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ENVIRONMENT CANADA
CONSERVATION AND PROTECTION
ENVIRONMENTAL PROTECTION
PACIFIC AND YUKON REGION

BASELINE MONITORING
DOME MOUNTAIN PROJECT
- June 27, 1988 -

By Benoit Godin
and
Michael Hagen

March 1992

TD Baseline monitoring Dome
899 Mountain project, June 27, 1988.
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INTRODUCTION

The Dome Mountain Project is located in the Guess Creek drainage basin about 35 kilometres east of Smithers. The gold mine project has underground workings on the east slope of Dome Mountain at the 1,400 metre level. Drainage is eastward via Fedral Creek and Guess Creek. Guess Creek joins the Fulton River just upstream of Fulton Lake (Figure 1). Production started in 1991.

Salmon are limited to the lower reaches of Fulton River below Fulton Lake by a 16 metre high dam. The dam was constructed for flow control and water supply for the DFO Fulton spawning channels for sockeye. This facility provides a major contribution to commercial and native fisheries on the Skeena River, and is approximately 50 km downstream of the Dome Mountain Project. Small natural populations of chinook, coho, and pink also spawn in the Fulton River downstream of the dam. Guess Creek and the lower reaches of Fedral Creek are stable and productive systems for cutthroat trout and, to a lesser extent, Dolly Varden char.

Site description

Station	Location	Remarks
1	Guess Creek upstream	1 km upstream of Betty Creek
2	Fedral Creek upstream	600 metres upstream of Guess Creek
3	Betty Creek upstream	400 metres upstream of Guess Creek
4	Guess Creek downstream	Below swampy area

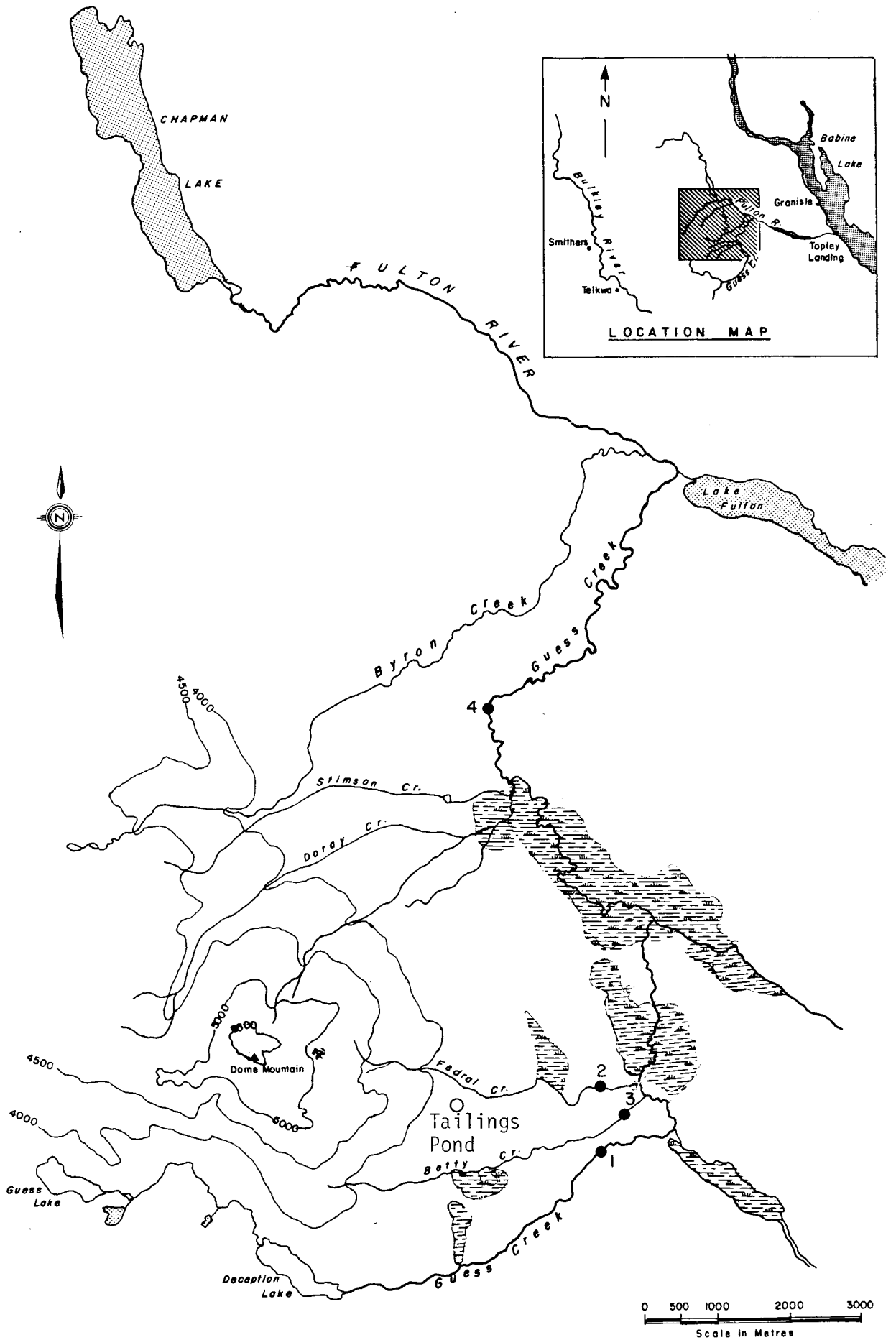


FIGURE 1 RECEIVING WATER SAMPLING STATIONS AT THE DOME MOUNTAIN MINE SITE

MATERIALS AND METHODS

The site was visited on June 27, 1988. Water and sediment samples were collected at four stations. Water quality analysis included alkalinity, pH, conductivity, sulphate, ammonia, nitrite, nitrite/nitrate, total organic and inorganic carbon, total residues, non-filterable residues, and turbidity. The samples were packed with ice until analysis. Dissolved metals were filtered the same day through a 0.45 micron cellulose nitrate membrane filter. Total and dissolved metals were preserved with 0.5 ml nitric acid per 100 ml. All samples were collected in clean polyethylene bottles. The bottles for metal analysis were previously acid washed. Hardness was determined from the dissolved metal sample.

Inductively Coupled Argon Plasma (ICP) was used for the total and dissolved metal analysis and gave a reading of twenty-seven metals. Cadmium, copper, and lead samples were re-analysed with the graphite furnace when the values were below two times the detection limit of the ICP procedure. Analytic procedures were in accordance with the Environment Canada, Pacific Region, Laboratory Manual (Anon., 1979).

Sediment samples were collected from the streambed with a clean acrylic corer. Four replicates were taken at each site. The samples were placed in kraft bags and kept cool until analysed. The samples were air dried, sieved to <150 um, digested with aqua regia, and analysed for heavy metals using ICP. A portion of the sediments were ignited at 550° C in a muffle furnace. The loss of weight was reported as volatile residues and the remainder as fixed residues. The total nitrogen was determined by autoclaving the sediments with potassium persulphate in a basic environment, the process converts all forms of nitrogen into nitrate. The results are obtained using a colorimetric method.

RESULTS

The water metal results can be found in Table 1, while the other water quality results are found in Table 2. Sediment results are in Table 3.

Metals at or near the detection limit in all samples included aluminium, antimony, arsenic, beryllium, boron, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, phosphorus, selenium, silver, tin, titanium, vanadium, and zinc. NFR was <5 at all sites and total residues ranged from 63 to 85 mg/l. Betty Creek (Station 3) samples had the highest total residue values (85 mg/g), and the highest sample concentrations for iron (0.252 mg/l), magnesium (2.2 mg/l), manganese (0.032 mg/l), and sodium (1.3 mg/l). Fedral Creek (Station 2) samples had the next highest total residue values (76 mg/l), and the highest samples concentrations for barium (0.05 mg/l), calcium (17.4 mg/l), and strontium (0.072 mg/l). All metal levels are low compared to other areas of northwest B.C.

Water samples from all sites were soft and mildly alkaline. Values for nitrogen, sulphate, and carbon compounds were low. The parameters are those of a pristine environment.

Cobalt, silver, and tin were undetected in sediments. Cadmium (1.2 ug/g) and lead (31 ug/g) were detected only in sediments from Fedral Creek. Mercury (0.186 ug/g) was highest in sediments from Guess Creek upstream (Station 1), as were volatile residues (7%), and total nitrogen (1850 ug/g). Generally, sediment metal values are consistent with, or lower than, those from other areas in northwestern B.C., and indicate a clean environment.

Table 1

Water Quality - Dome Mountain Project
June 27, 1988

Station Number		TOTICP	DISICP	TOTICP	DISICP	TOTICP	DISICP	TOTICP	DISICP	TOTICP	DISICP	TOTICP	DISICP	TOTICP	DISICP
		AG MG/L	AG MG/L	AL MG/L	AL MG/L	AS MG/L	AS MG/L	B MG/L	B MG/L	BA MG/L	BA MG/L	BE MG/L	BE MG/L	CA MG/L	CA MG/L
1	Repl. 1	<0.01	<0.01	0.05	<0.05	<0.05	<0.05	<0.01	<0.01	0.026	0.024	<0.001	<0.001	13.2	12.6
	Repl. 2	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	0.027	0.024	<0.001	<0.001	13.4	12.6
	Repl. 3	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	0.026	0.025	<0.001	<0.001	13.4	12.8
	Average	---	---	---	---	---	---	---	---	0.026	0.024	---	---	13.3	12.7
	S.D.	---	---	---	---	---	---	---	---	0.001	0.001	---	---	0.1	0.1
2	Repl. 1	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	0.050	0.045	<0.001	<0.001	17.5	16.7
	Repl. 2	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	0.049	0.044	<0.001	<0.001	17.3	16.3
	Repl. 3	<0.01	<0.01	0.08	<0.05	<0.05	<0.05	<0.01	<0.01	0.050	0.044	<0.001	<0.001	17.5	16.4
	Average	---	---	---	---	---	---	---	---	0.050	0.044	---	---	17.4	16.5
	S.D.	---	---	---	---	---	---	---	---	0.001	0.001	---	---	0.1	0.2
3	Repl. 1	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	0.038	0.035	<0.001	<0.001	15.4	14.7
	Repl. 2	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	0.037	0.035	<0.001	<0.001	15.0	14.6
	Repl. 3	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	0.038	0.035	<0.001	<0.001	15.3	14.5
	Average	---	---	---	---	---	---	---	---	0.038	0.035	---	---	15.2	14.6
	S.D.	---	---	---	---	---	---	---	---	0.001	0.000	---	---	0.2	0.1
4	Repl. 1	<0.01	<0.01	<0.05	0.1	<0.05	<0.05	<0.01	<0.01	0.031	0.028	<0.001	<0.001	13.5	12.4
	Repl. 2	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	0.031	0.027	<0.001	<0.001	13.2	12.3
	Repl. 3	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	0.031	0.028	<0.001	<0.001	13.1	12.4
	Average	---	---	---	---	---	---	---	---	0.031	0.028	---	---	13.3	12.4
	S.D.	---	---	---	---	---	---	---	---	0.000	0.001	---	---	0.2	0.1

Table 1, cont.

Water Quality - Dome Mountain Project
June 27, 1988

Station Number	TOTICP	TOTGF	DISICP	DISGF	TOTICP	DISICP	TOTICP	DISICP	TOTICP	TOTGF	DISICP	DISGF	TOTICP	DISICP	TOTICP	DISICP	
	CD MG/L	CD MG/L	CD MG/L	CD MG/L	CO MG/L	CO MG/L	CR MG/L	CR MG/L	CU MG/L	CU MG/L	CU MG/L	CU MG/L	FE MG/L	FE MG/L	MG MG/L	MG MG/L	
1	Repl. 1	<0.005	<0.0001	<0.005	<0.0001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.005	0.0006	0.061	0.027	1.8	1.7
	Repl. 2	<0.005	<0.0001	<0.005	<0.0001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.005	<0.0005	0.056	0.030	1.8	1.6
	Repl. 3	<0.005	<0.0001	<0.005	<0.0001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.005	0.0009	0.058	0.030	1.8	1.7
	Average	---	---	---	---	---	---	---	---	---	---	---	0.0008	0.058	0.029	1.8	1.7
	S.D.	---	---	---	---	---	---	---	---	---	---	---	0.0002	0.003	0.002	0.0	0.1
2	Repl. 1	<0.005	<0.0001	<0.005	<0.0001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.005	<0.0005	0.054	<0.005	1.7	1.6
	Repl. 2	<0.005	<0.0001	<0.005	<0.0001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.005	<0.0005	0.043	0.006	1.8	1.7
	Repl. 3	<0.005	<0.0001	<0.005	<0.0001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.005	<0.0005	0.058	0.007	1.8	1.6
	Average	---	---	---	---	---	---	---	---	---	---	---	---	0.052	0.007	1.8	1.6
	S.D.	---	---	---	---	---	---	---	---	---	---	---	---	0.008	0.001	0.1	0.1
3	Repl. 1	<0.005	<0.0001	<0.005	<0.0001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.005	<0.0005	0.262	0.181	2.3	2.1
	Repl. 2	<0.005	<0.0001	<0.005	<0.0001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.005	<0.0005	0.244	0.189	2.2	2.1
	Repl. 3	<0.005	<0.0001	<0.005	<0.0001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.005	<0.0005	0.249	0.181	2.2	2.1
	Average	---	---	---	---	---	---	---	---	---	---	---	---	0.252	0.184	2.2	2.1
	S.D.	---	---	---	---	---	---	---	---	---	---	---	---	0.009	0.005	0.1	0.0
4	Repl. 1	<0.005	<0.0001	<0.005	<0.0001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.005	<0.0005	0.188	0.107	1.8	1.7
	Repl. 2	<0.005	<0.0001	<0.005	<0.0001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.005	<0.0005	0.211	0.104	1.8	1.7
	Repl. 3	<0.005	<0.0001	<0.005	<0.0001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0005	0.119	---	0.198	0.106	1.8	1.8
	Average	---	---	---	---	---	---	---	---	---	---	---	---	0.199	0.106	1.8	1.7
	S.D.	---	---	---	---	---	---	---	---	---	---	---	---	0.012	0.002	0.0	0.1

Table 1, cont.

Water Quality - Dome Mountain Project
June 27, 1988

Station Number		TOTICP	DISICP	TOTICP	DISICP	TOTICP	DISICP	TOTICP	DISICP	TOTICP	DISICP	TOTICP	TOTGF	DISICP	DISGF	TOTICP	DISICP
		MN MG/L	MN MG/L	NO MG/L	NO MG/L	NA MG/L	NA MG/L	NI MG/L	NI MG/L	P MG/L	P MG/L	PB MG/L	PB MG/L	PB MG/L	PB MG/L	PB MG/L	SB MG/L
1	Repl. 1	0.005	0.003	<0.01	<0.01	1.0	1.0	<0.02	<0.02	<0.01	<0.01	<0.05	0.0009	<0.05	<0.0005	<0.05	<0.05
	Repl. 2	0.005	0.002	<0.01	<0.01	1.0	1.0	<0.02	<0.02	<0.01	<0.01	<0.05	0.0007	<0.05	<0.0005	<0.05	<0.05
	Repl. 3	0.005	0.002	<0.01	<0.01	1.0	1.0	<0.02	<0.02	<0.01	<0.01	<0.05	0.0007	<0.05	<0.0005	<0.05	<0.05
	Average	0.005	0.002	---	---	1.0	1.0	---	---	---	---	---	0.0008	---	---	---	---
	S.D.	0.000	0.001	---	---	0.0	0.0	---	---	---	---	---	0.0001	---	---	---	---
2	Repl. 1	0.002	<0.001	<0.01	<0.01	0.9	0.9	<0.02	<0.02	<0.01	<0.01	<0.05	0.0018	<0.05	<0.0005	<0.05	<0.05
	Repl. 2	0.002	<0.001	<0.01	0.01	0.9	0.9	<0.02	<0.02	<0.01	0.01	<0.05	0.0021	<0.05	<0.0005	<0.05	<0.05
	Repl. 3	0.002	<0.001	<0.01	<0.01	0.9	0.9	<0.02	<0.02	<0.01	<0.01	<0.05	0.0022	<0.05	<0.0005	<0.05	<0.05
	Average	0.002	---	---	---	0.9	0.9	---	---	---	---	---	0.0020	---	---	---	---
	S.D.	0.000	---	---	---	0.0	0.0	---	---	---	---	---	0.0002	---	---	---	---
3	Repl. 1	0.032	0.030	<0.01	<0.01	1.3	1.2	<0.02	<0.02	<0.01	<0.01	<0.05	0.0012	<0.05	0.0014	<0.05	<0.05
	Repl. 2	0.032	0.030	<0.01	<0.01	1.3	1.3	<0.02	<0.02	<0.01	<0.01	0.08	0.0016	<0.05	<0.0005	<0.05	<0.05
	Repl. 3	0.032	0.029	<0.01	<0.01	1.4	1.3	<0.02	<0.02	<0.01	<0.01	<0.05	0.0032	<0.05	<0.0005	<0.05	<0.05
	Average	0.032	0.030	---	---	1.3	1.3	---	---	---	---	---	0.0020	---	---	---	---
	S.D.	0.000	0.001	---	---	0.1	0.1	---	---	---	---	---	0.0011	---	---	---	---
4	Repl. 1	0.011	0.006	<0.01	<0.01	1.2	1.1	<0.02	<0.02	<0.01	<0.01	<0.05	0.0027	<0.05	<0.0005	<0.05	<0.05
	Repl. 2	0.011	0.005	<0.01	<0.01	1.2	1.1	<0.02	<0.02	<0.01	<0.01	<0.05	0.0028	<0.05	<0.0005	<0.05	<0.05
	Repl. 3	0.011	0.005	<0.01	<0.01	1.2	1.1	<0.02	0.08	<0.01	<0.01	<0.05	0.0030	<0.05	<0.0005	<0.05	<0.05
	Average	0.011	0.005	---	---	1.2	1.1	---	---	---	---	---	0.0028	---	---	---	---
	S.D.	0.000	0.001	---	---	0.0	0.0	---	---	---	---	---	0.0002	---	---	---	---

Table 1, cont.

Water Quality - Dome Mountain Project
June 27, 1988

Station Number		TOTICP	DISICP	TOTICP	DISICP	TOTICP	DISICP	TOTICP	DISICP	TOTICP	DISICP	TOTICP	DISICP	TOTICP	DISICP
		SE MG/L	SE MG/L	SI MG/L	SI MG/L	SN MG/L	SN MG/L	SR MG/L	SR MG/L	TI MG/L	TI MG/L	V MG/L	V MG/L	ZN MG/L	ZN MG/L
1	Repl. 1	<0.05	<0.05	1.68	1.58	<0.05	<0.05	0.051	0.047	<0.002	<0.002	<0.01	<0.01	<0.002	<0.002
	Repl. 2	<0.05	<0.05	1.66	1.58	<0.05	<0.05	0.051	0.046	<0.002	<0.002	<0.01	<0.01	<0.002	<0.002
	Repl. 3	<0.05	<0.05	1.66	1.61	<0.05	<0.05	0.051	0.047	<0.002	<0.002	<0.01	<0.01	<0.002	<0.002
	Average	---	---	1.67	1.59	---	---	0.051	0.047	---	---	---	---	---	---
	S.D.	---	---	0.01	0.02	---	---	0.000	0.001	---	---	---	---	---	---
2	Repl. 1	<0.05	<0.05	2.17	2.03	<0.05	<0.05	0.073	0.067	<0.002	<0.002	<0.01	<0.01	<0.002	<0.002
	Repl. 2	<0.05	<0.05	2.11	2.02	<0.05	<0.05	0.072	0.066	<0.002	<0.002	<0.01	<0.01	<0.002	<0.002
	Repl. 3	<0.05	<0.05	2.16	2.00	<0.05	<0.05	0.072	0.066	<0.002	<0.002	<0.01	<0.01	<0.002	<0.002
	Average	---	---	2.15	2.02	---	---	0.072	0.066	---	---	---	---	---	---
	S.D.	---	---	0.03	0.02	---	---	0.001	0.001	---	---	---	---	---	---
3	Repl. 1	<0.05	<0.05	2.41	2.34	<0.05	<0.05	0.065	0.060	<0.002	<0.002	<0.01	<0.01	<0.002	<0.002
	Repl. 2	<0.05	<0.05	2.37	2.31	<0.05	<0.05	0.063	0.059	<0.002	<0.002	<0.01	<0.01	<0.002	<0.002
	Repl. 3	<0.05	<0.05	2.42	2.30	<0.05	<0.05	0.064	0.059	<0.002	<0.002	<0.01	<0.01	0.003	<0.002
	Average	---	---	2.40	2.32	---	---	0.064	0.059	---	---	---	---	---	---
	S.D.	---	---	0.03	0.02	---	---	0.001	0.001	---	---	---	---	---	---
4	Repl. 1	<0.05	<0.05	1.88	1.73	<0.05	<0.05	0.052	0.048	<0.002	<0.002	<0.01	<0.01	<0.002	<0.002
	Repl. 2	<0.05	<0.05	1.88	1.69	<0.05	<0.05	0.052	0.046	<0.002	<0.002	<0.01	<0.01	<0.002	<0.002
	Repl. 3	<0.05	<0.05	1.86	1.71	<0.05	<0.05	0.051	0.047	<0.002	<0.002	<0.01	<0.01	<0.002	0.012
	Average	---	---	1.87	1.71	---	---	0.052	0.047	---	---	---	---	---	---
	S.D.	---	---	0.01	0.02	---	---	0.001	0.001	---	---	---	---	---	---

Table 2

Water Quality - Immediate - Dome Mountain Project
June 27, 1988

Station Number	ALK	COND	PH	DISICP	DISICP	NH3	NO2	NO2,3	SO4	TIC	TOC	NFR	TR	TURB	
	MG/L	UMHO/C	REL.U.	HT MG/L	HC MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	FTU	
1	Repl. 1	37.5	83	8.1	38.5	38.4	<0.005	<0.005	0.025	4	6	4	<5	61	0.2
	Repl. 2	37.5	83	8.0	38.1	38.1	<0.005	<0.005	0.016	4	6	4	<5	65	0.2
	Repl. 3	37.5	83	8.0	38.8	38.7	<0.005	<0.005	0.017	4	6	4	<5	62	0.1
	Average	37.5	83	8.0	38.5	38.4	---	---	0.019	4	6	4	---	63	0.2
	S.D.	0.0	0	0.1	0.4	0.3	---	---	0.005	0	0	0	---	2	0.1
2	Repl. 1	47.0	100	8.1	48.4	48.3	0.009	<0.005	<0.005	4	9	1	<5	77	0.1
	Repl. 2	47.0	100	8.1	47.8	47.6	<0.005	<0.005	<0.005	4	9	1	<5	77	0.3
	Repl. 3	47.0	100	8.1	48.0	47.7	<0.005	<0.005	<0.005	4	9	1	<5	73	0.3
	Average	47.0	100	8.1	48.1	47.9	---	---	---	4	9	1	---	76	0.2
	S.D.	0.0	0	0.0	0.3	0.4	---	---	---	0	0	0	---	2	0.1
3	Repl. 1	44.0	88	8.0	45.5	45.2	<0.005	<0.005	0.006	3	9	7	<5	85	0.3
	Repl. 2	44.5	88	8.0	45.7	45.1	<0.005	<0.005	0.006	2	9	6	<5	85	0.3
	Repl. 3	44.5	88	8.1	45.3	44.9	0.021	<0.005	0.005	2	9	8	<5	86	0.2
	Average	44.3	88	8.0	45.5	45.1	---	---	0.006	2	9	7	---	85	0.3
	S.D.	0.3	0	0.1	0.2	0.2	---	---	0.001	1	0	1	---	1	0.1
4	Repl. 1	37.0	78	8.0	38.7	38.1	0.007	<0.005	<0.005	4	6	6	<5	70	0.3
	Repl. 2	37.5	80	8.0	38.0	37.7	<0.005	<0.005	0.020	3	6	6	<5	65	0.4
	Repl. 3	37.5	80	8.0	38.5	38.2	<0.005	<0.005	0.009	3	6	6	<5	65	0.4
	Average	37.3	79	8.0	38.4	38.0	---	---	0.015	3	6	6	---	67	0.4
	S.D.	0.3	1	0.0	0.4	0.3	---	---	0.008	1	0	0	---	3	0.1

Table 3

Sediment Quality - Dome Mountain Project
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Station Number	SEDICP	SEDICP	SEDICP	SEDICP	SEDICP	SEDICP	SEDICP	SEDICP	SEDICP	SEDICP	SEDICP	SEDHG	SEDICP	SEDICP	
	AG UG/G	AL UG/G	AS UG/G	BA UG/G	BE UG/G	CA UG/G	CD UG/G	CO UG/G	CR UG/G	CU UG/G	FE UG/G	HG UG/G	NG UG/G	MN UG/G	
1	Repl. 1	<2	20700	10	216	0.4	5720	2.1	<20	30.5	43.4	37400	0.517	7030	1300
	Repl. 2	<2	21400	10	220	0.4	6310	<0.8	<20	32.8	28.8	39500	0.087	7150	1570
	Repl. 3	<2	21000	<8	218	0.4	5840	<0.8	<20	30.7	27.8	37300	0.067	7090	1240
	Repl. 4	<2	20100	10	203	0.4	5760	<0.8	<20	29.9	27.3	36800	0.074	6850	1210
	Average	---	20800	10	214	0.4	5908	---	---	31.0	31.8	37750	0.186	7030	1330
	S.D.	---	548	0	8	0.0	273	---	---	1.3	7.7	1196	0.221	130	164
2	Repl. 1	<2	18800	43	428	0.6	6300	1.0	<20	36.6	39.7	52300	0.130	6030	2470
	Repl. 2	<2	15900	44	360	0.5	5040	2.0	<20	37.4	36.7	48900	0.130	6470	1870
	Repl. 3	<2	15200	35	348	0.5	4860	0.8	<20	36.5	32.7	47200	0.094	6000	1680
	Repl. 4	<2	16600	46	370	0.5	5630	1.0	<20	29.8	36.0	50900	0.110	6060	2190
	Average	---	16625	42	377	0.5	5458	1.2	---	35.1	36.3	49825	0.116	6140	2053
	S.D.	---	1559	5	35	0.0	651	0.5	---	3.5	2.9	2238	0.017	221	349
3	Repl. 1	<2	14300	26	322	0.4	5330	<0.8	<20	34.6	33.5	58500	0.120	6000	2830
	Repl. 2	<2	16400	25	294	0.4	5100	<0.8	<20	24.7	31.2	59500	0.100	5560	2260
	Repl. 3	<2	15000	23	179	0.4	2960	<0.8	<20	24.3	31.8	41900	0.091	4470	664
	Repl. 4	<2	15600	26	177	0.5	2680	<0.8	<20	25.4	29.8	39900	0.120	4490	687
	Average	---	15325	25	243	0.4	4018	---	---	27.3	31.6	49950	0.108	5130	1610
	S.D.	---	892	1	76	0.0	1391	---	---	4.9	1.5	10490	0.015	772	1104
4	Repl. 1	<2	17100	25	242	0.5	6360	<0.8	<20	30.4	24.5	43100	0.087	6200	1460
	Repl. 2	<2	15300	20	203	0.4	5360	<0.8	<20	24.6	20.4	38100	0.085	5800	1130
	Repl. 3	<2	14800	21	274	0.5	5870	<0.8	<20	24.5	21.5	40000	0.068	5860	1150
	Repl. 4	<2	14800	20	258	0.4	5800	<0.8	<20	24.5	21.0	38800	0.073	5870	1150
	Average	---	15500	22	244	0.5	5848	---	---	26.0	21.9	40000	0.078	5933	1223
	S.D.	---	1092	2	30	0.1	410	---	---	2.9	1.8	2211	0.009	181	159

Table 3, cont.

Sediment Quality - Dome Mountain Project
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Station Number	SEDICP	SEDICP	SEDICP	SEDICP	SEDICP	SEDICP	SEDICP	SEDICP	SEDICP	SEDICP	SEDICP	SFR	SVR	TN	
	MO UG/G	NA UG/G	NI UG/G	P UG/G	PB UG/G	SI UG/G	SN UG/G	SR UG/G	TI UG/G	V UG/G	ZN UG/G	MG/KG	MG/KG	UG/G	
1	Repl. 1	3	670	20	810	43	586	<8	36.2	387	74	1320	935000	65000	1700
	Repl. 2	3	200	17	850	<8	568	<8	39.2	409	79	187	923000	76600	2000
	Repl. 3	2	290	20	810	<8	606	<8	36.6	359	73	139	930000	69700	1900
	Repl. 4	2	180	18	800	<8	584	<8	35.0	366	72	126	931000	68800	1800
	Average	3	335	19	818	---	586	---	36.8	380	75	443	929750	70025	1850
	S.D.	1	228	2	22	---	16	---	1.8	23	3	585	4992	4833	129
2	Repl. 1	7	280	27	980	29	662	<8	46.3	321	81	238	941000	59300	1100
	Repl. 2	7	1200	29	920	35	644	10	37.6	339	80	248	957000	43400	820
	Repl. 3	7	510	31	890	30	611	<8	37.5	325	76	256	958000	41700	850
	Repl. 4	6	200	23	940	30	664	<8	40.0	291	76	219	951000	49300	880
	Average	7	548	28	933	31	645	---	40.4	319	78	240	951750	48425	913
	S.D.	1	454	3	38	3	25	---	4.1	20	3	16	7805	7948	127
3	Repl. 1	5	910	21	860	10	715	<8	39.4	381	80	206	950000	49700	1100
	Repl. 2	5	290	10	940	9	651	<8	39.0	356	77	130	935000	64700	1500
	Repl. 3	4	350	10	890	<8	616	<8	27.6	360	73	97.5	981000	19300	170
	Repl. 4	3	200	10	840	10	566	<8	26.3	377	74	90.9	983000	17400	100
	Average	4	438	13	883	10	637	---	33.1	369	76	131	962250	37775	718
	S.D.	1	321	5	43	1	63	---	7.1	12	3	53	23627	23264	693
4	Repl. 1	4	220	17	1000	<8	580	<8	47.6	372	83	141	936000	63600	1000
	Repl. 2	2	190	10	940	<8	496	<8	40.3	396	76	116	955000	45400	930
	Repl. 3	3	180	10	880	<8	541	<8	41.5	342	78	116	956000	44400	950
	Repl. 4	2	180	10	880	<8	547	<8	40.7	306	72	117	959000	41000	850
	Average	3	193	12	925	---	541	---	42.5	354	77	123	951500	48600	933
	S.D.	1	19	3	57	---	35	---	3.4	39	5	12	10472	10176	62

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