

Appendix D

**Johnson Creek Streamflow Data from 1990 to 1995,
Provided by Samatosum Mine. Includes:
Johnson Lake, Johnson Creek at the Outlet of Johnson
Lake (Site 1), and Site 7 (Downstream of the Mine).**

MINNOVA INC --- SANATOSUM DIVISION

JOHNSON CREEK FLOWS AND EFFLUENT DILUTIONS

FOR JAN-FEB-MARCH-APRIL 1990

MONTH: JAN-FEB-MARCH-APRIL 1990

DATE	JOHNSON LAKE LEVEL AT DAM	JOHNSON CREEK FLOW D/S OF DAM	S-1, M3/hr	FLOWS AT STAFF GAUGES			CORRELATION, S2/S3	TREATED EFFLUENT DISCHARGED M3/day	N.O.P. DISCHARGE, M3/day	SITE SED MINE WATER POND SED POND		OVERALL D/S AND DILUTION
				S-2 M3/hr	S-3 M3/hr	S-4 M3/hr				DISCHARGE, M3/day	DISCHARGE, M3/day	
JAN	5	73.0	42.0	295	2.89	396	515	828	0	0	0	72.9
	10	74.0	43.0	378	3.71	450	*N/A	634	0	21.6	0	27.9
	19	*N/A	42.0	295	2.89	450	367	583	0	16.8	0	48.1
	25	73.0	42.0	295	2.89	396	428	778	0	16.8	0	64.3
	FEB 2	*N/A	41.5	256	2.51	421	*N/A	*N/A	0	14.0	0	720.7
FEB	9	*N/A	42.0	295	2.89	450	*N/A	638	0	0	0	55.9
	16	74.0	42.0	295	2.89	450	*N/A	*N/A	0	0	0	26.9
	23	75.0	42.0	295	2.89	584	*N/A	508	0	0	0	44.3
	MARCH 6	73.0	42.0	295	2.89	296	*N/A	*N/A	0	0	0	26.9
	16	72.0	42.0	295	2.89	396	*N/A	508	0	0	0	44.9
MARCH	23	*N/A	41.0	223	2.19	584	*N/A	*N/A	0	0	0	758
	28	69.0	41.0	223	2.19	450	432	828	0	72	0	1553
	29	70.0	41.0	223	2.19	450	432	1037	0	72	0	1728
	30	69.0	42.0	295	2.89	558	684	1116	0	240	0	1728
	APRIL 2	69.0	41.0	223	2.19	738	1368	2124	0	240	0	2501
APRIL	3	69.0	42.0	295	2.89	972	1800	2520	0	120	86	2088
	4	69.0	42.0	295	2.89	936	1980	2160	0	96	72	1732
	11	70.0	41.0	223	2.19	720	558	1332	0	62	31	751
	13	72.0	41.0	223	2.19	828	684	1512	0	26	5	731
	17	*N/A	N/A			828	846	1584	0	37	12	798
	21	80.0	43.0	432	4.24	1188	1458	1602	0	36	12	744
	22	81.0	44.0	526	5.16	1188	1746	1836	0	29	12	1031
	23	82.0	45.0	552	5.41	1269	1592	1957	0	36	12	1056
	24	85.0	45.0	626	6.14	1476	2500	2700	0	234	36	936
	25	87.0	47.0	700	6.87	1584	2340	2700	0	62	12	1056
	26	88.0	48.0	850	8.34	1588	2210	2702	0	37	24	1056
	27	89.5	49.5	1080	10.59	1588	2520	2702	0	66.5	24	1056
	28	N/A	49.0	1080	10.59	1458	2250	2574	0	36	24	1056
	29	N/A	50.0	1152	11.30	1548	2250	2574	0	36	24	1056
	30	90.0	50.0	1152	11.30	1545	1998	2214	0	22.6	12	912

* FLOWS NOT AVAILABLE DUE
TO ICE BUILDUP AT STAFF GAUGES.

APRIL 28 & 29, LAKE LEVEL
N/A DUE TO TRY FISHWAY REPAIRS

18572
12/10/90
822-N
47

MINOVA INC --- SAMATOSUM DIVISION

JOHNSON CREEK FLOWS AND EFFLUENT DILUTIONS

FOR MAY 1990

DATE	JOHNSON CREEK LEVEL AT DAM	JOHNSON CREEK FLOW D/S OF DAM, m3/hr	S-1, c.f.s.	SURFACE OF LAKE AT WHARP	WATER TEMPERATURES, DEG C			DATE	FLOWS AT STAFF GAUGES				TREATED EFFLUENT DISCHARGE, m3/day	W.O.P. DISCHARGE, m3/day	SITE SED POND DISCHARGE, m3/day	W.O.P. AND SITE SED POND DILUTION	OVERALL D/S DILUTION
					WHARP	LAKE AT DEPTH AT WHARP	ADULT FISH	BOY FISH	INSIDE FRY	S-2 m3/hr	S-3 m3/hr	S-4 m3/hr					
MAY 1	90.0	50.0	1224	12.01						1609	1998	2124	0	24	12	948	1071.7
2	90.0	50.0	1224	12.01	5	6.5	5	5	5	1548	2016	2196	0	27	12	907	951.7
3	90.0	50.0	1224	12.01	5	6.5	5.5	6	6	1548	2520	2196	0	11	12	907	1539.2
4	90.0	50.0	1224	12.01	6	6	6	6	6	1476	2520	2052	0	21	12	784	1121.8
5	90.0	50.0	1224	12.01						1548	2250	2304	0	12	6	631	2063.3
6	90.0	50.0	1224	12.01						1638	2520	2574	0	12	6	329	2183.0
7	91.0	51.0	1314	12.09	6	7	6	6	6	1674	2520	2600	1710	2213	12	751	171.1
8	89.0	50.0	1086	10.65	6	8	5	5	5	1711	2832	2441	1720	2021	12	389	19.2
9	89.5	50.0	1152	11.30	6	8	6	6	6	1674	2520	2574	2160	2208	12	389	17.1
10	93.0	56.0	2178	21.37	6	8	6	6	6	2880	3600	5112	2136	2978	24	1373	23.5
11	92.5	54.5	1843	18.08	6.5	8	6	6	6	3047	3686	4409	180	439	12	907	161.1
12	93.0	56.0	2178	21.37						2502	3150	3618	0	24	14	269	1579.2
13	93.0	55.0	1958	19.21	8	10	7	7	7	2502	3150	3618	0	18	14	907	2000.6
14	93.0	56.0	2178	21.37	6	8	6	6	6	2502	3150	3500	0	24	12	1373	1667.0
15	92.0	55.0	1958	19.21	6	8	6	6	6	2192	2880	2970	0	19	27	1863	63.3
16	92.0	54.0	1757	17.24	8	10	8	8	8	2192	2628	2970	0	17	14	907	1656.0
17	92.0	54.0	1757	17.24	8	10.5	8	8	8	2192	2880	2970	0	35	17	1863	1010.7
18	93.0	54.0	1757	17.24	7	10	7	7	7	2340	3150	3176	1134	1177	19	1373	46.0
19	93.0	56.0	2178	21.37						2192	2628	2970	2217	3012	17	1063	17.5
20	92.0	55.0	1958	19.21						2192	2628	2970	0	821	24	1063	61.3
21	91.0	54.0	1757	17.24	7.5	8	7.5	7.5	7.5	2052	2628	2826	1717	1753	24	1063	16.7
22	91.5	54.0	1757	17.24	9	7	9	9	9	2592	3420	3996	2471	3216	24	1373	18.2
23	92.0	55.0	1958	19.21	6	8	6	6	6	2423	3276	3618	1914	1920	22	1219	19.8
24	93.0	56.0	2178	21.37	6	8	6	6	6	2502	3600	3798	1805	3432	77	1754	16.3
25	94.0	58.0	2628	25.78	8	8	8	8	8	3456	4400	5500	759	1676	72	2539	46.5
26	94.0	58.0	2628	25.78						3550	4400	5300	1918	2602	72	2311	30.9
27	93.0	58.0	2628	25.78						3456	4400	5800	1632	2602	48	1754	30.3
28	93.0	57.0	2412	23.66	9	11	9	9	9	2880	3780	5200	532	620	24	1754	106.3
29	94.0	59.0	2750	26.98	8.5	8	8	8	8	3700	4212	5800	0	257	36	1754	302.1
30	94.5	60.0	2900	28.45	9.5	11	9	9	9	3456	4500	6000	0	44	26	2311	909.9
31	94.0	60.0	2900	28.45	10	13	10	10	10	4021	4797	5400	0	56	35	1754	1377.6

TOTALS, m3 : 24005 33291 750 33382

* MAY 16 -- FISH VISIBLE OFF END OF WHARP.
ESTIMATE 2-3 LBS. EACH
MAY 23, 24 AND 25 -- FISH GOING OVER SPILLWAY.

MAY 28 TO 31 - FISH SPANNING IN CREEK

MINNOVA INC --- SAMAYCUM DIVISION

JOHNSON CREEK FLOWS AND EFFLUENT DILUTIONS

FOR JUNE 1990

DATE	JOHNSON LAKE LEVEL	JOHNSON CREEK LEVEL AT DAM	S-1, FLOW D/S OF DAM, m3/hr	SURFACE OF LAKE AT WHARP	WATER TEMPERATURES, DEG C			DATE	FLOWS AT STAFF GAUGES			CORRELATION, S2/S3	TREATED EFFLUENT DISCHARGE, m3/day	W.O.P., DISCHARGE, m3/day	SITE SED POND DISCHARGE, m3/day	SED POND m3/day	EFFLUENT DILUTIONS	OVERALL D/S DILUTION
					WHARP	WHARP	WHARP		S-2 m3/hr	S-3 m3/hr	S-4 m3/hr							
JUNE								JUNE										
1	93.5	58.5	2304	22.60	7.0	10.0	8.0	1	2340	3996	5040	0.5856	0	53	39	1754	609.4	64.1
2	93.5	58.5	2214	21.72				2	2340	3996	4860	0.5856	0	53	48	1754	555.0	61.1
3	95.5	58.5	2214	21.72				3	2088	4212	4860	0.4957	0	53	48	1754	495.2	61.1
4	96.0	61.0	2808	27.55	7.0	8.0	7.0	4	2592	4104	4860	0.6316	0	341	60	1920	134.1	49.1
5	96.0	63.0	3204	31.43	9.5	9.0	9.0	5	3168	4644	6800	0.6822	0	93	43	2088	558.1	68.1
6	96.0	63.0	3204	31.43	10.0	11.0	10.5	6	3168	4644	5220	0.6822	0	41	27	2088	1117.1	57.1
7	96.0	64.0	3168	31.08	8.0	10.0	9.0	7	3168	4446	5220	0.7126	0	76	35	2088	684.0	56.1
8	96.0	63.5	3420	33.55	10.0	12.0	10.0	8	3168	4194	5148	0.7554	0	46	26	1368	1055.0	84.1
9	98.0	62.0	2988	29.31				9	3456	4194	4932	0.8240	0	36	31	1368	1237.0	81.1
10	98.0	62.0	2988	29.31				10	3456	5040	5364	0.6857	0	36	144	1368	459.8	82.1
11	98.0	68.0	4392	43.08	8.0	10.0	9.0	11	6048	7056	8604	0.8571	0	1080	258	3408	107.5	42.1
12	100.0	72.0	4900	48.07	5.5	5.5	5.5	12	6408	8732	10260	0.7339	0	353	156	4346	301.1	49.1
13	103.0	73.0	5000	49.05	8.5	10.0	8.5	13	6408	9000	8964	0.7120	1960	3158	108	2016	46.1	39.1
14	100.0	71.0	4800	47.09	10.0	13.0	10.0	14	5868	6012	7920	0.9760	2328	3223	50	2904	42.0	29.1
15	99.0	69.0	4644	45.56	12.0	13.0	13.0	15	6048	5508	7272	1.0980	2304	4130	0	2090	34.1	27.1
16	100.0	66.0	3986	38.32				16	6048	4194	7272	1.4421	2304	3672	0	2090	38.5	29.1
17	100.0	65.0	3634	35.84				17	5364	4194	5796	1.2790	2304	3223	0	1373	38.9	29.1
18	96.0	64.0	3420	33.55	11.5	13.0	12.0	18	4068	3528	4716	1.1531	2239	3223	0	1224	29.3	24.1
19	96.0	63.0	3204	31.43	12.0	13.5	12.5	19	3744	3528	4356	1.0612	1986	3432	0	1560	25.2	19.1
20	96.0	63.0	3204	31.43	9.5	11.0	10.0	20	4068	3528	3870	1.1531	2670	3012	0	1754	31.4	18.1
21	96.0	62.0	2988	29.31	15.0	15.0	14.0	21	3456	3294	4194	1.0492	2319	3672	0	1224	21.6	19.1
22	95.5	60.5	2700	26.49	14.0	14.5	14.0	22	3456	3294	4716	1.0492	2730	3672	0	1224	21.6	22.1
23	95.0	59.0	2430	23.84				23	3456	3060	4356	1.1294	2439	3672	0	1224	21.6	20.1
24	96.0	60.0	2628	25.78				24	3456	3060	4536	1.1294	2841	3672	0	1368	21.6	20.1
25	93.0	56.0	1836	18.01	13.5	15.0	13.5	25	2592	3231	3773	0.7973	764	918	0	744	66.8	53.1
26	92.0	56.0	1836	18.01				26	2232	2448	3312	0.9118	0	24	0	751	7231.0	101.1
27	91.0	59.5	2484	24.37	14.0	15.0	14.0	27	2340	2448	3168	0.9559	0	20	0	751	1807.0	97.1
28	90.0	60.0	2628	25.78	15.0	16.0	15.0	28	2232	2664	3168	0.8378	0	23	0	751	1328.0	97.1
29	85.0	59.0	2412	23.66				29	2196	2664	3060	0.8243	0	20	0	751	1634.2	94.1
30	87.0	58.0	2214	21.72				30	2052	2448	3168	0.8382	0	0	0	751		100.1
31								31										
TOTALS, m3 :													29188	42679	158	20795		

NOTE : JUNE 27th, FLOW INCREASED AT DAM TO MEET D/S REQUIREMENT OF
25 C.F.S. FOR JUNE. ONE STOP LOG REMOVED AT LOWER GATE PARTIALLY OPENED.

MINROVA INC --- SANMAYOSUE DIVISION

JOHNSON CREEK FLOWS AND EFFLUENT DILUTIONS

FOR JULY 1990

DATE	JOHNSON LAKE LEVEL AT DAM	JOHNSON CREEK FLOW D/S OF DAM, M3/hr	S-1, C.F.S.	WATER TEMPERATURES, DEG C				FLOWS AT STAFF GAUGES				TREATED EFFLUENT DISCHARGED, M3/day	SITE SED MINE WATER POND SED POND DISCHARGE, M3/day		OVERALL D/S AND DILUTION	
				SURFACE OF LAKE AT WEARY	1 METER DEPTH AT WEARY	ADULT FISH BOX	INSIDE FISH WAY	S-2 M3/hr	S-3 M3/hr	S-4 M3/hr	CORRELATION, S2/S3		M3/day	M3/day	M3/day	M3/day
JULY																
1	87.0	57.0	2016	19.78				2652	2448	2916	0.8382	0	0	0	751	52.2
2	86.0	57.0	2016	19.78				2196	2664	2916	0.8243	0	0	0	987	76.2
3	88.0	57.0	2016	19.78				1800	2448	2932	0.7353	0	0	0	1653	65.6
4	85.0	51.0	1224	12.01	11.5	11.0	11.0	2652	2376	2448	0.8636	0	0	0	751	77.2
5	85.0	51.0	1224	12.01	15.0	15.0	15.5	4	1368	1404	1.0000	0	0	0	751	43.9
6	86.0	54.5	1764	17.30	15.5	15.5		6	1908	2332	0.8548	1440	0	0	1373	23.0
7	87.0	54.0	1512	14.83				7	2070	2232	0.9274	1440	0	0	1063	22.7
8	85.0	53.0	1368	13.42				8	1944	2232	0.8710	1440	0	0	1063	20.8
9	83.0	52.0	1260	12.36	17.0	18.0	17.0	9	1692	1872	0.9038	1440	0	0	751	21.7
10	84.5	52.0	1260	12.36	20.0	21.0	20.0	10	1584	1872	0.8462	1474	0	0	626	23.2
11	84.0	51.0	1170	11.48	20.0	21.0	20.0	11	1764	1990	0.9333	1447	0	0	751	26.9
12	82.0	51.0	1170	11.48	19.0	19.0	19.0	12	1584	1908	0.8362	1419	0	0	751	24.1
13	82.0	50.0	1008	9.89	19.0	19.0		13	1584	1584	1.0000	1408	0	0	626	17.8
14	82.0	50.0	1008	9.89				14	1584	1584	1.0000	1653	0	0	385	20.1
15	81.0	49.0	900	8.83				15	1368	1404	0.9500	1361	0	0	385	23.2
16	80.0	48.0	810	7.95	16.0	16.0	16.0	16	1260	1332	0.9722	397	0	0	384	59.5
17	79.5	47.5	756	7.42	17.0	17.0	17.0	17	1260	1152	1.0038	0	0	0	385	76.8
18	79.0	50.5	1080	10.59	15.5	15.5	15.5	18	1476	1440	1.0250	0	0	0	385	93.3
19	78.0	50.5	1080	10.59	17.0	17.0	17.0	19	1296	1404	0.9000	0	0	0	269	79.8
20	76.0	50.0	1008	9.89	20.0	20.0	20.0	20	1296	1404	0.8182	0	0	0	269	124.3
21	76.0	50.0	1008	9.89				21	1296	1440	0.9000	0	0	0	269	114.6
22	77.0	50.0	1008	9.89				22	1368	1440	0.9500	0	0	0	269	101.8
23	75.0	49.5	954	9.36	20.0	20.0	20.0	23	1332	1260	1.0571	0	0	0	269	98.8
24	75.0	49.5	954	9.36	19.0	19.0	19.0	24	1368	1440	0.9500	0	0	0	269	117.6
25	74.5	49.0	900	8.83	19.0	19.0	19.0	25	1386	1584	0.8750	0	0	0	386	84.1
26	74.0	48.5	864	8.48	19.0	19.0	20.0	26	1296	1440	0.9000	0	0	0	386	75.1
27	71.0	47.5	792	7.77	18.0	18.0	18.0	27	1296	1224	1.0588	0	0	0	226	125.1
28	71.0	47.5	792	7.77				28	1296	1224	1.0588	0	0	0	226	125.1
29	71.0	46.5	648	6.36	20.0	20.0	20.0	29	1260	1152	1.0938	0	0	0	180	152.1
30	72.0	46.0	630	6.18	20.0	20.0	20.0	30	1080	1088	1.0714	0	0	0	182	112.1
31	42.0	44.5	522	5.12	19.0	19.0	19.0	31	1116	972	1.1481	0	0	0	182	122.1
				0.00												
TOTALS, M3 :													14319	16260	0	16649

NOTES:

JULY 4 --- FLOW REDUCED AT DAM TO MEET JULY REQUIREMENT
OF 16.4 cfs DOWNSTREAM OF DAM.

JULY 5 --- REDUCED FLOW AT DAM NOTICEABLE AT STAFF
GAUGES 2, 3 AND 4

JOHNSON CREEK PLOWS AND EFFLUENT DILUTIONS

FOR AUGUST 1998

[illegible]

NINHOVA INC ---- SAMAYOSUM DIVISION

JOHNSON CREEK FLOWS AND EFFLUENT DILUTIONS

FOR SEPT-OCT-NOV-DEC 1990

MONTH: SEPT-OCT-NOV-DEC 1990

MONTH: SEPT-OCT-NOV-DEC 1990

DATE	JOHNSON CREEK				WATER TEMPERATURES, DEG C				FLOWS AT STAFF GAUGES				TREATED EFFLUENT DISCHARGED m3/day	SITE SED W.O.P. DISCHARGE, DISCHARGE, m3/day m3/day		SITE SED HIRE WATER SED POND DISCHARGE, DISCHARGE, m3/day m3/day		OVERALL D/S AND DILUTION
	LAKE LEVEL AT DAM	LAKE LEVEL OF DAM,	FLOW D/S m3/hr	S-1, c.f.s.	WEARY	LAKE AT DEPTH AT FISH	WEARY	ADULTY FISH	INSIDE FISH-WAY	DATE	S-2 m3/hr	S-3 m3/hr	S-4 m3/hr					
SEPT. 4	65.5	41.7	324	3.18	15.5	16.0	15.5	15.5	15.5	SEPT. 4	360	324	468	0	9.6	0	269	33.3
5	66.0	41.5	306	3.00	15.0	14.5	15.0	14.5	14.5	5	396	324	504	0	0	0	386	36.3
10	64.0	41.5	270	2.65	15.0	15.0	15.0	15.0	15.0	10	360	360	468	0	0	0	139	73.8
11	63.0	42.0	342	3.35						11								
17	61.0	41.0	252	2.47	14.0	14.0	14.0	14.0	14.0	17	360	324	432	0	0	0	96	107.0
24	60.0	41.0	252	2.47	14.0	13.0	14.0	14.0	14.0	24	324	324	396	0	0	0	96	98.0
OCT. 1	55.7	40.3	198	1.94						OCT. 1	324	324	360	0	0	0	96	89.0
2	56.0	40.5	216	2.12	12.0	13.0	12.0	12.0	12.0	2	386	324	360	0	0	0	96	89.0
9	56.0	40.0	180	1.77						9	324	324	396	0	0	0	96	98.0
15	55.0	40.0	180	1.77						15	324	386	360	0	0	0	96	89.0
16	55.0	40.0	180	1.77	7.5	7.0	6.0	5.0	5.0	16	324	386	396	0	0	0	96	98.0
23	55.0	39.5	155	1.52	6.0	6.5	6.0	5.0	5.0	23	324	324	360	0	0	0	96	89.0
29	54.5	39.5	155	1.52						29	324	324	324	0	0	0	48	161.0
NOV. 5	52.5	39.5	162	1.59	4.0	4.5	4.0	4.0	4.0	NOV. 5	324	324	324	0	0	0	96	80.0
13	61.5	39.5	162	1.59	4.0	4.0	4.0	4.0	4.0	13	432	612	828	0	0	0	1754	10.3
14										14				0	0	0	947	
15										15				0	0	0	751	
16										16				0	0	0	751	
19	63.0	39.5	162	1.59						19	324	396	504	0	0	0	386	30.3
26	63.5	39.5	162	1.59						26	252	*N/A	504	0	0	0	502	23.1
DEC. 4	66.0	39.6	144	1.41						DEC. 4	252	288	432	0	0	0	219	37.5
10	63.5	39.0	126	1.24						10	252	288	360	0	0	0	219	38.8
17	62.5	39.5	144	1.41						17	252	*N/A	*N/A	0	0	0	219	
24	* N/A	42.5	342	3.35						24	252	*N/A	*N/A	0	0	0	219	

* NOT AVAILABLE - FROZEN

* NOT AVAILABLE - FROZEN

NOTES, JAN & FEB, 1991

[illegible]

MINOVA SAMAYOSUN EFFLUENT DISCHARGES AND RECEIVING WATER FLOWS

MONTH: MARCH 1991

DATE	JOHNSON LAKE LEVEL AT DAM	JOHNSON CREEK FLOW D/S OF DAM, m3/hr	S-1, c.f.s.	FLOWS AT STAFF GAUGES			TREATED EFFLUENT DISCHARGED m3/day	N.O.P. DISCHARGE, m3/day	SIZE SED NINE WATER POND SED POND		OVERALL D/S AND DILUTION
				S-2 m3/hr	S-3 m3/hr	S-4 m3/hr			DISCHARGE, m3/day	DISCHARGE, m3/day	
MAR 1							0	0	0	0	
MAR 2							0	0	0	0	
MAR 3							0	0	0	0	
MAR 4							0	0	0	0	
MAR 5	N/A (FROZEN)	40.0	180	1.77	252 ** N/A *** I/A		0	0	269	0	N/A
MAR 6							0	0	0	0	
MAR 7							0	0	0	0	
MAR 8							0	0	0	0	
MAR 9							0	0	0	0	
MAR 10							0	0	0	0	
MAR 11							0	0	0	0	
MAR 12	N/A (FROZEN)	41.0	234	2.30	288 ** N/A *** I/A		0	0	386	0	N/A
MAR 13							0	0	0	0	
MAR 14							0	0	0	0	
MAR 15							0	0	0	0	
MAR 16							0	0	0	0	
MAR 17							0	0	0	0	
MAR 18	N/A (FROZEN)	40.0	180	1.77	288 ** N/A *** I/A		0	0	269	0	N/A
MAR 19							0	0	0	0	
MAR 20							0	0	0	0	
MAR 21							0	0	0	0	
MAR 22							0	0	0	0	
MAR 23							0	0	0	0	
MAR 24							0	0	0	0	
MAR 25	74	40	180	1.77	288 ** N/A *** I/A		0	0	386	0	N/A
MAR 26							0	0	0	0	
MAR 27							0	0	0	0	
MAR 28							0	0	0	0	
MAR 29							0	0	0	0	
MAR 30							0	0	0	0	
MAR 31							0	0	0	0	

* ICE ALL CLEAR AT S-2
 ** EST. ICE 1/2 CLEAR
 *** STILL ICE COVERED

NORTH, APRIL 1991

DATE	JOHNSON CREEK		S-1, FLOW D/S OF DAM, c.f.s.	FLOWS AT STAFF GAUGES		TREATED EFFLUENT DISCHARGED, m3/day	E.O.P. DISCHARGE, m3/day		SITE SED POND DISCHARGE, m3/day		SED POND DISCHARGE, m3/day		OVERALL S/S AND DILUTION
	LEVEL AT DAM	LAKE LEVEL		S-2 m3/hr	S-3 m3/hr		S-2 m3/hr	S-3 m3/hr					
1													
2													
3	74.0	40.0	100	432	N/A (ICE)	972					1754		12.3
4													
5													
6													
7													
8													
9	75.5	40.0	100	396	792	936					1063		20.1
10													
11													
12													
13													
14													
15													
16	77.3	40.5	216	408	900	1044					1219		19.5
17													
18													
19													
20													
21													
22													
23	81.5	42.5	400	891	1519	1663					1063		36.5
24													
25													
26													
27													
28													
29													
30													
31													

387
510

COMMENTS.

- 1) STAFF GAUGE CALIBRATIONS CHECKED AT ALL 4 SITES ON APRIL 10/91
APPEARS TO BE A CALIBRATION SHIFT AT STAFF GAUGE #3 (UNDER THE BRIDGE)
CAUSED BY WINTER ICE MOVING BOULDERS AROUND NEXT TO THE GAUGE. CALIBRATION
TO BE ADJUSTED AS MORE SEASONAL DATA IS COLLECTED.
- 2) STAFF GAUGE CALIBRATIONS UPDATED APRIL 23/91

REPLYING BYLIONS

15,620

COMMENTS:

- MAY 22/90, JOHNSON LAKE LEVEL = 91.5 (PEAKED AT 103.0 ON JUNE 13th)

MONTH: AUGUST 1991

MONTH: AUGUST 1991

[illegible]

NORTH, SEPT 1991										NORTH, SEPT 1991										NORTH, SEPT 1991										NORTH, SEPT 1991									
JOHNSON CREEK										JOHNSON CREEK										JOHNSON CREEK										JOHNSON CREEK									
LEVEL AT DAM										LEVEL AT DAM										LEVEL AT DAM										LEVEL AT DAM									
c.f.s.										c.f.s.										c.f.s.										c.f.s.									
252										252										252										252									
42.0										42.0										42.0										42.0									
SEPT 4 - GATE OPENED 1 TURN										SEPT 4 - GATE OPENED 1 TURN										SEPT 4 - GATE OPENED 1 TURN										SEPT 4 - GATE OPENED 1 TURN									
1										1										1										1									
2										2										2										2									
3										3										3										3									
4										4										4										4									
5										5										5										5									
6										6										6										6									
7										7										7										7									
8										8										8										8									
9										9										9										9									
10										10										10										10									
11										11										11										11									
12										12										12										12									
13										13										13										13									
14										14										14										14									
15										15										15										15									
16										16										16										16									
17										17										17										17									
SEPT 17 - GATE OPENED 1 TURN										SEPT 17 - GATE OPENED 1 TURN										SEPT 17 - GATE OPENED 1 TURN										SEPT 17 - GATE OPENED 1 TURN									
58.5										58.5										58.5										58.5									
41.0										41.0										41.0										41.0									
270										270										270										270									
18										18										18										18									
19										19										19										19									
20										20										20										20									
21										21										21										21									
22										22										22										22									
23										23										23										23									
24										24										24										24									
SEPT 24 - GATE OPENED 1 TURN										SEPT 24 - GATE OPENED 1 TURN										SEPT 24 - GATE OPENED 1 TURN										SEPT 24 - GATE OPENED 1 TURN									
55.5										55.5										55.5										55.5									
41.5										41.5										41.5										41.5									
306										306										306										306									
1										1										1										1									
2										2										2										2									
3										3										3										3									
4										4										4										4									
5										5										5										5									
6										6										6										6									
7										7										7										7									
8										8										8										8									
9										9										9										9									
10										10										10										10									
11										11										11										11									
12										12										12										12									
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16										16										16										16									
17										17										17										17									
18										18										18										18									
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27										27										27										27									
28										28										28										28									
29										29										29										29									
30										30										30										30									
31										31										31										31									

NOVY: NOVEMBER 1991

DATE	JOHNSON CREEK LAKE		S-1, FLOW D/S OF DAM, C.F.S.	WATER TEMPERATURES, DEG C		
	LEVEL AT DAM	LEVEL		SURFACE OF LAKE AT WEIR	1 METER DEPTH AT WEIR	INSIDE FISH BOX
1						
2						
3						
4						
5	45.5	39.5	190	6.0	6.0	6.0
6						
7						
8						
9						
10						
11						
12						
13	47.0	40.0	216	2.12		
14						
15						
16						
17						
18						
19	47.5	39.5	190	1.94		
20						
21						
22						
23						
24						
25						
26	47.5	40.0	216	2.12	4.0	4.0
27						
28						
29						
30						
31						

COPIES NOT AVAILABLE -- SHOW AND ICE BUILD UP

.. PLANTING SUSPECT ONE TO ICE BUILD UP AT BACK OF CREEK

DILUTION ESTIMATED FROM PL
JOHNSON LAKE DAM AND HISPO
INCREASES MY STAFF GANGE 0

MINNOVA INCORPORATED - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF JANUARY 1992

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C				FLOWS AT STAFF GAUGES			TREAT EFF DISC m3/day	W.Q.P. DISC m3/day	SITE SED POND DISC m3/day	MWSP DISC m3/day	DILUTION RATIO	
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	STAFF GAUGES							WQP & SSP @S-2	OVER ALL D/S @S-4
									S-2 m3/hr	S-3 m3/hr	S-4 m3/hr						
1									200		250	0.0	0.0	0.0	142.0	N/A	41.3
2									200		250	0.0	0.0	0.0	146.8	N/A	39.9
3									200		250	0.0	0.0	0.0	151.6	N/A	38.6
4									200		250	0.0	0.0	0.0	156.4	N/A	37.4
5									200		250	0.0	0.0	0.0	161.2	N/A	36.2
6	45.0	39.0	162	1.59					200		250	0.0	0.0	0.0	166.0	N/A	35.1
7									200		250	0.0	0.0	0.0	171.7	N/A	34.0
8									200		250	0.0	0.0	0.0	176.4	N/A	33.0
9									200		250	0.0	0.0	0.0	181.1	N/A	32.1
10									200		250	0.0	0.0	0.0	185.8	N/A	31.3
11									200		250	0.0	0.0	0.0	190.6	N/A	30.5
12									200		250	0.0	0.0	0.0	195.3	N/A	29.7
13	45.5	39.5	198	1.94					200		250	0.0	34.0	0.0	200.0	140.2	24.6
14									200		250	0.0	72.0	0.0	198.3	65.7	21.2
15									200		250	0.0	72.0	0.0	196.7	65.7	21.3
16									200		250	0.0	89.0	0.0	195.0	52.9	20.1
17									200		250	0.0	89.0	0.0	193.3	52.9	20.3
18									200		250	0.0	0.0	0.0	191.7	N/A	30.3
19									200		250	0.0	0.0	0.0	190.0	N/A	30.6
20	45.0	39.5	198	1.94					200		250	0.0	0.0	0.0	195.0	N/A	29.8
21									200		250	0.0	0.0	0.0	199.2	N/A	29.1
22									200		250	0.0	0.0	0.0	202.6	N/A	28.6
23									200		250	0.0	0.0	0.0	206.1	N/A	28.1
24									200		250	0.0	0.0	0.0	209.6	N/A	27.6
25									200		250	0.0	0.0	0.0	213.1	N/A	27.2
26									200		250	0.0	0.0	0.0	216.5	N/A	26.7
27	48.0	40.0	216	2.12					200		250	0.0	0.0	0.0	220.0	N/A	26.3
28									200		250	0.0	0.0	0.0	220.0	N/A	26.3
29									200		250	0.0	0.0	0.0	220.0	N/A	26.3
30									200		250	0.0	0.0	0.0	220.0	N/A	26.3
31									200		250	0.0	0.0	0.0	220.0	N/A	26.3
FOR THE MONTH										0.0	356.0	0.0	5931.9	417.0	28.6		

NOTE : FLOWS AT STAFF GAUGES # 2 & 3 ESTIMATED.

MINNOVA INCORPORATED - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF FEBRUARY 1992

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C			FLOWS AT STAFF GAUGES			TREAT EFF DISC m3/day	W.Q.P. DISC m3/day	SITE SED POND DISC m3/day	MWSP DISC m3/day	DILUTION RATIO WQP & SSP @S-2	OVER ALL D/S @S-4
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	S-2 m3/hr	S-3 m3/hr	S-4 m3/hr					
1									324		632	0.0	0.0	688.0	N/A	21.0
2									324		637	0.0	0.0	676.9	N/A	21.6
3									324		643	0.0	0.0	664.9	N/A	22.2
4	49.5	40.5	225	2.21					324	324	648	0.0	0.0	652.8	N/A	22.8
5									324		653	0.0	0.0	602.5	N/A	25.0
6									324		659	0.0	0.0	552.2	60.1	22.3
7									324		664	0.0	0.0	501.9	55.1	23.9
8									324		669	0.0	0.0	451.6	55.1	26.2
9									324		675	0.0	0.0	401.3	55.1	29.0
10	49.0	40.0	216	2.12					324	350	680	0.0	0.0	351.0	N/A	45.5
11									324		686	0.0	0.0	340.1	60.1	34.2
12									324		691	0.0	0.0	329.3	55.1	34.5
13									340		697	0.0	0.0	318.4	57.8	35.6
14									340		703	0.0	0.0	307.6	57.8	36.8
15									350		709	0.0	0.0	296.7	59.6	38.1
16									350		714	0.0	0.0	285.9	59.6	39.4
17	48.5	40.0	216	2.12					360		720	0.0	0.0	275.0	N/A	61.8
18									360		684	0.0	0.0	275.0	N/A	58.7
19									360		648	0.0	0.0	275.0	N/A	55.5
20									360		612	0.0	0.0	275.0	N/A	52.4
21									360		576	0.0	0.0	275.0	10.8	12.7
22									360		540	0.0	0.0	275.0	10.8	11.9
23									360		504	0.0	0.0	275.0	N/A	43.0
24	49.0	40.0	216	2.12					360		468	0.0	0.0	275.0	N/A	39.8
25									360		463	0.0	0.0	275.0	N/A	39.4
26									360		458	0.0	0.0	275.0	N/A	39.0
27									360		454	0.0	0.0	275.0	N/A	38.6
28									360		449	0.0	0.0	275.0	12.0	10.5
29									360		444	0.0	0.0	275.0	10.8	9.6
FOR THE MONTH											0.0	2860.0	1364.0	*****	55.5	27.0

NOTE : FLOWS AT STAFF GAUGES # 2 & 3 ESTIMATED.

MINNOVA INCORPORATED - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF MARCH 1992

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C			FLOWS AT STAFF GAUGES			TREAT EFF DISC m3/day	W.Q.P. DISC m3/day	SITE SED POND DISC m3/day	MWSP DISC m3/day	DILUTION RATIO	
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	S-2 m3/hr	S-3 m3/hr	S-4 m3/hr				WQP & SSP @S-2	OVER ALL D/S @S-4
1									468	972	936	0.0	0.0	0.0	N/A	20.2
2	50.0	40.0	216	2.12	2.0	2.0	2.0	2.0	468	972	936	0.0	0.0	0.0	N/A	20.3
3									463	972	936	0.0	0.0	0.0	N/A	20.3
4									458	972	936	0.0	0.0	0.0	N/A	20.4
5									453	972	936	0.0	0.0	0.0	N/A	20.4
6									447	972	936	0.0	0.0	0.0	N/A	20.4
7									442	972	936	0.0	0.0	0.0	N/A	20.5
8									437	972	936	0.0	0.0	0.0	N/A	20.5
9	49.0	40.0	216	2.12	2.0	2.0	2.0	2.0	432	972	936	0.0	0.0	0.0	N/A	20.6
10									432	972	936	0.0	0.0	0.0	N/A	20.6
11									432	982	1080	0.0	0.0	0.0	N/A	19.3
12									432	987	1152	0.0	0.0	0.0	N/A	18.4
13									432	983	1224	0.0	0.0	0.0	N/A	17.6
14									432	988	1296	0.0	0.0	0.0	N/A	16.9
15									432	1003	1368	0.0	0.0	0.0	N/A	16.4
16	49.5	40.0	216	2.12					432	1008	1440	0.0	0.0	0.0	N/A	15.9
17									437	1017	1409	0.0	0.0	0.0	N/A	15.5
18									441	1026	1377	0.0	0.0	0.0	N/A	16.2
19									446	1035	1346	0.0	0.0	0.0	N/A	17.0
20									450	1044	1314	0.0	0.0	0.0	N/A	17.9
21									455	1053	1283	0.0	0.0	0.0	N/A	19.0
22									459	1062	1251	0.0	0.0	0.0	N/A	20.3
23									464	1071	1220	0.0	0.0	0.0	N/A	21.7
24	50.5	40.5	234	2.30					468	1080	1188	0.0	0.0	0.0	N/A	23.6
25									467	1077	1178	0.0	0.0	0.0	N/A	25.8
26									467	1075	1167	0.0	0.0	0.0	N/A	26.2
27									466	1072	1157	0.0	0.0	0.0	N/A	26.5
28									466	1070	1147	0.0	0.0	0.0	N/A	26.9
29									465	1067	1137	0.0	0.0	0.0	N/A	27.3
30									465	1065	1126	0.0	0.0	0.0	N/A	27.7
31									464	1062	1116	0.0	0.0	0.0	N/A	28.1
												0.0	0.0	0.0	*****	28.5
									FOR THE MONTH			0.0	0.0	0.0	N/A	20.3

NOTE : FLOWS AT STAFF GAUGES # 2 & 3 ESTIMATED.

MINNOVA INCORPORATED - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF APRIL 1992

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW OF DAM D/S m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C			FLOWS AT STAFF GAUGES			TREAT EFF DISC m3/day	W.Q.P. DISC m3/day	SITE SED POND DISC m3/day	MWSP DISC m3/day	DILUTION RATIO		
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	STAFF GAUGES						WQP & SSP @S-2	OVER ALL D/S @S-4	
									S-2 m3/hr	S-3 m3/hr							S-4 m3/hr
1								468	900	1044	0.0	0.0	0.0	416.0	N/A	59.2	
2	54.0	41.0	270	2.65				468	900	1044	0.0	0.0	0.0	0.0	N/A	N/A	
3								475	900	1051	0.0	0.0	0.0	0.0	N/A	N/A	
4								482	900	1058	0.0	0.0	0.0	0.0	N/A	N/A	
5								489	900	1065	0.0	0.0	0.0	0.0	N/A	N/A	
6								496	900	1072	0.0	0.0	0.0	0.0	N/A	N/A	
7	57.0	41.0	306	3.00				504	900	1080	0.0	0.0	0.0	16.5	N/A	1569.9	
8								486	900	1080	0.0	0.0	0.0	936.0	N/A	26.7	
9	56.5	41.5	306	3.00				468	900	1116	0.0	0.0	0.0	770.0	N/A	33.8	
10								468	882	1116	0.0	0.0	0.0	684.0	N/A	38.2	
11								468	864	1080	0.0	0.0	0.0	636.0	N/A	39.8	
12								468	846	1080	0.0	0.0	0.0	619.0	N/A	40.9	
13	56.5	41.5	306	3.00				468	828	972	0.0	0.0	0.0	804.0	N/A	28.0	
14								468	864	972	0.0	0.0	0.0	593.0	N/A	38.3	
15	57.5	41.5	306	3.00				504	900	1044	0.0	0.0	0.0	684.0	N/A	35.6	
16								540	936	1080	0.0	0.0	0.0	758.0	N/A	33.2	
17								576	972	1116	0.0	0.0	0.0	832.0	N/A	31.2	
18								612	1008	1152	0.0	0.0	0.0	906.0	N/A	29.5	
19								648	1044	1188	0.0	0.0	0.0	980.0	N/A	28.1	
20	62.5	42.0	324	3.18				684	1080	1224	0.0	0.0	0.0	1056.0	N/A	26.8	
21	64.0	42.0	324	3.18				684	1080	1332	0.0	0.0	0.0	1056.0	N/A	29.3	
22								684	1080	1332	0.0	0.0	0.0	948.0	N/A	32.7	
23	64.5	42.5	387	3.71				684	1080	1332	0.0	0.0	0.0	972.0	N/A	31.9	
24								684	1050	1332	0.0	0.0	0.0	926.0	N/A	33.5	
25								684	1026	1332	502.4	502.4	0.0	880.0	31.7	22.1	
26	66.5	41.5	306	3.00				684	999	1332	474.2	474.2	0.0	880.0	33.6	22.6	
27								612	927	1260	456.5	456.3	0.0	804.0	31.2	23.0	
28	68.0	42.0	324	3.18				700	1100	1350	0.0	0.0	0.0	1200.0	N/A	26.0	
29	71.5	42.0	324	3.18				756	1224	1440	0.0	61.2	0.0	1423.0	295.5	22.3	
30								954	1278	1584	0.0	48.2	0.0	1848.0	474.0	19.0	
FOR THE MONTH										1433.1	1542.3	0.0	0.0	0.0	*****	269.2	35.5

NOTE : FLOWS & STAFF GAUGE READINGS INTERPOLATED FOR WEEKEND READINGS

NOTE : APRIL 27 - LOW LEVEL CONTROL GATE PARTIALLY PLUGGED WITH DEBRIS.

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MINNOVA INCORPORATED - SAMATOSUM DIVISION WATER FLOWS FOR THE MONTH OF MAY 1992

DAY	JOHNSON LAKE LEVEL	JOHNSON CREEK LEVEL AT DAM	S-1 FLOW D/S OF DAM	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C				FLOWS AT STAFF GAUGES			TREAT EFF DISC	W.Q.P. DISC	SITE SED POND DISC	MWSP DISC	DILUTION RATIO						
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	STAFF GAUGES													
									S-2	S-3	S-4					WQP & SSP @S-2	D/S @S-4					
1		42.0	324	3.18					954	1278	1584	0.0	26.6	0.0	1681.0	859.8	21.3					
2									954	1200	1530	0.0	20.0	0.0	1417.0	1143.8	24.6					
3					5.0	5.0	5.0	5.0	954	1220	1476	0.0	20.0	0.0	1153.0	1143.8	29.2					
4	75.0	43.0	396	3.88					954	1044	1422	0.0	15.8	0.0	888.0	1448.1	36.8					
5	75.0	43.5	432	4.24					954	1224	1512	0.0	13.7	0.0	998.0	1670.2	34.9					
6	75.5	44.5	513	5.03					1080	1278	1584	0.0	12.4	0.0	770.0	2089.3	47.6					
7	75.5	44.5	513	5.03					1008	1224	1512	0.0	11.9	0.0	754.0	2031.9	46.4					
8	76.0	44.5	513	5.03					1080	1224	1584	0.0	11.4	0.0	1901.0	2272.7	18.9					
9									1116	1242	1584	0.0	15.0	0.0	1511.0	1784.6	23.9					
10									1116	1260	1584	0.0	15.0	0.0	1121.0	1784.6	32.5					
11	78.0	45.0	558	5.47	3.5	3.5	3.5	3.5	1152	1278	1584	0.0	19.3	0.0	732.0	1431.5	49.6					
12	79.0	49.0	918	9.01					1440	1476	2412	0.0	209.0	0.0	2179.0	164.4	23.2					
13	79.5	49.0	918	9.01	5.0	4.5	5.0	5.0	1512	1548	2106	839.2	859.2	0.0	1159.0	41.2	24.0					
14	79.0	48.5	864	8.48					1440	1476	2043	1002.4	1022.1	0.0	840.0	32.8	25.3					
15	78.5	48.0	810	7.95					1368	1476	1980	744.9	764.9	0.0	698.0	41.9	31.5					
16									1300	1428	1884	0.0	10.0	0.0	1050.0	3119.0	41.7					
17									1200	1380	1788	0.0	10.0	0.0	1402.0	2879.0	29.4					
18	77.5	47.5	765	7.50	6.0	6.5	6.0	6.0	1152	1332	1692	0.0	7.7	0.0	1752.0	3589.6	22.1					
19	77.5	47.5	765	7.50					1224	1332	1692	755.0	762.8	0.0	485.0	37.5	31.5					
20	77.0	50.0	1008	9.89					1440	1548	2043	1260.0	1268.0	0.0	449.0	26.3	27.6					
21	76.5	50.0	1008	9.89					1368	1548	2106	1284.7	1272.7	0.0	1510.0	24.8	17.2					
22	76.0	49.5	963	9.45					1368	1476	1980	874.0	881.0	0.0	804.0	36.3	27.2					
23									1368	1476	1940	0.0	20.0	0.0	2400.0	1640.6	18.2					
24									1368	1476	1920	0.0	15.0	0.0	1920.0	2187.8	22.8					
25	75.0	49.0	918	9.01	8.0	8.0	8.0	8.0	1440	1476	1890	0.0	9.4	0.0	1123.0	3675.6	39.1					
26	76.0	50.0	1008	9.89	6.0	6.0	6.0	6.0	1440	1476	2196	0.0	0.0	0.0	1056.0	N/A	48.9					
27	75.0	49.0	1008	9.89	7.0	7.0	7.0	7.0	1440	1548	2106	767.6	767.6	0.0	876.0	44.0	29.8					
28	76.0	49.5	963	9.45	8.0	8.0	8.0	8.0	1440	1476	2106	274.0	279.0	0.0	296.0	122.9	86.9					
29	76.5	50.0	1008	9.89					1400	1476	2106	537.4	542.4	0.0	118.0	62.7	75.5					
30									1400	1284	2064	466.9	471.9	0.0	239.0	70.2	68.7					
31									1400	1092	2022	0.0	9.6	0.0	360.0	3499.0	130.3					
FOR THE MONTH																	8786.1	9363.4	0.0	*****	98.6	30.8

NOTE: FLOWS & STAFF GAUGE READINGS INTERPOLATED FOR WEEKEND READINGS

NOTE: MAY 5 - CLOSED LOW LEVEL CONTROL GATE & REMOVED TWO 1m STOP LOGS

NOTE: MAY 11 - REPLACED TWO 1m STOP LOGS & REMOVED TWO 1.3m STOP LOGS

NOTE: MAY 19 - REMOVED ONE 1.3m STOP LOG

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MINNOVA INCORPORATED - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF JUNE 1992

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C			FLOWS AT STAFF GAUGES			TREAT EFF DISC m3/day	W.Q.P.		MWSF DISC m3/day	DILUTION RATIO	
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WARF	ADULT FISH BOX	INSIDE FRY FISH WAY	S-2 m3/hr	S-3 m3/hr	S-4 m3/hr					
1	74.0	48.5	864	8.48	10.0	9.5	10.0	10.0	1368	1476	1880	0.0	9.6	0.0	482.4	3419.0
2	73.0	49.5	963	9.45	9.0	9.0	9.0	9.0	1296	1224	1800	0.0	0.0	0.0	0.0	N/A
3	73.0	48.0	910	7.95					1296	1224	1746	397.9	0.0	0.0	802.0	N/A
4	73.0	48.5	864	8.48					1296	1224	1692	411.5	440.5	0.0	475.0	69.6
5	72.0	51.5	1188	11.65					1584	1332	2106	435.4	442.4	0.0	337.0	84.9
6									1550	1332	2041	656.7	663.7	0.0	296.0	55.0
7									1550	1332	2000	794.0	801.0	0.0	214.0	45.4
8	69.5	50.0	1008	9.89					1512	1332	1935	0.0	65.6	0.0	173.0	552.2
9	68.0	49.5	963	9.45					1440	1278	1692	0.0	5.9	0.0	4.3	5856.6
10									1404	1251	1685	0.0	0.0	0.0	0.0	N/A
11									1332	1197	1611	0.0	0.0	0.0	0.0	N/A
12	67.0	48.5	864	8.48					1296	1170	1584	0.0	0.0	0.0	814.0	N/A
13									1260	1157	1575	0.0	0.0	0.0	804.0	N/A
14	65.5	48.0	810	7.95					1188	1130	1557	0.0	0.0	0.0	774.0	N/A
15									1152	1116	1548	516.0	521.0	0.0	758.0	52.1
16	64.5	48.0	810	7.95					1152	1116	1477	191.0	196.0	0.0	780.0	140.1
17	64.0	47.5	765	7.50	12.0	12.0	12.0	12.0	1152	1044	1377	383.0	386.0	0.0	585.0	70.6
18			740	7.26					1175	1008	1317	0.0	3.1	0.0	0.0	9095.8
19	63.5	47.0	720	7.06					1008	972	1296	0.0	7.8	0.0	0.0	3100.5
20									981	954	1278	0.0	0.0	0.0	0.0	N/A
21									927	954	1242	0.0	0.0	0.0	0.0	N/A
22	61.5	46.0	630	6.18					900	936	1224	0.0	0.0	0.0	0.0	N/A
23	61.0	45.5	594	5.83					792	936	1188	0.0	0.0	0.0	0.0	N/A
24	60.0	44.5	513	5.03					684	864	1044	0.0	0.0	0.0	0.0	N/A
25									684	882	1044	0.0	0.0	0.0	0.0	N/A
26	59.5	45.0	558	5.47					684	900	1044	0.0	0.0	0.0	0.0	N/A
27									684	900	1080	0.0	0.0	0.0	0.0	N/A
28									684	900	1116	0.0	0.0	0.0	0.0	N/A
29									684	900	1152	0.0	0.0	0.0	0.0	N/A
30	59.5	44.5	513	5.03					684	900	1188	0.0	0.0	0.0	0.0	N/A
FOR THE MONTH										3785.5		3542.6		0.0		7298.7
																225.3
																97.7

NOTE : FLOWS & STAFF GAUGE READINGS INTERPOLATED FOR WEEKEND READINGS

NOTE : JUNE 3 - REMOVED 4th 1.3m STOP LOG - D/S FLOW INCREASED TO 1071 m3/hr

NOTE : JUNE 23 - STOP LOGS PUT IN PLACE & VALVE OPENED

MINNOVA INCORPORATED - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF AUGUST 1992

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C				FLOWS AT STAFF GAUGES			TREAT EFF DISC m3/day	W.Q.P. DISC m3/day	SITE SED POND DISC m3/day	MWSP DISC m3/day	DILUTION RATIO	
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	S-2 S-3 S-4							WQP & SSP @S-2	OVER ALL D/S @S-4
									m3/hr	m3/hr	m3/hr						
1									396	612	702	0.0	0.0	0.0	0.0	N/A	N/A
2									396	612	702	0.0	0.0	0.0	0.0	N/A	N/A
3									396	612	702	0.0	0.0	0.0	0.0	N/A	N/A
4	49.0	41.5	297	2.91					396	612	702	369.1	372.5	0.0	0.0	24.5	44.2
5	49.0	41.5	297	2.91	20.0				396	612	702	412.7	414.5	0.0	299.5	21.9	22.6
6	49.0	41.5	297	2.91	20.0				396	684	756	126.2	127.2	0.0	0.0	73.7	141.6
7					20.0				405	657	743	0.0	0.0	0.0	0.0	N/A	N/A
8									414	630	729	0.0	0.0	0.0	0.0	N/A	N/A
9									423	603	716	0.0	0.0	0.0	0.0	N/A	N/A
10	47.0	41.0	270	2.65					432	576	702	0.0	0.0	0.0	0.0	N/A	N/A
11	47.5	35.0	40	0.39					398	555	671	0.0	0.0	0.0	0.0	N/A	N/A
12	47.0	34.5	30	0.29					363	535	640	0.0	0.0	0.0	0.0	N/A	N/A
13									329	514	609	0.0	0.0	0.0	0.0	N/A	N/A
14									295	494	578	0.0	0.0	0.0	0.0	N/A	N/A
15									261	473	547	0.0	0.0	0.0	0.0	N/A	N/A
16									226	453	515	0.0	0.0	0.0	0.0	N/A	N/A
17									192	432	484	0.0	0.0	0.0	0.0	N/A	N/A
18	45.5	37.0	90	0.88					158	412	453	0.0	0.0	0.0	0.0	N/A	N/A
19									124	391	422	0.0	0.0	0.0	0.0	N/A	N/A
20									89	371	391	0.0	0.0	0.0	0.0	N/A	N/A
21	43.5	34.0	20	0.20					55	350	360	0.0	0.0	0.0	0.0	N/A	N/A
22									53	346	350	0.0	0.0	0.0	0.0	N/A	N/A
23									50	341	339	0.0	0.0	0.0	0.0	N/A	N/A
24									48	337	329	0.0	0.0	0.0	0.0	N/A	N/A
25									45	333	319	0.0	0.0	0.0	0.0	N/A	N/A
26									43	329	309	0.0	0.0	0.0	0.0	N/A	N/A
27									40	324	298	0.0	0.0	0.0	0.0	N/A	N/A
28	39.5	33.0	10	0.10					38	320	288	0.0	0.0	0.0	0.0	N/A	N/A
29									38	320	288	0.0	0.0	0.0	0.0	N/A	N/A
30									38	320	288	0.0	0.0	0.0	0.0	N/A	N/A
31									38	320	288	0.0	0.0	0.0	0.0	N/A	N/A
FOR THE MONTH												908.0	914.2	0.0	299.5	182.0	313.8

NOTE : VALVE AT DAM CLOSED ON AUGUST 11, 1992.
 NOTE : VALVE AT DAM OPENED SLIGHTLY ON AUGUST 14, 1992.
 NOTE : VALVE AT DAM CLOSED ON AUGUST 18, 1992.

MINNOVA INCORPORATED - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF SEPTEMBER 1992

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C			FLOWS AT STAFF GAUGES			TREAT EFF DISC m3/day	W.Q.P. DISC m3/day	SITE SED POND DISC m3/day	MWSP DISC m3/day	DILUTION RATIO	
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WARF	ADULT FISH BOX	INSIDE FRY FISH WAY	S-2 m3/hr	S-3 m3/hr	S-4 m3/hr				WQP & SSP @S-2	OVER ALL D/S @S-4
1									38	320	288	0.0	0.0	0.0	N/A	N/A
2	40.5	34.0	20	0.20					38	320	288	0.0	0.0	0.0	N/A	N/A
3									44	340	321	0.0	0.0	0.0	350.0	21.0
4									49	360	354	0.0	0.0	0.0	400.0	N/A
5									55	380	387	0.0	0.0	0.0	400.0	22.2
6									61	400	420	0.0	0.0	0.0	400.0	24.2
7									66	420	453	0.0	0.0	0.0	400.0	26.2
8	43.5	34.0	20	0.20					72	440	486	0.0	0.0	0.0	50.0	232.3
9									69	423	459	0.0	0.0	0.0	0.0	N/A
10									67	409	437	0.0	0.0	0.0	0.0	N/A
11									64	396	414	0.0	0.0	0.0	0.0	N/A
12									62	382	392	0.0	0.0	0.0	0.0	N/A
13									60	368	369	0.0	0.0	0.0	0.0	N/A
14									57	354	347	0.0	0.0	0.0	0.0	N/A
15	40.5	34.0	20	0.20					55	340	324	0.0	0.0	0.0	0.0	N/A
16									52	340	324	0.0	0.0	0.0	0.0	N/A
17									50	340	324	0.0	0.0	0.0	0.0	N/A
18									47	340	324	0.0	0.0	0.0	0.0	N/A
19									45	340	324	0.0	0.0	0.0	0.0	N/A
20									43	340	324	0.0	0.0	0.0	0.0	N/A
21									40	340	324	0.0	0.0	0.0	0.0	N/A
22	39.5	33.5	20	0.20					38	340	324	0.0	0.0	0.0	0.0	N/A
23									38	340	330	0.0	0.0	0.0	0.0	N/A
24									38	340	335	0.0	0.0	0.0	0.0	N/A
25									38	340	340	0.0	0.0	0.0	0.0	N/A
26									38	340	345	0.0	0.0	0.0	0.0	N/A
27									38	340	350	0.0	0.0	0.0	0.0	N/A
28									38	340	355	0.0	0.0	0.0	0.0	N/A
29	42.0	34.0	20	0.20					38	340	360	0.0	0.0	0.0	0.0	N/A
30									38	340	360	0.0	0.0	0.0	0.0	N/A
FOR THE MONTH												0.0	0.0	0.0	2000.0	128.4

NOTE : VALVE AT DAM CLOSED ON AUGUST 11, 1992.
 NOTE : VALVE AT DAM OPENED SLIGHTLY ON AUGUST 14, 1992.
 NOTE : VALVE AT DAM CLOSED ON AUGUST 18, 1992.

MINNOVA INCORPORATED - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF OCTOBER 1992

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C			FLOWS AT STAFF GAUGES			TREAT EFF DISC	W.Q.P. DISC m3/day	SITE SED POND DISC m3/day	MWSP DISC m3/day	DILUTION RATIO	
					SURFACE OF LAKE AT WHARF	DEPTH AT WARF	ADULT FISH BOX	INSIDE FRY FISH WAY	S-2 m3/hr	S-3 m3/hr	S-4 m3/hr				WQP & SSP @S-2 @S-4	OVER ALL D/S @S-4
1																
2	42.0	34.0	20	0.20					38	340	360	0.0	0.0	0.0	N/A	N/A
3												0.0	0.0	0.0	N/A	N/A
4												0.0	0.0	0.0	N/A	N/A
5												0.0	0.0	0.0	N/A	N/A
6												0.0	0.0	0.0	N/A	N/A
7												0.0	0.0	0.0	N/A	N/A
8												0.0	0.0	0.0	N/A	N/A
9												0.0	0.0	0.0	N/A	N/A
10												0.0	0.0	0.0	N/A	N/A
11												0.0	0.0	0.0	N/A	N/A
12												0.0	0.0	0.0	N/A	N/A
13												0.0	0.0	0.0	N/A	N/A
14	42.0	34.0	20	0.20					38	340	360	0.0	0.0	0.0	N/A	N/A
15												0.0	0.0	0.0	N/A	N/A
16												0.0	0.0	0.0	N/A	N/A
17												0.0	0.0	0.0	N/A	N/A
18												0.0	0.0	0.0	N/A	N/A
19												0.0	0.0	0.0	N/A	N/A
20												0.0	0.0	0.0	N/A	N/A
21												0.0	0.0	0.0	N/A	N/A
22												0.0	0.0	0.0	N/A	N/A
23												0.0	0.0	0.0	N/A	N/A
24												0.0	0.0	0.0	N/A	N/A
25												0.0	0.0	0.0	N/A	N/A
26												0.0	0.0	0.0	N/A	N/A
27												0.0	0.0	0.0	N/A	N/A
28												0.0	0.0	0.0	N/A	N/A
29												0.0	0.0	0.0	N/A	N/A
30												0.0	0.0	0.0	N/A	N/A
31												0.0	0.0	0.0	N/A	N/A
FOR THE MONTH											0.0	0.0	0.0	0.0	N/A	N/A

NOTE : VALVE AT DAM CLOSED ON AUGUST 11, 1992.
 NOTE : VALVE AT DAM OPENED SLIGHTLY ON AUGUST 14, 1992.
 NOTE : VALVE AT DAM CLOSED ON AUGUST 18, 1992.

MINNOVA INCORPORATED - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF NOVEMBER 1992

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C			FLOWS AT STAFF GAUGES			TREAT EFF DISC m3/day	W.Q.P. DISC m3/day	SITE SED POND DISC m3/day	MWSP DISC m3/day	DILUTION RATIO	
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	S-2 m3/hr	S-3 m3/hr	S-4 m3/hr				WQP & SSP @S-2	OVER ALL D/S @S-4
1									38		350	0.0	0.0	0.0	N/A	N/A
2	40.0		20						38	320	350	0.0	0.0	0.0	N/A	N/A
3									39		353	0.0	0.0	0.0	N/A	N/A
4									39		355	0.0	0.0	0.0	N/A	N/A
5									40		358	0.0	0.0	0.0	N/A	N/A
6									41		361	0.0	0.0	0.0	N/A	N/A
7									41		363	0.0	0.0	0.0	N/A	N/A
8									42		366	0.0	0.0	0.0	N/A	N/A
9									43		369	0.0	0.0	0.0	N/A	N/A
10									43		372	0.0	0.0	0.0	N/A	N/A
11									44		374	0.0	0.0	0.0	N/A	N/A
12									45		377	0.0	0.0	0.0	N/A	N/A
13									45		379	0.0	0.0	0.0	N/A	N/A
14									46		381	0.0	0.0	0.0	N/A	N/A
15	48.5		40						46		383	0.0	0.0	0.0	N/A	N/A
16									47		385	0.0	0.0	0.0	N/A	N/A
17									47		388	0.0	0.0	0.0	N/A	N/A
18									48		390	0.0	0.0	0.0	N/A	N/A
19									48		393	0.0	0.0	0.0	N/A	N/A
20									49		395	0.0	0.0	0.0	N/A	N/A
21									50		398	0.0	0.0	0.0	N/A	N/A
22									50		400	0.0	0.0	0.0	N/A	N/A
23									51		403	0.0	0.0	0.0	N/A	N/A
24									51		405	0.0	0.0	0.0	N/A	N/A
25									52		408	0.0	0.0	0.0	N/A	4444.5
26									53		410	0.0	0.0	0.0	N/A	2962.9
27									53		413	0.0	0.0	0.0	N/A	2228.7
28									54		415	0.0	0.0	0.0	N/A	1790.4
29									54		418	0.0	0.0	0.0	N/A	1499.0
30	52.5		40						55		420	0.0	0.0	0.0	N/A	1291.3
FOR THE MONTH												0.0	0.0	0.0	30.0	9221.8

NOTE : FLOWRATES INTERPOLATED WHEN READINGS NOT TAKEN

MINNOVA INCORPORATED - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF DECEMBER 1992

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C				FLOWS AT STAFF GAUGES			TREAT EFF DISC m3/day	W.Q.P. DISC m3/day	SITE SED POND DISC m3/day	MWSP DISC m3/day	DILUTION RATIO	
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	STAFF GAUGES							WQP & SSP @S-2	OVER ALL D/S @S-4
									S-2 m3/hr	S-3 m3/hr	S-4 m3/hr						
1									55		400	0.0	0.0	22.4	N/A	427.7	
2									55		400	0.0	0.0	37.0	N/A	258.5	
3									55		400	0.0	0.0	51.6	N/A	185.1	
4									55		400	0.0	0.0	66.2	N/A	144.1	
5									55		400	0.0	0.0	80.8	N/A	117.8	
6									55		400	0.0	0.0	95.4	N/A	99.7	
7									55		400	0.0	0.0	110.0	N/A	86.3	
8	54.0	35.0	40	0.39					55		400	0.0	0.0	124.6	N/A	76.1	
9									55		400	0.0	0.0	148.1	N/A	63.8	
10									55		400	0.0	0.0	171.7	N/A	54.9	
11									55		400	0.0	0.0	195.3	N/A	48.2	
12									55		400	0.0	0.0	218.8	N/A	42.9	
13	53.5	35.0	40	0.39					55		400	0.0	0.0	242.4	N/A	38.6	
14									55		400	0.0	0.0	231.2	N/A	40.5	
15									55		400	0.0	0.0	220.0	N/A	42.6	
16									55		400	0.0	0.0	208.8	N/A	45.0	
17									55		400	0.0	0.0	197.6	N/A	47.6	
18									55		400	0.0	0.0	186.4	N/A	50.5	
19									55		400	0.0	0.0	175.2	N/A	53.8	
20									55		400	0.0	0.0	164.0	N/A	57.5	
21									55		400	0.0	0.0	152.8	N/A	61.8	
22									55		400	0.0	0.0	141.6	N/A	66.8	
23									55		400	0.0	0.0	130.4	N/A	72.6	
24									55		400	0.0	0.0	119.2	N/A	79.5	
25									55		400	0.0	0.0	108.0	N/A	87.9	
26									55		400	0.0	0.0	96.8	N/A	98.2	
27									55		400	0.0	0.0	85.6	N/A	111.1	
28									55		400	0.0	0.0	67.0	N/A	142.4	
29									55		400	0.0	0.0	48.3	N/A	197.8	
30									55		400	0.0	0.0	29.7	N/A	322.8	
31									55		400	0.0	0.0	11.0	N/A	871.7	
FOR THE MONTH											0.0	0.0	0.0	3937.6	N/A	74.6	

NOTE : FLOWRATES INTERPOLATED WHEN READINGS NOT TAKEN
NOTE : STAFF GAUGE # 2 & # 4 FLOWRATES ARE ESTIMATES DUE TO ICE

MINNOVA INCORPORATED - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF JANUARY 1993

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C			FLOWS AT STAFF GAUGES			TREAT EFF DISC	W.Q.P. DISC	SITE SED POND DISC	MWSP DISC	DILUTION RATIO	
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	S-2 m3/hr	S-3 m3/hr	S-4 m3/hr				WQ.P & SSP @S-2	OVER ALL D/S @S-4
1									55		300	0.0	0.0	172.0	N/A	40.9
2									55		300	0.0	0.0	172.0	N/A	40.9
3									55		300	0.0	0.0	172.0	N/A	40.9
4									55		300	0.0	0.0	172.0	N/A	40.9
5	61.0	37.0	90	0.88					55		300	0.0	0.0	172.0	N/A	40.9
6									55		300	0.0	0.0	172.0	N/A	40.9
7									55		300	0.0	0.0	172.0	N/A	40.9
8									55		300	0.0	0.0	172.0	N/A	40.9
9									55		300	0.0	0.0	172.0	N/A	40.9
10									55		300	0.0	0.0	172.0	N/A	40.9
11									55		300	0.0	0.0	172.0	N/A	40.9
12									55		300	0.0	0.0	172.0	N/A	40.9
13									55		300	0.0	0.0	172.0	N/A	40.9
14									55		300	0.0	0.0	172.0	N/A	40.9
15									55		300	0.0	0.0	172.0	N/A	40.9
16									55		300	0.0	0.0	172.0	N/A	40.9
17									55		300	0.0	0.0	172.0	N/A	40.9
18									55		300	0.0	0.0	172.0	N/A	40.9
19									55		300	0.0	0.0	172.0	N/A	40.9
20									55		300	0.0	0.0	172.0	N/A	40.9
21									55		300	0.0	0.0	172.0	N/A	40.9
22									55		300	0.0	0.0	172.0	N/A	40.9
23									55		300	0.0	0.0	172.0	N/A	40.9
24									55		300	0.0	0.0	172.0	N/A	40.9
25									55		300	0.0	0.0	172.0	N/A	40.9
26									55		300	0.0	0.0	172.0	N/A	40.9
27									55		300	0.0	0.0	172.0	N/A	40.9
28									55		300	0.0	0.0	172.0	N/A	40.9
29									55		300	0.0	0.0	172.0	N/A	40.9
30									55		300	0.0	0.0	172.0	N/A	40.9
31									55		300	0.0	0.0	172.0	N/A	40.9
FOR THE MONTH											0.0	0.0	0.0	5332.0	N/A	40.9

OTE : FLOWRATES INTERPOLATED WHEN READINGS NOT TAKEN

OTE : FLOWRATES FOR SF # 2 & # 4 ARE ESTIMATES DUE TO ICE BUILD UP AT STAFF GAUGES

MINNOVA INCORPORATED - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF FEBRUARY 1993

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C				FLOWS AT STAFF GAUGES			TREAT EFF DISC m3/day	W.Q.P. DISC m3/day	SITE SED POND DISC m3/day	MWSP DISC m3/day	DILUTION RATIO								
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WARF	ADULT FISH BOX	INSIDE FRY FISH WAY	S-2 S-3 S-4															
									m3/hr	m3/hr	m3/hr					WQP & SSP @S-2	OVER ALL D/S @S-4							
1	66.5	35.5	53	0.52					75	300	0.0	0.0	0.0	145.5	N/A	48.5								
2																	75	300	0.0	0.0	0.0	145.5	N/A	48.5
3																	75	300	0.0	0.0	0.0	145.5	N/A	48.5
4																	75	300	0.0	0.0	0.0	145.5	N/A	48.5
5																	75	300	0.0	0.0	0.0	145.5	N/A	48.5
6																	75	300	0.0	0.0	0.0	145.5	N/A	48.5
7																	75	300	0.0	0.0	0.0	145.5	N/A	48.5
8																	75	300	0.0	0.0	0.0	145.5	N/A	48.5
9																	75	300	0.0	0.0	0.0	145.5	N/A	48.5
10																	75	300	0.0	0.0	0.0	145.5	N/A	48.5
11																	75	300	0.0	0.0	0.0	145.5	N/A	48.5
12																	75	300	0.0	0.0	0.0	145.5	N/A	48.5
13																	75	300	0.0	0.0	0.0	145.5	N/A	48.5
14																	75	300	0.0	0.0	0.0	145.5	N/A	48.5
15																	75	300	0.0	0.0	0.0	145.5	N/A	48.5
16																	75	300	0.0	0.0	0.0	145.5	N/A	48.5
17																	75	300	0.0	0.0	0.0	145.5	N/A	48.5
18																	75	300	0.0	0.0	0.0	145.5	N/A	48.5
19																	75	300	0.0	0.0	0.0	145.5	N/A	48.5
20																	75	300	0.0	0.0	0.0	145.5	N/A	48.5
21																	75	300	0.0	0.0	0.0	145.5	N/A	48.5
22																	75	300	0.0	0.0	0.0	145.5	N/A	48.5
23																	75	300	0.0	0.0	0.0	145.5	N/A	48.5
24																	75	300	0.0	0.0	0.0	145.5	N/A	48.5
25																	75	300	0.0	0.0	0.0	145.5	N/A	48.5
26																	75	300	0.0	0.0	0.0	145.5	N/A	48.5
27																	75	300	0.0	0.0	0.0	145.5	N/A	48.5
28																	75	300	0.0	0.0	0.0	145.5	N/A	48.5
FOR THE MONTH												0.0	0.0	0.0	4074.0	N/A	48.5							

NOTE : FLOWRATES INTERPOLATED WHEN READINGS NOT TAKEN
 NOTE : FLOWRATES FOR SF # 2 & # 4 ARE ESTIMATES DUE TO ICE BUILD UP AT STAFF GAUGES

MINNOVA INCORPORATED - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF MARCH 1993

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C			FLOWS AT STAFF GAUGES			TREAT EFF DISC	W.Q.P. DISC	SITE SED POND DISC	MWSP DISC	DILUTION RATIO	
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	S-2 m3/hr	S-3 m3/hr	S-4 m3/hr				WQP & SSP	OVER ALL D/S @S-4
1	69.5	36.5	88	0.86					100		300	0.0	0.0	78.2	N/A	91.1
2									100		300	0.0	0.0	78.2	N/A	91.1
3									100		300	0.0	0.0	78.2	N/A	91.1
4									100		300	0.0	0.0	78.2	N/A	91.1
5									100		300	0.0	0.0	78.2	N/A	91.1
6									100		300	0.0	0.0	78.2	N/A	91.1
7									100		300	0.0	0.0	78.2	N/A	91.1
8									100		300	0.0	0.0	78.2	N/A	91.1
9									100		300	0.0	0.0	78.2	N/A	91.1
10									100		300	0.0	0.0	78.2	N/A	91.1
11									100		300	0.0	0.0	78.2	N/A	91.1
12									100		300	0.0	0.0	78.2	N/A	91.1
13									100		300	0.0	0.0	78.2	N/A	91.1
14									100		300	0.0	0.0	78.2	N/A	91.1
15									100		300	0.0	0.0	78.2	N/A	91.1
16									100		300	0.0	0.0	78.2	N/A	91.1
17									100		300	0.0	0.0	78.2	N/A	91.1
18									100		300	0.0	0.0	78.2	N/A	91.1
19									100		300	0.0	0.0	78.2	N/A	91.1
20									100		300	0.0	0.0	78.2	N/A	91.1
21									100		300	0.0	0.0	78.2	N/A	91.1
22									100		300	0.0	0.0	78.2	N/A	91.1
23									100		300	0.0	0.0	78.2	N/A	91.1
24									100		344	0.0	0.0	156.0	26.6	33.0
25									100		388	0.0	0.0	234.0	54.6	32.6
26									100		432	0.0	0.0	312.0	46.7	27.6
27									100		476	0.0	0.0	390.0	40.8	24.5
28									100		520	0.0	0.0	468.0	36.2	22.4
29									100		564	0.0	0.0	546.0	30.5	19.8
30									100		608	0.0	0.0	624.0	26.3	20.8
31	70.0	37.5	104	1.02					100		648	0.0	87.8	624.0	139.1	44.9
FOR THE MONTH											0.0	530.9	0.0	5152.6		

NOTE : FLOWRATES INTERPOLATED WHEN READINGS NOT TAKEN

NOTE : FLOWRATES FOR SF # 2 & # 4 ARE ESTIMATES DUE TO ICE BUILD UP AT STAFF GAUGES

MINNOVA INCORPORATED - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF APRIL 1993

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C				FLOWS AT STAFF GAUGES			TREAT EFF DISC m3/day	W.Q.P. DISC m3/day	SITE SED POND DISC m3/day	MWSP DISC m3/day	DILUTION RATIO						
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	\$-2 m3/hr	\$-3 m3/hr	\$-4 m3/hr					WQIP & SSP @S-2	OVER ALL D/S @S-4					
1	70.0	37.5	104	1.02					100		648	0.0	87.8	0.0	624.0	28.3	20.8					
2	70.0	37.5	104	1.02					133		700	0.0	89.7	0.0	732.0	34.6	19.4					
3	70.0	37.5	104	1.02					166		752	0.0	91.5	0.0	841.0	42.5	18.4					
4	70.0	37.5	104	1.02					199		804	0.0	93.4	0.0	950.0	50.1	17.5					
5	70.0	37.5	104	1.02					232		856	0.0	95.0	0.0	1058.0	57.6	16.8					
6	70.0	37.5	104	1.02					265		908	0.0	97.0	0.0	1167.0	64.6	16.2					
7	70.0	37.5	104	1.02					298		960	0.0	99.0	0.0	1275.0	71.2	15.8					
8	71.0	37.5	104	1.02					331		1012	0.0	101.0	0.0	1384.0	77.7	15.4					
9	71.5	37.5	104	1.02					364		1064	0.0	103.0	0.0	1492.0	83.8	15.0					
10	72.0	37.5	104	1.02					397		1116	0.0	105.0	0.0	1600.0	89.7	14.7					
11	72.5	37.5	104	1.02					430		1168	0.0	106.0	0.0	1817.0	96.4	13.6					
12	73.0	37.5	104	1.02					432		1220	0.0	110.0	0.0	1926.0	93.3	13.4					
13	74.0	37.5	104	1.02					474		1272	0.0	121.0	0.0	1959.0	93.0	13.7					
14	74.8	37.5	101	0.99					516		1324	0.0	132.0	0.0	1993.0	92.8	14.0					
15	75.8	37.5	99	0.97					558		1376	0.0	143.0	0.0	2026.0	92.7	14.2					
16	76.7	37.0	97	0.95					600		1428	0.0	153.0	0.0	2060.0	93.1	14.5					
17	77.6	37.0	95	0.93					642		1480	0.0	164.0	0.0	2093.0	93.0	14.7					
18	78.5	37.0	92	0.91					642		1532	0.0	175.0	0.0	2127.0	87.0	15.0					
19	78.5	37.0	90	0.88					684	864	1584	0.0	186.0	0.0	2160.0	87.3	15.2					
20	79.5	37.5	114	1.12					699	879	1636	0.0	122.0	0.0	2060.0	136.5	17.0					
21	80.5	38.0	138	1.35					714	895	1689	0.0	57.0	0.0	1920.0	299.6	19.5					
22	81.5	39.0	162	1.59					729	911	1741	0.0	54.4	0.0	1500.0	320.6	25.9					
23	82.5	39.0	186	1.82					745	926	1793	0.0	51.0	0.0	1080.0	349.6	37.0					
24	84.0	40.0	210	2.06					760	942	1845	0.0	49.0	0.0	1140.0	371.2	36.2					
25	85.0	40.5	234	2.30					776	958	1897	0.0	46.0	0.0	1200.0	403.9	35.5					
26	86.0	40.5	234	2.30					792	972	1949	0.0	44.0	0.0	1260.0	431.0	34.9					
27	88.0	40.5	428	4.19					918	1098	2001	0.0	41.0	0.0	1320.0	536.4	34.3					
28	90.0	40.5	621	6.09					1044	1224	2053	0.0	38.0	0.0	1380.0	658.4	33.7					
29	92.5	5.0	815	7.99					1170	1350	2106	0.0	36.0	0.0	1440.0	779.0	33.2					
30	95.0	50.0	1008	9.89					1170	1476	2106	0.0	31.0	0.0	1500.0	904.8	32.0					
FOR THE MONTH																0.0	2821.8	0.0	45084.0	143.4	N/A	20.1

NOTE: FLOWRATES INTERPOLATED WHEN READINGS NOT TAKEN

MINNOVA INCORPORATED - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF MAY 1993

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEGC			FLOWS AT STAFF GAUGES			TREAT EFF DISC m3/day	W.Q.P. DISC m3/day	SITE SED POND DISC m3/day	MWSP DISC m3/day	DILUTION RATIO		
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	STAFF GAUGES						WQP & SSSP @S-2	OVER ALL D/S @S-4	
									S-2 m3/hr	S-3 m3/hr							S-4 m3/hr
1	95.0	50.0	786	7.71				1152	1332	2694	0.0	31.0	0.0	145.5	890.9	365.3	
2	95.0	50.0	897	8.80				1224	1404	2841	0.0	31.0	0.0	145.5	946.6	385.3	
3	95.0	50.0	1008	9.89				1296	1476	2888	0.0	31.0	0.0	1680.0	1002.4	40.9	
4	95.8	52.0	1310	12.85				1485	1665	3402	0.0	31.0	0.0	145.5	1148.7	461.6	
5	96.5	54.0	1611	15.80				1674	1854	3816	0.0	31.0	0.0	145.5	1295.0	517.9	
6	97.3	56.0	1913	18.77				1863	2043	4230	869.7	900.0	0.0	145.5	48.7	96.1	
7	98.0	58.0	2214	21.72				2052	2232	4644	1380.4	1410.0	0.0	145.5	33.9	70.7	
8	98.0	58.3	2280	22.37				2052	2094	4596	2016.0	2046.0	0.0	1680.0	23.1	28.6	
9	98.0	58.6	2346	23.01				2052	1956	4548	2056.8	2086.0	0.0	145.5	22.6	47.9	
10	98.0	59.0	2412	23.66				2052	1818	4500	1203.5	1234.5	0.0	1233.0	38.9	42.8	
11	98.0	57.5	2232	21.90				2232	1908	4500	803.4	834.4	0.0	145.5	63.2	109.2	
12	98.0	59.0	2412	23.66				2552	2232	5200	1813.4	1844.4	0.0	1080.0	32.2	41.7	
13	98.0	59.0	2412	23.66	7.0		7.0	2550	2484	5220	1765.9	1796.9	0.0	1008.0	33.1	43.7	
14	98.0	60.0	2610	25.60				2880	2016	5220	1971.3	2002.3	0.0	888.0	33.5	42.3	
15	97.5	59.0	2412	23.66				2511	1845	4536	1879.6	1910.6	0.0	888.0	30.5	37.9	
16	97.5	59.0	2412	23.66				2511	1845	4536	1789.0	1820.0	0.0	888.0	32.1	39.2	
17	97.0	58.0	2214	21.72				2142	1674	3852	1300.7	1331.7	0.0	768.0	37.6	43.0	
18	97.0	60.0	2610	25.60	7.0		6.0	2560	1728	3510	1773.4	1804.4	0.0	768.0	33.1	31.7	
19	98.5	60.0	2610	25.60	11.0		11.0	2664	1818	4005	1724.3	1755.3	0.0	624.0	35.4	39.4	
20	98.5	59.5	2511	24.63	12.0		12.0	2556	1728	3708	2014.6	2045.6	0.0	624.0	29.0	32.3	
21	98.5	59.5	2511	24.63				2556	3456	1674	1200.5	1231.5	0.0	624.0	48.8	20.7	
22	96.5	57.0	2016	19.78				2142	2466	2331	1718.2	1749.2	0.0	540.0	28.4	23.4	
23	96.5	56.5	1926	18.89				2142	2466	2331	1208.5	1239.5	0.0	540.0	40.5	30.4	
24	96.5	56.5	1926	18.89				2142	2466	2331	2020.9	2051.9	0.0	540.0	24.1	20.6	
25	94.5	54.0	1512	14.83	13.0		13.0	1728	1476	2988	1630.9	1661.9	0.0	456.0	24.0	32.9	
26	93.0	52.5	1287	12.63	13.0		13.0	1612	1278	2682	1420.4	1451.4	0.0	456.0	25.7	32.7	
27	92.5	51.5	1188	11.65	9.0		9.0	1440	1224	2574	1688.4	1719.4	0.0	408.0	19.1	28.0	
28	92.0	50.0	1008	9.89				1440	1224	2466	1698.4	1729.4	0.0	408.0	19.0	26.7	
29	92.0	50.0	1008	9.89				1404	1224	2439	2443.1	2474.1	0.0	396.0	12.6	19.4	
30	92.0	50.0	1008	9.89				1404	1224	2439	2553.1	2584.1	0.0	384.0	12.0	18.7	
31	92.0	50.0	1008	9.89	13.0		13.0	1368	1224	2412	2514.3	2545.3	0.0	384.0	11.9	18.8	
FOR THE MONTH													44458.7	45414.8	18428.9	31.5	40.1

NOTE : FLOWRATES INTERPOLATED WHEN READINGS NOT TAKEN

MINNOVA INCORPORATED - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF JUNE 1993

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEGC				FLOWS AT STAFF GAUGES			TREAT EFF DISC m3/day	W.Q.P. DISC m3/day	SITE SED POND DISC m3/day	MWSP DISC m3/day	DILUTION RATIO		
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	STAFF GAUGES							WQP & SSP @S-2	OVER ALL D/S @S-4	
									S-2	S-3	S-4							
1	91.5	51.0	1134	11.12					1512	1332	2808	2474.4	2505.4	0.0	552.0	13.5	21.0	
2	92.0	50.0	1008	9.89					1440	1278	2628	2519.9	2550.9	0.0	624.0	12.5	18.9	
3	92.0	49.5	963	9.45					1440	1332	2628	2557.2	2588.2	0.0	624.0	12.4	18.6	
4	92.5	50.0	1008	9.89					1440	1278	2574	2313.0	2344.0	0.0	624.0	13.7	19.8	
5	91.8	48.0	810	7.95					1260	1161	2232	2483.8	2514.8	0.0	288.0	11.0	18.1	
6	91.7	48.0	810	7.95					1260	1161	2232	2335.6	2366.6	0.0	288.0	11.8	19.2	
7	91.0	46.0	630	6.18					1080	1044	1890	1869.6	1900.6	0.0	288.0	12.6	19.7	
8	90.0	45.0	558	5.47					1080	972	1638	2020.6	2051.6	0.0	288.0	11.6	15.8	
9	90.5	45.0	558	5.47					1008	972	1638	2393.8	2424.8	0.0	240.0	9.0	13.8	
0	90.5	46.5	675	6.62					1152	1044	1845	2394.7	2425.7	0.0	624.0	10.4	13.5	
1	90.0	46.5	675	6.62					1080	1044	1845	2535.0	2566.0	0.0	624.0	9.1	12.9	
2	89.0	47.5	765	7.50					1152	1134	2021	2417.3	2448.3	0.0	624.0	10.3	14.8	
3	89.0	47.8	810	7.95					1152	1134	2021	2303.0	2334.0	0.0	768.0	10.8	14.6	
4	88.0	49.0	918	9.01					1224	1224	2196	2297.8	2328.8	0.0	960.0	11.6	15.0	
5	88.0	49.5	963	9.45					1296	1224	2250	2096.8	2127.8	0.0	768.0	13.6	17.6	
6	88.0	49.5	963	9.45					1224	1224	2250	858.1	889.0	0.0	768.0	32.0	31.6	
7	87.0	49.5	963	9.45					1152	1170	2196	1716.2	1747.2	0.0	768.0	14.8	20.0	
8	86.5	48.5	864	8.48					1152	1224	1890	667.8	698.8	0.0	768.0	38.6	29.9	
9	86.0	46.5	675	6.62					918	1062	1634	2062.1	2093.1	0.0	768.0	9.5	12.7	
0	86.0	46.5	675	6.62					918	1062	1634	2142.8	2173.8	0.0	768.0	9.1	12.3	
1	86.0	44.5	513	5.03					684	900	1377	1336.7	1367.7	0.0	384.0	11.0	17.9	
2	86.5	50.0	1008	9.89					792	936	1377	1146.2	1177.2	0.0	384.0	15.1	20.2	
3	81.5	51.0	1134	11.12					1224	1170	2196	1309.9	1340.9	0.0	624.0	20.9	25.8	
4	82.5	50.0	1008	9.89	10.0				1224	1224	2196	2500.7	2531.7	0.0	624.0	10.6	15.7	
5	83.0	50.0	1008	9.89					1224	1224	2106	2488.6	2519.6	0.0	624.0	10.7	15.1	
6	81.5	50.0	1008	9.89					1188	1197	1998	2478.0	2509.0	0.0	504.0	10.4	14.9	
7	81.5	50.0	1008	9.89					1188	1197	1998	2474.6	2505.5	0.0	504.0	10.4	14.9	
8	80.0	49.5	963	9.45					1152	1170	1890	2408.9	2439.9	0.0	384.0	10.3	15.1	
9	79.0	48.0	810	7.95					1008	1044	1746	2091.4	2122.4	0.0	624.0	10.4	14.3	
0	79.5	49.5	963	9.45					954	972	1512	2057.2	2088.2	0.0	624.0	10.1	12.5	
FOR THE MONTH													62751.7	63661.5	0.0	17304.0	12.0	16.9

TE : FLOWRATES INTERPOLATED WHEN READINGS NOT TAKEN

MINNOVA INCORPORATED - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF JULY 1993

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEGC				FLOWS AT STAFF GAUGES			TREAT EFF DISC m3/day	W.Q.P. DISC m3/day	SITE SED POND DISC m3/day	MWSP DISC m3/day	DILUTION RATIO	
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	STAFF GAUGES							WQP & SSP @S-2	OVER ALL D/S @S-4
									S-2 m3/hr	S-3 m3/hr	S-4 m3/hr						
1	78.5	48.5	864	8.48					1152	1116	1845	2202.8	2233.8	0.0	624.0	11.4	14.5
2	77.3	49.0	918	9.01					1053	1044	1714	2070.9	2101.9	0.0	624.0	11.0	14.1
3	77.3	49.0	918	9.01					1053	1044	1715	2080.2	2111.2	0.0	624.0	11.0	14.0
4	77.3	49.0	918	9.01					1053	1044	1714	1514.0	1545.0	0.0	384.0	15.4	20.3
5	76.0	49.5	963	9.45					954	972	1584	1540.6	1571.6	0.0	384.0	13.6	18.4
6	74.5	48.5	864	8.48					1008	972	1592	2319.9	2350.9	0.0	288.0	9.3	13.5
7	74.0	50.0	1008	9.89					1080	1044	1746	2362.0	2393.0	0.0	312.0	9.8	14.5
8	72.5	50.0	1008	9.89					1152	1044	1746	2300.1	2431.0	0.0	240.0	10.4	14.7
9	72.0	50.5	1071	10.51					1224	1044	1845	2211.4	2671.0	0.0	312.0	10.0	13.8
10	72.0	50.5	1071	10.51					1260	1134	1944	2136.1	2167.1	0.0	468.0	13.0	16.7
11	72.5	50.5	1071	10.51					1260	1134	1944	1845.9	1876.9	0.0	468.0	15.1	18.9
12	72.5	50.5	1071	10.51					1296	1224	2043	1574.9	1605.9	0.0	624.0	18.4	21.0
13	71.5	49.5	963	9.45					1152	1170	1845	1073.9	1104.9	0.0	768.0	24.0	22.6
14	70.5	50.0	1008	9.89					1008	1044	1800	1883.9	1914.9	0.0	624.0	11.6	16.0
15	70.5	50.0	1008	9.89					1080	1044	1692	1960.5	1991.5	0.0	624.0	12.0	14.5
16	69.5	50.0	1008	9.89					1080	1116	1746	1324.9	1355.9	0.0	624.0	18.1	20.2
17	68.3	50.0	1008	9.89					1080	1116	1773	1144.2	1175.2	0.0	564.0	21.1	23.5
18	68.2	50.0	1008	9.89					1080	1116	1773	1500.4	1531.4	0.0	564.0	15.9	19.3
19	67.0	50.0	1008	9.89					1080	1116	1800	676.8	707.8	0.0	504.0	35.6	34.6
20	66.0	50.0	1008	9.89					1152	1116	1746	1541.5	1572.5	0.0	504.0	16.6	19.2
21	66.0	50.0	1008	9.89					1152	1116	1800	1336.2	1367.2	0.0	504.0	19.2	22.1
22	66.0	50.0	1008	9.89					1152	1170	1845	1304.2	1335.2	0.0	504.0	19.7	23.1
23	64.5	50.0	1008	9.89					1152	1044	1845	1268.2	1291.2	0.0	504.0	20.4	23.7
24	64.0	49.5	963	9.45					1053	1008	1795	1298.2	1329.2	0.0	504.0	18.0	22.5
25	63.5	49.5	963	9.45					1053	1008	1796	1257.6	1288.6	0.0	504.0	18.6	23.0
26	63.0	49.0	918	9.01					954	972	1746	1143.0	1174.0	0.0	504.0	18.5	24.0
27	62.0	49.0	918	9.01					954	972	1746	1559.6	1590.6	0.0	504.0	13.4	19.0
28	62.0	49.0	918	9.01					1080	1224	1845	1469.5	1500.5	0.0	768.0	16.3	18.5
	64.0	50.0	1008	9.89					1152	1224	1980	1542.5	1573.5	0.0	768.0	16.6	
	60.5	48.5	864	8.48					1080	1116	1845	1574.6	1605.6	0.0	732.0	15.1	
	60.5	44.0	468	4.59					684	828	1332	0.0	676.8	0.0	732.0	23.3	
FOR THE MONTH															49018.5	51145.8	18.5

NOTE: FLOWRATES INTERPOLATED WHEN READINGS NOT TAKEN

MINNOVA INCORPORATED - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF AUGUST 1993

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C				FLOWS AT STAFF GAUGES			TREAT EFF DISC m3/day	W.Q.P. DISC m3/day	SITE SED POND DISC m3/day	MWSP DISC m3/day	DILUTION RATIO				
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	STAFF GAUGES											
									S-2 m3/hr	S-3 m3/hr	S-4 m3/hr					WQP & SSP @S-2	OVER ALL D/S @S-4			
1	60.5	40.5	234	2.30					594	684	1129	0.0	8.8	0.0	698.0	1619.0	37.3			
2	60.5	40.5	234	2.30					594	684	1129	0.0	8.8	0.0	504.0	1619.0	51.8			
3	60.5	40.5	234	2.30					504	540	927	0.0	8.8	0.0	504.0	1373.5	42.4			
4	60.0	40.5	234	2.30					504	540	927	0.0	8.8	0.0	384.0	1373.5	55.6			
5	60.0	40.5	234	2.30					504	540	864	0.0	8.8	0.0	384.0	1373.5	51.8			
6	61.0	40.5	252	2.47					480	558	864	0.0	8.8	0.0	384.0	1308.1	51.8			
7	61.0	41.0	252	2.47					456	551	852	0.0	8.8	0.0	336.0	1242.6	58.3			
8	62.0	41.0	252	2.47					432	535	840	0.0	8.8	0.0	288.0	1177.2	66.9			
9	63.0	41.0	270	2.65					432	535	828	0.0	8.8	0.0	240.0	1177.2	78.9			
10	64.5	41.0	270	2.65					468	540	900	0.0	8.8	0.0	624.0	1275.4	33.1			
11	58.5	41.0	270	2.65					432	540	900	0.0	8.8	0.0	624.0	1177.2	33.1			
12	58.5	41.0	270	2.65					396	540	864	0.0	8.8	0.0	624.0	1079.0	31.8			
13	58.5	41.0	270	2.65					360	540	828	0.0	8.8	0.0	624.0	980.8	30.4			
14	58.0	41.0	270	2.65					360	540	828	0.0	8.8	0.0	624.0	980.8	30.4			
15	57.5	41.0	270	2.65					360	540	828	0.0	8.8	0.0	624.0	980.8	30.4			
16	57.5	41.0	270	2.65					360	540	828	0.0	8.8	0.0	624.0	980.8	30.4			
17	57.0	41.0	270	2.65					360	540	828	0.0	8.8	0.0	624.0	980.8	30.4			
18	57.0	41.0	270	2.65					360	540	828	0.0	8.8	0.0	504.0	980.8	37.8			
19	57.0	41.0	270	2.65					396	530	828	0.0	8.8	0.0	504.0	1079.0	37.8			
20	56.5	41.0	270	2.65					396	530	828	0.0	8.8	0.0	504.0	1079.0	37.8			
21	56.0	41.0	270	2.65					396	520	810	0.0	8.8	0.0	484.0	1079.0	38.4			
22	56.5	41.0	270	2.65					396	520	810	0.0	8.8	0.0	464.0	1079.0	40.1			
23	55.0	41.0	270	2.65					306	510	792	0.0	8.8	0.0	444.0	833.5	41.0			
24	59.0	41.0	270	2.65					360	540	900	0.0	8.8	0.0	1248.0	980.8	16.2			
25	59.5	40.5	234	2.30					432	540	954	0.0	8.8	0.0	1248.0	1177.2	17.2			
26	58.5	40.0	188	1.94					324	540	900	0.0	8.8	0.0	768.0	882.6	26.8			
27	58.5	40.0	198	1.94					336	540	876	0.0	8.8	0.0	384.0	915.4	52.5			
28	58.5	40.5	234	2.30					348	540	852	0.0	8.8	0.0	384.0	948.1	51.1			
	58.5	40.5	234	2.30					360	535	828	0.0	8.8	0.0	384.0	980.8	49.6			
	59.0	41.0	270	2.65					360	535	828	0.0	8.8	0.0	384.0	980.8	49.6			
	59.0	40.5	234	2.30					360	558	828	0.0	8.8	0.0	384.0	980.8	49.6			
FOR THE MONTH															0.0	272.8	0.0	16802.0	1118.6	37.0

NOTE : FLOWRATES INTERPOLATED WHEN READINGS NOT TAKEN

MINNOVA INCORPORATED -- SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF SEPTEMBER 1993

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C				FLOWS AT STAFF GAUGES			TREAT EFF DISC m3/day	W.Q.P. DISC m3/day	SITE SED POND DISC m3/day	MWSP DISC m3/day	DILUTION RATIO	
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	STAFF GAUGES							WQP & SSP @S-2 @S-4	OVER ALL D/S @S-4
									S-2 m3/hr	S-3 m3/hr	S-4 m3/hr						
1	58.5	40.0	198	1.94					324	530	828	0.0	9.1	0.0	384.0	853.5	49.6
2	58.5	40.0	198	1.94					324	530	828	0.0	9.1	0.0	384.0	853.5	49.6
3	58.0	40.0	198	1.94					321	530	822	0.0	9.1	0.0	384.0	845.6	49.2
4	57.5	40.0	198	1.94					318	530	816	0.0	9.1	0.0	384.0	837.7	48.8
5	57.0	40.0	198	1.94					315	530	810	0.0	9.1	0.0	384.0	829.8	48.5
6	56.5	40.0	198	1.94					312	530	804	0.0	9.1	0.0	384.0	821.9	48.1
7	56.5	40.0	198	1.94					309	530	798	0.0	9.1	0.0	384.0	813.9	47.7
8	56.0	40.5	234	2.30					306	530	792	0.0	9.1	0.0	384.0	806.0	47.4
9	56.0	40.5	234	2.30					288	530	792	0.0	9.1	0.0	384.0	758.6	47.4
10	55.0	40.5	234	2.30					288	530	792	0.0	9.1	0.0	384.0	758.6	47.4
11	54.5	40.5	234	2.30					288	530	792	0.0	9.1	0.0	312.0	758.6	58.2
12	54.0	40.5	234	2.30					288	530	792	0.0	9.1	0.0	276.0	758.6	65.7
13	53.5	40.5	234	2.30					288	530	792	0.0	9.1	0.0	240.0	758.6	75.3
14	53.0	40.5	234	2.30					288	530	792	0.0	9.1	0.0	240.0	758.6	75.3
15	52.5	40.5	234	2.30					288	530	719	0.0	9.1	0.0	504.0	758.6	32.6
16	52.5	40.5	234	2.30					360	495	828	0.0	9.1	0.0	624.0	948.5	30.4
17	52.0	40.5	234	2.30					360	510	828	0.0	9.1	0.0	768.0	948.5	24.6
18	51.0	40.5	234	2.30					360	510	828	0.0	9.1	0.0	768.0	948.5	24.6
19	50.5	41.0	270	2.65					396	510	828	0.0	9.1	0.0	768.0	1043.4	24.6
20	50.0	40.5	234	2.30					396	510	792	0.0	9.1	0.0	960.0	1043.4	18.6
21	50.5	41.0	270	2.65					396	510	828	0.0	9.1	0.0	768.0	1043.4	24.6
22	49.5	41.0	270	2.65					396	510	828	0.0	9.1	0.0	960.0	1043.4	18.5
23	49.0	41.0	270	2.65					396	510	828	0.0	9.1	0.0	768.0	1043.4	24.6
24	49.0	41.0	270	2.65					387	510	810	0.0	9.1	0.0	702.0	1019.7	26.3
25	48.5	41.0	270	2.65					378	510	792	0.0	9.1	0.0	636.0	995.9	28.5
26	48.5	40.5	234	2.30					369	510	774	0.0	9.1	0.0	570.0	972.2	31.1
27	48.0	40.5	234	2.30					360	510	756	0.0	9.1	0.0	504.0	948.5	34.4
28	47.5	40.0	198	1.94					360	510	756	0.0	9.1	0.0	504.0	948.5	34.4
29	48.0	41.0	270	2.65					396	510	792	0.0	9.1	0.0	624.0	1043.4	29.0
30	47.5	40.5	234	2.30					396	510	792	0.0	9.1	0.0	768.0	1043.4	23.5
FOR THE MONTH												0.0	273.0	0.0	16104.0	900.2	34.2

NOTE : FLOWRATES INTERPOLATED WHEN READINGS NOT TAKEN
 NOTE : NF INDICATES " NO FLOW"

MINNOVA INCORPORATED - SAMATOSUM DIVISION WATER FLOWS FOR THE MONTH OF OCTOBER 1993

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C			FLOWS AT STAFF GAUGES			TREAT EFF DISC m3/day	W.Q.P. DISC m3/day	SITE SED POND DISC m3/day	MWSP DISC m3/day	DILUTION RATIO		
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	S-2 S-3 S-4						WQP & SSP @S-2 @S-4	OVER ALL D/S	
									m3/hr	m3/hr							m3/hr
1	47.0	40.5	234	2.30				324	510	782	0.0	9.4	0.0	768.0	829.8	23.5	
2	47.0	40.5	234	2.30				324	510	780	0.0	9.4	0.0	768.0	829.8	23.1	
3	46.5	40.5	234	2.30				324	510	768	0.0	9.4	0.0	768.0	829.8	22.7	
4	46.0	40.5	234	2.30				324	510	756	0.0	9.4	0.0	768.0	829.8	22.3	
5	45.5	41.0	252	2.47				360	523	774	0.0	9.4	0.0	768.0	922.1	22.9	
6	45.5	41.0	270	2.65				396	535	782	0.0	9.4	0.0	768.0	1014.4	23.5	
7	45.0	43.0	396	3.88				324	510	648	0.0	9.4	0.0	624.0	829.8	23.6	
8	45.0	42.5	360	3.53				324	525	780	0.0	9.4	0.0	597.0	829.8	29.9	
9	45.0	42.5	360	3.53				324	520	775	0.0	9.4	0.0	570.0	829.8	31.1	
10	45.0	42.0	324	3.18				324	515	770	0.0	9.4	0.0	544.0	829.8	32.4	
11	45.0	42.0	324	3.18				324	510	765	0.0	9.4	0.0	517.0	829.8	33.9	
12	45.0	41.0	270	2.65				324	504	761	0.0	9.4	0.0	490.0	829.8	35.6	
13	45.0	41.0	270	2.65				324	495	756	0.0	9.4	0.0	463.0	829.8	37.4	
14	44.5	41.0	270	2.65				324	500	748	0.0	9.4	0.0	410.0	829.8	41.8	
15	44.5	41.0	270	2.65				324	505	741	0.0	9.4	0.0	356.0	829.8	47.7	
16	44.0	40.5	234	2.30				324	510	733	0.0	9.4	0.0	303.0	829.8	55.3	
17	44.0	40.5	234	2.30				324	515	725	0.0	9.4	0.0	250.0	829.8	66.1	
18	43.5	40.5	234	2.30				324	520	717	0.0	9.4	0.0	197.0	829.8	82.4	
19	43.0	40.5	234	2.30				324	525	710	0.0	9.4	0.0	143.0	829.8	110.8	
20	43.0	40.5	234	2.30				324	530	702	0.0	9.4	0.0	96.0	829.8	158.9	
21	43.0	40.0	198	1.94				432	520	702	0.0	9.4	0.0	151.0	1106.7	104.1	
22	43.0	40.0	198	1.94				423	520	702	0.0	9.4	0.0	206.0	1083.6	77.2	
23	42.5	40.0	198	1.94				414	520	702	0.0	9.4	0.0	260.0	1060.5	61.5	
24	42.5	40.0	198	1.94				405	520	702	0.0	9.4	0.0	315.0	1037.5	50.9	
25	42.0	40.0	198	1.94				396	520	702	0.0	9.4	0.0	370.0	103.3	35.5	
26	42.0	40.0	198	1.94				366	517	720	0.0	9.4	0.0	375.0	937.5	44.0	
27	41.5	39.5	171	1.68				336	514	738	0.0	9.4	0.0	379.0	87.5	36.7	
28	41.0	39.5	171	1.68				306	510	756	0.0	9.4	0.0	384.0	783.6	45.1	
29	41.0	39.5	171	1.68				286	493	716	0.0	9.4	0.0	384.0	732.3	42.7	
30	41.0	39.5	171	1.68				266	475	675	0.0	9.4	0.0	384.0	681.1	40.2	
31	41.0	39.5	171	1.68				246	457	634	0.0	9.4	0.0	145.5	629.8	97.3	
FOR THE MONTH												0.0	290.2	163.6	13521.5	552.5	38.1

OTE : FLOWRATES INTERPOLATED WHEN READINGS NOT TAKEN

MINNOVA INCORPORATED - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF NOVEMBER 1993

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C			FLOWS AT STAFF GAUGES				TREAT EFF DISC	W.Q.P. DISC	SITE SED POND DISC	MWSP DISC	DILUTION RATIO	
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	S-2 S-3 S-4							WQP & SSP @S-2 @S-4	OVER ALL D/S
									m3/hr	m3/hr	m3/hr						
1	41.0	39.0	144	1.41				226	440	594	0.0	10.3	0.0	684.8	527.1	19.5	
2	40.5	39.0	144	1.41				288	440	594	0.0	10.3	0.0	696.0	672.0	18.2	
3	40.5	39.0	144	1.41				275	440	599	0.0	10.3	0.0	708.0	641.6	19.0	
4	40.5	39.0	144	1.41				261	440	604	0.0	10.3	0.0	719.0	608.9	18.9	
5	40.5	39.0	144	1.41				248	440	609	0.0	10.3	0.0	730.0	578.6	18.7	
6	40.5	39.0	144	1.41				234	440	613	0.0	10.3	0.0	741.0	545.8	18.6	
7	40.5	39.0	144	1.41				221	440	619	0.0	10.3	0.0	753.0	515.5	18.5	
8	40.0	39.0	144	1.41				207	440	619	0.0	10.3	0.0	764.0	482.7	18.2	
9	40.0	37.0	144	1.41				207	440	619	0.0	10.3	0.0	553.0	482.7	25.4	
10	40.0	37.0	144	1.41				207	440	619	0.0	10.3	0.0	342.4	482.7	41.1	
11	40.0	37.0	144	1.41				198	422	593	0.0	10.3	0.0	328.0	461.7	41.1	
12	40.0	37.0	144	1.41				190	404	568	0.0	10.3	0.0	315.0	443.0	40.9	
13	40.0	37.0	144	1.41				181	386	543	0.0	10.3	0.0	301.0	422.0	40.9	
14	40.0	37.0	144	1.41				173	368	518	0.0	10.3	0.0	288.0	403.3	40.7	
15	40.0	37.0	144	1.41				164	350	493	0.0	10.3	0.0	274.0	382.3	40.6	
16	40.0	37.0	144	1.41				156	332	467	0.0	10.3	0.0	261.0	363.6	40.3	
17	40.0	37.0	144	1.41				147	314	442	0.0	10.3	0.0	247.0	342.5	40.2	
18	40.0	37.0	144	1.41				139	296	417	0.0	10.3	0.0	234.0	323.8	40.0	
19	40.0	37.0	144	1.41				131	278	392	0.0	10.3	0.0	220.0	305.1	39.9	
20	40.0	37.0	144	1.41				122	260	367	0.0	10.3	0.0	207.0	284.1	39.5	
21	40.0	37.0	144	1.41				114	243	341	0.0	10.3	0.0	193.0	265.4	39.3	
22	40.0	37.0	144	1.41				105	225	316	0.0	10.3	0.0	180.0	244.4	38.9	
23	40.0	37.0	144	1.41				97	207	291	0.0	10.3	0.0	166.0	225.7	38.6	
24	40.0	37.0	144	1.41				88	189	266	0.0	10.3	0.0	153.0	204.6	38.1	
25	40.0	37.0	144	1.41				81	171	241	0.0	10.3	0.0	139.0	187.4	37.7	
26	40.0	37.0	144	1.41				81	171	241	0.0	0.0	0.0	126.0	N/A	44.9	
27	40.0	37.0	144	1.41				81	171	241	0.0	0.0	0.0	126.0	N/A	44.9	
28	40.0	37.0	144	1.41				81	171	241	0.0	0.0	0.0	126.0	N/A	44.9	
29	40.0	37.0	144	1.41				81	171	241	0.0	0.0	0.0	126.0	N/A	44.9	
30	40.0	37.0	144	1.41				81	171	241	0.0	0.0	0.0	126.0	N/A	44.9	
31	40.0	37.0	144	1.41				81	171	241	0.0	0.0	0.0	126.0	N/A	44.9	
FOR THE MONTH											0.0	256.8	0.0	10827.2	453.5	28.3	

NOTE: FLOWRATES INTERPOLATED WHEN READINGS NOT TAKEN

NOTE : FLOWRATES INTERPOLATED WHEN READINGS NOT TAKEN

MINNOVA INCORPORATED - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF DECEMBER 1993

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C				FLOWS AT STAFF GAUGES			TREAT EFF DISC m3/day	W.Q.P. DISC m3/day	SITE SED POND DISC m3/day	MWSP DISC m3/day	DILUTION RATIO	
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	S-2 S-3 S-4							WQP & SSP @S-2	OVER ALL D/S @S-4
									m3/hr	m3/hr	m3/hr						
1								75	171	241	0.0	2.2	0.0	145.5	832.3	38.2	
2								75	171	241	0.0	2.2	0.0	145.5	832.3	38.2	
3								75	171	241	0.0	2.2	0.0	145.5	832.3	38.2	
4								75	171	241	0.0	2.2	0.0	145.5	832.3	38.2	
5								75	171	241	0.0	2.2	0.0	145.5	832.3	38.2	
6								75	171	241	0.0	2.2	0.0	145.5	832.3	38.2	
7								75	171	241	0.0	2.2	0.0	145.5	832.3	38.2	
8								75	171	241	0.0	2.2	0.0	145.5	832.3	38.2	
9								75	171	241	0.0	2.2	0.0	145.5	832.3	38.2	
10								75	171	241	0.0	2.2	0.0	145.5	832.3	38.2	
11								75	171	241	0.0	2.2	0.0	145.5	832.3	38.2	
12								75	171	241	0.0	2.2	0.0	145.5	832.3	38.2	
13								75	171	241	0.0	2.2	0.0	145.5	832.3	38.2	
14								75	171	241	0.0	2.2	0.0	145.5	832.3	38.2	
15								75	171	241	0.0	2.2	0.0	145.5	832.3	38.2	
16								75	171	241	0.0	2.2	0.0	145.5	832.3	38.2	
17								75	171	241	0.0	2.2	0.0	145.5	832.3	38.2	
18								75	171	241	0.0	2.2	0.0	145.5	832.3	38.2	
19								75	171	241	0.0	2.2	0.0	145.5	832.3	38.2	
20								75	171	241	0.0	2.2	0.0	145.5	832.3	38.2	
21								75	171	241	0.0	2.2	0.0	145.5	832.3	38.2	
22								75	171	241	0.0	2.2	0.0	145.5	832.3	38.2	
23								75	171	241	0.0	2.2	0.0	145.5	832.3	38.2	
24								75	171	241	0.0	2.2	0.0	145.5	832.3	38.2	
25								75	171	241	0.0	2.2	0.0	145.5	832.3	38.2	
26								75	171	241	0.0	2.2	0.0	145.5	832.3	38.2	
27								75	171	241	0.0	2.2	0.0	145.5	832.3	38.2	
28								75	171	241	0.0	2.2	0.0	145.5	832.3	38.2	
29								75	171	241	0.0	2.2	0.0	145.5	832.3	38.2	
30								75	171	241	0.0	2.2	0.0	145.5	832.3	38.2	
31								75	171	241	0.0	2.2	0.0	145.5	832.3	38.2	
FOR THE MONTH												0.0	64.8	0.0	4510.5	860.1	36.9

NOTE : FLOWRATES INTERPOLATED WHEN READINGS NOT TAKEN

METALL CORP - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF APRIL 1994

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C				FLOWS AT STAFF GAUGES			TREAT EFF DISC m3/day	W.Q.P. DISC m3/day	SITE SED POND DISC m3/day	MWSP DISC m3/day	DILUTION RATIO	
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	S-2 S-3 S-4								
									m3/hr	m3/hr	m3/hr					WQP & SSP @S-2	OVER ALL D/S @S-4
1	74.0	39.0	144	1.41					432	864	1845	0.0	121.6	0.0	1554.0	84.3	25.4
2	74.0	39.0	144	1.41					432	864	1845	0.0	121.6	0.0	1554.0	84.3	25.4
3	74.0	39.0	144	1.41					432	864	1845	0.0	121.6	0.0	1554.0	84.3	25.4
4	74.0	39.0	144	1.41					432	864	1845	0.0	121.6	0.0	1554.0	84.3	25.4
5	74.0	39.0	144	1.41					432	864	1845	0.0	121.6	0.0	1553.8	84.3	25.4
6	74.0	39.0	144	1.41					432	864	1845	0.0	121.6	0.0	2400.0	84.3	16.6
7	74.0	39.0	144	1.41					432	864	1845	0.0	121.6	0.0	2640.0	84.3	15.0
8	74.0	39.0	144	1.41					432	864	1845	0.0	121.6	0.0	2640.0	84.3	15.0
9	74.0	39.0	144	1.41					432	864	1845	0.0	121.6	0.0	1820.0	84.3	20.7
10	74.0	39.0	144	1.41					432	860	1808	0.0	108.9	0.0	1680.0	94.2	23.3
11	74.0	39.0	144	1.41					432	856	1771	0.0	96.0	0.0	1680.0	107.0	22.9
12	74.0	39.0	144	1.41					432	852	1734	0.0	83.5	0.0	2640.0	123.2	14.3
13	74.0	39.0	144	1.41					432	848	1697	0.0	70.8	0.0	2640.0	145.4	14.0
14	74.0	39.0	144	1.41					432	844	1660	0.0	58.0	0.0	2640.0	177.8	13.8
15	74.0	39.0	144	1.41					432	840	1623	0.0	45.3	0.0	2640.0	227.9	13.5
16	74.0	39.0	144	1.41					432	836	1586	0.0	32.6	0.0	2640.0	317.0	13.2
17	74.0	39.0	144	1.41					432	832	1549	0.0	19.9	0.0	2640.0	520.0	13.0
18	74.0	39.0	144	1.41					432	828	1512	0.0	7.2	0.0	1920.0	1439.0	17.8
19	76.0	39.5	171	1.68					549	913	1696	0.0	10.8	0.0	1820.0	1219.0	20.1
20	78.0	40.0	198	1.94					666	999	1881	0.0	14.4	0.0	1680.0	1109.0	25.6
21	80.0	40.5	225	2.21					783	1084	2065	0.0	14.4	0.0	1680.0	1304.0	28.2
22	82.0	41.0	270	2.65					900	1170	2250	0.0	14.4	0.0	2400.0	1499.0	21.4
23	82.0	41.0	270	2.65					900	1104	2160	0.0	14.4	0.0	2760.0	1499.0	17.7
24	82.0	41.0	270	2.65					900	1038	2070	0.0	14.4	0.0	2400.0	1499.0	19.6
25	82.0	41.0	270	2.65					900	972	1980	0.0	14.9	0.0	2104.0	1448.7	21.4
26	82.0	42.0	324	3.18					900	972	1881	0.0	15.0	0.0	1808.0	1439.0	23.8
27	82.0	43.0	396	3.88					900	972	1782	0.0	15.9	0.0	1512.0	1357.5	27.0
28	82.0	44.0	468	4.59					900	972	1683	0.0	16.3	0.0	1284.0	1324.2	30.1
29	82.0	44.0	468	4.59					900	972	1584	0.0	16.8	0.0	1056.0	1284.7	34.4
30	82.0	44.0	468	4.59					900	972	1584	0.0	16.8	0.0	1340.0	1284.7	27.0
31												0.0	0.0	0.0	0.0	N/A	19.9
FOR THE MONTH												0.0	1795.1	0.0	60434	238.0	19.9

NOTE : FLOWRATES INTERPOLATED WHEN READINGS NOT TAKEN

NOTE : FLOWRATES FOR SF # 2 & # 4 ARE ESTIMATES DUE TO ICE BUILD UP AT STAFF GAUGES

METALL CORP - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF MAY 1994

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C				STAFF GAUGES			TREAT EFF DISC m3/day	W.Q.P. DISC m3/day	SITE SED POND DISC m3/day	MWSP DISC m3/day	DILUTION RATIO	
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	STAFF GAUGES								
									S-2 m3/hr	S-3 m3/hr	S-4 m3/hr					WQP & SSP @S-2	OVER ALL D/S @S-4
1	85.0	44.0	468	4.59					900	972	1584	0.0	14.4	0.0	1584.0	1489.0	22.8
2	85.5	46.0	630	6.18					946	989	1653	0.0	15.2	0.0	1561.0	1492.7	24.2
3	86.0	48.0	810	7.95					991	1006	1723	0.0	15.9	0.0	1537.0	1494.8	25.6
4	86.5	50.0	1008	9.89					1037	1022	1793	0.0	16.7	0.0	1514.0	1489.3	27.1
5	87.0	52.0	1242	12.18					1082	1039	1862	0.0	17.4	0.0	1490.0	1491.4	28.6
6	88.0	54.0	1242	12.18					1126	1056	1932	0.0	18.2	0.0	1467.0	1486.5	30.2
7	88.5	54.0	1242	12.18					1174	1073	2002	0.0	18.9	0.0	1444.0	1489.8	31.8
8	90.0	54.0	1242	12.18					1219	1090	2071	0.0	19.7	0.0	1420.0	1484.1	33.5
9	91.0	54.0	1242	12.18					1265	1106	2141	0.0	20.4	0.0	1397.0	1487.2	35.3
10	92.0	54.0	1242	12.18					1310	1123	2210	0.0	21.2	0.0	1372.0	1482.0	37.1
11	92.0	54.0	1242	12.18					1356	1140	2280	0.0	21.9	0.0	1350.0	1485.0	38.9
12	91.0	53.0	1332	13.07					1402	1157	2350	0.0	22.8	0.0	1327.0	1474.8	40.8
13	91.0	52.0	1242	12.18					1447	1174	2419	0.0	23.4	0.0	1303.0	1483.1	42.8
14	91.5	52.0	1242	12.18					1493	1190	2489	0.0	24.2	0.0	1280.0	1479.7	44.8
15	90.0	52.0	1242	12.18					1538	1207	2558	0.0	24.9	0.0	1256.0	1481.4	46.9
16	90.0	52.0	1242	12.18					1584	1224	2628	0.0	25.7	0.0	1233.0	1478.2	49.1
17	90.0	52.0	1242	12.18				7.0	1546	1207	2558	0.0	23.8	0.0	1128.0	1558.0	52.3
18	90.0	52.0	1242	12.18				7.0	1507	1190	2489	0.0	22.0	0.0	1022.0	1643.0	56.2
19	88.5	52.0	1242	12.18					1469	1173	2419	0.0	20.0	0.0	917.0	1761.8	61.0
20	88.0	51.5	1188	11.65					1430	1157	2351	0.0	18.4	0.0	811.0	1864.2	67.0
21	87.5	51.0	1134	11.12					1392	1140	2280	0.0	16.6	0.0	706.0	2011.5	74.7
22	87.0	50.5	1071	10.51					1354	1123	2210	0.0	14.8	0.0	600.0	2194.7	85.3
23	86.5	50.0	1008	9.89					1315	1106	2141	0.0	12.9	0.0	600.0	2445.5	82.8
24	86.0	49.5	963	9.45					1277	1090	2071	0.0	11.1	0.0	600.0	2760.1	80.3
25	85.5	49.5	963	9.45					1238	1073	2001	0.0	9.3	0.0	570.0	3193.8	81.9
26	85.0	49.0	918	9.01					1200	1056	1932	0.0	7.5	0.0	570.0	3854.4	79.3
27	85.5	48.5	864	8.48					1162	1039	1862	0.0	7.5	0.0	570.0	3732.3	76.4
28	86.0	48.0	810	7.95					1123	1022	1793	0.0	7.5	0.0	570.0	3607.0	73.5
29	86.5	47.5	765	7.50					1085	1006	1723	0.0	7.5	0.0	500.0	3484.9	80.5
30	87.0	47.5	765	7.50					1046	989	1654	0.0	7.5	0.0	430.0	3359.6	89.7
31	87.0	47.0	720	7.06					1008	972	1584	0.0	7.5	0.0	360.0	3237.6	102.5
FOR THE MONTH												0.0	514.6	0.0	32489.0	1818.9	46.1

NOTE : FLOWRATES INTERPOLATED WHEN READINGS NOT TAKEN

METALL CORP - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF JUNE 1994

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C				FLOWS AT STAFF GAUGES			TREAT EFF DISC m3/day	W.Q.P. DISC m3/day	SITE SED POND DISC m3/day	MWSP DISC m3/day	DILUTION RATIO			
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	S-2 S-3 S-4							WQP & SSP @S-2 m3/day	OVER ALL D/S @S-4 m3/day		
									m3/hr	m3/hr	m3/hr								
1	87.0	47.0	720	7.06					954	972	1584	0.0	41.6	0.0	1404.0	549.4	25.3		
2	87.0	47.5	765	7.50					962	962	1665	0.0	39.5	0.0	1404.0	583.5	26.7		
3	86.5	48.0	810	7.95					969	951	1746	0.0	37.5	0.0	1214.0	619.2	32.5		
4	86.5	48.5	864	8.48					977	941	1827	0.0	35.4	0.0	1025.0	661.4	40.4		
5	86.0	49.0	918	9.01					985	931	1908	0.0	33.4	0.0	835.0	706.8	51.7		
6	86.0	49.5	963	9.45					993	921	1989	0.0	31.3	0.0	646.0	760.4	69.5		
7	85.5	50.0	1008	9.89					1000	910	2070	0.0	29.3	0.0	456.0	818.1	101.4		
8	85.0	50.5	1071	10.51	10.0			10.0	1008	900	2151	0.0	27.2	0.0	456.0	888.4	105.8		
9	85.0	50.5	1071	10.51					994	900	2120	0.0	25.2	0.0	1200.0	945.7	40.5		
10	85.0	50.0	1008	9.89					979	900	2090	0.0	23.2	0.0	528.0	1013.9	90.0		
11	84.5	50.0	1008	9.89					965	900	2059	0.0	21.1	0.0	532.0	1096.6	88.3		
12	84.0	50.5	1071	10.51	10.0			10.0	951	900	2029	0.0	19.0	0.0	535.0	1197.7	86.9		
13	83.0	51.0	1134	11.12	9.0				936	900	1998	0.0	17.0	0.0	539.0	1321.2	85.2		
14	83.0	51.0	1134	11.12					922	900	1967	0.0	14.9	0.0	543.0	1480.1	83.6		
15	82.5	51.0	1134	11.12					907	900	1937	0.0	12.9	0.0	547.0	1687.8	82.0		
16	82.0	51.0	1134	11.12					893	900	1906	0.0	10.8	0.0	550.0	1977.9	80.6		
17	82.0	51.0	1134	11.12					879	900	1876	0.0	8.8	0.0	553.6	2401.7	79.1		
18	81.5	51.0	1134	11.12					864	900	1845	0.0	8.8	0.0	578.0	2360.7	74.5		
19	81.5	51.0	1134	11.12					850	900	1814	0.0	8.8	0.0	601.0	2322.5	70.4		
20	81.0	51.0	1134	11.12					835	900	1784	0.0	8.8	0.0	625.0	2281.5	66.6		
21	80.5	50.5	1071	10.51					821	900	1753	0.0	8.8	0.0	649.0	2243.2	63.0		
22	80.0	50.5	1071	10.51					807	900	1723	0.0	8.8	0.0	672.0	2204.9	59.7		
23	79.0	50.5	1071	10.51	12.0			12.0	782	900	1692	0.0	8.8	0.0	696.0	2163.9	56.6		
24	78.0	50.5	1071	10.51					807	905	1700	0.0	8.8	0.0	720.0	2204.9	55.0		
25	77.5	50.5	1071	10.51					823	910	1707	0.0	8.8	0.0	743.0	2248.7	53.5		
26	76.5	50.5	1071	10.51					838	915	1715	0.0	8.8	0.0	767.0	2289.7	52.1		
27	76.0	50.5	1071	10.51					854	921	1723	0.0	8.8	0.0	767.0	2393.4	52.3		
28	75.0	50.5	1071	10.51					869	926	1731	0.0	8.8	0.0	767.0	2374.4	52.6		
29	74.0	50.5	1071	10.51					885	931	1738	0.0	8.8	0.0	767.0	2418.1	52.8		
30	73.5	50.5	1071	10.51					890	936	1746	0.0	8.8	0.0	767.0	2431.8	53.0		
31																			
FOR THE MONTH															0.0	542.3	22086.6	1203.2	58.0

NOTE : FLOWRATES INTERPOLATED WHEN READINGS NOT TAKEN

MINNOVA INCORPORATED - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF JULY 1994

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C				FLOWS AT STAFF GAUGES				TREAT EFF DISC m3/day	W.Q.P. DISC m3/day	SITE SED POND DISC m3/day	MWSP DISC m3/day	DILUTION RATIO	
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	S-2 S-3 S-4								WQP & SSP @S-2	OVER ALL D/S @S-4
									m3/hr	m3/hr	m3/hr	m3/hr						
1	73.5	50.5	1071	10.51					890	936	1746	0.0	5.1	0.0	767.0	4154.6	53.3	
2	72.5	51.0	1134	11.12					910	882	1755	0.0	5.1	0.0	723.0	4248.0	56.8	
3	71.5	51.0	1134	11.12					929	828	1764	0.0	5.1	0.0	679.0	4396.7	60.9	
4	70.5	51.0	1134	11.12					949	864	1773	0.0	5.1	0.0	636.0	4430.1	65.4	
5	70.0	51.0	1134	11.12					969	900	1782	0.0	5.1	0.0	592.0	4523.5	70.6	
6	69.5	51.0	1134	11.12					988	936	1791	0.0	5.1	0.0	548.0	4612.2	76.7	
7	69.0	50.5	1071	10.51					1008	972	1800	0.0	5.1	0.0	504.0	4705.6	83.8	
8	68.0	50.5	1071	10.51					981	936	1760	0.0	5.1	0.0	570.0	4579.5	72.4	
9	66.0	50.0	1008	9.89					954	900	1719	0.0	5.1	0.0	636.0	4453.5	63.3	
10	64.0	50.0	1008	9.89					927	864	1679	0.0	5.1	0.0	702.0	4327.4	56.0	
11	63.0	49.5	963	9.45					900	828	1638	0.0	5.1	0.0	768.0	4201.3	49.8	
12	63.0	49.5	963	9.45					900	828	1638	0.0	5.1	0.0	816.0	4201.3	46.9	
13	63.0	49.5	963	9.45					900	828	1638	0.0	5.1	0.0	864.0	4201.3	44.2	
14	63.0	41.0	270	2.65					684	828	1251	0.0	5.1	0.0	912.0	3192.8	31.7	
15	61.0	40.5	234	2.30					306	530	864	0.0	5.1	0.0	960.0	1427.8	20.5	
16	61.0	40.5	234	2.30					306	530	828	0.0	3.1	0.0	960.0	2406.9	19.6	
17	61.0	40.5	234	2.30					306	530	828	0.0	3.1	0.0	960.0	2406.9	19.6	
18	61.0	40.5	234	2.30					306	530	828	0.0	3.1	0.0	768.0	2406.9	24.8	
19	60.5	40.5	234	2.30					306	530	828	0.0	3.1	0.0	624.0	2406.9	30.7	
20	60.5	40.5	234	2.30					306	530	828	0.0	3.1	0.0	565.0	2406.9	34.0	
21	60.5	40.5	234	2.30					306	530	828	0.0	3.1	0.0	507.0	2406.9	38.0	
22	60.5	40.5	234	2.30					306	530	828	0.0	3.1	0.0	448.0	2406.9	43.1	
23	60.0	40.5	234	2.30					306	530	828	0.0	3.1	0.0	389.0	2406.9	49.7	
24	60.0	40.5	234	2.30					306	530	828	0.0	3.1	0.0	331.0	2406.9	58.5	
25	60.0	40.5	234	2.30					306	530	828	0.0	3.1	0.0	272.0	2406.9	71.2	
26	60.0	40.5	234	2.30					306	530	828	0.0	3.1	0.0	213.0	2406.9	91.0	
27	59.5	40.5	234	2.30					306	530	828	0.0	3.1	0.0	155.0	2406.9	124.7	
28	59.5	40.5	234	2.30					306	530	828	0.0	3.1	0.0	96.0	2406.9	199.6	
29	59.5	40.5	234	2.30					306	530	828	0.0	3.1	0.0	96.0	2406.9	199.6	
30	59.5	40.5	234	2.30					306	530	828	0.0	3.1	0.0	96.0	2406.9	199.6	
31	59.5	40.5	234	2.30					306	530	828	0.0	3.1	0.0	96.0	2406.9	199.6	
FOR THE MONTH												0.0	125.9	0.0	17253.0	3447.6	51.3	

NOTE : FLOWRATES INTERPOLATED WHEN READINGS NOT TAKEN
 NOTE : FLOWRATES FOR SF # 2 & # 4 ARE ESTIMATES DUE TO ICE BUILD UP AT STAFF GAUGES

MINNOVA INCORPORATED - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF AUGUST 1994

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C				FLOWS AT STAFF GAUGES			TREAT EFF DISC m3/day	W.Q.P. DISC m3/day	SITE SED POND DISC m3/day	MWSP DISC m3/day	DILUTION RATIO	
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	STAFF GAUGES								
									S-2 m3/hr	S-3 m3/hr	S-4 m3/hr					WQP & SSP @S-2	OVER ALL D/S @S-4
1	58.0	40.5	234	2.30					299	510	734	0.0	3.1	0.0	576.0	2351.8	29.4
2	57.5	40.5	234	2.30					295	500	688	0.0	3.1	0.0	384.0	2320.3	41.7
3	57.0	40.5	234	2.30					292	490	641	0.0	3.1	0.0	192.0	2296.7	77.9
4	56.0	40.5	234	2.30					288	480	594	0.0	5.0	0.0	192.0	1395.4	71.4
5	56.0	40.5	234	2.30					288	477	594	0.0	5.0	0.0	192.0	1395.4	71.4
6	56.0	40.5	234	2.30					288	474	594	0.0	5.0	0.0	192.0	1395.4	71.4
7	56.0	40.5	234	2.30					288	471	594	0.0	5.0	0.0	192.0	1395.4	71.4
8	56.0	40.5	234	2.30					288	468	594	0.0	5.0	0.0	192.0	1395.4	71.4
9	56.0	40.5	234	2.30					288	465	594	0.0	5.0	0.0	192.0	1395.4	71.4
10	56.0	40.5	234	2.30					288	462	594	0.0	5.0	0.0	192.0	1395.4	71.4
11	56.0	40.5	234	2.30					288	459	594	0.0	5.0	0.0	192.0	1389.7	71.4
12	56.0	40.5	234	2.30					288	455	594	0.0	5.2	0.0	225.0	1325.7	60.9
13	56.0	40.5	234	2.30					288	453	594	0.0	5.5	0.0	225.0	1264.9	60.9
14	56.0	40.5	234	2.30					288	449	594	0.0	5.7	0.0	225.0	1211.6	60.8
15	56.0	40.5	234	2.30					288	446	594	0.0	5.9	0.0	225.0	1162.6	60.7
16	56.0	40.5	234	2.30					288	443	594	0.0	6.2	0.0	110.0	1117.4	121.7
17	56.0	40.5	234	2.30					288	440	594	0.0	6.4	0.0	140.0	1074.0	96.4
18	55.5	40.5	234	2.30					288	437	594	0.0	6.7	0.0	160.0	1035.3	84.5
19	55.5	40.5	234	2.30					288	434	594	0.0	6.5	0.0	180.0	1059.1	75.4
20	55.0	40.5	234	2.30					288	431	594	0.0	6.4	0.0	200.0	1084.1	68.1
21	55.0	40.5	234	2.30					288	428	594	0.0	6.2	0.0	230.0	1110.3	59.4
22	54.5	40.5	234	2.30					288	425	594	0.0	6.1	0.0	250.0	1137.7	54.7
23	54.5	40.5	234	2.30					288	421	594	0.0	5.9	0.0	270.0	1166.6	50.7
24	54.0	40.5	234	2.30					288	419	594	0.0	5.8	0.0	290.0	1194.8	47.2
25	54.0	40.5	234	2.30					288	415	594	0.0	5.6	0.0	320.0	1226.7	42.8
26	53.5	40.5	234	2.30					288	412	594	0.0	5.5	0.0	340.0	1260.3	40.3
27	53.5	40.5	234	2.30					288	409	594	0.0	5.3	0.0	360.0	1295.8	38.0
28	50.0	40.5	234	2.30					288	406	594	0.0	5.2	0.0	380.0	1333.4	36.0
29	49.0	40.5	234	2.30					288	403	594	0.0	5.0	0.0	430.0	1373.2	31.8
30	50.0	40.5	234	2.30					288	400	594	0.0	4.9	0.0	450.0	1415.4	30.3
31	50.0	40.5	234	2.30					288	400	594	0.0	4.9	0.0	450.0	1415.4	30.3
FOR THE MONTH												0.0	163.7	0.0	8148.0	1311.6	53.0

NOTE : FLOWRATES INTERPOLATED WHEN READINGS NOT TAKEN

MINNOVA INCORPORATED - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF SEPTEMBER 1994

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C				FLOWS AT STAFF GAUGES			TREAT EFF DISC m3/day	W.Q.P. DISC m3/day	SITE SED POND DISC m3/day	MWSP DISC m3/day	DILUTION RATIO	
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	S-2 S-3 S-4								
									m3/hr	m3/hr	m3/hr					WQP & SSP @S-2	OVER ALL D/S @S-4
1	50.0	39.0	234	2.30					288	400	594	0.0	5.0	0.0	425.0	1381.4	32.2
2	50.0	39.0	234	2.30					288	400	594	0.0	5.0	0.0	425.0	1381.4	32.2
3	50.0	39.0	234	2.30					288	400	594	0.0	5.0	0.0	425.0	1381.4	32.2
4	50.0	39.0	234	2.30					288	400	594	0.0	5.0	0.0	425.0	1381.4	32.2
5	50.0	39.0	200	1.96					288	400	594	0.0	5.0	0.0	425.0	1381.4	32.2
6	50.0	39.0	200	1.96					288	400	594	0.0	5.0	0.0	425.0	1381.4	32.2
7	50.0	39.0	200	1.96					288	400	594	0.0	5.0	0.0	425.0	1381.4	32.2
8	50.0	39.0	200	1.96					288	400	594	0.0	5.0	0.0	400.0	1381.4	34.2
9	50.0	39.0	200	1.96					288	400	594	0.0	5.0	0.0	400.0	1381.4	34.2
10	50.0	39.0	175	1.72					288	400	594	0.0	5.0	0.0	400.0	1381.4	34.2
11	50.0	39.0	175	1.72					288	420	594	0.0	5.0	0.0	400.0	1381.4	34.2
12	50.0	39.0	175	1.72					288	420	594	0.0	5.0	0.0	400.0	1381.4	34.2
13	50.0	39.0	175	1.72					288	420	594	0.0	5.0	0.0	400.0	1381.4	34.2
14	50.0	39.0	175	1.72					288	420	594	0.0	5.0	0.0	300.0	1381.4	45.7
15	50.0	39.0	175	1.72					288	420	594	0.0	5.0	0.0	300.0	1381.4	45.7
16	50.0	39.0	175	1.72					288	420	594	0.0	5.0	0.0	300.0	1381.4	45.7
17	50.0	39.0	175	1.72					288	440	594	0.0	5.0	0.0	300.0	1381.4	45.7
18	50.0	39.0	160	1.57					288	440	594	0.0	5.0	0.0	300.0	1381.4	45.7
19	50.0	39.0	160	1.57					288	440	594	0.0	5.0	0.0	300.0	1381.4	45.7
20	50.0	39.0	160	1.57					288	440	594	0.0	7.0	0.0	325.0	986.4	41.9
21	50.0	39.0	160	1.57					288	440	594	0.0	7.0	0.0	200.0	986.4	67.9
22	50.0	39.0	160	1.57					288	440	594	0.0	7.0	0.0	200.0	986.4	67.9
23	50.0	39.0	160	1.57					288	440	594	0.0	7.0	0.0	200.0	986.4	67.9
24	50.0	39.0	144	1.41					288	460	594	0.0	7.0	0.0	200.0	986.4	67.9
25	50.0	39.0	144	1.41					288	460	594	0.0	7.0	0.0	200.0	986.4	67.9
26	50.0	39.0	144	1.41					288	460	594	0.0	10.0	0.0	200.0	690.2	66.9
27	50.0	39.0	144	1.41					288	460	594	0.0	10.0	0.0	100.0	690.2	128.6
28	50.0	39.0	144	1.41					288	460	594	0.0	10.0	0.0	100.0	690.2	128.6
29	50.0	39.0	144	1.41					288	460	594	0.0	10.0	0.0	100.0	690.2	128.6
30	50.0	39.0	144	1.41					288	460	594	0.0	10.0	0.0	100.0	690.2	128.6
FOR THE MONTH												0.0	184.0	0.0	9075.0	1126.0	45.2

NOTE : FLOWRATES INTERPOLATED WHEN READINGS NOT TAKEN

MINNOVA INCORPORATED - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF OCTOBER 1994

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C				FLOWS AT STAFF GAUGES			TREAT EFF DISC m3/day	W.Q.P. DISC m3/day	SITE SED POND DISC m3/day	MWSP DISC m3/day	DILUTION RATIO WQP & SSP @S-2 @S-4	
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	STAFF GAUGES								
									S-2 m3/hr	S-3 m3/hr	S-4 m3/hr						
1	50.0	39.0	144	1.41					288	460	594	0.0	10.0	0.0	104.6	690.2	123.4
2	48.8	39.0	144	1.41					288	460	594	0.0	10.0	0.0	104.6	690.2	123.4
3	48.5	39.0	144	1.41					288	460	594	0.0	10.0	0.0	104.6	690.2	123.4
4	48.2	39.0	144	1.41					288	460	594	0.0	10.0	0.0	104.6	690.2	123.4
5	47.9	39.0	144	1.41					288	460	594	0.0	10.0	0.0	104.6	690.2	123.4
6	47.6	39.0	144	1.41					288	460	594	0.0	10.0	0.0	104.6	690.2	123.4
7	47.3	39.0	144	1.41					288	460	594	0.0	10.0	0.0	104.6	690.2	123.4
8	47.0	39.0	144	1.41					288	460	594	0.0	10.0	0.0	104.6	690.2	123.4
9	46.7	39.0	144	1.41					288	460	594	0.0	10.0	0.0	104.6	690.2	123.4
10	46.3	39.0	144	1.41					288	460	594	0.0	10.0	0.0	104.6	690.2	123.4
11	46.0	39.0	144	1.41					288	460	594	0.0	10.0	0.0	104.6	690.2	123.4
12	45.7	39.0	144	1.41					288	460	594	0.0	10.0	0.0	104.6	690.2	123.4
13	45.4	39.0	144	1.41					288	460	594	0.0	10.0	0.0	104.6	690.2	123.4
14	45.1	39.0	144	1.41					288	460	594	0.0	10.0	0.0	104.6	690.2	123.4
15	44.8	39.0	144	1.41					288	460	594	0.0	10.0	0.0	109.0	690.2	118.8
16	44.5	39.0	144	1.41					288	460	594	0.0	10.0	0.0	113.0	690.2	114.9
17	44.2	39.0	144	1.41					319	420	486	0.0	10.0	0.0	118.0	764.6	90.1
18	43.9	39.0	144	1.41					319	420	486	0.0	10.0	0.0	122.0	764.6	87.4
19	43.6	39.0	144	1.41					319	420	486	0.0	10.0	0.0	131.0	764.6	81.7
20	43.0	39.0	144	1.41					319	420	486	0.0	10.0	0.0	135.0	764.6	79.4
21	42.7	39.0	144	1.41					319	420	486	0.0	10.0	0.0	140.0	764.6	76.8
22	42.4	39.0	144	1.41					319	420	486	0.0	10.0	0.0	144.0	764.6	74.7
23	42.1	39.0	144	1.41					319	420	486	0.0	10.0	0.0	148.0	764.6	72.8
24	41.8	39.0	144	1.41					319	420	486	0.0	10.0	0.0	153.0	764.6	70.6
25	41.5	39.0	144	1.41					319	420	486	0.0	10.0	0.0	157.0	764.6	68.8
26	41.2	39.0	144	1.41					319	420	486	0.0	10.0	0.0	161.0	764.6	67.2
27	40.9	39.0	144	1.41					319	420	486	0.0	10.0	0.0	166.0	764.6	65.3
28	40.6	39.0	144	1.41					319	420	486	0.0	10.0	0.0	170.0	764.6	63.8
29	40.3	39.0	144	1.41					319	420	486	0.0	10.0	0.0	170.0	764.6	63.8
30	40.0	38.0	118	1.16					319	420	486	0.0	10.0	0.0	170.0	764.6	63.8
31	40.0	38.0	118	1.16					319	420	486	0.0	10.0	0.0	170.0	764.6	63.8
FOR THE MONTH												0.0	310.0	0.0	3941.3	726.2	93.8

NOTE : FLOWRATES INTERPOLATED WHEN READINGS NOT TAKEN

METALL MINING CORP - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF APRIL 1995

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C				FLOWS AT STAFF GAUGES			TREAT EFF DISC m3/day	W.Q.P. DISC m3/day	SITE SED POND DISC m3/day	MWSP DISC m3/day	DILUTION RATIO	
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	STAFF GAUGES							WQP & SSP @S-2	OVER ALL D/S @S-4
									S-2 m3/hr	S-3 m3/hr	S-4 m3/hr						
1	54.8	38.8	139	1.36					360		1260	0.0	9.0	0.0	1056.0	959.0	27.4
2	54.8	38.8	139	1.36					360		1260	0.0	9.0	0.0	1056.0	959.0	27.4
3	54.8	38.8	139	1.36					360		1260	0.0	9.0	140.5	1056.0	56.8	24.1
4	54.8	38.8	139	1.36					360		1260	0.0	9.0	140.5	1056.0	56.8	24.1
5	54.8	38.8	139	1.36					360		1260	0.0	9.0	140.5	1056.0	56.8	24.1
6	54.8	38.8	139	1.36	2.9				360		1260	0.0	9.0	59.3	1056.0	125.5	25.9
7	54.8	38.8	139	1.36					360		1260	0.0	9.0	78.3	1056.0	97.9	25.4
8	54.8	38.8	139	1.36					396		1548	0.0	9.0	171.6	1680.0	51.6	19.0
9	54.8	38.8	139	1.36					396		1548	0.0	9.0	171.6	1680.0	51.6	19.0
10	57.0	39.0	144	1.41					396		1377	0.0	9.0	140.5	1680.0	62.6	17.1
11	57.5	39.5	171	1.68					396		1314	0.0	9.0	100.6	1680.0	85.7	16.6
12	57.0	39.0	144	1.41					360		1260	0.0	9.0	51.0	1320.0	143.0	20.9
13	58.0	39.0	144	1.41					360		1188	0.0	9.0	36.5	1500.0	188.8	17.4
14	58.3	39.5	171	1.68					324		1116	0.0	9.0	15.7	1200.0	313.3	20.9
15	58.3	39.5	171	1.68					324		1116	0.0	9.0	15.7	1200.0	313.3	20.9
16	58.3	39.5	171	1.68					324		1116	0.0	9.0	15.7	1200.0	313.3	20.9
17	58.3	39.0	144	1.41					306		1044	0.0	9.0	9.0	1200.0	406.8	19.6
18	58.3	39.0	144	1.41					306		1044	0.0	9.0	15.7	1200.0	295.8	19.5
19	59.0	36.5	78	0.77					306		1044	0.0	9.0	24.8	1200.0	216.1	19.3
20	59.0	36.5	78	0.77					288		999	0.0	9.0	89.1	1200.0	69.5	17.5
21	59.0	40.0	198	1.94	3.4				288	530	999	0.0	9.0	36.5	1056.0	150.9	20.8
22	59.0	40.0	198	1.94					288	530	999	0.0	9.0	36.5	1056.0	150.9	20.8
23	59.0	40.0	198	1.94					288	530	999	0.0	9.0	68.4	1500.0	88.3	14.2
24	60.0	41.0	270	2.65					414	612	1314	0.0	9.0	68.4	1680.0	127.3	16.9
25	59.5	40.5	234	2.30					432	684	1332	0.0	9.0	30.3	1680.0	262.5	17.6
26	60.5	40.5	234	2.30					423	684	1422	0.0	9.0	24.8	1680.0	299.1	18.9
27	61.0	40.5	234	2.30					432	684	1512	0.0	9.0	24.8	1680.0	305.5	20.2
28	61.0	41.0	270	2.65	4.3				432	684	1512	0.0	9.0	24.8	1680.0	305.5	20.2
29	64.0	41.0	270	2.65					504	684	1512	0.0	9.0	24.8	1680.0	356.6	20.2
30	64.0	41.0	270	2.65					504	684	1512	0.0	9.0	24.8	1680.0	356.6	20.2
31												0.0	0.0	0.0	0.0	N/A	N/A
				FOR THE MONTH				0.0	270.0	1781.1	40704.0	0.0	270.0	1781.1	40704.0	127.8	20.1

NOTE : FLOWRATES INTERPOLATED WHEN READINGS NOT TAKEN

INMET MINING CORPORATION - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF MAY 1995

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C				FLOWS AT STAFF GAUGES			TREAT EFF DISC m3/day	W.Q.P. DISC m3/day	SITE SED POND DISC m3/day	MWSP DISC m3/day	DILUTION RATIO	
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	S-2 m3/hr	S-3 m3/hr	S-4 m3/hr					WQP & SSP @S-2	OVER ALL D/S @S-4
1	66.0	41.5	297	2.91					558	774	1584	0.0	15.0	9.0	1632.0	556.8	22.0
2	67.0	42.5	360	3.53					558	774	1548	0.0	15.0	6.5	1344.0	623.3	26.2
3	68.8	42.8	378	3.71					684	864	1773	0.0	15.0	9.0	1632.0	682.7	24.7
4	71.0	42.0	324	3.18					684	864	1800	0.0	15.0	9.0	1632.0	682.7	25.1
5	73.0	42.0	324	3.18					750	875	1900	0.0	15.0	9.0	1320.0	748.7	32.9
6	74.0	42.0	324	3.18					800	900	2000	0.0	15.0	9.0	1320.0	798.7	34.7
7	76.0	42.0	324	3.18					800	900	2000	0.0	15.0	9.0	1632.0	798.7	28.0
8	77.0	42.0	324	3.18					850	950	2100	0.0	15.0	9.0	1632.0	848.6	28.4
9	78.0	42.0	324	3.18					850	950	2100	0.0	15.0	9.0	1632.0	848.6	29.4
10	79.0	42.0	324	3.18					900	1000	2200	0.0	15.0	9.0	1632.0	898.6	30.9
11	81.0	43.0	396	3.88					900	1000	2200	0.0	15.0	9.0	1632.0	898.6	30.9
12	82.0	44.0	468	4.59					950	1050	2300	0.0	15.0	9.0	1632.0	948.6	32.3
13	82.0	44.0	468	4.59					950	1050	2400	0.0	15.0	9.0	1632.0	948.6	33.8
14	83.0	45.0	558	5.47				5.0	1008	1116	2520	0.0	15.0	9.0	1632.0	1006.6	35.5
15	84.5	46.0	630	6.18	5.4	5.1	5.4		1008	1116	2520	0.0	15.0	9.0	1632.0	1006.6	35.5
16	84.5	46.0	630	6.18					1008	1224	2682	0.0	15.0	1.6	1320.0	1457.2	47.2
17	86.3	48.0	810	7.95					900	1170	2574	0.0	15.0	1.6	1056.0	1301.0	56.6
18	86.3	49.0	918	9.01					1008	1332	2736	0.0	15.0	1.6	900.0	1457.2	70.6
19	86.0	53.0	1332	13.07	6.2	5.1	5.4	5.1	1008	1332	2736	0.0	15.0	1.6	900.0	1457.2	70.6
20	86.0	53.0	1332	13.07					1008	1332	2736	0.0	15.0	1.6	900.0	1457.2	70.6
21	86.0	53.0	1332	13.07					1008	1332	2736	0.0	15.0	1.6	900.0	1457.2	70.6
22	85.0	51.0	1134	11.12	10.0	9.8	9.8	9.9	792	1044	2106	0.0	15.0	0.0	768.0	1266.2	63.6
23	85.0	52.5	1287	12.63					792	1044	2358	0.0	15.0	0.0	768.0	1266.2	71.3
24	84.5	52.5	1287	12.63					792	1044	2358	0.0	15.0	0.0	768.0	1266.2	71.3
25	84.8	52.0	1242	12.18	10.1	10.0	10.1		612	972	2106	0.0	15.0	0.0	624.0	978.2	78.1
26	84.0	51.5	1188	11.65					558	1080	2043	0.0	15.0	0.0	624.0	891.8	75.7
27	84.0	51.5	1188	11.65					558	1080	2043	0.0	15.0	0.0	624.0	891.8	75.7
28	84.0	51.5	1188	11.65					558	1080	2043	0.0	15.0	0.0	624.0	891.8	75.7
29	83.5	50.5	1071	10.51					585	1008	1845	0.0	15.0	0.0	384.0	935.0	110.0
30	82.5	50.0	1008	9.89					504	972	1823	0.0	15.0	0.0	384.0	805.4	108.7
31	82.0	50.0	1008	9.89					504	972	1823	0.0	0.0	0.0	384.0	N/A	112.9
FOR THE MONTH													450.0	149.6	35916.0	967.2	42.9

NOTE : FLOW RATES INTERPOLATED WHEN READINGS NOT TAKEN

INMET MINING CORPORATION - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF JUNE 1995

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEGC				FLOWS AT STAFF GAUGES			TREAT EFF DISC m3/day	W.Q.P. DISC m3/day	SITE SED POND DISC m3/day	MWS ^P DISC m3/day	DILUTION RATIO	
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	STAFF GAUGES								
									S-2 m3/hr	S-3 m3/hr	S-4 m3/hr					WQP & SSP @S-2	OVER ALL D/S @S-4
1	81.0	48.5	864	8.48					504	936	1800	0.0	15.0	0.0	384.0	805.4	107.3
2	80.5	49.5	963	9.45					504	972	1773	0.0	15.0	0.0	384.0	805.4	105.8
3	80.5	49.5	963	9.45					504	972	1773	0.0	15.0	0.0	384.0	805.4	105.6
4	80.5	49.5	963	9.45					504	972	1773	0.0	15.0	0.0	384.0	805.4	105.6
5	80.5	49.5	963	9.45					504	1044	1773	0.0	15.0	0.0	504.0	805.4	81.0
6	81.3	50.0	1008	9.89					648	1044	2358	0.0	15.0	0.0	648.0	1035.8	84.4
7	81.3	50.0	1008	9.89					648	1044	2358	0.0	15.0	0.0	600.0	1035.8	91.0
8	82.0	49.5	963	9.45					585	900	1935	0.0	15.0	0.0	504.0	935.0	88.5
9	82.0	49.5	963	9.45					585	900	1935	0.0	15.0	0.0	384.0	935.0	115.4
10	82.0	49.5	963	9.45					585	900	1935	0.0	15.0	0.0	384.0	935.0	115.4
11	82.0	49.5	963	9.45					585	900	1935	0.0	15.0	0.0	384.0	935.0	115.4
12	79.0	49.0	918	9.01					558	864	1746	0.0	15.0	0.0	288.0	891.8	137.3
13	79.5	49.0	918	9.01					558	936	1692	0.0	15.0	0.0	288.0	891.8	133.0
14	79.5	49.0	918	9.01					558	918	1692	0.0	15.0	0.0	288.0	891.8	133.0
15	79.0	48.0	810	7.95					504	900	1584	0.0	15.0	0.0	384.0	805.4	94.3
16	79.0	47.0	720	7.06					468	882	1548	0.0	15.0	0.0	384.0	747.8	92.1
17	79.0	47.0	720	7.06					468	882	1548	0.0	15.0	0.0	384.0	747.8	92.1
18	79.0	47.0	720	7.06					468	882	1548	0.0	15.0	0.0	384.0	747.8	92.1
19	77.0	48.0	810	7.95					531	936	1566	0.0	15.0	0.0	384.0	848.6	93.2
20	77.0	48.0	810	7.95					504	900	1548	0.0	15.0	0.0	384.0	805.4	92.1
21	77.0	48.0	810	7.95					504	900	1548	0.0	15.0	0.0	504.0	805.4	70.8
22	77.0	48.0	810	7.95					504	864	1512	0.0	15.0	0.0	504.0	805.4	68.9
23	77.0	48.0	810	7.95					468	864	1512	0.0	15.0	0.0	504.0	744.6	68.9
24	77.0	48.0	810	7.95					468	864	1512	0.0	15.0	0.0	504.0	744.6	68.9
25	77.0	48.0	810	7.95					468	864	1512	0.0	15.0	0.0	504.0	744.6	68.9
26	72.8	44.8	536	5.26					324	720	1188	0.0	15.0	0.0	252.0	517.4	105.8
27	72.0	44.5	513	5.03					297	684	1152	0.0	15.0	0.0	252.0	474.2	102.6
28	72.5	44.0	468	4.59					288	648	1116	0.0	15.0	0.0	192.0	459.8	128.4
29	72.3	43.8	450	4.41					273	612	1116	0.0	15.0	0.0	192.0	435.8	128.4
30	72.0	44.0	468	4.59					288	612	1134	0.0	15.0	0.0	264.0	459.8	96.5
31												0.0	0.0	0.0	0.0	N/A	N/A
FOR THE MONTH												450.0	0.0	11784.0	780.3	95.4	

NOTE : FLOWRATES INTERPOLATED WHEN READINGS NOT TAKEN

INMET MINING CORPORATION - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF JULY 1995

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C				FLOWS AT STAFF GAUGES			TREAT EFF DISC m3/day	W.Q.P. DISC m3/day	SITE SED POND DISC m3/day	MWSP DISC m3/day	DILUTION RATIO	
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	S-2 m3/hr	S-3 m3/hr	S-4 m3/hr					WQP & SSP @S-2 m3/day	OVER ALL D/S @S-4 m3/day
1	72.0	44.0	468	4.59					288	612	1134	0.0	15.0	0.0	192.0	459.8	130.5
2	72.0	44.0	468	4.59					288	612	1134	0.0	15.0	0.0	192.0	459.8	130.5
3	72.0	44.0	468	4.59					288	612	1134	0.0	15.0	0.0	192.0	459.8	130.5
4	70.0	45.5	594	5.83					324	648	1116	0.0	15.0	0.0	192.0	517.4	128.4
5	70.0	45.5	594	5.83					324	648	1116	0.0	15.0	0.0	264.0	517.4	95.0
6	70.5	45.8	612	6.00					324	648	1116	0.0	15.0	0.0	264.0	517.4	95.0
7	70.5	45.8	612	6.00					324	648	1116	0.0	15.0	0.0	264.0	517.4	95.0
8	70.5	45.8	612	6.00					324	648	1116	0.0	15.0	0.0	264.0	517.4	95.0
9	70.5	45.8	612	6.00					324	648	1116	0.0	15.0	0.0	264.0	517.4	95.0
10	69.0	46.0	630	6.18					306	648	1152	0.0	15.0	0.0	192.0	488.6	132.6
11	69.0	46.0	630	6.18					306	648	1152	0.0	15.0	0.0	192.0	488.6	132.6
12	69.0	46.0	630	6.18					306	648	1152	0.0	15.0	0.0	192.0	488.6	132.6
13	68.0	45.5	594	5.83					306	612	1116	0.0	15.0	0.0	192.0	488.6	128.4
14	67.5	45.5	594	5.83					306	612	1116	0.0	15.0	0.0	192.0	488.6	128.4
15	67.5	45.5	594	5.83					306	612	1116	0.0	15.0	0.0	192.0	488.6	128.4
16	67.5	45.5	594	5.83					306	612	1116	0.0	15.0	0.0	192.0	488.6	128.4
17	65.0	45.0	558	5.47					257	558	914	0.0	15.0	0.0	120.0	410.2	161.5
18	64.5	45.0	558	5.47					226	558	914	0.0	15.0	0.0	96.0	360.6	196.6
19	64.0	45.0	558	5.47					226	558	914	0.0	15.0	0.0	96.0	360.6	196.6
20	64.0	45.0	558	5.47					226	558	914	0.0	15.0	0.0	96.0	360.6	196.6
21	63.5	45.0	558	5.47					226	558	914	0.0	15.0	0.0	96.0	360.6	196.6
22	63.0	45.0	558	5.47					226	558	914	0.0	15.0	0.0	96.0	360.6	196.6
23	62.5	45.0	558	5.47					226	558	914	0.0	15.0	0.0	96.0	360.6	196.6
24	62.0	45.0	558	5.47					226	558	914	0.0	15.0	0.0	96.0	360.6	196.6
25	62.0	45.0	558	5.47					226	558	914	0.0	15.0	0.0	96.0	360.6	196.6
26	61.5	44.0	468	4.59					226	540	828	0.0	15.0	0.0	96.0	360.6	178.0
27	61.0	44.0	468	4.59					226	540	828	0.0	15.0	0.0	96.0	360.6	178.0
28	60.5	44.0	468	4.59					226	540	828	0.0	15.0	0.0	96.0	360.6	178.0
29	60.0	44.0	468	4.59					226	540	828	0.0	15.0	0.0	96.0	360.6	178.0
30	59.5	44.0	468	4.59					226	540	828	0.0	15.0	0.0	96.0	360.6	178.0
31	59.0	44.0	468	4.59					226	540	828	0.0	15.0	0.0	96.0	360.6	178.0
FOR THE MONTH										0.0	465.0	0.0	4896.0	431.1	138.7		

NOTE : FLOWRATES INTERPOLATED WHEN READINGS NOT TAKEN

INMET MINING CORPORATION - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF AUGUST 1995

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C				FLOWS AT STAFF GAUGES			TREAT EFF DISC m3/day	W.Q.P. DISC m3/day	SITE SED POND DISC m3/day	MWSP DISC m3/day	DILUTION RATIO	
					SURFACE OF LAKE AT WHARF	DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	STAFF GAUGES							WQP & SSP @S-2	OVER ALL D/S @S-4
									S-2 m3/hr	S-3 m3/hr	S-4 m3/hr						
1	59.0	44.0	468	4.59					226	540	828	0.0	9.0	0.0	96.0	601.7	188.3
2	59.0	44.0	468	4.59					226	540	828	0.0	9.0	0.0	96.0	601.7	188.3
3	59.0	44.0	468	4.59					226	540	828	0.0	9.0	0.0	96.0	601.7	188.3
4	59.0	44.0	468	4.59					226	540	828	0.0	9.0	0.0	96.0	601.7	188.3
5	59.0	44.0	468	4.59					226	540	828	0.0	9.0	0.0	96.0	601.7	188.3
6	59.0	44.0	468	4.59					226	540	828	0.0	9.0	0.0	96.0	601.7	188.3
7	59.0	44.0	468	4.59					226	540	828	0.0	9.0	0.0	96.0	601.7	188.3
8	59.0	44.0	468	4.59					226	540	828	0.0	9.0	0.0	96.0	601.7	188.3
9	59.0	44.0	468	4.59					226	540	828	0.0	9.0	0.0	96.0	601.7	188.3
10	59.0	40.5	234	2.30					126	470	648	0.0	9.0	0.0	264.0	335.0	56.0
11	59.0	40.5	234	2.30					126	470	648	0.0	9.0	0.0	264.0	335.0	56.0
12	59.0	40.5	234	2.30					126	470	648	0.0	9.0	0.0	264.0	335.0	56.0
13	59.0	40.5	234	2.30					126	470	648	0.0	9.0	0.0	264.0	335.0	56.0
14	59.0	40.5	234	2.30					126	470	648	0.0	9.0	0.0	264.0	335.0	56.0
15	59.0	40.5	234	2.30					126	470	648	0.0	9.0	0.0	264.0	335.0	56.0
16	59.0	40.5	234	2.30					126	470	648	0.0	9.0	0.0	264.0	335.0	56.0
17	59.0	40.5	234	2.30					126	470	648	0.0	9.0	0.0	264.0	335.0	56.0
18	59.0	40.5	234	2.30					126	470	648	0.0	9.0	0.0	264.0	335.0	56.0
19	59.0	40.5	234	2.30					126	470	648	0.0	9.0	0.0	264.0	335.0	56.0
20	59.0	40.5	234	2.30					126	470	648	0.0	9.0	0.0	264.0	335.0	56.0
21	59.0	40.5	234	2.30					126	470	648	0.0	9.0	0.0	264.0	335.0	56.0
22	59.0	40.5	234	2.30					126	470	648	0.0	9.0	0.0	264.0	335.0	56.0
23	58.0	40.5	234	2.30					144	460	567	0.0	9.0	0.0	264.0	383.0	48.8
24	58.0	40.5	234	2.30					144	460	567	0.0	9.0	0.0	264.0	383.0	48.8
25	58.0	40.5	234	2.30					144	460	567	0.0	9.0	0.0	264.0	383.0	48.8
26	58.0	40.5	234	2.30					144	460	567	0.0	9.0	0.0	264.0	383.0	48.8
27	58.0	40.5	234	2.30					144	460	567	0.0	9.0	0.0	264.0	383.0	48.8
28	58.0	40.5	234	2.30					144	460	567	0.0	9.0	0.0	264.0	383.0	48.8
29	58.0	40.5	234	2.30					144	460	567	0.0	9.0	0.0	216.0	383.0	59.5
30	58.0	40.5	234	2.30					144	460	567	0.0	9.0	0.0	216.0	383.0	59.5
31	58.0	40.5	234	2.30					144	460	567	0.0	9.0	0.0	216.0	383.0	59.5
FOR THE MONTH												0.0	279.0	0.0	6528.0	426.4	73.0

NOTE : FLOWRATES INTERPOLATED WHEN READINGS NOT TAKEN

INMET MINING CORPORATION - SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF SEPTEMBER 1995

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C				FLOWS AT STAFF GAUGES				TREAT EFF		W.Q.P. DISC m3/day	SITE SED POND DISC m3/day	MWSP DISC m3/day	DILUTION RATIO	
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	STAFF GAUGES			DISC	EFF	WQP & SSP @S-2				OVER ALL D/S @S-4	
									S-2 m3/hr	S-3 m3/hr	S-4 m3/hr								
1	58.0	40.5	234	2.30					144	460	567	0.0	9.0	0.0	216.0	383.0	59.5		
2	58.0	40.5	234	2.30					144	460	567	0.0	9.0	0.0	216.0	383.0	59.5		
3	58.0	40.5	234	2.30					144	460	567	0.0	9.0	0.0	216.0	383.0	59.5		
4	58.0	40.5	234	2.30					144	460	567	0.0	9.0	0.0	216.0	383.0	59.5		
5	58.0	40.5	234	2.30					144	460	567	0.0	9.0	0.0	216.0	383.0	59.5		
6	58.0	40.5	234	2.30					144	460	567	0.0	9.0	0.0	216.0	383.0	59.5		
7	58.0	40.5	234	2.30					144	460	567	0.0	9.0	0.0	216.0	383.0	59.5		
8	58.0	40.5	234	2.30					144	460	567	0.0	9.0	0.0	216.0	383.0	59.5		
9	55.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0	69.9		
10	55.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0	69.9		
11	55.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0	69.9		
12	55.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0	69.9		
13	55.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0	69.9		
14	55.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0	69.9		
15	55.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0	69.9		
16	55.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0	69.9		
17	55.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0	69.9		
18	55.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0	69.9		
19	53.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0	69.9		
20	53.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0	69.9		
21	53.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0	69.9		
22	53.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0	69.9		
23	53.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0	69.9		
24	53.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0	69.9		
25	53.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0	69.9		
26	53.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0	69.9		
27	53.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0	69.9		
28	53.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0	69.9		
29	53.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0	69.9		
30	53.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0	69.9		
31				1.94					135	480	594	0.0	9.0	0.0	192.0	359.0	69.9	-1.0	
FOR THE MONTH												279.0	0.0	5952.0	353.6	66.8			

NOTE : FLOWRATES INTERPOLATED WHEN READINGS NOT TAKEN

INMET MINING CORPORATION – SAMATOSUM DIVISION

WATER FLOWS FOR THE MONTH OF OCTOBER 1995

DAY	JOHNSON LAKE LEVEL cm	JOHNSON CREEK LEVEL AT DAM cm	S-1 FLOW D/S OF DAM m3/hr	JOHNSON CREEK c.f.s.	WATER TEMPERATURES, DEG C			FLOWS AT STAFF GAUGES			TREAT EFF DISC m3/day	W.Q.P. DISC m3/day	SITE SED POND DISC m3/day	MWSP DISC m3/day	DILUTION RATIO	
					SURFACE OF LAKE AT WHARF	1 METER DEPTH AT WHARF	ADULT FISH BOX	INSIDE FRY FISH WAY	S-2 m3/hr	S-3 m3/hr	S-4 m3/hr				WQP & SSP @S-2	OVER ALL D/S @S-4
1	53.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0
2	53.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0
3	53.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0
4	53.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0
5	53.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0
6	53.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0
7	53.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0
8	53.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0
9	53.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0
10	53.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0
11	53.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0
12	53.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0
13	53.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0
14	53.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0
15	53.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0
16	53.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0
17	53.0	40.0	198	1.94					135	480	594	0.0	9.0	0.0	192.0	359.0
18	52.0	40.0	198	1.94					117	475	702	0.0	9.0	0.0	696.0	311.0
19	52.0	40.0	198	1.94					117	475	702	0.0	9.0	0.0	696.0	311.0
20	52.0	40.0	198	1.94					117	475	702	0.0	9.0	0.0	696.0	311.0
21	52.0	40.0	198	1.94					117	475	702	0.0	9.0	0.0	696.0	311.0
22	52.0	40.0	198	1.94					117	475	702	0.0	9.0	0.0	696.0	311.0
23	52.0	40.0	198	1.94					117	475	702	0.0	9.0	0.0	696.0	311.0
24	52.0	40.0	198	1.94					72	420	540	0.0	9.0	0.0	696.0	191.0
25	52.0	40.0	198	1.94					72	420	540	0.0	9.0	0.0	696.0	191.0
26	52.0	40.0	198	1.94					72	420	540	0.0	9.0	0.0	912.0	191.0
27	52.0	40.0	198	1.94					72	420	540	0.0	9.0	0.0	1080.0	191.0
28	52.0	40.0	198	1.94					72	420	540	0.0	9.0	0.0	1440.0	191.0
29	52.0	40.0	198	1.94					72	420	540	0.0	9.0	0.0	1500.0	191.0
30	50.5	40.0	198	1.94					55	420	621	0.0	9.0	0.0	1440.0	145.7
31	50.5	40.0	198	1.94					55	420	621	0.0	9.0	0.0	1200.0	145.7
FOR THE MONTH												0.0	279.0	0.0	16404.0	303.4

NOTE : FLOWRATES INTERPOLATED WHEN READINGS NOT TAKEN