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FISS Report

Gazetted Name : HORSEFLY RIVER
 Watershed Code : 160-635400
 Waterbody Identifier : 00000HORS
 Region : 5
 Alias :
 Type : S
 Report created on : [Thu May 13 12:52:05 PDT 2010](#)

Water Quality Stations

No records found

Water Survey Stations

Station ID	Geo Ref 1	Geo Ref 2
08KH007	P 093A06 5039	
08KH010	P 093A06 7	

Management Objectives

Habitat Type	Objective 1	Objective 2
Anadromous River		

Enhancement

Activity	Start Year	Finish Year	Species Name	Comments	Reference Number	Geo Ref 1	Geo Ref 2
110 Water Quality and Quantity	1955			(WATER SURVEY OF CANADA STATION.)	WSCANDB	P 093A06 7	
110 Water Quality and Quantity	1994			(STREAM TEMPERATURE AND SEDIMENTATION MEASURED.)	HQ1706	P 093A06 5132	
				(STREAM		P	

110 Water Quality and Quantity	1994			TEMPERATURE AND SEDIMENTATION MEASURED.)	HQ1706	093A065523	
215 Biophysical Inventory/Assessment	2001	2001		Assessment and evaluation of recent LWD placement and planting.	DFO160	P 093A0612820	
215 Biophysical Inventory/Assessment	1996	1997	Rainbow Trout		HQ1291	P 093A07101	
215 Biophysical Inventory/Assessment	1996	1999	Rainbow Trout		HQ1291	P 093A07102	
215 Biophysical Inventory/Assessment	1996	1999	No Fish Caught (FISS, FDIS)		HQ1291	P 093A07104	
215 Biophysical Inventory/Assessment	1996	1999	No Fish Caught (FISS, FDIS)	ELECTROFISHING, MINNOW TRAPPING, ANGLING	HQ1291	P 093A07106	
215 Biophysical Inventory/Assessment	1996	1999	No Fish Caught (FISS, FDIS)	ELECTROFISHING, MINNOW TRAPS.	HQ1291	P 093A07108	
215 Biophysical Inventory/Assessment	1996	1999	No Fish Caught (FISS, FDIS)		HQ1291	P 093A07109	
215 Biophysical Inventory/Assessment	1996	1999	No Fish Caught (FISS, FDIS)		HQ1291	P 093A07110	
215 Biophysical Inventory/Assessment	1996	1999	No Fish Caught (FISS, FDIS)		HQ1291	P 093A07111	
215 Biophysical Inventory/Assessment	1996	1999	No Fish Caught (FISS, FDIS)	ELECTROFISHED	HQ1291	P 093A07112	
Stream Classification (for Forest Practice Code)	1998	1998		S1-EXCELLENT FISH HABITAT	HQ1933	P 093A07125	
Stream Classification (for Forest Practice Code)	1998	1998		S2-EXCELLENT FISH HABITAT	HQ1933	P 093A07126	
Stream Classification (for Forest Practice Code)	1998	1998		S2-EXCELLENT FISH HABITAT	HQ1933	P 093A07127	
Stream Classification (for Forest Practice Code)	1998	1998		S2-EXCELLENT FISH HABITAT	HQ1933	P 093A07129	
Stream Classification				S1 OR S5-EXCELLENT FISH		P	

(for Forest Practice Code)	1998	1998		HABITAT BUT UPSTREAM OF FALLS BARRIER	HQ1933	093A07 130	
110 Water Quality and Quantity	1994			(STREAM TEMPERATURE AND SEDIMENTATION MEASURED.)	HQ1706	P 093A07 5535	
110 Water Quality and Quantity	1994			(STREAM TEMPERATURE AND SEDIMENTATION MEASURED.)	HQ1706	P 093A07 5536	
110 Water Quality and Quantity	1994			(STREAM TEMPERATURE AND SEDIMENTATION MEASURED.)	HQ1706	P 093A07 5537	
110 Water Quality and Quantity	1994			(STREAM TEMPERATURE AND SEDIMENTATION MEASURED.)	HQ1706	P 093A07 5538	
110 Water Quality and Quantity	1994			(STREAM TEMPERATURE AND SEDIMENTATION MEASURED.)	HQ1706	P 093A07 5539	
110 Water Quality and Quantity	1981	1983		Surface water and snow was sampled for pH, alkalinity and metals between 1981 and 1983.	29G-46	P 093A07 345984	
210 Biophysical Surveys (unspecified)	1999	1999		THIS STRETCH WAS SURVEYED AND POTENTIAL RESTORATION PRESCRIPTIONS GIVEN FOR 11 TRIBUTARIES ALONG THE LEFT BANK.	HQ2073	U 093A06 47	D 093A06 5523
120 Habitat Enhancement (unspecified)	2001	2002	Coho Salmon, Chinook Salmon, Steelhead, Rainbow Trout, Dolly Varden, Bull Trout	3 low areas were dredged to allow fish to emigrate downstream as floodwaters recede. Oxbows and dead-end ditches were trenched to ensure connectivity with mainstem Horsefly.	DFO153	U 093A06 12094	D 093A06 12093
122 Rearing Habitat Enhancement	2001	2002		10,000 cuttings were planted.	DFO153	U 093A06 12094	D 093A06 12093
123 Bank Stabilization	2001	2002		Dike breaches were armoured, sloped and revegetated.	DFO153	U 093A06 12094	D 093A06 12093

Coho
Salmon,
Chinook
Salmon,

140 Barrier Modification/Obstruction Removal (unspecified)	2001	2002	Steelhead, Rainbow Trout, Dolly Varden, Bull Trout	Dike was breached in 3 places	DFO153	U 093A06 12094	D 093A06 12093
215 Biophysical Inventory/Assessment	2001	2001		Assessment and evaluation of recent restoration work.	DFO160	U 093A06 12094	D 093A06 12093
123 Bank Stabilization	1999	2000	Coho Salmon, Sockeye Salmon, Chinook Salmon	Activities include bank revetment and pulling back the river bank to a more gradual slope to help deal with bank erosion.	DFO062	W 49365	
131 Lake Rehabilitation (chemical)	0999			LAKE FERTILIZATION.	29G-43	W 49365	
132 Riparian	1999	2000		A significant area of planting willows and conifers was completed on The Land Conservancy property.	DFO062	W 49365	
133 Exclusion Fencing	1999	2000	Coho Salmon, Sockeye Salmon, Chinook Salmon	A significant area of cattle fencing was completed on The Land Conservancy property, especially on the right bank of the river.	DFO062	W 49365	
143 Fishway	0999			FISH LADDER ON MAIN FALLS 3km UPSTREAM OF THE MCKINLEY CREEK CONFLUENCE.	29G-43	W 49365	
151 Stocking/Colonization	0999	1991	Rainbow Trout		29G-43	W 49365	
151 Stocking/Colonization	1960	1960	Steelhead		REL-SUM	W 49365	
151 Stocking/Colonization	1989	1991	Rainbow Trout		REL-SUM	W 49365	
1511 Colonization (species not present)	1984		Chinook Salmon	EGGS REARED AT QUESNEL HATCHERY.	29G-14	W 49365	
1511 Colonization (species not present)	1982	1986	Chinook Salmon	HORSEFLY RIVER.	29G-40	W 49365	
1514 Trap/Truck	1985		Sockeye Salmon	32,000 AIR LIFTED OVER FALLS.	29G-40	W 49365	
152 Artificial Production (unspecified)	0999		Chinook Salmon, Coho Salmon	ENHANCEMENT PROPOSALS SHOULD RECOGNIZE THE NECESSITY FOR PARALLEL CULTURE OF COHO AND CHINOOK. MAJORITY OF HATCHERY PRODUCTION	29G-26	W 49365	

				SHOULD FOCUS ON 90-DAY FRY. (SPAWNING CHANNEL. REF#=29G-43) (ADDITIONAL 20,000sq.m SPAWNING CHANNEL PROPOSED BELOW HORSEFLY FALLS. REF#=EW309)			
1521 Spawning Channel	0999		Sockeye Salmon	20,000sq.m SPAWNING CHANNEL PROPOSED BELOW HORSEFLY FALLS. REF#=EW309)	29G-43 EW309	W	49365
1521 Spawning Channel	1989		Sockeye Salmon	OPERATIONAL IN 1989 - 23,800 SPAWNERS COUNTED. (TEMPERATURE REGIME AND WATER QUALITY PARAMETERS MEASURED. REF#=29K-68) (HORSEFLY RIVER, CROOKED AND MCKINLEY LAKES ASSESSED FOR SENSITIVITY TO ACIDIFICATION. REF#=29G-46) (SEP BIORECONNAISSANCE DATA FOR HORSEFLY SYSTEM SUMMARIZE IN 1986. REF#=29I-103) (WATER QUALITY DISCUSSED. REF#=29G-31) (ON DOMINANT YEARS' RETURNS TO TRIBUTARY OF QUESNEL LAKE ARE INCLUDED IN HORSEFLY BC 16'S. 1985 WAS LAST DOMINANT YEAR, FOUR YEAR CYCLE. REF#=29G-41)	29G-45	W	49365
210 Biophysical Surveys (unspecified)	0999		Sockeye Salmon	(TEMPERATURE REGIME AND WATER QUALITY PARAMETERS MEASURED. REF#=29K-68) (HORSEFLY RIVER, CROOKED AND MCKINLEY LAKES ASSESSED FOR SENSITIVITY TO ACIDIFICATION. REF#=29G-46) (SEP BIORECONNAISSANCE DATA FOR HORSEFLY SYSTEM SUMMARIZE IN 1986. REF#=29I-103) (WATER QUALITY DISCUSSED. REF#=29G-31) (ON DOMINANT YEARS' RETURNS TO TRIBUTARY OF QUESNEL LAKE ARE INCLUDED IN HORSEFLY BC 16'S. 1985 WAS LAST DOMINANT YEAR, FOUR YEAR CYCLE. REF#=29G-41)	29G-31 29G-41 29G-46 29I-103 29K-68	W	49365
213 Fish Sampling	1986	1988	Rainbow Trout	(FLOY TAGGING PROGRAM CONDUCTED ON HORSEFLY RIVER BETWEEN 1986 AN 1988. REF# = 5660)	5660	W	49365
			Sockeye	ENUMERATION OF ADULTS AND JUVENILES IN DOMINANT AND		W	

214 Mark Recovery	1953		Salmon	SUBDOMINANT YEARS. JACKS ARE ALSO COUNTED IN YEARS PRECEDING THE DOMINANT RUN.	29G-45	49365	
214 Mark Recovery	1985	1986	Rainbow Trout	RADIO TRANSMITTERS AND SPAGETTI TAGGING PROGRAM.	29G-42	W 49365	
215 Biophysical Inventory/Assessment	0999		Chinook Salmon, Sockeye Salmon	(ADULT AND JUVENILE CHINOOK DISEASE ANALYSIS. REF#=29G-26)	29G-26 29G-28	W 49365	
215 Biophysical Inventory/Assessment	1996	1996			HQ1861	W 49365	
215 Biophysical Inventory/Assessment	2001	2002			DFO160	W 49365	
240 Management Plan	1996	1996			HQ1861	W 49365	

Harvests and Uses

No records found

Resource Use

Sector	Catch (High / Low)	Catch (mean)	Effort (high / low)	Effort (mean)	Season	Comments	Start / End Year	Reference Number	Geo Ref 1	Geo Ref 2
Guides /			15 / 1	7			0191 / 1931	SUM-1	W 49365	
Guides /			87 / 4	47			1990 / 1993	SUM-1	W 49365	

Resource Values

Description	Comments	Reference Number	Geo Ref 1	Geo Ref 2
Viewing sites	(HQ2324) POPULAR SPOT FOR VIEWING SPAWNING SOCKEYE SALMON IN THE NATURAL RIVER COURSE AND IN THE MAN-MADE SPAWNING CHANNELS. THE MAN-MADE SPAWNING CHANNELS RUN ON BOTH SIDES OF THE ROUAD JUST SOUTH OF THE TOWN OF HORSEFLY. KOKANEE ALSO SPAWN HERE DURING SEPT AND OCT AND CAN BE SEEN FROM THE BRIDGE ON HTE LITTLE HORSEFLY RIVER. DRIVE NORTH OF 150 MILE HOUSE TO HORSEFLY THEN EAST OF HORSEFLY FOR 1.5 KM. CAMPING	HQ2324	P 093A06 9	

IS AVAILABLE NEAR HORSEFLY.

Resource Sensitivities

Description	Comments	Reference Number	Geo Ref 1	Geo Ref 2
Sensitive habitat	CUTBLOCKS ALONG SOUTHERN EDGE OF CHANNEL. SENSITIVE IS FOLLOW UP SAMPLING PROVES A FISH PRESENCE	HQ1291	P 093A07 106	
Sensitive fish stock	The Horsefly sockeye run was in poorer conditions than the other runs in 1998, as indicated by length of time to death, recovery from tagging operations, and estimates of spawning success.	DFO371	W 49365	

Land Use

Description	Comments	Reference Number	Geo Ref 1	Geo Ref 2
Agriculture	RANCHLANDS - GRAZING AND HAYING	HQ2073	U 093A06 47	D 093A06 5523
Agriculture	EXTENSIVE FROM MCKINLEY CREEK DOWNSTREAM.	29G-41	W 49365	
Bridge	BRIDGES IN SYSTEM.	29G-40	W 49365	
Forestry		29G-41 29G-57 EW294 EW298	W 49365	
Land use (general/unspecified land use)		29G-42 EW298	W 49365	
Placer mining		29G-41 EW294	W 49365	

Fisheries Potentials and Constraints

Activity	Impact	Degree of Impact	Comments	Species Name	Reference Number	Geo Ref 1	Geo Ref 2
SPAWNING HABITAT	Describing constraint for increasing fisheries production	Not Specified	Valuable chinook and sockeye spawning gravels are under stress due to agricultural impacts.	Sockeye Salmon Chinook Salmon	DFO062	U 093A06 5	D 093A06 6
7413 Lateral/stream/bank erosion	Describing constraint for increasing fisheries production	Not Specified	RIVER MEANDERS THROUGH FLOODPLAIN, MOVING LATERALLY. EROSION FROM AGRICULTURAL SOURCES ALSO.		HQ2073	U 093A06 47	D 093A06 5523

760 Alienated Habitat	Describing constraint for increasing fisheries production	Not Specified	THERE ARE A NUMBER OF MEANDER LOOP CUTOFFS IN THIS REGION		HQ2073	U 093A06 47	D 093A06 5523
SAND	Describing constraint for increasing fisheries production	Not Specified	DEEP, FINE-GRAINED SOILS		HQ2073	U 093A06 47	D 093A06 5523
511 High Temperature	Describing constraint for increasing fisheries production	high	Indications were that both fertilization success and hatching rates were impaired as a result of high temperatures during migration and spawning among early Horsefly spawners in 1998.	Sockeye Salmon	DFO371	W 49365	
700 Habitat	Not identified as either potential or constraint	Not Specified	LOWER PORTION OF RIVER IS PREDOMINANTLY SILT AND COMPACTED SAND.		29G-8	W 49365	
711 Quantity/Amount (SPAWNING HABITAT)	Describing potential for increasing fisheries production	Not Specified	USEABLE SOCKEYE SPAWNING HABITAT ESTIMATED FOR UPPER HORSEFLY AND MCKINLEY SYSTEMS.		29K-68	W 49365	
741 Erosion/sedimentation	Describing constraint for increasing fisheries production	high	LOGGED AREAS AND CLEARED AGRICULTURE SITES HAVE REMOVED RIPARIAN VEGETATION CAUSING BANK INSTABILITY AND MAJOR SEDIMENT INPUTS		HQ1861	W 49365	
800 BIOTIC INTERACTIONS	Describing constraint for increasing fisheries production	Not Specified	SOCKEYE RUNS ARE SUBJECT TO FREQUENT LARGE PRESPAWNING MORTALITY, AGENT NOT ISOLATED.		29G-12	W 49365	

Obstructions

Description	Height	Length	Comments	Species Name	Reference Number	Geo Ref 1	Geo Ref 2
Falls	10	0	3km. UPSTREAM OF MCKINLEY CREEK		29G-5	P 093A06 4	
Falls	0	0	APPROX. 2km> UPSTREAM OF MCKUSKY CREEK.		EW276	P 093A07 5	
Cascade	4	0	MAY BE PASSABLE AT DIFFERENT FLOW LEVELS.	All Fish	HQ1291	P 093A07 103	
Falls	4	0	A DEFINITE BARRIER	All Fish	HQ1291	P 093A07 105	

Escapements

Species Name	Stock	Ten Year Start / End	Ten Year Mean / Max	Max Esc Year	Max. Escapements	Target esc.	Reference Number	Geo Ref 1	Geo Ref 2
Chinook Salmon		1981 / 1992	335 /				HQ1861	W 49365	
Chinook Salmon		1989 / 1998	738 / 4154	4154	4154		DFO_ESC	W 49365	
Chinook Salmon		1990 / 1999	700 / 4154	4154	4154		NUSEDS-SUM	W 49365	
Coho Salmon		1989 / 1998	85 / 85	85	85		DFO_ESC	W 49365	
Coho Salmon		1998 / 1998	85 / 85	85	85		NUSEDS-SUM	W 49365	
Sockeye Salmon		1981 / 1992	335424 /				HQ1861	W 49365	
Sockeye Salmon		1989 / 1998	487025 / 1650083	1650083	1650083		DFO_ESC	W 49365	
Sockeye Salmon		1995 / 2000	207285 / 929960	1650083	1650083		NUSEDS-SUM	W 49365	

Fish Distributions

Species Name	Stock / Stock Type	Stock Char	Management Class	Activity	Comments	Refs And Dates	Geo Ref 1	Geo Ref 2
Brassy Minnow	/ NOT SPECIF	Not Specif	Not Specified	OBL Fish observed at this point or zone		(5678, 01-JAN-1993)	P 093A06 5132	
Brassy Minnow	/ NOT SPECIF	Not Specif	Not Specified	OBL Fish observed at this point or zone		(5678, 01-JAN-1993)	P 093A06 5133	
Burbot	/ NOT SPECIF	Not Specif	Not Specified	OBL Fish observed at this point or zone		(5112, 01-MAY-1996)	P 093A08 5043	
Chinook Salmon	/ NOT SPECIF	Anadromous	Not Specified	OBL Fish observed at this point or zone	(THIS IS THE UPPER LIMIT OF DISTRIBUTION FOR CHINOOK SALMON. REF# = SISSM01)	(SISSM01, 01-JAN-1995)	U 093A06 3	
Chinook	/ NOT			OBL Fish observed			P	

Salmon	SPECIF	Anadromous	Not Specified	at this point or zone		(5112, 01-MAY-1996)	093A06 40	
Chinook Salmon	/ NOT SPECIF	Anadromous	Not Specified	OBL Fish observed at this point or zone		(5112, 01-MAY-1996)	P 093A06 5040	
Chinook Salmon	/ NOT SPECIF	Anadromous	Not Specified	OBL Fish observed at this point or zone		(5112, 01-MAY-1996)	P 093A06 5041	
Chinook Salmon	/ NOT SPECIF	Anadromous	Not Specified	OBL Fish observed at this point or zone		(5112, 01-MAY-1996)	P 093A06 5043	
Chinook Salmon	/ NOT SPECIF	Anadromous	Not Specified	SPM Major spawning location	(3.7km DOWNSTREAM AND 2.5km UPSTREAM OF MCKINLET CREEK. REF#=EW282 (NEAR MCKINLEY CREEK. REF#=29G-2)	(29G-2, 01-JAN-1980) (EW282, 01-JAN-1993)	U 093A06 5	D 093A06 6
Chinook Salmon	/ NOT SPECIF	Anadromous	Not Specified	SPM Major spawning location	MAJOR SPAWNING 3.8km UPSTREAM AND 0.7km DOWNSTREAM OF LITTLE HORSEFLY RIVER.	(29G-2, 01-JAN-1980) (EW282, 01-JAN-1993)	U 093A06 12	D 093A06 13
Chinook Salmon	/ NOT SPECIF	Anadromous	Not Specified	SPM Major spawning location	MAJOR SPAWNING FOR 14km ON HORSEFLY RIVER BETWEEN 1km UPSTREAM OF SUCKER CREEK AND 2km DOWNSTREAM OF MOFFAT CREEK.	(29G-2, 01-JAN-1980) (EW282, 01-JAN-1993)	U 093A06 8	D 093A06 9
Coho Salmon	/ NOT SPECIF	Anadromous	Not Specified	OBL Fish observed at this point or zone	MCKINLEY CREEK TO LAKE AND IN UPPER TRIBUTARIES.	(29G-40, 01-JAN-1986)	W 49365	
Coho Salmon	/ NOT SPECIF	Anadromous	Not Specified	OBL Fish observed at this point or		(5112, 01-MAY-1996)	P 093A06 40	

				zone				
Coho Salmon	/ NOT SPECIF	Anadromous	Not Specified	OBL Fish observed at this point or zone		(5112, 01-MAY-1996)	P	093A06 5041
Dolly Varden	/ NOT SPECIF	Not Specif	Not Specified	OBL Fish observed at this point or zone	PRESENCE NOTED.	(29G-42, 01-JAN-1986)	W	49365
Kokanee	/ NOT SPECIF	Not Specif	Not Specified	OBL Fish observed at this point or zone		(29G-42, 01-JAN-1986)	W	49365
Leopard Dace	/ NOT SPECIF	Not Specif	Not Specified	OBL Fish observed at this point or zone		(5112, 01-MAY-1996)	P	093A06 5040
Leopard Dace	/ NOT SPECIF	Not Specif	Not Specified	OBL Fish observed at this point or zone		(5112, 01-MAY-1996)	P	093A06 5041
Leopard Dace	/ NOT SPECIF	Not Specif	Not Specified	OBL Fish observed at this point or zone		(5112, 01-MAY-1996)	P	093A06 5043
Longnose Dace	/ NOT SPECIF	Not Specif	Not Specified	OBL Fish observed at this point or zone		(5112, 01-MAY-1996)	P	093A06 40
Longnose Dace	/ NOT SPECIF	Not Specif	Not Specified	OBL Fish observed at this point or zone		(5112, 01-MAY-1996)	P	093A06 5040
Longnose Dace	/ NOT SPECIF	Not Specif	Not Specified	OBL Fish observed at this point or zone		(5112, 01-MAY-1996)	P	093A06 5041
Mountain Whitefish	/ NOT SPECIF	Not Specif	Not Specified	OBL Fish observed at this point or zone	PRESENCE NOTED.	(29G-2, 01-JAN-1980)	W	49365
Mountain Whitefish	/ NOT SPECIF	Not Specif	Not Specified	OBL Fish observed at this point or zone		(5112, 01-MAY-1996)	P	093A06 5040

Mountain Whitefish	/ NOT SPECIF	Not Specif	Not Specified	OBL Fish observed at this point or zone		(5112, 01-MAY-1996)	P	093A06	5041
Mountain Whitefish	/ NOT SPECIF	Not Specif	Not Specified	OBL Fish observed at this point or zone		(5112, 01-MAY-1996)	P	093A06	5043
Northern Pikeminnow (formerly N. Squawfish)	/ NOT SPECIF	Not Specif	Not Specified	OBL Fish observed at this point or zone		(5112, 01-MAY-1996)	P	093A06	40
Northern Pikeminnow (formerly N. Squawfish)	/ NOT SPECIF	Not Specif	Not Specified	OBL Fish observed at this point or zone		(5112, 01-MAY-1996)	P	093A06	5040
Rainbow Trout	/ NOT SPECIF	Adfluvial	Not Specified	SPL Spawning location	JUST UPSTREAM OF VILLAGE TO JUST UPSTREAM OF SUCKER CREEK.	(29G-40, 01-JAN-1986)	U	093A06	093A06 40 39
Rainbow Trout	/ NOT SPECIF	Fluvial	Not Specified	OBL Fish observed at this point or zone	ELECTROFISHED	(HQ1933, 01-OCT-1998)	P	093A07	127
Rainbow Trout	/ NOT SPECIF	Fluvial	Not Specified	OBL Fish observed at this point or zone	ELECTROFISHED	(HQ1933, 01-OCT-1998)	P	093A07	129
Rainbow Trout	/ NOT SPECIF	Fluvial	Not Specified	OBL Fish observed at this point or zone		(HQ1933, 01-OCT-1998)	P	093A07	125
Rainbow Trout	/ NOT SPECIF	Fluvial	Not Specified	OBL Fish observed at this point or zone		(HQ1933, 01-OCT-1998)	P	093A07	126
Rainbow Trout	/ NOT SPECIF	Not Specif	Not Specified	OBL Fish observed at this point or zone	3 CAUGHT IN MINNOW TRAPS, RANGE 60-115mm	(HQ1291, 01-JUL-1999)	P	093A07	101
Rainbow Trout	/ NOT SPECIF	Not Specif	Not Specified	OBL Fish observed at this point or zone	PRESENT ON MAP	(SISSM01, 01-JAN-1995)	U	093A07	5
				OBL Fish					

Rainbow Trout	/ NOT SPECIF	Not Specif	Not Specified	observed at this point or zone		(5057, 01-JAN-1996)	P 093A07 5017	
Rainbow Trout	/ NOT SPECIF	Not Specif	Not Specified	OBL Fish observed at this point or zone		(5112, 01-MAY-1996)	P 093A06 40	
Rainbow Trout	/ NOT SPECIF	Not Specif	Not Specified	OBL Fish observed at this point or zone		(5112, 01-MAY-1996)	P 093A06 5040	
Rainbow Trout	/ NOT SPECIF	Not Specif	Not Specified	OBL Fish observed at this point or zone		(5112, 01-MAY-1996)	P 093A06 5041	
Rainbow Trout	/ NOT SPECIF	Not Specif	Not Specified	OBL Fish observed at this point or zone		(5112, 01-MAY-1996)	P 093A06 5043	
Rainbow Trout	/ NOT SPECIF	Not Specif	Not Specified	OBL Fish observed at this point or zone		(HQ1291, 01-JUL-1999)	P 093A07 102	
Rainbow Trout	/ NOT SPECIF	Not Specif	Not Specified	SPL Spawning location		(5617, 01-MAY-1989)	P 093A06 5079	
Rainbow Trout	/ NOT SPECIF	Not Specif	Not Specified	SPL Spawning location		(5617, 01-MAY-1989)	P 093A06 5082	
Rainbow Trout	/ NOT SPECIF	Not Specif	Not Specified	SPM Major spawning location	FROM BLACK CREEK TO FALLS.	(29G-40, 01-JAN-1986)	U 093A06 3	D 093A06 41
Rainbow Trout	/ NOT SPECIF	Not Specif	Not Specified	SPM Major spawning location	MAJOR SPAWN JUST UPSTREAM OF LITTLE HORSEFLY RIVER FOR 2km>	(29G-40, 01-JAN-1986)	U 093A06 38	D 093A06 37
Rainbow Trout	/ NOT SPECIF	Not Specif	Not Specified	SPM Major spawning location		(5617, 01-MAY-1989)	U 093A06 5081	D 093A06 5080
Rainbow Trout	919 / NOT SPECIF	Not Specif	Hatchery production	OBL Fish observed at this point or zone		(REL-SUM, no date)	W 49365	
Rainbow	920 / NOT	Not Specif	Hatchery	OBL Fish observed at this		(REL-SUM, no date)	W	

Trout	SPECIF		production	point or zone			49365	
Redside Shiner	/ NOT SPECIF	Not Specif	Not Specified	OBL Fish observed at this point or zone		(5112, 01-MAY-1996)	P 093A06 5040	
Sockeye Salmon	/ NOT SPECIF	Anadromous	Not Specified	OBL Fish observed at this point or zone	(THIS IS THE UPPER LIMIT OF DISTRIBUTION FOR SOCKEYE SALMON. REF# = SISSM01)	(SISSM01, 01-JAN-1995)	U 093A06 3	
Sockeye Salmon	/ NOT SPECIF	Anadromous	Not Specified	SPL Spawning location	LOCALIZED SPAWNING 2.6km DOWNSTREAM OF TISDALE CREEK.	(EW282, 01-JAN-1993)	P 093A06 34	
Sockeye Salmon	/ NOT SPECIF	Anadromous	Not Specified	SPL Spawning location	LOCALIZED SPAWNING 3.8km UPSTREAM OF SUCKER CREEK.	(EW282, 01-JAN-1993)	P 093A06 35	
Sockeye Salmon	/ NOT SPECIF	Anadromous	Not Specified	SPL Spawning location	SPAWNING THROUGHOUT B13km UPSTREAM OF QUESNEL LAKE	(29G-2, 01-JAN-1980) (EW282, 01-JAN-1993)	U 093A06 36	
Sockeye Salmon	/ NOT SPECIF	Anadromous	Not Specified	SPM Major spawning location	(HEAVIEST CONCENTRATION IF FROM BELOW WILMOTT CREEK UP TO FALLS REF#=29G-2)	(29G-2, 01-JAN-1980)	U 093A06 5	D 093A06 6
Sockeye Salmon	/ NOT SPECIF	Anadromous	Not Specified	SPM Major spawning location	MAJOR SPAWNING 3.8km UPSTREAM AND 0.7km DOWNSTREAM OF LITTLE HORSEFLY RIVER.	(29G-2, 01-JAN-1980) (EW282, 01-JAN-1993)	U 093A06 12	D 093A06 13
Sockeye Salmon	/ NOT SPECIF	Anadromous	Not Specified	SPM Major spawning location	MAJOR SPAWNING FOR 14km ON HORSEFLY RIVER BETWEEN 1km UPSTREAM OF SUCKER CREEK AND 2km DOWNSTREAM OF MOFFAT CREEK.	(29G-2, 01-JAN-1980) (EW282, 01-JAN-1993)	U 093A06 8	D 093A06 9
Steelhead	305 / NOT SPECIF	Not Specif	Hatchery production	OBL Fish observed at this point or		(REL-SUM, no date)	W 49365	

Sucker (General)	/ NOT SPECIF	Not Specif	Not Specified	zone OBL Fish observed at this point or zone	PRESENCE NOTED.	(29G-42, 01-JAN-1986)	W 49365
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Species and Life Phase History

Species Name	Stock	Comments	Reference Number	Geo Ref 1	Geo Ref 2
Chinook Salmon			DFO_HIST	W 49365	
Sockeye Salmon			DFO_HIST	W 49365	

The activity period for any species is divided into two blocks of day 1-15 and day 16 to month end. Match the activity period of the species you are interested in to the corresponding period on the calendar provided.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
Migration	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Spawning	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Incubation	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Rearing	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

Species Name	Activity	Life Cycle Stage	Time of Year
Chinook Salmon	X	Migration	15
Chinook Salmon	X	Spawning	16
Chinook Salmon	X	Spawning	17
Chinook Salmon	X	Incubation	1
Chinook Salmon	X	Incubation	2
Chinook Salmon	X	Incubation	3
Chinook Salmon	X	Incubation	4
Chinook Salmon	X	Incubation	5
Chinook Salmon	X	Incubation	6
Chinook Salmon	X	Incubation	18
Chinook Salmon	X	Incubation	19
Chinook Salmon	X	Incubation	20
Chinook Salmon	X	Incubation	21
Chinook Salmon	X	Incubation	22
Chinook Salmon	X	Incubation	23
Chinook Salmon	X	Incubation	24
Sockeye Salmon	X	Migration	15
Sockeye Salmon	X	Spawning	16
Sockeye Salmon	X	Spawning	17
Sockeye Salmon	X	Incubation	1
Sockeye Salmon	X	Incubation	2

Sockeye Salmon	X	Incubation	3
Sockeye Salmon	X	Incubation	4
Sockeye Salmon	X	Incubation	5
Sockeye Salmon	X	Incubation	6
Sockeye Salmon	X	Incubation	18
Sockeye Salmon	X	Incubation	19
Sockeye Salmon	X	Incubation	20
Sockeye Salmon	X	Incubation	21
Sockeye Salmon	X	Incubation	22
Sockeye Salmon	X	Incubation	23
Sockeye Salmon	X	Incubation	24

You can match the activity code for a species to the table below for more detailed information.

Code	Description
X	Activity occurring

Fiss References

Search EcoCat for keywords: [HORSEFLY RIVER](#)

Reference Number : 29G-26

Title : 1979 investigations of fall-spawning chinook salmon (*Oncorhynchus tshawytscha*), Nechako and Quesnel/Horsefly Rivers, B.C. Prepared for DFO, Fisheries Operations by EVS Consultants Ltd. 86p. 1980

Description : CH; enhancement; fish sampling; habitat sampling; population sampling; physical habitat; rearing; water quality

Location : DFO - FRASER R., NORTHERN B.C. YUKON DIVISION - NEW WEST

Reference code : Government Report

Year : 1980

Author : OLMSTED, W.R.

Reference Number : 29G-26

Title : 1979 investigations of fall-spawning chinook salmon (*Oncorhynchus tshawytscha*), Nechako and Quesnel/Horsefly Rivers, B.C. Prepared for DFO, Fisheries Operations by EVS Consultants Ltd. 86p. 1980

Description : CH; enhancement; fish sampling; habitat sampling; population sampling; physical habitat; rearing; water quality

Location : DFO - FRASER R., NORTHERN B.C. YUKON DIVISION - NEW WEST

Reference code : Government Report

Year : 1980

Author : VIGERS, G.A.

Reference Number : 29G-26

Title : 1979 investigations of fall-spawning chinook salmon (*Oncorhynchus tshawytscha*), Nechako and Quesnel/Horsefly Rivers, B.C. Prepared for DFO, Fisheries Operations by EVS Consultants Ltd. 86p. 1980

Description : CH; enhancement; fish sampling; habitat sampling; population sampling; physical habitat; rearing; water quality

Location : DFO - FRASER R., NORTHERN B.C. YUKON DIVISION - NEW WEST

Reference code : Government Report

Year : 1980

Author : WHELEN, M.

Reference Number :	EW309
Title :	A preliminary review of enhancement opportunities for the Thompson and Quesnel River drainage basin
Description :	Unpublished report
Location :	DFO, Fraser River Action Plan, Vancouver, BC
Reference code :	Government Report
Year :	1991
Author :	LAMONT, C.A.

Reference Number : 29I-103

Title : A review of International Pacific Salmon Fisheries Commission bioreconnaissance data, with reference to proposed Fraser River system sockeye and pink salmon enhancement projects. Prep for SEP, New Projects Unit, by Northern Natural Resource Se 1986

Description : Enhancement; incubation; migration; PK; physical habitat; SK; temperature; water quality

Location : DFO - FRASER R., NORTHERN B.C. YUKON DIVISION - NEW WEST

Reference code : Government Report

Year : 1986

Author : ELSON, M.S.

Reference Number :	29I-103
Title :	A review of International Pacific Salmon Fisheries Commission bioreconnaissance data, with reference to proposed Fraser River system sockeye and pink salmon enhancement projects. Prep for SEP, New Projects Unit, by Northern Natural Resource Se 1986
Description :	Enhancement; incubation; migration; PK; physical habitat; SK; temperature; water quality
Location :	DFO - FRASER R., NORTHERN B.C. YUKON DIVISION - NEW WEST
Reference code :	Government Report
Year :	1986
Author :	GRAVES, M.

Reference Number : 29I-103

Title : A review of International Pacific Salmon Fisheries Commission bioreconnaissance data, with reference to proposed Fraser River system sockeye and pink salmon enhancement

projects. Prep for SEP, New Projects Unit, by Northern Natural Resource Se 1986

Description : Enhancement; incubation; migration; PK; physical habitat; SK; temperature; water quality
 Location : DFO - FRASER R., NORTHERN B.C. YUKON DIVISION - NEW WEST
 Reference code : Government Report
 Year : 1986
 Author : PUGH, J.D.

Reference Number :	HQ1861
Title :	APPLYING CCLUP SALMON FISHERIES TARGETS AND STRATEGIES: A HYDROLOGIC AND CHANNEL ANALYSIS BLACK CREEK ASSESSMENT (DRAFYY LANDSCAPE) UNIT BRITISH COLUMBIA FINAL REPORT
Description :	110 PAGES
Location :	
Reference code :	Consultant Report
Year :	1996
Author :	COAST RIVER ENVIRONMENTAL SERVICES LTD.

Reference Number : HQ1861
 Title : APPLYING CCLUP SALMON FISHERIES TARGETS AND STRATEGIES: A HYDROLOGIC AND CHANNEL ANALYSIS BLACK CREEK ASSESSMENT (DRAFYY LANDSCAPE) UNIT BRITISH COLUMBIA FINAL REPORT
 Description : 110 PAGES
 Location :
 Reference code : Consultant Report
 Year : 1996
 Author : NORTHWEST HYDRAULIC CONSULTANTS LTD.

Reference Number :	DFP001
Title :	Addition of zones & points re: FISS maps for fish distribution for G.I.S. display purposes
Description :	Addition of zones & points re: FISS maps for fish distribution for G.I.S. display purposes
Location :	MELP, Fisheries Branch, Victoria
Reference code :	Unpublished Government Report
Year :	1995
Author :	PHILIP, D.F.

Reference Number : DFO160
 Title : BIOPHYSICAL EVALUATION OF FISH HABITAT RESTORATION PROJECTS IN THE UPPER FRASER AREA
 Description : HRSEP 2001/02 Final Report; 10 pp.
 Location : DFO, Vancouver
 Reference code : Government Report
 Year : 2002

Author : DEPARTMENT OF FISHERIES AND OCEANS

Reference Number :	DFO153
Title :	BLACK CREEK RANCH DIKE BREACHING
Description :	HRSEP 2001/02 Final Report; 19 pp.
Location :	DFO, Vancouver
Reference code :	Government Report
Year :	2002
Author :	DEPARTMENT OF FISHERIES AND OCEANS

Reference Number :	HQ2324
Title :	BRITISH COLUMBIA WILDLIFE VIEWING GUIDE
Description :	PUBLISHED BY LONE PINE PUBLISHING, 96 PAGE VIEWING GUIDE
Location :	PARKS LIBRARY
Reference code :	Published Book (private)
Year :	1991
Author :	WAREHAM, BILL

Reference Number :	29K-68
Title :	Biophysical sampling in the Horsefly and Seymour watersheds. Prepared by Aquatic Resources Limited for Department of Fisheries and Oceans Enhancement Operations Branch. 1988
Description :	Habitat sampling; physical habitat; temperature; water quality
Location :	DFO - FRASER R., NORTHERN B.C. YUKON DIVISION - NEW WEST
Reference code :	Government Report
Year :	1988
Author :	SLANEY, T.L.

Reference Number :	29G-2
Title :	Catalogue of salmon streams and spawning escapements of Cariboo Subdistrict. Can. Data Rep. Fish. Aquat. Sci. 211:51p. 1980
Description :	CH; CM; CO; flow; obstructions; PK; spawning; SK
Location :	DFO - FRASER R., NORTHERN B.C. YUKON DIVISION - NEW WEST
Reference code :	Government Report
Year :	1980
Author :	MANZON, C.I.

Reference Number :	29G-2
Title :	Catalogue of salmon streams and spawning escapements of Cariboo Subdistrict. Can. Data Rep. Fish. Aquat. Sci. 211:51p. 1980
Description :	CH; CM; CO; flow; obstructions; PK; spawning; SK
Location :	DFO - FRASER R., NORTHERN B.C. YUKON DIVISION - NEW WEST
Reference code :	Government Report
Year :	1980
Author :	MARSHALL, D.E.

Reference Number : HQ1291
 Title : FISH AND FISH HABITAT INVENTORY SAMPLING OF UPPER HORSEFLY RIVER
 Description : PREPARED FOR: RIVERSIDE FOREST PRODUCTS LTD.
 Location : BC FISHERIES
 Reference code : Consultant Report
 Year : 1999
 Author : BIOTERRA CONSULTING LTD.

Reference Number :	HQ1933
Title :	FISH STREAM IDENTIFICATION AND CLASSIFICATION RIVERSIDE FOREST PRODUCTS, UPPER HORSEFLY AREA
Description :	4 PAGE REPORT INCLUDING MAPS, PHOTOS, FIELD NOTES, AND SITE CARDS
Location :	MINISTRY OF SUSTAINABLE RESOURCE MANAGEMENT FISHERIES INVENTORY BRANCH VICTORIA, BC
Reference code :	Consultant Report
Year :	1998
Author :	CARIBOO ENVIROTECH LTD.

Reference Number : 29G-42
 Title : Fisheries Biologist, MOE, Fisheries Branch, Williams Lake. Personal communication. 1986
 Description : CH; CO; DV; enhancement; forestry; incubation; KO; linear development; land use; migration; mining; obstructions; rearing; RB; reserves; spawning; SK; water quality; water withdrawal
 Location : DFO - SUBDISTRICT 29G: Williams Lake
 Reference code : Government Report
 Year : 1986
 Author : WESTOVER, BILL

Reference Number :	29G-41
Title :	Fishery Officer, DFO, Williams Lake. Stream files and personal communication. 1986
Description :	Agriculture; CH; CO; enhancement; forestry; fish sampling; linear development; land use; mining; obstructions; parks; reserves; spawning; SK; water quality; water withdrawal
Location :	DFO - SUBDISTRICT 29G: Williams Lake
Reference code :	Government Report
Year :	1986
Author :	HARVEY, P.

Reference Number : 29G-43
 Title : Habitat Protection Technician, MOE, Williams Lake. Personal Communication. 1986
 Description : Enhancement; forestry; KO; obstructions; RB
 Location : DFO - SUBDISTRICT 29G: Williams lake
 Reference code : Government Report
 Year : 1986
 Author : YOUNG, J.

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Reference Number :	29G-14
Title :	Hatchery Releases to 1985.
Description :	CH; CO; enhancement
Location :	DFO - FRASER R., NORTHERN B.C. YUKON DIVISION - NEW WEST
Reference code :	Government Report
Year :	1985
Author :	DEPARTMENT OF FISHERIES AND OCEANS (DFO)

Reference Number :	EW282
Title :	Horsefly River - Sockeye spawning distribution map
Description :	Unpublished report
Location :	DFO, Vancouver, BC
Reference code :	Government Report
Year :	1993
Author :	BROWN, T.J.

Reference Number :	EW282
Title :	Horsefly River - Sockeye spawning distribution map
Description :	Unpublished report
Location :	DFO, Vancouver, BC
Reference code :	Government Report
Year :	1993
Author :	LANGFORD, G.

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Title :	Horsefly River - Sockeye spawning distribution map
Description :	Unpublished report
Location :	DFO, Vancouver, BC
Reference code :	Government Report
Year :	1993
Author :	WILLIAMS, I.V.

Reference Number :	EW298
Title :	Hydrology and water use for salmon streams in the Quesnel Habitat Management Unit
Description :	
Location :	Fraser River Action Plan, DFO, Vancouver, BC
Reference code :	Government Report
Year :	1993
Author :	HAMILTON, R.

Reference Number :	29G-12
Title :	Investigation of prespawning mortality of 1973 Horsefly River sockeye salmon. Progress Report No. 37. 1977
Description :	Fish sampling; SK
Location :	DFO - FRASER R., NORTHERN B.C. YUKON DIVISION - NEW WEST
Reference code :	Government Report

Year : 1977
 Author : IPSFC

Reference Number :	5112
Title :	JUVENILE RAINBOW TROUT PRODUCTION IN THE HORSEFLY RIVER, THE LARGEST TRIBUTARY TO QUESNEL LAKE B.C.
Description :	
Location :	VICTORIA REPORT # FA 10-16
Reference code :	Unpublished Government Report
Year :	1996
Author :	SEBASTIAN D.C.

Reference Number : DFO_HIST
 Title : LEGACY LIFE HISTORY AND TIMING OF SALMON SPECIES IN FRESHWATER WATERBODIES
 Description : DFO_SPEC_HIST_SUMMARY
 Location : DFO, VANCOUVER
 Reference code : Government Database
 Year :
 Author : DFO - VARIOUS

Reference Number :	WSCANDB
Title :	LIST OF ALL WATER SURVEY CANADA STATIONS IN B.C. AND YUKON, OCTOBER 1, 2000.
Description :	LIST OF ALL WATER SURVEY CANADA STATIONS IN B.C. AND YUKON RECIEVED OCTOBER 1, 2000.
Location :	BC FISHERIES, VICTORIA, B.C.
Reference code :	Government Database
Year :	2000
Author :	WATER SURVEY CANADA

Reference Number : NUSED-SUM
 Title : NUSED Database
 Description :
 Location : Ministry of Sustainable Resource Management, Victoria, BC
 Reference code : Government Database
 Year : 2000
 Author : FISHERIES AND OCEANS CANADA

Reference Number :	HQ2073
Title :	PRESCRIPTIONS TO PROTECT, ENHANCE AND/OR RESTORE ELEVEN SMALL TRIBUTARIES AND BACKWATERS ALONG THE LOWER HORSEFLY RIVER: FINAL DRAFT REPORT
Description :	22 PAGES, 3 TABLES, 8 AIR PHOTO MAPS, 22 PAGES OF PHOTOS
Location :	FISHERIES AND OCEANS, VANCOUVER, BC
Reference code :	Consultant Report

Year : 2000
 Author : RICHARD LEE CASE, WATERSHED CONSULTANT

Reference Number : 29G-28
 Title : Problems in rehabilitating the Quesnel sockeye run and their possible solution. Admin. Report 85p. 1966
 Description : Enhancement; fish sampling; physical habitat; SK
 Location : DFO - FRASER R., NORTHERN B.C. YUKON DIVISION - NEW WEST
 Reference code : Government Report
 Year : 1966
 Author : IPSFC

Reference Number : 29G-57
 Title : QUESNEL HABITAT MANAGEMENT AREA (HMA) REPORT FOR FRASER RIVER ENVIRONMENTAL SUSTAINABLE DEVELOPMENT TASK FORCE. 1991
 Description : Flow; land use; physical habitat; water quality; water use
 Location : DFO - HABITAT MANAGEMENT DIVISION - VANCOUVER
 Reference code : Government Report
 Year : 1991
 Author : TRITON ENVIRONMENTAL CONSULTANTS LTD.

Reference Number : 5660
 Title : QUESNEL LAKE TRIBUTARIES FLOY TAGGING STUDIES WITH PARTICULAR REFERENCE TO THE HORSEFLY RIVER.
 Description :
 Location : MELP REGIONAL OFFICE, WILLIAMS LAKE - IN PREP F-89F2
 Reference code : Unpublished Government Report
 Year : 1996
 Author : DOLIGHAN, R.B.

Reference Number : 29G-5
 Title : Quesnel River System: Review of fisheries related information. Environment Canada and Fisheries Service. 10p. 1976
 Description : CH; land use; PK; physical habitat; SK; water use
 Location : DFO - FRASER R., NORTHERN B.C. YUKON DIVISION - NEW WEST
 Reference code : Government Report
 Year : 1976
 Author : ANONYMOUS

Reference Number : EW294
 Title : Quesnel habitat management area resource assessment
 Description : Volume 1. Prepared for Fraser River Environmentally Sustainable Development Task Force
 Location : DFO, Vancouver, BC
 Reference code : Government Report

Year : 1994
 Author : TRITON ENVIRONMENTAL CONSULTANTS LTD.

Reference Number :	5617
Title :	RADIO TELEMETRY ASSESSMENT OF ADULT QUESNEL LAKE RAINBOW TROUT IN THE HORSEFLY RIVER SPRING 1987
Description :	
Location :	WILLIAMS LAKE CA-89-1
Reference code :	Unpublished Government Report
Year :	1989
Author :	DOLIGHAN, R.B.

Reference Number : 5678
 Title : RARE FRESHWATER FISH OF BRITISH COLUMBIA
 Description : B.C. CONSERVATION DATA CENTRE, VICTORIA, B.C. PREPARED FOR B.C. MELP FISHERIES BRANCH, VICTORIA
 Location : M.O.E. WILLIAMS LAKE
 Reference code : Government Report
 Year : 1993
 Author : CANNINGS, S.

Reference Number :	REL-SUM
Title :	RELEASE Database
Description :	
Location :	Ministry of Sustainable Resource Management, Victoria, BC
Reference code :	Government Database
Year :	
Author :	MINISTRY OF SUSTAINABLE RESOURCE MANAGEMENT

Reference Number : DFO062
 Title : RIPARIAN RESTORATION AND FENCING IN THE HORSEFLY RIVER WATERSHED
 Description : HRSEP 1999/2000 Final Report; 7 pp.
 Location : DFO, Vancouver
 Reference code : Government Report
 Year : 2000
 Author : DFO, HABITAT AND ENHANCEMENT BRANCH

Reference Number :	5057
Title :	ROB DOLIGHAN PERSONAL COMMUNICATION
Description :	
Location :	NOT APPLICABLE
Reference code :	Personal Information/Communication
Year :	1996
Author :	DOLIGHAN, R.B.

Reference Number : 29G-8
 Radio telemetry investigation of the instream distribution and movement of adult Chilcotin

Title : River steelhead trout. Ministry of Environment, Fish and Wildlife Branch, Williams Lake, B.C. 1980

Description : Fish sampling; migration; population sampling; spawning

Location : MOE - REGION 5 - WILLIAMS LAKE

Reference code : Government Report

Year : 1980

Author : SPENCE, C.R.

Reference Number : 29G-31

Title : SEP New Projects Unit water quality data collected 1979-1984. Can. Data Rep. Fish. Aquat. Sci. 409: 190p. 1984

Description : Water quality

Location : DFO - FRASER R., NORTHERN B.C. YUKON DIVISION - NEW WEST

Reference code : Government Report

Year : 1984

Author : MACKINLAY, D.D.

Reference Number : SISSM01

Title : SISS map information (source not indicated)

Description : map information

Location : MELP - Fisheries Headquarters, Victoria

Reference code : Map

Year : 1995

Author : DEPARTMENT OF FISHERIES AND OCEANS (DFO)

Reference Number : SISSM01

Title : SISS map information (source not indicated)

Description : map information

Location : MELP - Fisheries Headquarters, Victoria

Reference code : Map

Year : 1995

Author : MELP

Reference Number : HQ1706

Title : STREAM MONITORING PROGRAM - HORSEFLY RIVER WATERSHED - EVALUATION
Description : A SUMMARY OF RESULTS FROM TEMPERATURE AND SEDIMENTATION MONITORING STATIONS.

Location : BC FISHERIES, VICTORIA, B.C.

Reference code : Consultant Report

Year : 1996

Author : AIM ECOLOGICAL CONSULTANTS LTD.

Reference Number : HQ1706

Title : STREAM MONITORING PROGRAM - HORSEFLY RIVER WATERSHED - EVALUATION
Description : A SUMMARY OF RESULTS FROM TEMPERATURE AND SEDIMENTATION MONITORING

	STATIONS.
Location :	BC FISHERIES, VICTORIA, B.C.
Reference code :	Consultant Report
Year :	1996
Author :	HETHERINGTON, E.D.

Reference Number :	29G-40
Title :	Stock Enhancement Officer, Quesnel River Hatchery. SEP. Williams Lake. Personal Communication. 1986
Description :	Agriculture; CH; CO; enhancement; linear development; obstructions; spawning; SK; water quality
Location :	DFO - SUBDISTRICT 29G: Williams Lake
Reference code :	Government Report
Year :	1986
Author :	DICKSON, R.

Reference Number :	29G-46
Title :	Survey of selected streams for sensitivity to acidification from the proposed Hat Creek coal development. Can. Tech. Rep. Fish. Aquat. Sci. 1389: 76p. 1985
Description :	Contaminants; land use; mining; water quality
Location :	
Reference code :	Government Report
Year :	1985
Author :	ET AL

Reference Number :	29G-46
Title :	Survey of selected streams for sensitivity to acidification from the proposed Hat Creek coal development. Can. Tech. Rep. Fish. Aquat. Sci. 1389: 76p. 1985
Description :	Contaminants; land use; mining; water quality
Location :	
Reference code :	Government Report
Year :	1985
Author :	SERVIZI, J.A.

Reference Number :	29G-45
Title :	Technician, Management Operations, Fraser River, Northern B. C. and Yukon Division, Dept. of Fish. and Oceans. New Westminster. Personnel communication. 1989
Description :	
Location :	
Reference code :	Government Report
Year :	1989
Author :	BUXTON, G.

Reference Number : DFO371
 Title : The Influence of Extreme Water Temperatures on Migrating Fraser River Sockeye Salmon (Oncorhynchus nerka) During the 1998 Spawning Season
 Description : xiv, 117 pp.
 Location : DFO Library
 Reference code : Government Report
 Year : 2000
 Author : FARRELL, T.

Reference Number :	DFO371
Title :	The Influence of Extreme Water Temperatures on Migrating Fraser River Sockeye Salmon (Oncorhynchus nerka) During the 1998 Spawning Season
Description :	xiv, 117 pp.
Location :	DFO Library
Reference code :	Government Report
Year :	2000
Author :	FISHERIES AND OCEANS CANADA

Reference Number : DFO371
 Title : The Influence of Extreme Water Temperatures on Migrating Fraser River Sockeye Salmon (Oncorhynchus nerka) During the 1998 Spawning Season
 Description : xiv, 117 pp.
 Location : DFO Library
 Reference code : Government Report
 Year : 2000
 Author : FOREMAN, M.G.

Reference Number :	DFO371
Title :	The Influence of Extreme Water Temperatures on Migrating Fraser River Sockeye Salmon (Oncorhynchus nerka) During the 1998 Spawning Season
Description :	xiv, 117 pp.
Location :	DFO Library
Reference code :	Government Report
Year :	2000
Author :	MACDONALD, J.S.

Reference Number : EW276
 Title : Untitled
 Description : Personal communication with fisheries officer
 Location : Williams Lake, BC
 Reference code : Government Report

Year : 1994
Author : HARVEY, P.

Reference Number :	SUM-1
Title :	
Description :	AG_SUMMARY
Location :	
Reference code :	Government Database
Year :	
Author :	AG_SUMMARY

[58 references were found.](#)

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