	40	12
20-Jul-98	24.75	9.76	52.4	1576	8.43	0.02	0.15	0.02	0.034	0.012		1.0	280	5	2		10	
05-Aug-98	23.74	9.89	75.6	1226	8.34	0.01	0.23	0.01	0.034	0.012		1.0	250	5	2	14	24	2
17-Aug-98	22.7	12.6	76.2	1056	8.47	0.01	0.24	0.02	0.03	0.014		1.0	240	5	2	4	16	2
01-Sep-98	24.1		63.4	617	8.53	0.01	0.26	0.01	0.033	0.003		1.0	260	6	2	20	20	20
28-Sep-98	15.5		90.8	259		0.02	0.28	0.02	0.077	0.009		1.0	230	3	2	10	16	4

Blank Spaces=Data Not Available, Underlined Values=Less Than, Irrigation Season Defined as April 1 through Sept. 30

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Lower Payette River Monitoring
September 1996 through October 1998
Station LPR-002, Lower Payette River below Emmett WWTP, STORET #2040631
Statistical Summary

Provisional Data, Do Not Cite

Date Sample Taken	Temp. C	Dissolved Oxygen mg/l	Conductivity umhos	Flow estimated CFS	pH su	Nitrates/ Nitrites mg/l	TKN mg/l	Ammonia mg/l	Total Phos. mg/l	ortho-Phos. mg/l	Hg ug/l	Ar ug/l	Fe ug/l	Susp. Solids mg/l	Turbidity FTU	Fecal Coliform CFU/100 ml	Fecal Strep. CFU/100 ml	E. coli CFU/100 ml
Overall																		
Average	12.6	12.4	62.6	4605	7.8	0.08	0.24	0.02	0.057	0.016	0.2	1.3	758	15	8	72	97	10
Stand. Dev.	7.2	2.9	24.8	4211	0.5	0.14	0.07	0.02	0.031	0.006	0.0	0.5	823	16	10	245	305	12
Count	35	30	35	37	33	35	36	36	36	35	10	26	36	36	36	34	35	11
Max.	24.8	16.5	153.0	16526	8.5	0.88	0.46	0.12	0.170	0.031	0.2	2.0	4560	79	44	1460	1820	38
Min.	1.9	0.0	36.0	109	6.8	0.01	0.14	0.01	0.016	0.003	0.2	1.0	180	2	2	2	2	2
Water year 1997																		
Average	12.2	11.8	60.4	5944	7.7	0.1	0.2	0.01	0.057	0.017	0.20	2	754	19	9	25	53	ERR
Stand. Dev.	6.8	3.4	29.0	4136	0.5	0.0	0.1	0.01	0.029	0.006	0.00	0	577	18	10	25	90	ERR
Count	18	17	18	18	18	18	18	18.00	18	18	10	8	18	18	18	18	18	0
Max.	22.8	16.2	153.0	12100	8.5	0.1	0.4	0.05	0.147	0.030	0.20	2	2600	79	44	100	320	ERR
Min.	2.0	0.0	36.0	483	6.8	0.0	0.1	0.01	0.016	0.007	0.20	2	180	2	2	2	2	ERR
Irrigation Season 1997																		
Average	15.8	12.0	61.8	5638	7.9	0.04	0.22	0.01	0.057	0.017	0.2	2.0	731	21	9	25	52	ERR
Stand. Dev.	5.3	1.4	34.7	4684	0.4	0.02	0.05	0.01	0.032	0.007	0.0	0.0	641	21	11	20	86	ERR
Count	12	11	12	12	12	12	12	12	12	12	4	8	12	12	12	12	12	0
Max.	22.8	13.7	153.0	11726	8.5	0.09	0.31	0.05	0.147	0.030	0.2	2.0	2600	79	44	60	320	ERR
Min.	7.3	9.6	36.0	109	7.2	0.02	0.14	0.01	0.016	0.007	0.2	2.0	200	4	2	2	4	ERR
Non-Irrigation 1997																		
Average	5.0	11.5	57.5	5810	7.3	0.10	0.27	0.02	0.058	0.018	0.2	ERR	800	15	9	27	54	ERR
Stand. Dev.	2.1	5.4	10.0	2724	0.3	0.03	0.08	0.01	0.022	0.005	0.0	ERR	417	12	5	33	98	ERR
Count	6	6	6	6	6	6	6	6	6	6	6	0	6	6	6	6	6	0
Max.	7.6	16.2	78.6	9480	7.8	0.13	0.44	0.04	0.091	0.025	0.2	ERR	1340	35	17	100	272	ERR
Min.	2.0	0.0	48.3	1130	6.8	0.03	0.16	0.01	0.024	0.011	0.2	ERR	180	2	2	8	2	ERR
Water year 1998																		
Average	13.1	13.3	65.0	3691	8.1	0.09	0.25	0.03	0.056	0.014	ERR	1.0	762	11	7	125	144	10
Stand. Dev.	7.7	1.9	19.1	4074	0.3	0.20	0.07	0.03	0.033	0.006	ERR	0.0	1011	12	10	349	422	12
Count	17.0	13.0	17.0	19	15	17	18	18	18	17	0.0	18	18	18	18	16	17	11
Max.	24.8	16.5	94.0	16526	8.5	0.88	0.46	0.12	0.170	0.031	ERR	1.0	4560	54	44	1460	1820	38
Min.	1.9	9.8	38.0	259	7.4	0.01	0.14	0.01	0.030	0.003	ERR	1.0	220	3	2	2	2	2
Irrigation Season 1998																		
Average	17.6	12.4	56.7	4937.2	8.1	0.10	0.24	0.02	0.049	0.014	ERR	1.0	559	10	5	169	195	10
Stand. Dev.	5.5	1.7	16.9	4667.8	0.4	0.24	0.05	0.01	0.022	0.006	ERR	0.0	494	8	5	412	493	12
Count	11	8	11	12	9	12	12	12	12	12	0	12	12	12	12	11	12	11
Max.	24.8	14.4	90.8	16526.0	8.5	0.88	0.31	0.03	0.102	0.031	ERR	1.0	2010	32	20	1460	1820	38
Min.	8.2	9.8	38.0	259.0	7.4	0.01	0.14	0.01	0.030	0.003	ERR	1.0	220	3	2	4	10	2
Non-Irrigation 1998																		
Average	4.8	14.7	80.2	1555	8.0	0.06	0.26	0.05	0.070	0.012	ERR	1.0	1168	13	11	28	20	ERR
Stand. Dev.	2.4	1.3	12.6	689	0.3	0.02	0.10	0.04	0.045	0.003	ERR	0.0	1526	18	15	52	28	ERR
Count	6	5	6	7	6	5.00	6.00	6.00	6.000	5.000	0	6	6	6	6	5	5	0
Max.	8.3	16.5	94.0	2556	8.3	0.08	0.46	0.12	0.170	0.018	ERR	1.0	4560	54	44	132	76	ERR
Min.	1.9	12.8	61.0	786	7.6	0.04	0.18	0.01	0.040	0.007	ERR	1.0	250	3	2	2	2	ERR

Blank Spaces=Data Not Available, Underlined Values=Less Than, Irrigation Season Defined as April 1 through Sept. 30

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Lower Payette River Monitoring
September 1996 through October 1998
Station LPR-003, Lower Payette River @ Letha Bridge STORET #2040690

Provisional Data, Do Not Cite

	Temp.	Dissolved Oxygen	Conductivity	Flow measured	pH	Nitrates/ Nitrites	TKN	Ammonia	Total Phos.	ortho-Phos.	Hg	Ar	Fe	Susp. Solids	Turbidity	Fecal Coliform	Fecal Strep.	E. coli
	C	mg/l	umhos	CFS	su	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	mg/l	FTU	CFU/100 ml	CFU/100 ml	CFU/100 ml
29-Oct-96	7.78	11.8	116.28	1100	7.58	0.11	0.18	0.01	0.056	0.016	0.2		440	12	2	28	16	
20-Nov-96	5.65	12.15	80.14	6970	7.38	0.15	0.37	0.02	0.082	0.022	0.2		1240	29	15	72	268	
16-Dec-96	2.78	15.43	83.9	3450	7.4	0.21	0.34	0.03	0.06	0.028	0.2		1520	32	9	5	10	
21-Jan-97	2.77	15.64	48.3	6710	7.25	0.14	0.26	0.03	0.064	0.02	0.2		760	13	9	18	10	
18-Feb-97	5.22	16.73	54.12	7150	6.8	0.14	0.26	0.02	0.055	0.02	0.2		730	9	7	10	10	
25-Mar-97	7.68	12.46	55.14	9090	7.07	0.1	0.24	0.01	0.077	0.025	0.2		1330	22	15	40	16	
08-Apr-97	7.2	11.83	58.1	4640	7.61	0.06	0.21	0.01	0.054	0.02	0.2		630	8	7	80	40	
22-Apr-97	8.93	12.99	47.5	10700	7.68	0.09	0.32	0.01	0.155	0.032	0.2		2700	84	43	96	140	
07-May-97	11.7	12.15	48.9	8190	7.4	0.04	0.22	0.01	0.059	0.02	0.2		800	18	10	28	52	
21-May-97	11.36	12.32	39.3	10300	7.35	0.07	0.23	0.01	0.073	0.02	0.2		1200	35	18	16	68	
03-Jun-97	12.56	12.21	37.2	10500	7.38	0.07	0.14	0.01	0.049	0.012		2.0	860	22	12	40	70	
17-Jun-97	15.97	11.52	26.1	10400	7.71	0.05	0.22	0.01	0.049	0.012		2.0	750	20	7	8	48	
14-Jul-97	19.6		58.3	2320	7.86	0.04	0.2	0.01	0.038	0.014		2.0	310	7	3	56	44	
29-Jul-97	20.21	7.85	70.3	1540	7.85	0.06	0.2	0.01	0.046	0.015		2.0	450	15	3	128	600	
13-Aug-97	20.4	10.29	68.5	1470	7.62	0.05	0.24	0.01	0.033	0.014		2.0	310	10	3	20	100	
26-Aug-97	18.78	9.98	90.7	927	7.71	0.08	0.26	0.01	0.042	0.015		2.0	330	9	2	60	68	
09-Sep-97	20.32	10.08	229	112	7.96	0.28	0.33	0.02	0.092	0.065		2.0	460	8	3	84	150	
26-Sep-97	17.99	10.52	210	98	7.99	0.44	0.52	0.02	0.161	0.056		1.0	1980	77	8	64	64	
27-Oct-97	8.25	14.75	140	895	8.2	0.2	0.18	0.01	0.063	0.031		1.0	340	5	3	20	44	
18-Nov-97	3.75	13.16	104	1330	7.99	0.12	0.22	0.08	0.049	0.012		1.0	550	6	3	2	2	
09-Dec-97	1.76	16.37	72	1790	7.53	0.1	0.16	0.01	0.04	0.011		1.0	260	4	4	4	12	
21-Jan-98	1.41		95	1700	7.87	0.29	0.58	0.08	0.15	0.041		1.0	4060	45	38	70	450	
23-Jan-98	4.29	14.84	89	2050	7.99	0.1	0.23	0.02	0.062	0.019		1.0	790	9	6	32	8	
19-Mar-98	8.36	15.05	70	2850	8	0.05	0.12	0.01	0.045	0.012		1.0	580	6	5			
24-Mar-98				2850								1.0				102	78	
06-Apr-98	8.11	14	61	4130	7.66	0.08	0.3	0.01	0.042	0.016		1.0	660	7	7	26	46	2
26-Apr-98	11.85	13.63	43	5730	8.53	0.13	0.32	0.03	0.046	0.021		1.0	620	10	5	310	64	2
12-May-98	11.4	13	41	9360		0.07	0.26	0.02	0.081	0.017		1.0	1050	18	10	220	380	60
28-May-98				14900		0.06	0.38	0.02	0.11	0.034		1.0	2140	33	22	1580	1740	32
08-Jun-98	14.41	12.96	41	10000	7.29	0.01	0.2	0.01	0.052	0.018			420	9	5	20	20	2
22-Jun-98	16.56		41	4830	8.02	0.02	0.18	0.01	0.031	0.01		1.0	390	7	3	54	68	20
06-Jul-98	22.44	11.74	87.4	3550	7.9	0.38	0.22	0.02	0.057	0.024		1.0	400	6	3	60	40	32
20-Jul-98	24.18	9.86	65.9	1360	8.4	0.15	0.6	0.04	0.044	0.018		1.0	340	9	2		64	
05-Aug-98	22.39	9.74	103.4	905	8.55	0.03	0.027	0.01	0.04	0.018		1.0	330	7	3	60	100	2
17-Aug-98	21.37	11.87	110.6	800	8.17	0.06	0.17	0.01	0.039	0.017		1.0	380	7	2	42	80	2
31-Aug-98	23.6		125	921	8.24	0.05	0.27	0.02	0.042	0.013		1.0	380	10	4	108	520	2
28-Sep-98	15		211.6	272		0.2	0.33	0.03	0.124	0.034		2.0	1940	69	6	160	360	16

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