

LAKE: MCQUARRIE

INDIVIDUAL FISH DATA

Date Captured September 20, 21, 1983

Method of Capture Sinking monofilament nets

M-Male
F-Female
?-Not
Obvious

IMM-Immature
MG-Maturing
MT-Mature
GV-Gravid
SP-Spent
?-Not Obvious

EG-Egg
FR-Fin Ray
HD-Head
ML-Milt
OT-Otolith

SC-Scale
ST-Stomach
TG-Fish Tag
WF-Whole Fish

SPECIES	FORK LENGTH (cm)	WEIGHT (gm)	SEX	GONADAL MATURITY	SAMPLE TYPE	AGE (YRS)	STOMACH CONTENTS					COMMENTS
							BOTTOM ORGANISMS	PLANKTON	INSECTS	FISH	OTHER	
Rainbow trout	11	12	?	IMM	SC							
	12	18	?	IMM	SC							
	12.5	20	?	IMM	SC							
	17.5	50	F	IMM	SC							
	19	65	F	IMM	SC							
	19	65	M	IMM	SC							
	21	80	F	IMM	SC							
	21	90	F	IMM	SC				terrestrial			
	21	90	F	IMM	SC							
	21	90	F	MG	SC							
	21.2	90	F	MG	SC							
	22	100	M	IMM	SC							
	22	100	F	MG	SC							tapeworm cycts
	22	100	M	IMM	SC							
	22	100	F	MG	-							
	22	110	F	MG	SC							
	22.5	110	M	MG	SC							
	→ 22.5	110	M	MG	SC							* -0105;0155
	22.5	115	F	MG	SC							* -0103;0153
	22.5	120	F	MG	SC							
23	105	F	MG	SC								
23.5	115	F	MG	SC								
23	120	M	MG	SC			copepods				tapeworm cycts	

* These are sample codes for liver and flesh trace metal analyses

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							BOTTOM ORGANISMS	PLANKTON	INSECTS	FISH	OTHER	
Rainbow trout	23	120	F	MG	SC							* - 0104;0154
	23	120	-	SC	SC							* - 0101;0151
	23	120	?	IMM	SC							
	23	130	M	MG	SC							
	23	130	F	MG	SC		caddisfly larvae	copepods copepods				
	23	130	F	MG	SC							* - 0102;0152
	23.5	120	?	IMM	SC							
	23.5	140	F	MG	SC							
	23.8	130	M	MG	SC							
	25	140	?	?	SC							
	25	150	M	MG	SC		caddisfly larvae					tapeworm cysts
	25.5	150	M	MG	SC		caddisfly larvae					tapeworm cysts
	25.5	160	M	MG	SC							
	26	160	?	?	SC							tapeworm cysts

* These are sample codes for liver and flesh trace metal analyses.

LAKE: MCQUARRIE

HISTORY OF PREVIOUS SURVEYS

No known previous surveys

Survey Date

A RECONNAISSANCE SURVEY OF
MCQUARRIE LAKE

WATERSHED: BULKLEY RIVER
DATE OF SURVEY: SEPTEMBER 20, 21, 1983
FIELD CREW LEADER: TOM N. WEBBER
FIELD ASSISTANT: SIG HATLEVIK

REPORT PREPARED BY: TOM N. WEBBER

REPORT EDITED BY: D.J. GRANT

(Senior Inventory Technician)

ACCEPTED FOR RELEASE BY:

J. A. Balke
(Head, Inventory Operations Unit)

WATER MANAGEMENT BRANCH
MINISTRY OF ENVIRONMENT

LAKE: MCQUARRIE

SYSTEM NAME: MCQUARRIE CREEK

A.S.A.P. REFERENCE NO. -

SYSTEM NO. : 46-6100

DATA ON FILE FOR THIS SURVEY

Location	<u>✓</u>	Dissolved Oxygen Profile	<u>✓</u>
Physical Data	<u>✓</u>	Temperature Profile	<u>✓</u>
Bench Mark	<u>✓</u>	Netting Record	<u>✓</u>
Terrain Features	<u>✓</u>	Lake Catch Summary	<u>✓</u>
Access	<u>✓</u>	Fisheries Comments	<u>✓</u>
Resorts & Campsites	<u>✓</u>	Individual Fish Data	<u>✓</u>
Other Developments	<u>✓</u>	Fish Preserved	<u>-</u>
Obstructions and Pollutions	<u>✓</u>	Stomach Analysis	<u>✓</u>
Special Restrictions	<u>✓</u>	Scale Reading	<u>-</u>
Aquatic Plants	<u>✓</u>	History of Previous Surveys	<u>✓</u>
Wildlife Observations	<u>✓</u>	Location of Inventory Sites	<u>✓</u>
Miscellaneous Comments	<u>✓</u>	Photograph Directory	<u>✓</u>
Lake Drainage	<u>✓</u>	Laboratory Reports	<u>✓</u>
Inlets/Outlets	<u>✓</u>	Bathymetric Reduction	<u>✓</u>
Water Chemistry	<u>✓</u>	Contour Map	<u>✓</u>

LOCATION 20 km due north of Houston, B.C. Elevation 1 061 m ±
Latitude/ Longitude 54°38':126°46' U.T.M. 9.6505.60500
Management Unit 6-8 N.T.S. Map No. 93 L/10
Drainage McQuarrie Creek → Bulkley River → Skeena River

PHYSICAL DATA		Lake Drainage Area	26.2 sq. km
Water Surface Area	2 160 000 sq. m	Volume	10 165 000 cu. m
Area above 6 m contour	1 462 000 sq. m	Flushing Rate	-
Shoreline Perimeter	12 410 m	Perimeter of 1 Islands	828 m
Maximum Depth	11 m	Mean Depth	4.7 m
Filtrable Residue (T.D.S.)	62 mg/L	Secchi Disc	5.0 m

Sounding Device: FURUNO FG11A - MARK 3

Elevation Source: Contour interpolation

BENCH MARK (Iron spike in center of red circle) Location: 2 m above the present water level in a 25 cm diameter lodgepole pine tree, at the campsite near the north end of the lake, west side.
High water mark 0.2 m above water level at time of survey. (water line on boulders)

LAKE: MCQUARRIE

TERRAIN FEATURES

Immediate Shoreline:

Most of the shoreline dropoff is very shallow giving way to many shoal areas of large gravel and cobble. Much of the shoreline is bordered by scattered shrub and bush. The lower lake water level has exposed a bouldery shoreline with a low 0.3 m bank. Shoreline access is good at this time of year although there is considerable above and below water level windfall debris. Potential near shore-boating hazards are numerous.

Surrounding Country:

The surrounding country is mostly hilly and completely forested in climax growth spruce, fir and lodgepole pine. Deciduous growth is scattered and very limited. Forest growth extends to very near the shoreline except in the low wetland area at the north end of the lake. Some exposed bedrock bluffs are visible on the hill, east side of the lake.

LAKE: MCQUARRIE

ACCESS

Directions: Float plane via Central Mountain Air Services from Tye Lake.
Flying time is about 10 minutes in a DeHavilland Beaver.

Road Type and Conditions: N/A

Restrictions: N/A

RESORTS & CAMPSITES

None developed. Potential campsites are minimal due to the high percentage of surrounding wetland and limited beach development. The forest extends to very near the lake edge. A crude campsite was noted on the small island.

OTHER DEVELOPMENTS

None

OBSTRUCTIONS AND POLLUTIONS

None except for a persistent debris jam on the outlet probably causing slight fluctuations in the water level of the lake.

SPECIAL RESTRICTIONS

None

LAKE: MCQUARRIE

AQUATIC PLANTS

Sparse abundance and somewhat unevenly distributed. Aquatic plants are most abundant in the shallow water areas at the north end of the lake. None were collected.

WILDLIFE OBSERVATIONS

None except for a few resident loons, kingfishers and gray jays. The wetland marsh at the north end of the lake offers some excellent moose pasture.

MISCELLANEOUS COMMENTS

Bathymap source: Air photo enlargement BC 79075:100 (July, 1979)

Invertebrates: Not very abundant. Caddisfly larvae, bivalves and gastropods are visible in most shallow water areas.

General: A bottom sample was collected using an Ekman dredge near the south end of the lake at a depth of about 10 meters.

Over 50 percent of the lake is potentially littoral and very productive although the nutrient level in McQuarrie Lake is quite low.

The lake water level does not appear to fluctuate very much.

The freeze over period is usually from mid November to early April.

LAKE: MCQUARRIE

LAKE DRAINAGE

General:

McQuarrie Lake is an expansion of McQuarrie Creek and is the largest of the lakes located near the headwaters of the twenty-five kilometer long system. McQuarrie Creek drains through McQuarrie Lake into a small unnamed lake to the south before turning east then south east eventually emptying into the north side of the Bulkley River near Perow. There are three other major tributaries to the McQuarrie Creek system. Two are parallel drainages to the north east of McQuarrie Lake one of which drains through Farewell lake. The third tributary drains from an unnamed lake to the south.

Major Systems:

McQuarrie Creek - outlet - (Watershed code #46-6100)

The outlet was point sampled once and walked as far downstream as the first small unnamed lake. Many rainbow trout fry and fingerlings were observed rearing throughout this short reach. Suitable spawning habitat is minimal as bed materials are probably the limiting factor. The stabler stream environment and ideal gradient offers some excellent opportunity for habitat improvement in this area although it may not be immediately necessary.

There are no major inlets to McQuarrie Lake.

Minor Systems:

There are three minor systems mapped on the 1:50 000 topo map that drain into McQuarrie Lake. The most significant input is from a diffuse drainage through the wetland marsh area at the extreme north end of the lake. There is a second small creek which drains from the steep hill to the west from a pair of small lakes, North Lake and South Lake. The third creek drains from two small lakes near the middle of the east side of McQuarrie Lake. No inlet surveys were done and it is not known whether the second and third inlet streams were flowing at the time of the survey.

LAKE: MCQUARRIE

LAKE DRAINAGE CONT'D

Outlet

POINT SAMPLE

C		L		BANK		R		C		BED MATERIAL		System Name		Point No. 1 of																	
S		R		Form		R		S		Ice Scouring		Y ? (N)		C		Texture (%)		McQuarrie C.		466100											
C		Genetic		Mal.		C				Imbric		Nil (L) M H		Org.				Site Location		Midway between McQuarrie L.											
		Texture %								Compac		Nil L M H		Clay				and unnamed lake downstream		Reach No. 0											
F		Org				F				Lag		Nil L M H		Silt				Date		83 09 20		Time 1400		Access Ft							
		Clay		004						D ₉₀ (cm)		60		Sand		10		NTS Map		93L10		Agency		WMB Crew TW SH							
		Silt		062						HYDRAULICS		Meth		S. Gr.		10		Field Photo Init.		TW		Photo Nos.		4, 5							
		Sand		2						Valley W(m)		40 E		L. Gr.		20		Weather		overcast		Fish Sample No.		-							
G		S Gr		16		G				Chan W(m)		8.5 m		Cob.		30		Air Temp. °C		12		Water Sample No.		-							
		L Gr		64						Wet W(m)		5.5 m		Boul.		30		C		WATER		Water temp		Turbidity		TDS		D O		pH	
L		Cob		256		L				Slope (%)		15 C		Bedr.		0		QUAL		11 °C		50+ m (cm)									
		Boul								Max Depth (cm)		23 m		3		FISH SPECIES PRESENT:															
		Bedr								Avg. Depth (cm)		10 E																			
Dstr		Sp		VEG		Sp		Dstr		Wet X-sec area																					
8		1		Conif		1		7		Velocity (m/sec)		0.3 E																			
0				Decid.		0				Flow (m ³ /sec)																					
4		2		Under		2		3		Bank Height (m)		0.2 m																			
B				Ground		8				Fld. Signs (Ht./Type)		0.1/D																			
										Bank Ice Scour		Y ? (N)																			
1		Dstr		% Area		Level		% Area		Dstr		Stage		Dry		L (M) H F															
0		0		Crown		0		0		Flow Char		P (S) R B T																			
4		5		Over		0		2		Valley Chan		0-2 2-5 5-10 10+ N/A																			
										Side Chan		Nil (L) M H																			
										Channel		Nil (L) M H																			
										Stable %		70																			
										Floodplain		Nil L M H																			

Comments

- C1 Channel cover increases downstream
- C2 Side channels produced by debris jams are most evident downstream.
- C3 Many juvenile trout are rearing in this area.
- Sp1 Lodgepole pine, fir and spruce.
- Sp2 willow, young alder
- Sp3 caddisfly, stonefly and various dipteran larvae, some bivalves and gastropods.
- Cx Good to excellent rearing habitat due to habitat diversity ie. undercut banks, debris jams, scour pools, alternate pool and riffle areas and instream boulders. There are many invertebrates here.
- Cx Spawning habitat is limited but improves somewhat just above the next unnamed lake. Suitable bed materials are generally lacking. Excellent opportunity for habitat improvement as the channel is very stable and gradient is ideal.
- Cx The point is typical of the reach immediately below McQuarrie Lake.

LAKE: MCQUARRIE

WATER CHEMISTRY

Limnology Station No. 1

Date September 21, 1983 Time 1100 Air Temperature 11 °C

Wind Velocity 0 km/hr Wind Direction - Field pH Sfce -
Cloud Cover 1 /10 O.C. Surface Condition calm 5.0 m -
Secchi Disc 5.0 m Water Colour pale green/brown H₂S 5.0 m nil mg/L

Method(s) Used Water Temperature YSI model 57
for field tests: Dissolved Oxygen YSI model 57
Air Temperature Hand-held, alcohol type thermometer
Field pH not sampled H₂S Hach kit

Depth of Bottom 6.0 m

Depth of Water Samples 0 m/5.0 m

DEPTH	O ₂ (mg/l)	TEMP (°C)
Surface	9.4	10.1
0.5		
1.0	9.4	9.9
1.5		
2.0	9.4	9.6
2.5		
3.0	9.5	9.6
3.5		
4.0	9.5	9.6
4.5		
5.0	9.6	9.4
5.5		
6.0	Bottom	
6.5		
7.0		
7.5		

DEPTH (m)	O ₂ (mg/l)	TEMP (°C)
8.0		
8.5		
9.0		
9.5		
10.0		
11.0		
12.0		
13.0		
14.0		
15.0		
16.0		
17.0		
18.0		
19.0		
20.0		
21.0		

DEPTH	O ₂ (mg/l)	TEMP (°C)
22.0		
23.0		
24.0		
25.0		
26.0		
27.0		
28.0		
29.0		
30.0		
31.0		
32.0		
33.0		
34.0		
35.0		

LAKE: MCQUARRIE

WATER CHEMISTRY (CONTINUED)

Comments:

The limno station is located near the geographic center of the lake. The deepest area is closer to the south end where a bottom sample was collected using an Ekman dredge. The mud sample was analyzed for various trace metal and other elements. The results of the analyses are included in the appendix section of this report.

LAKE: MCQUARRIE

WATER CHEMISTRY CONT'D

Limnology Station No: 1

Equis No: 1130676

Residue Filtrable 105°C (T.D.S.)

Specific Conductance

Lab pH

Surface 62 mg/L

Surface 92 umhos/cm

Surface 7.9

5 m - mg/L

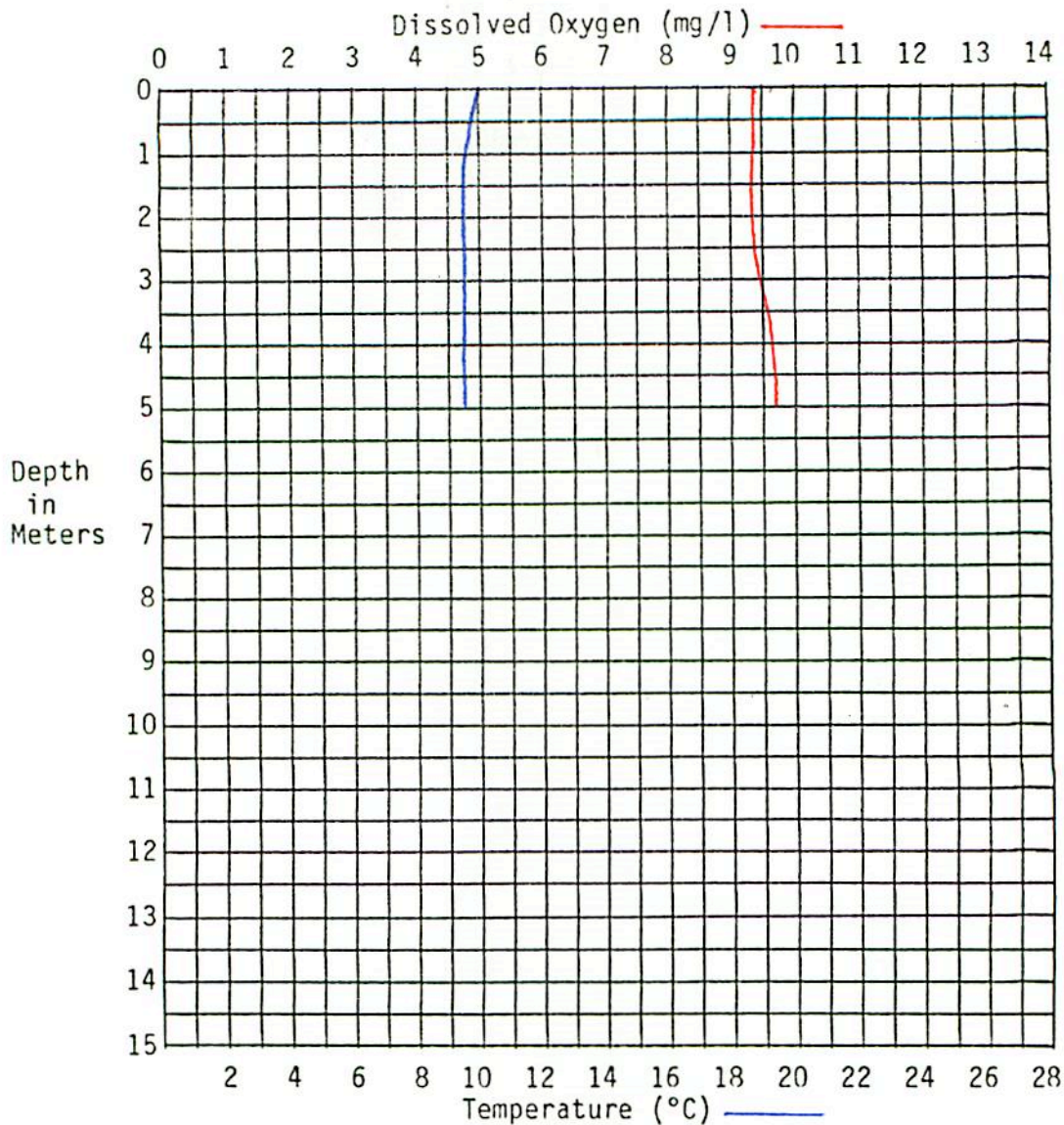
5 m - umhos/cm

5.0 m -

Method /Agency Used: Environment Lab U.B.C.

Comments: No near bottom "A" bottle collected for water sample.

DISSOLVED OXYGEN AND TEMPERATURE PROFILE



LAKE: MCQUARRIE

NETTING RECORD

Mesh sizes are hung in an experimental order: 25, 76, 51, 89, 38, 64 mm.

NETTING SITE #1	Type	Sinking	Date Set	September 20, 1983	Time	1330
		Monofilament	Date Lifted	September 20, 1983	Time	1800
Net Dimensions:	Length	91.4 m	Depth	2.4 m		
Shallow End Mesh Size	64 mm,	Depth	2.5 m,	Substrate	cobble	
Deep End Mesh Size	25.4 mm,	Depth	5 m,	Substrate	cobble & fines	

Comments: Set behind the small island in the lee of the wind.

NETTING SITE #2	Type	Sinking	Date Set	September 21, 1983	Time	1200
		Monofilament	Date Lifted	September 21, 1983	Time	1600
Net Dimensions:	Length	91.4 m	Depth	2.4 m		
Shallow End Mesh Size	64 mm,	Depth	5.0 m,	Substrate	cobble & fines	
Deep End Mesh Size	25 mm,	Depth	5.0 m,	Substrate	cobble & fines	

Comments:

LAKE: MCQUARRIE

LAKE CATCH SUMMARY

SPECIES	NETTING SITE NO.				ANGLED	OTHER	TOTAL	NUMBER SAMPLED	NUMBER PRESERVED	SIZE RANGE (cm)
	1	2	3	4						
Rainbow Trout	15	23			0	0	38	36	0	
Longnose Sucker	19	5			0	0	24	0	0	17 ^{1/2} - 18 ^{1/2}

Minnow Traps:

Bait Bread

#	HOURS	DEPTH(m)	SUBSTRATE	SPECIES
1	24	0.5	cobble	none
2	24	0.5	cobble	one juvenile sucker

FISHERIES COMMENTS

Most of the trout were heavily parasitized by tapeworm cysts in the gut mesentery.

Many front rise to the surface in the evening

Trout are feeding primarily on caddisfly larvae, surface insects and on occasion, copepods.

LAKE: MCQUARRIE

FISHERIES COMMENTS (CONTINUED)

Some specimens could not be sexed as the gonads were unidentifiable. These fish appeared healthy, red fleshed and their gut contained few parasites. It was suggested that these trout may be steelhead smolts (S. Hatlevik, Smithers, B.C.), rearing in McQuarrie Lake.

The lower reaches of McQuarrie Creek are known to contain steelhead rearing and spawning areas. Five trout were sampled each for liver and muscle trace metal analyses. These fish have been sample-coded on the "Fish Data" Summary sheets.



LOCATION OF INVENTORY SITES

Figure 1

Lake: McQuarrie

Reference No.: Air Photo BC 79075:100

Reference Date: July, 1979

Scale: 1:19555



Plate number, area, and direction



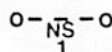
Point sample, number, and location



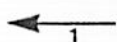
Bench mark



Limno station location and number



Netting site location and number



Stream flow direction and number

McQuarrie Lake



Plate 1: Aerial view from the south (outlet area).



Plate 2: Panorama view to the north from near the lake center.



Plate 3: Panorama view to the south end of the lake from the campsite.

McQuarrie Lake



Plate 4: Aerial view of the outlet area, south end of the lake.

McQuarrie Lake



Plate 5: Start of the outlet to McQuarrie Lake.



Plate 6: Downstream view over the point sample site on the outlet.

McQuarrie Lake



Plate 7: Downstream view over the outlet near a small unnamed lake.



Plate 8: Campsite area west side of the lake, north end.

LAKE: MCQUARRIE

PHOTOGRAPH DIRECTORY

<u>Negative #</u>	<u>Plate #</u>	<u>Description</u>
1		Aerial view from the north.
2		Aerial view towards the outlet.
3	7	Overlooking a small lake downstream of McQuarrie.
4	6	Point sample area on the outlet.
5		Point sample area on the outlet
6		Debris jam on the outlet.
7	5	Debris jam at the outlet.
8		Shallow areas at the north end.
9,10	2	Panorama from lake middle to the north.
11	8	Campsite area, west side of the lake.
12,13	3	Panorama toward the outlet from campsite
14		Loading the float plane.
15		Loading the float plane.
16	4	Aerial view of the outlet.
17	1	Aerial view from the south.
18		Aerial view of outlet of the small lake.
20		Road crossing of McQuarrie Creek.

WATER QUALITY REPORT FOR SAMPLE 310949W

TO: RESOURCE QUALITY SEC
765 BROUGHTON ST.
VICTORIA, B.C. V8V 1X5
ATTENTION OF: L SWAIN

FOR SITE: 1130676 MCQUARRIE LK DEEP STN

SAMPLING DATE(S): SEP 21/83 0000 HRS
SAMPLE TYPE: FRESH WATER
SAMPLING DEPTH: 0
SAMPLED BY: RESOURCE QUALITY SECTION
CHARGE TO: WATER PGM (RSRC QUAL SCN)
DATE PROCESSED TO COMPUTER: SEP 30/83

0040101	PH	K	0050101	RESIDUE:TL 105C	64. MG/L
		REL UNIT			
0071701	RES:FILT.105C	62. MG/L	0110101	SPECIFIC CONDUCT	92. UMHO/CM
1061701	FLUORIDE	L 0.1 MG/L	1070003	HARDNES.T:CaCO3	41. MG/L
1083704	NITROGN:AMMONIA	L 0.005* MG/L	1093703	NITROGN:NO2 NO3	L 0.02* MG/L
1120003	NITROGN:ORGANIC	0.22* MG/L	1133605	NITROGN:KJELDAH	0.22 MG/L
1140001	NITROGEN:TOTAL	0.22* MG/L	1183703	PHOSPHORUS:ORT	L 0.003 MG/L
1193703	PHOSPHORUS :TOT DISSOLVED	0.009* MG/L	1193603	PHOSPHORUS :TOT	0.009 MG/L
1580101	TITRATION CURVE	K	2530310	CADMIUM TOTAL	L 0.0005 MG/L
2560310	COPPER TOTAL	0.002 MG/L	2580310	LEAD TOTAL	0.001 MG/L
2630310	NICKEL TOTAL	L 0.01 MG/L			

FOLLOWING ARE PACKAGE TESTS:

2510214	ARSENIC TOTAL	L 0.25 MG/L	2530214	CADMIUM TOTAL	L 0.01 MG/L
2540214	CALCIUM TOTAL	13.8 MG/L	2550214	CHROMIUM TOTAL	L 0.01 MG/L

SAMPLE NO. 310949W CONTINUED ON NEXT PAGE.

WATER QUALITY REPORT FOR SAMPLE S10949W

2560214	COPPER TOTAL	L 0.01 MG/L	2570214	IRON TOTAL	0.03 MG/L
2580214	LEAD TOTAL	L 0.1 MG/L	2590214	MAGNESIUM TOTAL	1.58 MG/L
2600214	MANGANESE TOTAL	0.01 MG/L	2620214	MOLYBDENUM TOTAL	L 0.01 MG/L
2630214	NICKEL TOTAL	L 0.05 MG/L	2660214	ZINC TOTAL	L 0.01 MG/L
2670214	ALUMINUM TOTAL	L 0.02 MG/L	2680214	COBALT TOTAL	L 0.1 MG/L
2720214	VANADIUM TOTAL	L 0.01 MG/L			

THE APPROXIMATE COST OF THE ABOVE TESTS IS \$ 209.00

REMARKS:

*pH = 7.9 All units
Sample too long in transit*

TOTAL ALKALINITY mg/l CaCO₃ = 42.0

R. S. Sutherland
FOR ENVIRONMENTAL LABORATORY

WATER QUALITY REPORT FOR SAMPLE 310950W

TO: RESOURCE QUALITY SEC
765 BROUGHTON ST.
VICTORIA, B.C. V8V 1X5
ATTENTION OF: L SWAIN

FOR SITE: 1130676 MCQUARRIE LK DEEP STN

SAMPLING DATE(S): SEP 21/83 0000 HRS
SAMPLE TYPE: FRESH WATER
SAMPLING DEPTH: 5
SAMPLED BY: RESOURCE QUALITY SECTION
CHARGE TO: WATER PGM (RSRC QUAL SCN)
DATE PROCESSED TO COMPUTER: SEP 30/83

1083704	NITROGN:AMMONIA	L 0.005*	1093703	NITROGN:NO2 NO3	0.02
		MG/L			MG/L
1120003	NITROGN:ORGANIC	0.20	1133605	NITROGN:KJELDAH	0.20
		MG/L			MG/L
1140001	NITROGEN:TOTAL	0.22	1183703	PHOSPHORUS:ORT	L 0.003
		MG/L			MG/L
1193703	PHOSPHORUS :TOT DISSOLVED	0.013*	1193603	PHOSPHORUS :TOT	0.013
		MG/L			MG/L

THE APPROXIMATE COST OF THE ABOVE TESTS IS \$ 66.00

THERE IS NO CHARGE FOR THE FOLLOWING TESTS

0040101	PH	N	0110101	SPECIFIC CONDUCT	N
		REL UNIT			UMHO/CM

REMARKS:

FOR ENVIRONMENTAL LABORATORY

WATER QUALITY REPORT FOR SAMPLE 311748W

TO: RESOURCE QUALITY SEC
765 BROUGHTON ST.
VICTORIA, B.C. V8V 1X5
ATTENTION OF: C MCKEAN

FOR SITE: MCGUARRIE LK

SAMPLING DATE(S): SEP 21/83 0000 HRS
SAMPLE TYPE: BOTTOM SEDIMENT
SAMPLED BY: RESOURCE QUALITY SECTION
CHARGE TO: WATER PGM (RSRC QUAL SCN)
DATE PROCESSED TO COMPUTER: OCT 19/83

0322402	RESIDUE:XTOT.VO	28.2	1032402	CARBON:ORGANIC	58.
		MG/G DRY			MG/G DRY
1132402	NITROGEN:KJELDAH	9.5	1242402	CARBON:INORG.	62.
		MG/G DRY			MG/G DRY
1472401	CARBON:TOTAL	120.	2612408	MERCURY	0.20
		MG/G DRY			UG/G@20C
2892411	SILICON	54.			
		UG/G DRY			

FOLLOWING ARE PACKAGE TESTS:

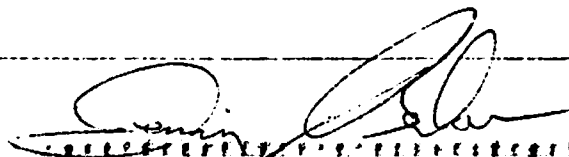
1192411	PHOSPHORUS :TOT	994.	2512411	ARSENIC	L 25.
		UG/G DRY			UG/G DRY
2522411	BORON	L 1.	2532411	CADMIUM	L 1.
		UG/G DRY			UG/G DRY
2542412	CALCIUM	8.43	2552411	CHROMIUM	31.
		MG/G DRY			UG/G DRY
2562411	COPPER	60.	2572412	IRON	30.3
		UG/G DRY			MG/G DRY
2582411	LEAD	30.	2592412	MAGNESIUM	4.55
		UG/G DRY			MG/G DRY
2602411	MANGANESE	723.	2622411	MOLYBDENUM	9.
		UG/G DRY			UG/G DRY
2632411	NICKEL	24.	2662411	ZINC	257.
		UG/G DRY			UG/G DRY
2672412	ALUMINUM	21.4	2682411	COBALT	L 10.
		MG/G DRY			UG/G DRY

WATER QUALITY REPORT FOR SAMPLE 311748W

2702411	BARIUM	234	2722411	VANADIUM	36
		UG/G DRY			UG/G DRY
2742411	SELENIUM	L 10	2762411	TITANIUM	11
		UG/G DRY			UG/G DRY
2822411	TIN	8	2832411	BERYLLIUM	L 1
		UG/G DRY			UG/G DRY
2842411	THALLIUM	L 20	2872411	STRONTIUM	46
		UG/G DRY			UG/G DRY
2882411	TELLURIUM	39			
		UG/G DRY			

THE APPROXIMATE COST OF THE ABOVE TESTS IS \$ 228.00

REMARKS:



FOR ENVIRONMENTAL LABORATORY

FEBRUARY 14, 1984

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MINISTRY OF THE ENVIRONMENT

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WATER QUALITY REPORT FOR SAMPLE 313717W

TO: RESOURCE QUALITY SEC
765 BROUGHTON ST.
VICTORIA, B.C. V8V 1X5
ATTENTION OF: C MCKEAN

FOR SITE: MCQUARRIE LK

SAMPLING DATE(S): OCT 17/83 0000 HRS
SAMPLE TYPE: BOTTOM SEDIMENT
SAMPLED BY: RESOURCE QUALITY SECTION
CHARGE TO: WATER PGM (RSRC QUAL SCN)
DATE PROCESSED TO COMPUTER: DEC 09/83

2612408 MERCURY 0.41
UG/G#20C

THE APPROXIMATE COST OF THE ABOVE TESTS IS \$ 47.00

REMARKS:


FOR ENVIRONMENTAL LABORATORY

WATER QUALITY REPORT FOR SAMPLE 311012W

TO: RESOURCE QUALITY SEC
765 BROUGHTON ST.
VICTORIA, B.C. V8V 1X5
ATTENTION OF: C MCKEAN

FOR SITE: 1130676 MCQUARRIE LAKE DEEP STN

SAMPLING DATE(S): SEP 21/83 0000 HRS
SAMPLE TYPE: FISH TISSUE
SUB-SAMPLE: 01
COMPONENT: 01
SAMPLED BY: RESOURCE QUALITY SECTION
CHARGE TO: WATER PGM (RSRC QUAL SCN)
DATE PROCESSED TO COMPUTER: SEP 28/83

0250001	MOISTURE	79.2	2612601	MERCURY	0.08
		2			UG/G WET

FOLLOWING ARE PACKAGE TESTS:

1192612	PHOSPHORUS :TOT	9.75	2512611	ARSENIC	L 24.
		MG/G DRY			UG/G DRY
2522611	BORON	L 1.	2532611	CADMIUM	L 1.
		UG/G DRY			UG/G DRY
2542611	CALCIUM	586.	2552611	CHROMIUM	L 1.
		UG/G DRY			UG/G DRY
2562611	COPPER	L 1.	2572611	IRON	L 1.
		UG/G DRY			UG/G DRY
2582611	LEAD	L 10.	2592612	MAGNESIUM	1.21
		UG/G DRY			MG/G DRY
2602611	MANGANESE	L 1.	2622611	MOLYBDENUM	L 1.
		UG/G DRY			UG/G DRY
2632611	NICKEL	L 5.	2662611	ZINC	11.
		UG/G DRY			UG/G DRY
2672611	ALUMINIUM	L 2.	2682611	COBALT	L 10.
		UG/G DRY			UG/G DRY
2702611	BARIIUM	L 1.	2722611	VANADIUM	L 1.
		UG/G DRY			UG/G DRY
2742611	SELENIUM	L 10.	2762611	TITANIUM	L 1.
		UG/G DRY			UG/G DRY
2822611	TIN	L 5.	2832611	BERYLLIUM	L 1.
		UG/G DRY			UG/G DRY

WATER QUALITY REPORT FOR SAMPLE 311012W

2842611 THALLIUM

L 20.
UG/G DRY

2872611 STRONTIUM

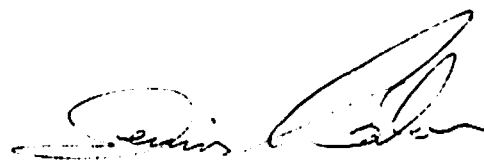
L 1.
UG/G DRY

2882611 TELLURIUM

L 20.
UG/G DRY

THE APPROXIMATE COST OF THE ABOVE TESTS IS \$ 123.00

REMARKS:



FOR ENVIRONMENTAL LABORATORY

SAMPLERS'S COMMENTS: RAINBOW MUSCLE #1

WATER QUALITY REPORT FOR SAMPLE 311013W

TO: RESOURCE QUALITY SEC
765 BROUGHTON ST.
VICTORIA, B.C. V8V 1X5
ATTENTION OF: C MCKEAN

FOR SITE: 1130676 MCQUARRIE LAKE DEEP STN

SAMPLING DATE(S): SEP 21/83 0000 HRS
SAMPLE TYPE: FISH TISSUE
SUB-SAMPLE: 01
COMPONENT: 02
SAMPLED BY: RESOURCE QUALITY SECTION
CHARGE TO: WATER PGM (RSRC QUAL SCN)
DATE PROCESSED TO COMPUTER: SEP 28/83

MUSCLE
TISSUE

0250001	MOISTURE	77.6	2612601	MERCURY	0.10
		%			UG/G WET

FOLLOWING ARE PACKAGE TESTS:

1192612	PHOSPHORUS :TOT	9.85	2512611	ARSENIC	L 22.
		MG/G DRY			UG/G DRY
2522611	BORON	2.	2532611	CADMIUM	L 1.
		UG/G DRY			UG/G DRY
2542611	CALCIUM	862.	2552611	CHROMIUM	L 1.
		UG/G DRY			UG/G DRY
2562611	COPPER	2.	2572611	IRON	L 1.
		UG/G DRY			UG/G DRY
2582611	LEAD	L 10.	2592612	MAGNESIUM	1.22
		UG/G DRY			MG/G DRY
2602611	MANGANESE	L 1.	2622611	MOLYBDENUM	L 1.
		UG/G DRY			UG/G DRY
2632611	NICKEL	L 5.	2662611	ZINC	11.
		UG/G DRY			UG/G DRY
2672611	ALUMINUM	L 2.	2682611	COBALT	L 10.
		UG/G DRY			UG/G DRY
2702611	BARIUM	L 1.	2722611	VANADIUM	L 1.
		UG/G DRY			UG/G DRY
2742611	SELENIUM	L 10.	2762611	TITANIUM	L 1.
		UG/G DRY			UG/G DRY
2822611	TIN	10.	2832611	BERYLLIUM	L 1.
		UG/G DRY			UG/G DRY

FEBRUARY 23, 1984

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WATER QUALITY REPORT FOR SAMPLE 311013W

2842611 THALLIUM

22.
UG/G DRY

2872611 STRONTIUM

L. 1.
UG/G DRY

2882611 TELLURIUM

L. 20.
UG/G DRY

THE APPROXIMATE COST OF THE ABOVE TESTS IS \$ 123.00

REMARKS:



FOR ENVIRONMENTAL LABORATORY

SAMPLERS'S COMMENTS: RAINBOW TROUT MUSCLE #2

WATER QUALITY REPORT FOR SAMPLE 311014W

TO: RESOURCE QUALITY SEC
765 BROUGHTON ST.
VICTORIA, B.C. V8V 1X5
ATTENTION OF: C MCKEAN

FOR SITE: 1130676 MCQUARRIE LAKE DEEP STN

SAMPLING DATE(S): SEP 21/83 0000 HRS
SAMPLE TYPE: FISH TISSUE
SUB-SAMPLE: 01
COMPONENT: 03
SAMPLED BY: RESOURCE QUALITY SECTION
CHARGE TO: WATER PGM (RSRC QUAL SCN)
DATE PROCESSED TO COMPUTER: SEP 28/83

0250001	MOISTURE	77.7	2612601	MERCURY	0.08
		%			UG/G WET

FOLLOWING ARE PACKAGE TESTS:

1192612	PHOSPHORUS TOT	9.35	2512611	ARSENIC	L 22.
		MG/G DRY			UG/G DRY
2522611	BORON	1.	2532611	CADMIUM	L 1.
		UG/G DRY			UG/G DRY
2542611	CALCIUM	500.	2552611	CHROMIUM	L 1.
		UG/G DRY			UG/G DRY
2562611	COPPER	2.	2572611	IRON	68.
		UG/G DRY			UG/G DRY
2582611	LEAD	L 10.	2592612	MAGNESIUM	1.13
		UG/G DRY			MG/G DRY
2602611	MANGANESE	L 1.	2622611	MOLYBDENUM	L 1.
		UG/G DRY			UG/G DRY
2632611	NICKEL	L 5.	2662611	ZINC	39.
		UG/G DRY			UG/G DRY
2672611	ALUMINUM	L 2.	2682611	COBALT	L 10.
		UG/G DRY			UG/G DRY
2702611	BARIUM	L 1.	2722611	VANADIUM	L 1.
		UG/G DRY			UG/G DRY
2742611	SELENIUM	L 10.	2762611	TITANIUM	L 1.
		UG/G DRY			UG/G DRY
2822611	TIN	12.	2832611	BERYLLIUM	L 1.
		UG/G DRY			UG/G DRY

SAMPLE NO. 311014W CONTINUED ON NEXT PAGE.

WATER QUALITY REPORT FOR SAMPLE 311014W

2842611 THALLIUM

L 20.
UG/G DRY

2872611 STRONTIUM

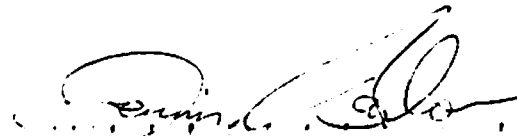
L 1.
UG/G DRY

2882611 TELLURIUM

L 20.
UG/G DRY

THE APPROXIMATE COST OF THE ABOVE TESTS IS \$ 123.00

REMARKS:


FOR ENVIRONMENTAL LABORATORY

SAMPLERS'S COMMENTS: RAINBOW TROUT MUSCLE #3

WATER QUALITY REPORT FOR SAMPLE 311015W

TO: RESOURCE QUALITY SEC
765 BROUGHTON ST.
VICTORIA, B.C. V8V 1X5
ATTENTION OF: C MCKEAN

FOR SITE: 1130676 MCQUARRIE LAKE DEEP STN

SAMPLING DATE(S): SEP 21/83 0000 HRS
SAMPLE TYPE: FISH TISSUE
SUB-SAMPLE: 01
COMPONENT: 04
SAMPLED BY: RESOURCE QUALITY SECTION
CHARGE TO: WATER PGM (RSRC QUAL SCN)
DATE PROCESSED TO COMPUTER: SEP 28/83

0250001	MOISTURE	77.7 %	2612601	MERCURY	0.07 UG/G WET
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FOLLOWING ARE PACKAGE TESTS:

1192612	PHOSPHORUS TOT	9.40 MG/G DRY	2512611	ARSENIC	L 22. UG/G DRY
2522611	BORON	2. UG/G DRY	2532611	CADMIUM	L 1. UG/G DRY
2542611	CALCIUM	773. UG/G DRY	2552611	CHROMIUM	L 1. UG/G DRY
2562611	COPPER	3. UG/G DRY	2572611	IRON	113. UG/G DRY
2582611	LEAD	L 10. UG/G DRY	2592612	MAGNESIUM	1.21 MG/G DRY
2602611	MANGANESE	L 1. UG/G DRY	2622611	MOLYBDENUM	L 1. UG/G DRY
2632611	NICKEL	L 5. UG/G DRY	2662611	ZINC	27. UG/G DRY
2672611	ALUMINUM	L 2. UG/G DRY	2682611	COBALT	L 10. UG/G DRY
2702611	BARIUM	L 1. UG/G DRY	2722611	VANADIUM	L 1. UG/G DRY
2742611	SELENIUM	L 10. UG/G DRY	2762611	TITANIUM	L 1. UG/G DRY
2822611	TIN	L 5. UG/G DRY	2832611	BERYLLIUM	L 1. UG/G DRY

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WATER QUALITY REPORT FOR SAMPLE 311015W

2842611 THALLIUM

L 20.
UG/G DRY

2872611 STRONTIUM

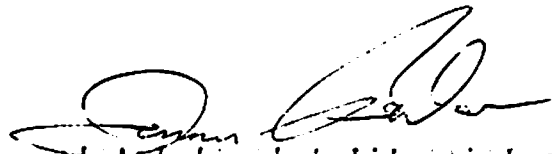
L 1.
UG/G DRY

2882611 TELLURIUM

L 20.
UG/G DRY

THE APPROXIMATE COST OF THE ABOVE TESTS IS \$ 123.00

REMARKS:



FOR ENVIRONMENTAL LABORATORY

SAMPLERS'S COMMENTS: RAINBOW TROUT MUSCLE #4

WATER QUALITY REPORT FOR SAMPLE 311016W

TO: RESOURCE QUALITY SEC
765 BROUGHTON ST.
VICTORIA, B.C. V8V 1X5
ATTENTION OF: C MCKEAN

FOR SITE: 1130676 MCQUARRIE LAKE DEEP STN

SAMPLING DATE(S): SEP 21/83 0000 HRS
SAMPLE TYPE: FISH TISSUE
SUB-SAMPLE: 01
COMPONENT: 05
SAMPLED BY: RESOURCE QUALITY SECTION
CHARGE TO: WATER PGM (RSRC QUAL SCN)
DATE PROCESSED TO COMPUTER: SEP 28/83

0250001	MOISTURE	78.2	2612601	MERCURY	0.06
		%			UG/G WET

FOLLOWING ARE PACKAGE TESTS:

1192612	PHOSPHORUS :TOT	10.6	2512611	ARSENIC	L 23.
		MG/G DRY			UG/G DRY
2522611	BORON	1.	2532611	CADMIUM	L 1.
		UG/G DRY			UG/G DRY
2542611	CALCIUM	399.	2552611	CHROMIUM	L 1.
		UG/G DRY			UG/G DRY
2562611	COPPER	9.	2572611	IRON	85.
		UG/G DRY			UG/G DRY
2582611	LEAD	L 10.	2592612	MAGNESIUM	1.24
		UG/G DRY			MG/G DRY
2602611	MANGANESE	L 1.	2622611	MOLYBDENUM	1.
		UG/G DRY			UG/G DRY
2632611	NICKEL	L 5.	2662611	ZINC	24.
		UG/G DRY			UG/G DRY
2672611	ALUMINIUM	L 2.	2682611	COBALT	L 10.
		UG/G DRY			UG/G DRY
2702611	BARIUM	L 1.	2722611	VANADIUM	L 1.
		UG/G DRY			UG/G DRY
2742611	SELENIUM	L 10.	2762611	TITANIUM	L 1.
		UG/G DRY			UG/G DRY
2822611	TIN	L 5.	2832611	BERYLLIUM	L 1.
		UG/G DRY			UG/G DRY

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WATER QUALITY REPORT FOR SAMPLE 311016W

2842611 THALLIUM

49.
UG/G DRY

2872611 STRONTIUM

L 1.
UG/G DRY

2882611 TELLURIUM

28.
UG/G DRY

THE APPROXIMATE COST OF THE ABOVE TESTS IS \$ 123.00

REMARKS:



FOR ENVIRONMENTAL LABORATORY

SAMPLERS'S COMMENTS: RAINBOW TROUT MUSCLE #5

WATER QUALITY REPORT FOR SAMPLE 311017W

TO: RESOURCE QUALITY SEC
765 BROUGHTON ST.
VICTORIA, B.C. V8V 1X5
ATTENTION OF: C MCKEAN

FOR SITE: 1130676 MCQUARRIE LAKE DEEP STN

SAMPLING DATE(S): SEP 21/83 0000 HRS
SAMPLE TYPE: FISH TISSUE
SUB-SAMPLE: 01
COMPONENT: S1
SAMPLED BY: RESOURCE QUALITY SECTION
CHARGE TO: WATER PGM (RSRC QUAL SEC)
DATE PROCESSED TO COMPUTER: SEP 28/83

LIVER
TISSUE

0250001 MOISTURE 71.3
%

FOLLOWING ARE PACKAGE TESTS:

1192612	PHOSPHORUS :TOT	12.6 MG/G DRY	2512611	ARSENIC	L 49. UG/G DRY
2522611	BORON	3. UG/G DRY	2532611	CADMIUM	L 2. UG/G DRY
2542611	CALCIUM	608. UG/G DRY	2552611	CHROMIUM	L 2. UG/G DRY
2562611	COPPER	50. UG/G DRY	2572612	IRON	3.05 MG/G DRY
2582611	LEAD	59. UG/G DRY	2592612	MAGNESIUM	1.21 MG/G DRY
2602611	MANGANESE	6. UG/G DRY	2622611	MOLYBDENUM	L 2. UG/G DRY
2632611	NICKEL	L 10. UG/G DRY	2662611	ZINC	158. UG/G DRY
2672611	ALUMINUM	L 4. UG/G DRY	2682611	COBALT	L 20. UG/G DRY
2702611	BARIUM	L 2. UG/G DRY	2722611	VANADIUM	L 2. UG/G DRY
2742611	SELENIUM	L 20. UG/G DRY	2762611	TITANIUM	L 2. UG/G DRY
2822611	TIN	L 10. UG/G DRY	2832611	BERYLLIUM	L 2. UG/G DRY

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WATER QUALITY REPORT FOR SAMPLE 311017W

2842611 THALLIUM

L 39,
UG/G DRY

2872611 STRONTIUM

L 2,
UG/G DRY

2882611 TELLURIUM

L 39,
UG/G DRY

THE APPROXIMATE COST OF THE ABOVE TESTS IS \$ 75.00

THERE IS NO CHARGE FOR THE FOLLOWING TESTS

2612601 MERCURY

B
UG/G WET

REMARKS:



FOR ENVIRONMENTAL LABORATORY

SAMPLERS'S COMMENTS: RAINBOW TROUT LIVER #1

WATER QUALITY REPORT FOR SAMPLE 311018W

TO: RESOURCE QUALITY SEC
765 BROUGHTON ST.
VICTORIA, B.C. V8V 1X5
ATTENTION OF: C MCKEAN

FOR SITE: 1130676 MCQUARRIE LAKE DEEP STN

SAMPLING DATE(S): SEP 21/83 0000 HRS
SAMPLE TYPE: FISH TISSUE
SUB-SAMPLE: 01
COMPONENT: 52
SAMPLED BY: RESOURCE QUALITY SECTION
CHARGE TO: WATER PGM (NSRC QUAL SCN)
DATE PROCESSED TO COMPUTER: SEP 28/83

0250001 MOISTURE 81.7
2

FOLLOWING ARE PACKAGE TESTS:

1192612	PHOSPHORUS :TOT	13.9 MG/G DRY	2512611	ARSENIC	L 31. UG/G DRY
2522611	BORON	L 1. UG/G DRY	2532611	CADMIUM	L 1. UG/G DRY
2542611	CALCIUM	309. UG/G DRY	2552611	CHROMIUM	L 1. UG/G DRY
2562611	COPPER	24. UG/G DRY	2572612	IRON	1.33 MG/G DRY
2582611	LEAD	L 12. UG/G DRY	2592611	MAGNESIUM	825. UG/G DRY
2602611	MANGANESE	13. UG/G DRY	2622611	MOLYBDENUM	L 1. UG/G DRY
2632611	NICKEL	L 6. UG/G DRY	2662611	ZINC	106. UG/G DRY
2672611	ALUMINIUM	L 2. UG/G DRY	2682611	CORAL	L 12. UG/G DRY
2702611	BARIUM	L 1. UG/G DRY	2722611	VANADIUM	L 1. UG/G DRY
2742611	SELENIUM	L 12. UG/G DRY	2762611	TITANIUM	L 1. UG/G DRY
2822611	TIN	L 6. UG/G DRY	2832611	BERYLLIUM	L 1. UG/G DRY

WATER QUALITY REPORT FOR SAMPLE 311018W

2842611 THALLIUM

L 25.
UG/G DRY

2872611 STRONTIUM

L 1.
UG/G DRY

2882611 TELLURIUM

L 25.
UG/G DRY


THE APPROXIMATE COST OF THE ABOVE TESTS IS \$ 75.00

THERE IS NO CHARGE FOR THE FOLLOWING TESTS

2612601 MERCURY

B
UG/G WET

REMARKS:


FOR ENVIRONMENTAL LABORATORY

SAMPLERS'S COMMENTS: RAINBOW TROUT LIVER #2

WATER QUALITY REPORT FOR SAMPLE 311019W

TO: RESOURCE QUALITY SEC
 765 BROUGHTON ST.
 VICTORIA, B.C. V8V 1X5
 ATTENTION OF: C MCKEAN

FOR SITE: 1130676 MCQUARRIE LAKE DEEP STN

SAMPLING DATE(S): SEP 21/83 0000 HRS
 SAMPLE TYPE: FISH TISSUE
 SUB-SAMPLE: 01
 COMPONENT: 53
 SAMPLED BY: RESOURCE QUALITY SECTION
 CHARGE TO: WATER PGM (RSRC QUAL SCN)
 DATE PROCESSED TO COMPUTER: SEP 28/83

0250001 MOISTURE 65.7
 %

FOLLOWING ARE PACKAGE TESTS:

1192612	PHOSPHORUS :TOT	13.6 MG/G DRY	2512611	ARSENIC	L 49. UG/G DRY
2522611	BORON	4. UG/G DRY	2532611	CADMIUM	L 2. UG/G DRY
2542611	CALCIUM	204. UG/G DRY	2552611	CHROMIUM	L 2. UG/G DRY
2562611	COPPER	95. UG/G DRY	2572612	IRON	1.68 MG/G DRY
2582611	LEAD	L 20. UG/G DRY	2592611	MAGNESIUM	749. UG/G DRY
2602611	MANGANESE	8. UG/G DRY	2622611	MOLYBDENUM	L 2. UG/G DRY
2632611	NICKEL	L 10. UG/G DRY	2662611	ZINC	138. UG/G DRY
2672611	ALUMINUM	L 4. UG/G DRY	2682611	COBALT	L 20. UG/G DRY
2702611	BARIUM	L 2. UG/G DRY	2722611	VANADIUM	L 2. UG/G DRY
2742611	SELENIUM	L 20. UG/G DRY	2762611	TITANIUM	L 2. UG/G DRY
2822611	TIN	L 10. UG/G DRY	2832611	BERYLLIUM	L 2. UG/G DRY

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WATER QUALITY REPORT FOR SAMPLE 311019W

2842611 THALLIUM

L 39.
UG/G DRY

2872611 STRONTIUM

L 2.
UG/G DRY

2882611 TELLURIUM

L 39.
UG/G DRY

THE APPROXIMATE COST OF THE ABOVE TESTS IS \$ 75.00

THERE IS NO CHARGE FOR THE FOLLOWING TESTS

2612601 MERCURY

B
UG/G WET

REMARKS:



FOR ENVIRONMENTAL LABORATORY

SAMPLERS'S COMMENTS: RAINBOW TROUT LIVER #3

WATER QUALITY REPORT FOR SAMPLE 311021W

TO: RESOURCE QUALITY SEC
 765 BROUGHTON ST.
 VICTORIA, B.C. V8V 1X5
 ATTENTION OF: C MCKEAN

FOR SITE: 1130676 MCQUARRIE LAKE DEEP STN

SAMPLING DATE(S): SEP 21/83 0000 HRS
 SAMPLE TYPE: FISH TISSUE
 SUB-SAMPLE: 01
 COMPONENT: 55
 SAMPLED BY: RESOURCE QUALITY SECTION
 CHARGE TO: WATER PGM (NSRC QUAL SEC)
 DATE PROCESSED TO COMPUTER: SEP 28/83

0250001 MOISTURE 71.7
 %

FOLLOWING ARE PACKAGE TESTS:

1192612	PHOSPHORUS :TOT	13.1 MG/G DRY	2512611	ARSENIC	L 68. UG/G DRY
2522611	BORON	L 3. UG/G DRY	2532611	CADMIUM	L 3. UG/G DRY
2542611	CALCIUM	217. UG/G DRY	2552611	CHROMIUM	L 3. UG/G DRY
2562611	COPPER	126. UG/G DRY	2572612	IRON	1.91 MG/G DRY
2582611	LEAD	L 27. UG/G DRY	2592611	MAGNESIUM	668. UG/G DRY
2602611	MANGANESE	4. UG/G DRY	2622611	MOLYBDENUM	L 3. UG/G DRY
2632611	NICKEL	L 14. UG/G DRY	2662611	ZINC	135. UG/G DRY
2672611	ALUMINUM	L 5. UG/G DRY	2682611	COBALT	L 27. UG/G DRY
2702611	BARIUM	L 3. UG/G DRY	2722611	VANADIUM	L 3. UG/G DRY
2742611	SELENIUM	L 27. UG/G DRY	2762611	TITANIUM	L 3. UG/G DRY
2822611	TIN	L 14. UG/G DRY	2832611	BERYLLIUM	L 3. UG/G DRY

FEBRUARY 23, 1984

ENVIRONMENTAL LABORATORY
MINISTRY OF THE ENVIRONMENT

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WATER QUALITY REPORT FOR SAMPLE 311021W

2842611 THALLIUM

L 54.
UG/G DRY

2872611 STRONTIUM

L 3.
UG/G DRY

2882611 TELLURIUM

L 54.
UG/G DRY

THE APPROXIMATE COST OF THE ABOVE TESTS IS \$ 75.00

THERE IS NO CHARGE FOR THE FOLLOWING TESTS

2612601 MERCURY

B
UG/G WET

REMARKS:




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FOR ENVIRONMENTAL LABORATORY

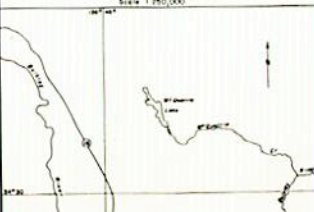
SAMPLERS'S COMMENTS: RAINBOW TROUT LIVER #5



MICROFILM AVAILABLE

NOTE  DENOTES BENCH MARK

Reduced to
33%
of Original

INSET MAP		SURVEYED BY: T.N. WEBBER DATE: SEPT 21, 1963		RESOURCE ANALYSIS BRANCH	
Scale: 1:250,000		SHORE OUTLINE FROM: AIR PHOTO BC 79075 100 JULY 1979		MINISTRY OF THE ENVIRONMENT	
		STATISTICS AT TIME OF SURVEY		BIOLOGICAL SYSTEMS SECTION	
1	ELEVATION	1061 m		DEPTHS IN METRES	
2	SURFACE AREA	2,160,000 sq m		WATERSHED CODE NO. 46-8100	
3	VOLUME	10,955,000 m ³		PERSON: S. P.	UTM CO-ORDINATE: 9 8505 40300
4	EST. ANNUAL FLUCTUATION	—		DATE: FEB 14, 1984	DRAWN: R.S.D.
5	MEAN DEPTH	4.7 m		CALCULATIONS: T.N.W.	CHECK: D.J.S.
6	MAX. DEPTH	11 m		PLOTTING: T.N.W.	APPROVED: <i>J.A. Bell</i>
7	PERIMETER	12,400 m (1 + 10991 122 m)		FILE NO.	93L/10
8	AREA, ABOVE 6 m CONTOUR	1,460,000 sq m			
9	HEIGHT OF BENCH MARK ABOVE WATER LEVEL	2 m			