MIRAMICHI BIBLIOGRAPHY (1990)

Prepared by The Acadia Centre for Estuarine Research Publication No. 13 August 1990 Acres Consulting Services Limited. 1977. Environmental Evaluation of the Miramichi Channel dredging project. Submitted to Public Works Canada. Saint John, New Brunswick.

ADI Limited. 1976. Miramichi Channel Study. Miramichi Inner Bay. Geotechnical Investigations. Fredericton, New Brunswick.

ADI Limited. 1982. Soil Investigation, Nodes 22, 23.ADI, April, 1982.

ADI Limited. 1983. Soil test borings and laboratory test data, Miramichi Bay. (N.B. Dept. of Environment Library, Fredericton.)

Advisory Document 81/16. Advice on the Management of Atlantic Salmon from the Major New Brunswick River Systems. CAFSAC (Canadian Atlantic Fisheries Scientific Advisory Committee), Volume 4, 1981, p. 141.

Advisory Document 82/20. Advice on the Management of Atlantic Salmon from the Major New Brunswick River Systems and on the Commercial Fisheries in some districts of Cape Breton. CAFSAC, Volume 5, 1982, p. 121.

Advisory Document 83/24. Advice on the Management of Atlantic Salmon from the Major New Brunswick River Systems. CAFSAC Volume 6, 1983, p. 137.

Advisory Document 84/7. Advice on the Management of the Gaspereau Fishery on the Miramichi River, New Brunswick and on the Margaree River, Nova Scotia. CAFSAC, Volume 7, 1984, p. 57.

Advisory Document 85/9. Advice on the Management of the Gaspereau Fishery on the Miramichi River, New Brunswick and on the Margaree River, Nova Scotia. CAFSAC, Volume 8, 1985, p. 73.

Advisory Document 86/6. Advice on the Management of the Gaspereau Fishery on the Miramichi River, New Brunswick and on the Margaree River, Nova Scotial CAFSAC, Volume 8, 1986, p. 83.

Advisory Document 87/8. Advice on the Management of the Gaspereau Fishery on the Miramichi River, New Brunswick and on the Margaree River, Nova Scotial CAFSAC, Volume 10, 1987, p. 87.

Advisory Document 88/7. Advice on the Management of the Gaspereau Fishery on the Miramichi River, New Brunswick and on the Margaree River, Nova Scotia, CAFSAC, Volume 11, 1988, p. 97.

Ahrens, M. and E. Schofield. 1978. Result of a survey of fishermen on the question of Miramichi dredging. Fisheries and Oceans Canada. Unpublished. (referenced in Welsford, M.C.P. Report of the Monitoring Committee)

Albin, D.A. 1990. Benthic Faunal Communities at Selected Sites in the Miramichi River Systems. New Brunswick Department of the Environment.

Alexander, D.R. and M.M. Niles. 1989. Variation of some meristic characters in alewives, Alosa pseudoharengus, from three rivers in the southern Gulf of St. Lawrence. Can. Technical Rep. Fish. Aquat. Sci. No. 1688. Department of Fisheries and Oceans, Moncton, New Brunswick. iv, 6 p. (in DFO Library, Halifax)

Alexander, D.R. and A.H. Vromans. 1983. Status of the Miramichi River Estuary Gaspereau fishery (1982). CAFSAC. Research document, 83/37. 40 p.

Alexander, D.R. and A.H. Vromans. 1984. Status of the Miramichi River Estuary Gaspereau fishery (1983). CAFSAC. Research document, 84/23. 23 p.

Alexander, D.R. and A.H. Vromans. 1985. Status of the Miramichi River Estuary Gaspereau fishery (1984), CAFSAC. Research document, 85/92. 25 p.

Alexander, D.R. and A.H. Vromans. 1986. Status of the Miramichi River Estuary Gaspereau fishery (1985). CAFSAC Research document, 86/36. 25 p.

Alexander, D.R. and A.H. Vromans. 1987. Status of the Miramichi River Estuary Gaspereau fishery (1986). CAFSAC. Research document, 87/15. 21 p.

Alexander, D.R. and A.H. Vromans. 1988. Status of the Miramichi River fishery (1987) for alewife (*Alosa pseudoharengus*) and blueback herring (*Alosa aestivalis*). CAFSAC Research document, 88/27. 30 p.

Allen, G.P., J.C. Salomon, P. Bassoulet, Y. Dupenhoat, and C. Degrandpri. 1980. Effects of tides on mixing and suspended sediment transport in macrotidal estuaries. Sediment. Geol. 26, pp. 69-90. Index by Chemical abstracts. Current Contents

Allen, K.R. 1967. A revised estimate of the rate of growth between Greenland and home waters of salmon from the Miramichi River, New Brunswick, Canada. ICNAF. Research document, 67/93. 4 p. (in DFO Library, Halifax) $\leq H_{1}$, $\Xi \leq 36$ for H_{2}

Allen, K.R. and R.L. Saunders. 1967. A preliminary study of the influence of the Greenland salmon fishery on the salmon stocks and fishery of the Miramichi River New Brunswick. ICNAF Redbook 1966 Part III: 159-180. (in DFO Library, Halifax)

Ambler, D.C. 1976. Surface water sediment investigation, Miramichi River Navigation Channel Study. Water Survey of Canada, Environment Canada, Atlantic Division, Halifax. Unpublished. (copy at Environment Canada).

Amiro, P.G. 1983. Aerial photographic measurement of Atlantic salmon habitat of the Miramichi River, New Brunswick. CAFSAC. Research document, 83/74. 31 p. (in DFO Library, Halifax)

Anderson, J.E. 1989. Review of Historical Discharge Records in the Miramichi River Basin. Prepared for the MREAC. New Brunswick Department of the Environment.

Anon. 1975. Miramichi Channel Study: Suggestions for environmental studies. Canada Department of the Environment (Halifax) and New Brunswick Department of Fisheries and Environment. 10 p.

Anon. 1975. Review of 1975 Miramichi River salmon management investigation. Prepared for the Miramichi Salmon Management Advisory Committee, by Resource Development Branch, Fisheries and Marine Service, Halifax, N.S.

/ Appleby, J.P. and D.J. Scarratt. 1989. Physical effects of suspended solids on marine and estuarine fish and shellfish with special reference to ocean dumping; a literature review. Can. Tech. Rep. Fish. Aquat. Sci. 1681. 33 p.

Applied Marine Research/Canplan Oceanology Limited. 1976. Preliminary environmental/ assessment of the Miramichi dredging proposal. Prepared for Miramichi/Channel Study.

Aquatic Industries Limited. 1983-? Miramichi smelt stomach contents analysis. Canadian Department of Fisheries and Oceans, Biological Station, St. Andrews, New Brunswick. 56 p. (in DFO Library, Ottawa)

Atlantic Salmon Association. Conference on illegal salmon fishing, Montreal, Quebec, February 21, 1974. (in DFO Library, Halifax)

Bartlett, G.A. 1966. Distribution and abundance of Foraminifera and Thecamoebina in Miramichi River and bay. Canadian Committee on Oceanography. 107 p. (in DFO Library, Halifax, BIO Library, Dartmouth)

/Beak Consultants Limited. 1977. Environmental evaluation of proposed Miramichi / Channel dredging project. Proposal for professional services to Public Works Canada. Saint John, New Brunswick.

Beak Consultants Limited. 1989. Environmental study of Newcastle mill expansion. A report for Miramichi Pulp and Paper Incorporated. TD/899/P96/B391.

Belding, D.L. and G. Prefontaine. Studies on the Atlantic salmon report on the salmon of the 1937 Miramichi New Brunswick drift-net fishery. Contributions of the Zoologie Institute, University of Montreal, No. 4. 1-63. (in DFO Library, Halifax)

Bernstein, B.B. and J. Zalinski. 1983. An optimum sampling design and power tests for environmental biologists. Journal of Environmental Management 16, pp. 35-43. (referenced in Welsford, M.C.P. Report of the Monitoring Committee)

Besch, W. K. and P. Roberts-Pichette. 1970. Effects of mining pollution on vascular plants in the Northwest Miramichi River system .Can. J. Bot. 48: 1647-1656. Biological destrocts

Besch, W.K., M. Ricard, and R. Cantin. 1970. Utilization of benthic diatoms as indicators of mining pollution in the Miramichi Basin. Fisheries Research Board of Canada. Technical report 202. 72 p. (in DFO Library, Halifax, BIO Library, Dartmouth) (on) 7 Joht Questie Sc.

Bezanson, D. 1982. Inventory of Ocean Drifter Release and Recovery Data. Can. Data Rep. Hydrog. and Ocean.Sci. 2:47p.

Blair, A.A. No date. Migrations of Atlantic salmon (Salmo salar) in Miramichi River. Fish. Res. Board of Canada. MS Rep. 59:15p. (in DFO Library, St. John's) Tisheves Res Buor (1) Con.

Boudreau, C.A., M.P. Guilcher, G.F. Westlake, and W.R. Parker. 1988. Dispersion of effluent plumes from three pulp and paper mills in northern New Brunswick rivers and effects on the behaviour of juvenile Atlantic salmon. Canadian Environmental Protection Service, Atlantic Region, 58 p. (in DFO Library, Halifax)

Bousfield, E.L. 1955. Some physical features of the Miramichi Estuary. J. Fish. Res. Bd. C Can. 12, pp. 342-361.

Bousfield, E.L. 1955. Ecological control of the occurrence of barnacles (Crustacea: $OHI \cdot CI3$ Cirripedia) in the Miramichi Estuary. Nat. Mus. Can. Bull. 137. (or 142:127-152)?

Bousfield, E.L. 1971. Report on a preliminary study of the macrobenthos of the Middle and Upper Miramichi estuary, August 1971, the possible effects of industrial pollution on its distribution and abundance. St. Andrews Biol. Station. Unpublished manuscript.

Buckley, D.E. and G.V. Winters. 1983. Geochemical transport through the Miramichi Estuary. Can. J. Fish. Aquat. Sci. Supple. 2, 40, pp. 162-182.

CAFSAC Anadromous, Catadromous and Freshwater Fishes Subcommittee. 1977. New Brunswick salmon assessment - stock forecasts for the 1977-1980 period. Advisory document 77/2, App. 2. 6 p. (in DFO Library, Halifax)

CAFSAC. 1980. Assessment of anadromous fish stocks. Advisory document 80/4. 3 p. (in DFO Library, Halifax)

CAFSAC. 1981. Advice on the management of Atlantic salmon from the major New Brunswick river systems. Advisory document 81/16.2 p. (in DFO Library, Halifax)

CAFSAC. 1981. Assessment of anadromous fish stocks. Advisory document 81/2. 8 p. (in DFO Library, Halifax)

CAFSAC. 1981. Assessment of stocks of alewife and blueback herring (Gaspereau). Advisory document 81/6. 4 p. (in DFO Library, St. John's)

CAFSAC. 1984. Advice on the management of Atlantic salmon from the major New Brunswick river systems. Advisory document 84/22. 2 p. (in DFO Library, Halifax)

CAFSAC. 1984. Advice on the management of the gaspereau fishery on the Miramichi River, New Brunswick and on the Margaree River, Nova Scotia. Advisory document 84/7. 5 p. (in DFO Library, Halifax)

CAFSAC. 1985. Advice on the management of the gaspereau fishery on the Miramichi River, New Brunswick, and on the Margaree River, Nova Scotia. Advisory document 85/9. 3 p. (in DFO Library, Halifax)

CAFSAC. 1985. The status of Atlantic salmon stocks in Atlantic Canada and advice for their management in 1986. Advisory document 85/22. 10 p. (in DFO Library, St. John's)

CAFSAC. 1986. Advice on the management of the gaspereau fishery on the Miramichi River, New Brunswick, and on the Margaree River, Nova Scotia. Advisory document 86/6. 3 p. (in DFO Library, Halifax)

CAFSAC. 1986. The status of Atlantic salmon stocks in Atlantic Canada and advice for their management in 1987. Advisory document 86/26. 8 p. (in DFO Library, Halifax)

CAFSAC. 1987. Advice on the management of the gaspereau fishery on the Miramichi River, New Brunswick, and on the Margaree River, Nova Scotia. Advisory document 87/7. 4 p. (in DFO Library, Halifax) CAFSAC. 1987. The status of Atlantic salmon stocks in Atlantic Canada and advice for their management in 1988. Advisory document 87/24. 23 p. (in DFO Library, Halifax)

CAFSAC. 1988. Advice on the management of the gaspereau fisheries on the Miramichi VRiver, New Brunswick and on the Margaree River, Nova Scotia. Advisory document 88/7, 3 p. (in DFO Library, Halifax)

CAFSAC. 1989. Advice on the management of the gaspereau fisheries on the Miramichi River, New Brunswick and on the Margaree River, Nova Scotia. Advisory document 89/5. (in DFO Library, Halifax)

CAFSAC. 1989. Further information on the status of Atlantic salmon stocks in 1989. Advisory document 89/6. (in DFO Library, Halifax)

Campbell, M. 1990. Occurrence of disease in Miramichi fish, a letter with a list of cases examined sent to T. Currie, Habitat Management Div. DFO, dated Feb. 16, 1990.

Canada, Department of Environment. 1973. Base metal mine waste management in northeastern New Brunswick. Environmental Impact and Assessment, Water Pollution Control Directorate, Report EPS 8-WP-73-1, pp. 1-55.

Canplan Oceanology. 1976. Preliminary environmental assessment of the Miramichi dredging proposal. Report to Miramichi Channel Study by Canplan Oceanology Limited. Halifax, Nova Scotia. Unpublished. (D. Scarratt has a copy, also in DFO Library, Ottawa)

Carscadden, J.E. (n.d.) Studies on the American Shad (*Alosa sapidissima* Wilson) in the St. John River and Miramichi River, New Brunswick with special reference to roming and R-K selection. McGill University, Montreal, Quebec. (in DFO Library, Halifax)

Carscadden, J. E., and W.C. Leggett. 1975. Ecology and population characteristics of American shad (*Alosa sapidissima*) in the St. John and Miramichi Rivers, New Brunswick, with notes on their management. Final Report- Contract D5344 Environment Canada Fisheries and Marine Services, Halifax, N.S.: 105 pp.

Carson, W.V. 1972. Chemical conditions in the Northwest Miramichi River during 1971. Fisheries Research Board of Canada. Manuscript report series, 1180. 28 p. (in DFO Library, Halifax, BIO Library, Dartmouth)

Carson, W.V. 1973. Chemical conditions in the Northwest Miramichi River during 1972. Fisheries Research Board of Canada. Manuscript report series, 1254. 30 p. (in DFO Library, Halifax, BIO Library, Dartmouth)

Carson, W.V. 1973. Interference of ferric iron in the spectrophotometric and spectrofluorimetric determination of humic acid. Fisheries Research Board of Canada. Manuscript report series, 1241. 7 p. (in DFO Library, Halifax, BIO Library, Dartmouth)

Carson, W.V. 1974. Chemical conditions in the Northwest Miramichi River during 1973. Fisheries Research Board of Canada. Manuscript report series, 1323. 26 p. (in DFO Library, Halifax, BIO Library, Dartmouth)

Chadwick, E.M.P., D.R. Alexander, R.W. Gray, T.G. Lutzac, J.L. Peppar, and R.G. Randall. 1985. 1983 Research in Anadromous Fishes, Gulf Region. Can. Tech. Rep. of Fish and Aquat. Sci. No. 1420, St. Andrews Biological Station, New Brunswick. 69 p. (in DFO Library, Halifax)

Chadwick, E.M.P. and R.G.Randall. 1986. A stock recruitment relationship for Atlantic Salmon (*Salmo salar*) in the Miramichi River, New Brunswick (Canada) N AM J FISH MANAGE 6(2): 200-203

/Chaput, G.J. and Alexander .1989.Mortality rates of alewife in the Southern Gulf of St. Laurence. CAFSAC Res. Doc. 89 / 38.

Chaput, G.J. and C.H. LeBlanc. 1989. Evaluation of the gaspereau fishery in the Miramichi River and estuary, 1988. CAFSAC Research document, 89/38 (or 28?). 39 p.

Clay, D.1986.Biomass and population biology as observed from Research Surveys in the Southern Gulf of St. Lawrence Cod, White Hake, Haddock, Plaice, Herring and Redfish CAFSAC Res. Doc. 86 / 83.

Claytor, R.R., C.E. Leger, and R.W. Gray. 1987. Stock composition of Northumberland Strait, Nova Scotia Atlantic salmon (Salmo salar) commercial fisheries. Department of Fisheries and Oceans, Canada, 19 p. (in DFO Library, Halifax)

Coates, W. 1959. Predatory bird control - data, Miramichi River, New Brunswick, St. Mary's River, New Brunswick. Canada Fisheries Service (Maritimes Region). Manuscript report, 59-2. 20 p. (in DFO Library, Halifax)

ComDev Marine and Maritime Technical Services Limited. 1975. Miramichi Survey Oceanographic Program Report. Submitted to regional hydrographer, Atlantic Oceanographic Lab, Bedford Institute of Oceanography. Ref. Contr. # SV03.KF802-4-0258.

Cook, R.H. and R.A. Hoos. 1971. Toxicity monitoring of a primary treated kraft pulp mill effluent at Newcastle, New Brunswick. Canadian Department of Fisheries and Forestry. Canadian Fisheries Service, MS Rep. 71-1:1-19.

Cross, C.M. 1951. An investigation of the hydrography of Miramichi Bay. Tidal and Current Survey. Department of Mines and Technical Surveys, Canadian Hydrographic Service, Ottawa. 17 p.

Currie, T. 1990. The Miramichi fish kill of May 1988. A report with four lab reports from Atlantic Veterinary College, UPEI + a DFO lab report submitted to MREAC, Jan. 9, 1990 by Habitat biologist, DFO Moncton.

DeMastral, J. and R. Legault. 1971. Bacteriological survey 1971 Miramichi Bay shellfish area NB4. Dept. of Environment. MS OR-71-7.

Department of National Health and Welfare. 1964. Water quality study: lower Miramichi River basin, New Brunswick. (N.B. Dept. of Environment Library, Fredericton. Cat.# TD/227/N42/W297)

Department of Public Works. Hydrographic Surveys of charted river channel:

1) pre-dredging surveys conducted in the spring - total river channel

2) monitoring surveys of dredging operation

3) post-dredging surveys - total river channel

4) surveys to monitor dumpsites

5) monitor floating navigational aids on ongoing basis

(source: Richard Belyea, Regional Manager, Hydrographic Surveys, Public Works Canada, Halifax)

Department of Public Works. 1963. Engineering feasibility study of channel deepening.

Department of Public Works. 1964. Miramichi River Study. Prepared for Harbour and Rivers Engineering Branch, by Development Engineering Branch, DPW, Ottawa. Unpublished.

Department of Public Works. 1976. Bathymetry - Miramichi Estuary, New Brunswick (map), prepared for Miramichi Channel Study.

DeWolfe, D.L. 1975. Miramichi estuary co-tidal chart. Unpublished chart, BIO, Dartmouth.

/Discovery Consultants Limited. 1984. Miramichi cotidal chart study. Report prepared for DFO, BIO.

Discovery Consultants Limited. 1984. Tide staff locations - Miramichi. Report prepared for DFO, BIO.

Discovery Consultants Limited. 1985. Consultant Services on the proper installation of tide staffs in the Miramichi River. Report prepared for DFO, BIO.

Discovery Consultants Limited. 1987. Miramichi dredging program tidal Systems, part A. Report prepared for DFO, BIO.

Discovery Consultants Limited. 1987. Miramichi dredging program tidal systems, part B. Report prepared for DFO, BIO.

Discovery Consultants Limited. 1987. Miramichi dredging program tidal systems, part C numerical model. Report prepared for DFO, BIO.

Discovery Consultants Limited. 1989. Tidal survey at Miramichi River and analysis of data to determine location of "Upstream Limit of Tidal Influence". Report prepared for Tidal Div. DFO. BIO.

Dominy, C.L. A review of the present status of Atlantic salmon in the Northwest Miramichi River New Brunswick. Canada Fisheries Service (Maritimes Region). Manuscript report, 67-2. 37 p. (in DFO Library, Halifax)

Dominy, C.L. 1972. Fisheries inventory of the Northwest Miramichi River basin, New Brunswick, with particular reference to Atlantic salmon. Canada Fisheries Service (Maritime Region). Manuscript report, 72-9. 95 p. (in DFO Library, Halifax)

Dominy, C.L. 1972. Photographic catalogue of streams and rivers in the northwest Miramichi River basin, New Brunswick. Canadian Fisheries Service (Maritime Region). 28 p. (in DFO Library, Halifax)

Drinnan, R.E. 1966. Observations on the accumulation of heavy metals by shellfish in the estuary of the Miramichi River, New Brunswick. 1961-63. Fish. Res. Bd. Can. MS Rept. (Biol) 862. 16 p. (in BIO Library, DFO Library, Halifax)

7

Dunkan G. 1976. Comparative study -Existing Records . Detailed Study of Bathymetric Changes and Dredging History . Miramichi Channel Study, Study Memorandum No 17.

Eagles, J. D. 1968. The Eel Fisheries of Eastern Canada. Fish. Res. Board Can No. 166 p. 48-50.

Econosult Incorporated and Fenco Consultants Limited. 1983. New Brunswick Public Port Master Plan Study. Report to Transport Canada. (referenced in Land and Sea, "Dredger" Computerized Data Base)

Elson, P.F. 1952. Control of mergansers to increase Miramichi salmon - 1950. Fisheries Research Board of Canada. Manuscript reports of the biological stations 453. 43 p. (in DFO Library, Halifax, BIO Library, Dartmouth)

Elson, P.F. 1967. Effects on wild young salmon of spraying DDT over New Brunswick forests. J. Fish.Res. Bd. Canada.24: 731-767.

Elson, P.F. 1969. Utilization of three stocks of Atlantic salmon tagged and liberated as smolts in the Northwest Miramichi River from 1964 to 1967. ICNAF Redbook 1969 Part III: 71-77.

Elson, P.F. 1972. Overfishing and depleted stocks of Northwest Miramichi salmon. ICNAF. Research document, 72/83. 13 p. (in DFO Library, Halifax)

Elson, P.F. 1973. Genetic polymorphism in Northwest Miramichi salmon, in relation to season of river ascent and age at maturation and its implications for management of the stocks. ICNAF. Research document, 73/76. 6 p. (in DFO Library, Halifax)

Elson, P.F. 1973. Limited recovery of depleted Northwest Miramichi salmon follows ban on commercial fishery. ICNAF. Research document, 73/75. 15 p. (in DFO Library, Halifax)

Elson, P.F. 1974. Impact of recent economic growth and industrial development on the ecology of Northwest Miramichi Atlantic salmon (Salmo salar). J. Fish. Res. Bd. Canada. 31(5): 521-544.

Elson, P.F., L.M. Lauzier, and V. Zitko. 1972. A preliminary study of salmon movements in a polluted estuary. *In Marine Pollution and Sea Life*. Edited by Mario Ruivo. Fishing News (Books) Limited, London.

Environment Canada Files. 1978-1990. Contains ocean dumping permits - Miramichi River, all applications, correspondence, copies of data gathered with respect to ocean dumping and some reports. (In Environment Canada Central Registry, 15th floor, Queen Square, Dartmouth).

Environment Canada File. 1979-1981. Contains minutes, notes, correspondence re Miramichi dredging.

Environment Canada File. Miramichi 1981. Contains correspondence, proposal, minutes, notes, test dump decisions, weekly reports, test dump data, monitoring data, progress reports from MacLaren Plansearch.

Environment Canada. 1981. Surface water data - Atlantic provinces 1980. Inland Waters Directorate, water resources branch, water survey of Canada, Ottawa 1981. Contains daily discharge in cubic metres per second for 1980 at Northwest Miramichi River at Trout Brook - Station No. 01 BQ001 and Southwest Miramichi River at Blackville - Station No. 01BO001. (available D. Buckley)

Environment Canada, Inland Waters Directorate. 1986. Hydrologic fact sheet - Miramichi River Basin, New Brunswick. Water Resource Branch, Dartmouth. Two fold-out sheets: one 1:50.000 map + one data sheet.

Environment Canada. 1989. Repap industrial landfill site, Newcastle, N.B., survey results 1988, by Environment Canada, Pollution Control Branch, Feb. 1, 1989.

Everitt, Robert R. 1985. Implementing new approaches to environmental assessment: effect monitoring case histories. (To appear in Integrated approaches to resource planning and management, edited by Reg Lang and Audrey Armour). Vancouver: ESSA (Environmental and Social Systems Analysts Limited.)

Fisheries Management. 1978. Concerns and Recommendations - Miramichi Channel Dredging Project. See St. Andrews File. July-August 1978.

Fishing guide main southwest Miramichi Renous to Juniper Loc. Fredericton - N.B. New Brunswick Natural Resources, Fish and Wildlife Branch. (in DFO Library, Halifax)

Forsythe, M.G. 1967. Analysis of the 1965 smolt run in the northwest Miramichi River, New Brunswick. Fisheries Research Board of Canada. Technical report 4. 73 p. (in DFO Library, Halifax, BIO Library, Dartmouth)

Forsythe, M.G. 1968. Analysis of the 1966 smolt run in the Northwest Miramichi River, New Brunswick. Fisheries Research Board of Canada. Technical Report 91. 33 p. (in DFO Library, Halifax, BIO Library, Dartmouth) Sit 19. C248 Morgi

/Fothergill, N.O. 1953. Tidal circulation in Miramichi Bay. Canada Dept. Mines and Tech. Surveys, Hydrogr. Serv., Ottawa. 18 p.

Fraser, D. 1972. Report on a proposed contingency plan for oil spills in the Miramichi estuary. TD/427/P4/F84.

Fritz, C.W. 1918. Distribution of diatoms at the mouth of the Miramichi River, New Brunzvick. Atl. Biol. Sta. Orig. MS No. 416.

Gibson R.J.and R.A.Mayers .1988.Influence of seasonal river discharge on survival of juvenile Atlantic Salmon (*Salmo salar*) Can. J. Fish. Aquat. Sci. 45(2), 344-348.

Government of Canada, Government of New Brunswick. 1974. Proposal for Miramichi River navigation channel study. Working group report, April 30, 1974. (in DFO Library, Ottawa)

Government of Canada, Government of New Brunswick. 1977. Miramichi channel study - O summary report.

Hall, Hugh A. 1978. Assessing the environmental implications of dredging the Miramichi River. Presented at FAB HQ/Region Annual Spring Meeting, April 11-13, 1978. 10 p. + figures. Triffin, W. T. You're on the Miramichi New Bruns. Priffin, W. T. You're On the Miramichi New Bruns. hes, c1981, VIII, 85 P SK152, N3G 74.

9

Hare, G.M. 1974. Atlantic salmon (*Salmo salar*) parasites as biological tags in the Miramichi River system, New Brunswick. Ph.D. thesis, University of New Brunswick, 219 p. (in Pacific Biological Station Library, DFO, Nanaimo, B.C.)

Hare, G.M. and M.D.B. Burt. 1975. Identification, Host Site and Biology of Parasites infecting Juvenile Atlantic Salmon (*Salmo salar*) in the Miramichi River System. Fish. and Mar. Serv. Tech. Rep. No. 581. Environment Canada. 34 p. (in BIO Library and DFO Library, Halifax)

Henderson, E.B., R.L. Saunders, and C.J. Kerswill. 1965. Daily counts of Atlantic salmon at the Curventon and Camp Adams counting fences on the northwest Miramichi River, New Brunswick from 1950 to 1963. Fisheries Research Board of Canada. Manuscript report series 805. 77 p. (in DFO Library Halifax, BIO Library, Dartmouth)

Hooper, W. C. 1972. Evaluation and trends of Atlantic salmon angling success in three New Brunswick rivers. Fish and Wildlife Branch, N.B. Dept. of Natural Resources, Frederiction, New Brunswick.

Hooper, W.C. 1976 New Brunswick Atlantic salmon sport fishery.Section 1.Angling catch and effort 1969-1974. Section 2. Angling catch per hour, 1963-1974. Fisheries Management Report No.5, Fish and Wildlife Branch, Dept. of Natural Resources, Frederiction, New Brunswick.

Hoos, R. 1970. Bioassay test results on toxic components of C.I.B.A. Chatham, New Brunswick resin plant effluent. Canada Fisheries Service (Maritimes Region). Manuscript report, 70-6. 10 p. (in DFO Library, Halifax)

Hoos, R. 1970. Domtar toxicity report Newcastle, New Brunswick. Canada Fisheries Service (Maritimes Region). Manuscript report, 70-7. 3 p. (in DFO Library, Halifax)

Hoos, R. 1970. Toxicity to Atlantic salmon of ore concentrate as stored on Public Wharf, Newcastle, New Brunswick. Canada Fisheries Service (Maritimes Region). Manuscript report, 70-8. 15 p. (in DFO Library, Halifax)

Howells, K. and A.G. McKay. 1977. Seismic profiling in Miramichi Bay, New Brunswick. Canadian Journal of Earth Science, 14, pp. 2909-2927.

Huntsman, A.G. (n.d.) Affected salmon in the Miramichi River New Brunswick. (in DFO Library, Halifax)

Hurlbut, T. 1979. Determination of the length, weight, sex and food of American smelt from Miramichi Bay. Report to Department of Supply and Services. 33 p. plus raw data. Unpublished.

ICES - ICNAF. Canadian data on salmon catch age and size. (in DFO Library, Halifax)

ICES - ICNAF. Limited recovery of depleted Northwest Miramichi salmon follows ban on local commercial fishery. (in DFO Library, Halifax)

Johnson, S.A. Jr. 1981. Estuarine dredge and fill activities. A review of impacts. Environ. Management, 5, pp. 427-440. Jones, B., W. Borland, and J. Spry. 1980. Pre-winter fisheries populations in the Miramichi estuary, New Brunswick. Draft Can. Tech. Rep. Fish. Aquat. Sci. Unpublished.

Kerr, R.B. 1929. Investigations on the Atlantic salmon (*Salmo salar*) of the Miramichi River, New Brunswick, Canada. Biological Board of Canada. Manuscript reports of the biological stations, 43. 10 p. (in DFO Library, Halifax)

Kerr, R. B.1961. Scale to length ratio, age and growth of Atlantic salmon in Miramichi fisheries. J. Fish. Res. Bd. Canada. 18 (1): 117-124.

Kerswill, C.J. (n.d.) Effects of Black Salmon angling on Miramichi salmon stocks. Fisheries Research Board. (in DFO Library, Halifax)

Kerswill, C. J. 1958. Effects of DDT spraying in New Brunswick on future runs of adult salmon . The Atlantic Advocate. 48(8): 65-68.

Kerswill C.J. 1971. Relative rates of utilization by commercial and sport fisheries of Atlantic salmon (*Salmo salar*) from the Miramichi River, New Brunswick J.Fish. Res. Bd. Canada. 28: 351-363.

Kerswill, C.J. and P.F. Elson .1955." Preliminary observation on effects of 1954 DDT spraying on Miramichi salmon stocks ".Atlantic Progress Report, Fish . Res. Bd., Canada. No. 62 :17-24.

Klugh, A.B. (n. d.). The utilization of the algae of the Bay of Fundy and the ecology of the algae of the Miramichi region, New Brunswick. Fisheries Research Board of Canada. Manuscript reports of the biological stations, 341. 13 p. (in DFO Library, Halifax)

Krank, Kate .1972.Geomorphological Development and Post Pleistocene Sea Level Changes, Northumberland Strait, Maritime Provinces .Can. J. Earth .Sci. 9:835-844.

Kranck, K. 1976. Suspended and bottom sediments of Miramichi estuary, New Brunswick. Atlantic Oceanographic Laboratory, BIO. Unpublished report?

Kranck, K. 1976. Map showing salinity of water in the Miramichi estuary. GSC/BIO, Sept. 1976.

/Kranck, K. 1981. Particulate matter grain-size characteristics and flocculation in a partially mixed estuary. Sedimentology, 28, pp. 107-114.

Kranck, K. 1989. Cores collected in 1988 from the vicinity of dumpsite B, Miramichi Bay, New Brunswick. Unpublished. Physical & Chemical Sciences Branch, Scotia Furgy Region, Dept 13549, 1310

Kranck, K. and T.G. Milligan. 1989. Effects of a major dredging program on the sedimentary environment of Miramichi Bay, New Brunswick. Canadian Technical Report of Hydrography and Ocean Sciences, No. 112. Fisheries and Oceans. 61 p.

Krauel, D.P. 1975. The physical oceanography of the Miramichi River Estuary, September-October, 1973. Fish. Mar. Serv. Tech. Rept. No. 571, Environment Canada. (184 p.

Krauel, D.P. Environmental Acology of the meiamichi Estuary: Physical Oceanography. Deological Survey D. Conndo. II Cahada, 16,

Krauel, D.P. and J.R. Birch. 1979. Wind and freshwater inflow effects on the circulation of the Miramichi Estuary, N.B. A numerical model. MS Report, 79-2, Coastal Marine Science Laboratory, Royal Roads Military College, Victoria, British Columbia. 140 p.

Krauel, D. P. and Vilks . G.1979. Environmental forcing of the Miramichi Estuary . Krauel, K. and A.G. McKay .1977. Seismic profiling in Miramichi Inner Bay New Brunswick. Can & Earth Sci 14:2809-2927.

Kristmanson, D.D. and A.J. Ricketts. 1973. Study of mixing mine effluents in the NW Miramichi River. University of New Brunswick, Department of Chemical Engineering. TD/899/M66/K89.

Laberge M.A.1977. The spatial and temporal distribution of foraminiferal populations within inner Miramichi Bay, New Brunswick. B. Sc. Thesis, Department of Geology, Dalhousie University, Halifax N.S., p 67.

Lalonde et al. 1973. Northeast New Brunswick Transportation Study Report. Unpublished.

Land and Sea Environmental Consultants Limited. 1990. "Dredger" : computerized data base of contaminants in sediments of Atlantic Canadian harbours. Volumes 1 and 2. Prepared for Environment Canada, Ocean Dumping and Marine Program, Ottawa.

Landva, A.O. 1978. Commentary on the stability of disposal site "A" Civil Engineering, University of New Brunswick.

Landva, V. 1976. Miramichi Inner Bay. Report to Miramichi Channel Study by Geotechnical Investigation ADL Limited, Fredericton. N.B. Report Nos. 215-124 and 215-125.

Langley D.G. 1977. Impact of Dredging Pulp and Paper deposit. Report to Miramichi Channel Study by International Environmental Consultants Ltd. Unpublished .

Lauzier, L. 1951. Preliminary survey of hydrographic conditions in the Miramichi estuary . Fish. Res. Bd. Canada, MS Rep. 906: 20 pp.

Lee, K., K. L. Gay, E.M., Lury, C.N. Erving and S.E. Cobanly .1990. Application of microbial exoenzyme activity measurements to assess the impact of dredge spoils disposal in Pictou Harbour, N.S. and the Miramichi River, N.B. Ocean Dumping Report 6, Environment Canada, Atlantic Region.

Lewis, R.M. 1957. Comparative studies of populations of the striped bass. United States Fish and Wildlife Service. Special scientific report - fisheries 204. 54 p. (in DFO Library, Halifax)

MacDonald, J.R. 1971. Delayed mortality of Atlantic salmon (Salmo salar) part after forest spraying with DDT insecticide in New Brunswick. Canadian Fisheries Service (Maritimes Region), Resource Development Branch. Progress report 2. 26 p. (in DFO Library, Halifax)

MacKnight, S.D. 1980. A study of cadmium geochemistry in New Brunswick Estuaries and its effect upon dredging. in Proceedings of WODCON IX, Vancouver, B.C. Oct. 29-31, 1980. p745-760.

MacLaren Atlantic Limited. 1977. Report on the macrobenthic community structure of the Miramichi Estuary, New Brunswick. Department of Energy Mines and Resources, B.I.O., Dartmouth. 24 p.

÷.

13

MacLaren Atlantic Limited. 1977. Proposal to Department of Public Works for environmental evaluation of proposed Miramichi Channel dredging project.

/MacLaren Atlantic Limited. 1978. Miramichi channel study, supplementary report, first draft.

MacLaren Atlantic Limited. 1978. Miramichi Channel Study Supplementary Environmental Studies and Addenda. Report prepared for Public Works, Canada, Dartmouth, Nova Scotia. Unpublished. (referenced in Land and Sea, "Dredger")

MacLaren Marex Incorporated. 1978. Commentary on stability of disposal site "A", a report to Public Works Canada.

MacLaren Marex Incorporated. 1978. Miramichi supplementary environmental study. Report to Marine Directorate, Public Works Canada. (referenced in MacKnight, 1980)

MacLaren Marex Incorporated. 1979. Draft proposal to conduct a monitoring program during and after the dredging of the Miramichi River Channel. (D. Scarratt has a copy)

MacLaren Marex Incorporated. 1979. Miramichi Channel Supplementary Channel Assessment Report on Additional Work: Spring/summer 1978. For Public Works Canada, Ottawa.

MacLaren Marex Incorporated. 1980. Proposal to conduct a monitoring program during and after the dredging of the Miramichi Channel. January, 1980. Revised March 1980.

MacLaren Plansearch Limited. 1981. Environmental Monitoring of the dredging of the Miramichi River, New Brunswick (1981-1983). Proposal to Public Works Canada.

MacLaren Plansearch Limited. 1981. Review of disposal alternatives for dredged material. Volume 2, technical review. Prepared for Public Works Canada, National Harbours Board, Transport Canada.

MacLaren Plansearch Limited. 1981. Environmental monitoring of the dredging of the Miramichi River, Test Disposal at Site A. (Draft Report) to Public Works Canada. (in BIO Library cat. # TD195.D72M5 No. A-2 ENV COLL).

MacLaren Plansearch Limited. 1981. Environmental monitoring of the dredging of the Miramichi River, Test disposal at site "B" (Draft report) to Public Works Canada, June 1981. (in BIO Library, cat.# TD195.D72M5 No. A-3 ENV. COLL.)

/MacLaren Plansearch Limited. 1982. Environmental monitoring of the dredging of the Miramichi River, Summary of 1981 Operations. Draft report to Public Works Canada.

/MacLaren Plansearch Limited. 1983. Environmental monitoring of the dredging of the Miramichi River, Volume 1, Summary of 1982 Operations. Draft Report.

MacLaren Plansearch Limited. 1983. Environmental monitoring of the dredging of the Miramichi River. Interim Report. 2 volumes. (In BIO Library, cat.# TD195.D72M5 No. A-5 ENV.COLL.)

MacLaren Plansearch Limited. 1983. Environmental monitoring of the dredging of the Miramichi River, Volume 1, Summary of 1982 Operations. Final Report to Public Works Canada, 168 p.

MacLaren Plansearch Limited. 1983. Environmental monitoring of the dredging of the Miramichi River, Volume II, 1982 field data. Final report. (BIO Library Cat. # TD195.D72M5 No. A-4 ENV COLL)

MacLaren Plansearch Limited. 1984. Environmental monitoring of the dredging of the Miramichi River, Volume 1, Summary of 1983 Operations. Draft Report.

MacLaren Plansearch Limited. 1984. Environmental monitoring of the dredging of the Miramichi River, Volume 1, Summary of 1983 Monitoring. Final Report to Public Works Canada, 62 p.

MacLaren Plansearch Limited. 1984. Environmental monitoring of the dredging of the Miramichi River, Volume 2, 1983 Field data. Draft report.

MacLaren Plansearch Limited. 1985. Environmental Monitoring of the Dredging of the Miramichi River, Volume I, Summary of 1984 monitoring report.

MacLaren Plansearch Limited. 1985. Environmental Monitoring of the Dredging of the Miramichi River, Volume II, 1984 Field data report.

MacLaren Plansearch Limited. 1985. Environmental Monitoring of the Dredging of the Miramichi River. Summary Report 1981-1984. 74 p.

MacPhail, D.K. 1975. Ages of Atlantic salmon collected from six New Brunswick and Nova Scotia rivers during 1973. Canadian Fisheries and Marine Service (Maritimes Region). 8 p. (in DFO Library, Halifax)

Marshall, T.L. 1982. A method to estimate potential 2-SW salmon harvest in Eishery Statistical Districts 1, 2, 3, and 7 of Cape Breton Island, Nova Scotia. CAFSAC Research document, 82/8. 8 p. (in DFO Library, Halifax)

Marshall, T.L. 1983. Densities of Juvenile Atlantic Salmon as Indicators of Standing Populations on the Miramichi River System. Can. MS. Rept. Fish. Aquat. Sci. No. 1727. 11 p. (in DFO Library, Halifax)

Marshall, T.L., J.L. Peppar, and E.J. Schofield. 1982. Prediction of 2-SW and older <u>Atlantic salmon returning to the Millbank trap, Miramichi River, New Brunswick.</u> CAFSAC research document, 82/51. 10 p. (in DFO Library, Halifax)

Maurer, D., R.T. Keck, J.C. Tinsman, and W.A. Leatham. 1981a. Vertical migration and mortality of benthos in dredged material: Part I, Mollusca. Mar. Environ. Research, 4, pp. () 299-319.

Maurer, D., R.T. Keck, J.C. Tinsman, and W.A. Leatham. 1981b. Vertical migration and mortality of benthos in dredged material : Part II, Crustacea. Mar. Environ. Research, 5, pp. 301-317.

Maurer, D., R.T. Keck, J.C. Tinsman and W.A. Leatham. 1981c. Vertical migration and mortality of benthos in dredged material : Part III. Polychaeta. Mar. Environ. Research, 6, pp. 49-68.

McClelland, G., R.K. Misra, and D.J. Martell. 1987. Temporal and geographical variations in abundance of larval sealworm, *Pseudoterranova (Phocanema) decipiens*, in the fillets of American plaice (*Hippoglossoides platessoides*) in eastern Canada: 1985-86 surveys. Canadian Department of Fisheries and Oceans. 15 p. (in DFO Library, Halifax)

McKenzie, R.A. 1943. Smelt movements, 1943-44 tagging, Miramichi Bay. Fisheries Research Board of Canada. Manuscript reports of the biological stations, 369, Part 2. 7 p. (in DFO Library, Halifax, BIO Library, Dartmouth)

McKenzie, R.A. 1944. Smelt tagging, 1943-44, Miramichi Area. Fisheries Research Board of Canada. Manuscript reports of the biological stations, 369, Part 1. 8 p. (in DFO Library, Halifax, BIO Library, Dartmouth)

McKenzie, R.A. 1944. Smelt movements, 1944-45 tagging, Miramichi Bay. Fisheries Research Board of Canada. Manuscript reports of the biological stations 369, Part 3. 5 p. (in DFO Library, Halifax, BIO Library, Dartmouth)

McKenzie, R.A. 1944. Smelt tagging in the Miramichi Region, 1944-45. Fisheries Research Board of Canada. Manuscript reports of the biological stations 369, Part 4. 8 p. (in DFO Library, Halifax, BIO Library, Dartmouth)

McKenzie, R.A. 1959. Marine and freshwater fisheries of the Miramichi River and estuary, New Brunswick. J.Fish. Res. Bd. Can., 16, pp. 807-833.

Medcof, J.C. 1940. Oyster investigations in 1940. Fisheries Research Board of Canada. 99 p. (in DFO Library, Halifax)

Medcof, J.C. 1941. Oyster investigations in 1941. Fisheries Research Board of Canada. Manuscript reports of the biological stations, 239. 50 p. (in DFO Library, Halifax)

Medcof, J.C. and E.I. Morrison. 1943. Report on 1943 shellfish investigations. Fisheries Research Board of Canada. Manuscript reports of the biological stations, 370. 65 p. (in DFO Library, Halifax)

Messieh, S.N. 1978. The decline of the herring fishery in northern Northumberland Strait and its possible causes CAFSAC Research document, 78/5.

Messieh, S.N., D.J. Wildish, and R.H. Peterson. 1981. Possible impact from dredging and spoil disposal on the Miramichi Bay herring fishery. Can. Tech. Rept. Fish. Aquat. Sci. No. 1008. 33 p.

Messieh, S.N., R. Pottle, P. MacPherson, and T.Hurlbut. 1983. Herring spawning bed survey in Miramichi Bay, New Brunswick in spring 1983. CAFSAC Research document, 83/70. 21 p. (in DFO Library, Halifax) Messieh, S.N., R. Pottle, P. MacPherson, and C. Bourque. 1985. Herring spawning bed survey in Miramichi Bay, New Brunswick in spring 1984. CAFSAC Research document, 85/40. 18 p. (in DFO Library, Halifax)

16

McGonigle, R.H. 1929. Report of investigation into the cause of mortality of salmon fry at the Miramichi hatchery. Biological Board of Canada. Manuscript reports of the biological stations, 86. 12 p. (in DFO Library, Halifax)

Milligan, V. 1983. Soil conditions and their relevance to dredging, Miramichi estuary. Golder Associates (Mississauga), confidential report for Federal Dept. of Justice, Dec. 1983.

Miramichi River Environmental Assessment Committee. 1990. Interim Report. Newcastle, New Brunswick. 34 p.

Montreal Engineering Company. 1972. Northeastern New Brunswick mine water quality program. (in DFO Library, Halifax)

Montreal Engineering Company Limited. 1976. Compendium of fisheries resource information for the Miramichi estuary. Report to Fisheries and Marine Service, Environment Canada, by Montreal Engineering Company Limited, Halifax, Nova Scotia. Unpublished.

Montreal Engineering Company Limited. 1977. Proposal for environmental evaluation of proposed Miramichi Channel dredging project. Submitted to Public Works Canada.

Muschenheim, D.K., P.E. Kepkay, and K. Kranck. (In Press). Microbial growth in turbulent suspension and its relation to marine aggregate formation. Neth. J. Sea Res.

New Brunswick Department of Natural Resources, Fish Wildlife Branch. Fishing guide northwest Miramichi south branch to Sunny Corner. (in DFO Library, Halifax)

New Brunswick Department of Natural Resources, Fish Wildlife Branch. Fishing guide little southwest Miramichi River from northwest Miramichi River to headwaters. (in DFO Library, Halifax)

New Brunswick Department of Natural Resources. Cains River from main southwest Miramichi to Bantalor Game Refuge fishing guide. (in DFO Library, Halifax)

Nobbs, P.E. 1949. The Miramichi fisheries. Atlantic Samon Association. Document 9. 24 p. (in DFO Library, Halifax)

Nova Scotia Research Foundation. 1975. Miramichi estuary, New Brunswick; subbottom profiling of areas proposed for shipping channel realignment. (in BIO Library, Dartmouth)

Nova Scotia Research Foundation. 1977. Seismic profiling in Maramichi Bay, New Brunswick. May 11, 1977.

Nowlan, G.S. 1981. Some Ordovician conodont faunules from the Miramichi anticlinorium, New Brunswick. Geological Survey of Canada. 35 p. (in Institute of Ocean Sciences Library, Sidney, B.C.) O'Donnell, B. 1989. Indian and non-native use of the Miramichi River: an historical perspective. Department of Fisheries and Oceans, Ottawa. 123 p. (in DFO Library, Halifax)

Owens, E. H. 1974. Barrier Beaches and sediment transport in the Southern Gulf of St. Lawrence. Proc. 14th Conference on Coastal Engineering, Copenhagen V.II pp. 1173-1193.

Packman, G.A. 1983. Report on ocean dumping research and development Atlantic region 1981-82: proceedings of a workshop, January 18, 1983 held at St. Andrews Biological Station, N.B. Canadian Environmental Protection Service (Atlantic Region) Surveillance report EPS-5-AR-83-9. 78 p. (in DFO Library, Halifax)

Peppar, J.L. and P.R. Pickard. 1978. Angling survey of the Cains River, Miramichi River system, New Brunswick, Canada, 1976. Can. Fish. Mar. Serv. Man. Rep. 0(1444), pp. 1-12. Department of Fish Environ., Resource Branch, Halifax, N.S. (in DFO Library, Halifax)

Peppar, J.L. and E.J. Schofield. 1978. Juvenile Atlantic salmon densities, Miramichi River system, New Brunswick, 1969-1977. Canadian Fisheries and Marine Service. Fisheries and Marine Service data report, 91. 19 p. (in DFO Library, Halifax)

Peterson, R.H. 1978. Physical Characteristics of Atlantic Salmon Spawning Gravel in some New Brunswick Streams. Fish. and Mar. Serv. Tech. Rep. No. 785. Fisheries and Environment Canada.

Peterson, R.H. 1978. Variations in aquatic insect densities associated with copper-zinc concentrations. Fisheries and Marine Service manuscript report 1470. Canadian Fisheries and Marine Service. 3 p. (in DFO Library, Halifax)

Peterson, R.H., P.H. Johansen, and J.L. Metcalfe. 1980. Observations on early life stages of Atlantic tomcod (*Microgadus tomcod*). Fish. Bull, 78(1), pp. 147-158.

Philpott, K.L.1976. Engineering and special studies -Wind Shear Study . Study Memorandum No. 12, Miramichi Channel Study.

Philpott, K.L. and G.R.Duncan. 1977. Miramichi Channel Study. Initial Environmental Evaluation. (Copy at Environment Canada, Queen Square Halifax)

Philpott, K.L. and DPW Marine Directorate Staff. 1978. Miramichi Channel Study. Public Works Canada, 284 p.

Pippy, J.H. 1970. Fish mortalities in the Northwest Miramichi River in 1969. Fisheries Research Board of Canada. Technical report 226. 7 p. (in DFO Library, Halifax, BIO Library, Dartmouth)

Plansearch Incorporated. 1980. Collection and Analysis of water and suspended sediment / from the Miramichi River. Report to Fisheries and Oceans. (St. Andrew's Biological Station) (referenced in Land and Sea, "Dredger")

Plansearch Lavalin 1981. Environmental monitoring of the dredging of the Miramichi / River, N.B. (1981-1983). Proposal to Public Works Canada. March 1981.

Pottle, R.A., P.A. MacPherson, S.N. Messieh, and D.S. Moore. 1980. A scuba survey of a herring (*Clupea harengus*) spawning bed in Miramichi Bay, New Brunswick. Can. Tech. Rep. Fish. Aquat. Sci. No. 984. 7 p. (in DFO Library, Halifax)

Prairie, R. 1984. Status of Atlantic salmon in the Northwest Miramichi River, New Brunswick. Technical memorandum No. 192. (Confidential internal Noranda document by Ecological section, Department of Environmental Technology, Centre du Recherche Noranda, 240 Boul. Hymus, Pointe Claire, Quebec, H9R 1G5) (Source: MREAC)

/Public Works Canada. 1990. Chemical analyses of sediments 1986-1989 for ODCA (Ocean Dumping Control Act) applications. Unpublished. (in PWC office, Saint John.)

Public Works Canada. 1990. Miramichi channel dredging documentation, CEPA 72(1) schedule III Part III list of factors- February 1990. Unpublished. Available in Saint John PWC office.

Randall, R. G. 1982. Emergence, population densities, and growth of salmon and trout fry in two New Brunswick streams .Can. J. Zool. 60. a

Randall, R.G. 1985. Spawning potential and spawning requirements of Atlantic salmon in the Miramichi River, New Brunswick, CAFSAC Research document, 85/68. 19 p. (in DFO Library, Halifax)

Randall, R.G. 1989. Effect of sea age on the reproductive potential of Atlantic salmon (Salmo salar) in eastern Canada. Can. J. Fish. Aquat. Sci., 46, pp. 2210-2218.

Randall, R.G. and E.M.P./Chadwick. 1983. Assessment of the Miramichi River salmon stock in 1982. CAFSAC Research document, 83/21. 24 p. (in DFO Library, Halifax)

Randall, R.G. and E.M.P. Chadwick. 1983. Biological-assessment of Atlantic salmon in the Miramichi, New Brunswick, 1983. CAFSAC Research document, 83/83.

Randall, R.G. and E.M.P. Chadwick .1986 Density as a factor affecting the production of juvenile Atlantic Salmon (*Salmo salar*) in the Miramichi and Restigouche Rivers, N.B. POL. ARCH.HYDROBIOL. 33(3-4): 391-409.

Randall, R.G. and E.M.P. Chadwick. 1989. Preseason forcasting of MSW salmon returns to the Miramichi River. CAFSAC Research document. In preparation.

Randall, R.G. and E.J. Schofield. 1983. Biological-assessment of Atlantic salmon in the Miramichi River, New Brunswick, 1983. CAFSAQ Research document, 83/83. 18 p. (in DFO Library, Halifax)

Randall, R.G. and E.J. Schofield. 1987. Status of Atlantic salmon in the Miramichi River, 1986. CAFSAC Research document, 87/5. 32 p. (in DFO Library, Halifax)

Randall, R.G. and E.J. Schofield. 1988. Status of Atlantic salmon in the Miramichi River, 1987. CAFSAQ Research document, 88/49. 37 p. (in DFO Library, Halifax)

Randall, R.G., E.M.P. Chadwick, and E.J. Schofield. 1985. Status of Atlantic salmon in the Miramichi River, 1984. CAFSAC Research document, 85/2. 21 p. (in DFO Library, Halifax)

Randall, R.G., E.M.P. Chadwick, and E.J. Schofield. 1986. Status of Atlantic salmon in the Miramichi River, 1985, CAFSAQ Research document, 86/2. 23 p. (in DFO Library, Halifax)

Randall R.G. and U.Paim. 1982.Growth, biomass and production of juvenile Atlantic Salmon (*Salmo salar* L.) in two Miramichi River, New Brunswick tributary streams. Can. J. Zool. 60(7): 1647-1659.

Randall, R.G., P.R. Pickard, and D. Moore. 1989. Biological assessment of Atlantic salmon in the Miramichi River, 1988. CAFSAC Research document, 89/73, 36 p. (in BIO Library and DFO Library, Halifax)

Randall, R.G., J.A. Wright, and P.R. Pickard. 1989. Effect of run-timing on the exploitation by anglers of Atlantic salmon in the Miramichi River. Can. Tech. Rept. Fish. Aquat. Sci. In press.

Rashid M.A. 1967. Chemical Analysis and Interpretation of Miramichi Sediments . Report to Miramichi Channel Study by Environmental Marine Biology , A.G.C. Energy Mines and Resources, Dartmouth N.S.Unpublished .

Rashid, M.A. 1976. Geotechnical analysis and interpretation of Miramichi sediments, *In* Preliminary environmental assessment of Miramichi dredging project, Canplan Oceanology. Unpublished.

Rashid, M.A. and G.E. Reinson. 1979. Organic matter in surficial sediments of the Miramichi Estuary, New Brunswick, Canada. Est. Coast. Mar. Sci., 8, pp. 23-26. Ray, S. and S. MacKnight. 1983. Trace metals association with suspended particulate matter due to dredging the Miramichi estuary, New Brunswick, Canada. International Heavy Metals Symposium, Heidelberg, West Germany. (copyin hand)

Ray, S. and W. White. 1977. Some observations on heavy metal concentration in northeastern New Brunswick estuarine surficial sediments. Canadian Fisheries and Marine Service. Technical report 696. 23 p. (in DFO Library, Halifax, BIO Library, Dartmouth)

Reddin, D.G. 1984. Results of Atlantic Salmon Tagging Study in Miramichi Bay, New Brunswick. Can. Tech. Rep. of Fish. and Aquat. Sci. No. 1301. St. Andrews Biological Station. 22 p. (in DFO Library, Halifax)

Reinson, G.E. 1976. Channel and shoal morphology in the entrance to the Miramichi Estuary, New Brunwick. Geol. Surv. Can. 33-39.

Reinson, G.E. 1976. Surficial sediment distribution in the Miramichi Estuary, New Brunswick. In Report of Activities, Part C, Geological Survey of Canada, Paper 76-1C, pp. 41-44.

Reinson, G.E. 1977. Tidal-current control of submarine geomorphology at the mouth of the Miramichi Estuary, New Brunswick. Can. J. Earth Sci., 14, pp. 2524-2532.

Reinson, G.E. 1980. Variations in tidal-inlet morphology and stability northeast New Brunswick. In the coast line of Canada, Edited by S.B. McCann. Geological Survey of Canada, Paper 80-10, pp. 23-39.

/Riddell, B.E., and W.C. Leggett. 1981. Evidence of an adaptive basis for geographic variation of body morphology, and time of downstream migration of Juvenile Atlantic

Salmon (Salmo salar). Can J. Fish. Aquat. Sci., 38, pp. 308-320. (DFO Library, Halifax has it as NASRC report 19. 13 p.)

Riddell, B.E., W.C. Leggett, and R.L. Saunders. 1981. Evidence of adaptive polygenic variation between two populations of Atlantic salmon (Salmo salar) native to tributaries of the S.W. Miramichi River, N.B. Can. J. Fish. Aquat. Sci., 38, pp. 321-333. (ACER or Vaughan)

Ritter, J.A. 1972. Preliminary observations on the influence of smolt size on tag return rate and age at first maturity of Atlantic salmon (Salmo salar). ICES Anadromous and Catadromous Fish Committee. 10 p. (in DFO Library, Halifax)

Ritter, J.A. 1973. Preliminary observations on the influence of small size on tag return rate All and age at first maturity of Atlantic-salmon (Salmo salar). ICNAF. Research document, 73/67. 10 p. (in DFO Library, Halifax)

Ritter, J.A. and D.B. Lister. 1971. Preliminary observations on differences in fishery contributions of hatchery-reared Atlantic salmon (Salmo salar) smolts related to stock selection and release location. ICES Anadromous and Catadromous Fish Committee. 8 p. (in DFO Library, Halifax)

Rogers, Harold M. 1940. Occurrence and Retention of Plankton Within the Estuary. J. Fish. Res. Bd. Canada, (5)2, pp. 164-171.(Miramichi is one of the 3 case studies)

Ruggles, C.P. 1974. Abundance of Atlantic salmon in New Brunswick rivers in 1973. ICNAF. Research document, 74/39. 6 p. (in DFO Library, Halifax)

Ruggles, C.P. 1974. The use of fish passes, traps and weirs in eastern Canada for assessing populations of anadromous fishes. Unpublished. 26 p. (in DFO Library, Halifax)

Ruggles, C.P. and Turner, G.E. 1973. Recent changes in stock composition of Atlantic salmon (Salmo salar) in the Miramichi River, New Brunswick. J. Fish. Res. Bd. Canada, 30(6), pp. 779-786. (DFO Library, Halifax has it as 1972, ICES CM.1972/M:11)

Saunders, J.W. 1976. Fate of Atlantic salmon parr and smolts after descending from a small stream, tributary to the northwest Miramichi River. ICES Anadromous and Catadromous Fish Committee. 6 p. (in DFO Library, Halifax)

Saunders, R.L. 1967. Seasonal pattern of return of Atlantic salmon in the Northwest Miramichi River, New Brunswick. J. Fish. Res. Bd. Canada, 24(1): 21-32.

Saunders, R.L. 1969. Contributions of salmon fron the Northwest Miramichi River, New Brunswick, to various fisheries. J.Fish.Res.Bd. Canada, 26(2):269-278.

Saunders, R.L. 1981. Atlantic salmon (Salmo salar) stock and management implications in the Canadian Atlantic Provinces and New England, U.S.A. Can. J. Fish. Aquat. Sci., 38, pp. 1672-1625.

1612

A CUAR

Scarratt, D. 1985. Overview of fishery problems related to Miramichi Channel project, pp. 4-18. Proceed. Ocean Dumping Res. and Develop. Fund, Atl. Region, 1982-84 Workshop, Environment Canada. 178 p.

Scarratt Files. Contain correspondence to 1988, 1981 progress reports from MacLaren Plansearch, damage claims information from fishermen due to dredging, statistics from fishermen, official statistics re fish catches, minutes and notes from meetings re Miramichi dredging. (located in D. Scarratt's office, DFO, Halifax)

Schafer, C.T. and D. Scott. 1976. Multidisciplinary environmental marine geological analysis of a coastal area. Report of Activities, Part C, Geological Survey of Canada, Paper 76-1C, pp. 1-3.

/Schafer, C.T. and J.N. Smith. 1983. River discharge, sedimentation, and benthic environmental variations in Miramichi Inner Bay, New Brunswick. Can. J. Earth Sci., 20, pp. 388-398.

/ Schafer, C.T., F.E. Cole, and F.J.E. Wagner. 1977. Relationship of Foraminifera distribution patterns to sedimentary processes in the Miramichi Estuary, New Brunswick. Report of Activities, Geological Survey of Canada, Paper 77-1C, pp. 1-7.

Schafer, C.T., J. Smith, and F.E. Cole. (n.d.) Recent and Upper Holocene changes in the benthic environment of Miramichi Bay.

Schofield, E.J. 1968. Daily counts of Atlantic salmon and other fish at the Curventon counting fence on the Northwest Miramichi River, New Brunswick, in 1967. Fisheries Research Board of Canada. Manuscript report series 1002. 38p. (in DFO Library, Halifax, BIO Library, Dartmouth)

Schofield, E.J. and J.L. Peppar. 1979. Densities of freshwater fishes (non-Atlantic salmon), Miramichi River system, New Brunswick, 1970-1978. Canada Department of Fisheries and Oceans. Canadian data report of fisheries and aquatic sciences, 170. 43 p. (in DFO Library, Halifax)

Schofield, E.J. and J.L. Peppar. 1982. Some biological statistics on Atlantic salmon parr from the Miramichi River system, New Brunswick. Canadian Department of Fisheries and Oceans. 13 p. (in DFO Library, Halifax)

Schofield, E.J. and J.L. Pepper. 1983. Habitat spot-check surveys, Miramichi River system 1980. Canada Department of Fisheries and Oceans. Canadian data report of fisheries and aquatic sciences, 377. 17 p. (in DFO Library, Halifax)

/Scott, D.B., F.S. Medioli, and C.T. Schafer. 1977. Temporal changes in foraminiferal distributions in Miramichi River Estuary, New Brunswick. Can. J. Earth Sci., 14, pp. 1566-1587.

Scott, D.B., Schafer, C.T., and Medioli, F.S. 1980. Eastern Canadian estuarine foraminifera: a framework for comparison. Journal of Foraminiferal Research, 10, pp. 4205-234.

Seatech Investigation Services Limited. 1982. Water quality monitoring of the Miramichi estuary. Prepared by C. MacGregor, D. Wilson, M. Fraser, for G. Packman, Environmental Protection Service, and D. Bezanson, DFO, BIO. (in BIO Library, cat. # TD195.D72 M5 No. F-5 ENV COLL)

Shaw, E.W. Little southwest Miramichi-Sevogle Rivers area New Brunswick. Energy, Mines and Resources, Geological Survey of Canada. (in DFO Library, Halifax) Sherbin, I.G. 1971. Survey of pulp and paper mills in eastern New Brunswick - 1971. Canada Fisheries Service (Maritime Region). Manuscript report, 71-22. 26 p. (in DFO Library, Halifax)

Sinclair, M., V.C. Anthony, T.D. Iles, and R.N. O'Bayles. 1985. Stock assessment problems in Atlantic herring (*Clupea harengus*) in the Northwest Atlantic. Can. J. Fish. Aquat. Sci., 42, pp. 888-898.

Smith, S.J. 1981. Atlantic salmon sport catch and effort data, Maritimes Region, 1951-1979. Can. Data Report Fish Aquat. Sci. No. 258, 267 p.

Sprague, J.B. and W.V. Carson. 1963. Chemical conditions in the Northwest Miramichi River during 1960, 1961, 1962, including heavy metal concentrations. Fisheries Research Board of Canada. Manuscript Rept Ser. no. 148. 71 p. (in BIO Library, Dartmouth)

Sprague, J.B. and W.V. Carson. 1963. Chemical conditions in the northwest Miramichi River from 1960 to 1962. Fisheries Research Board of Canada, Biological Station, St. Andrews, New Brunswick. General series circular, 38. 4 p. (in DFO Library, Halifax)

Sprague, J.B. and W.V. Carson. 1964. Chemical conditions in the Northwest Miramichi River during 1963. Fisheries Research Board of Canada. Manuscript report series 180. 62 p. (in BIO Library, Dartmouth)

Sprague, J.B. and W.V. Carson. 1964. Changes in mining pollution of the northwest Miramichi River from June 30, 1960 to the end of 1963. Fisheries Research Board of Canada, Biological Station, St. Andrews, New Brunswick. General series circular, 42. 4 p. (in DFO Library, Halifax)

Sprague, J.B. and W.V. Carson. 1965. Chemical conditions in the Northwest Miramichi River during 1964. Fisheries Research Board of Canada. Manuscript report series 192. 26 p. (in BIO Library, Dartmouth)

Sprague, J.B. and W.V. Carson. 1966. Chemical conditions in the Northwest Miramichi River during 1965. Fisheries Research Board of Canada. Manuscript report series 210. 27 p. (in BIO Library, Dartmouth)

Sprague, J.B. and W.V. Carson. 1967. Chemical conditions in the northwest Miramichi River during 1966. Fisheries Research Board of Canada. Manuscript report series 909. 35 p. (in DFO Library, Halifax, BIO Library, Dartmouth)

Sprague, J.B. and W.V. Carson. 1968. Chemical conditions in the northwest Miramichi River during 1967. Fisheries Research Board of Canada. Manuscript report series, 959. 38 p. (in DFO Library, Halifax, BIO Library, Dartmouth)

Sprague, J.B. and W.G. Carson. 1970. Spot-checks of mercury residues in some fishes from the Canadian Atlantic coast. Fisheries Research Board of Canada. Manuscript report series, 1085. 16 p. (in DFO Library, Halifax, BIO Library, Dartmouth)

Sprague, J.B., W.V. Carson, and E.J. Schofield. 1968. Zinc-copper pollution in Miramichi River, summer 1967: chemical autopsy on dead fish and interpretation of associated field data. Fisheries Research Board of Canada. Manuscript report series, 962. 31 p. (in DFO Library, Halifax, BIO Library, Dartmouth) Staahl, G., E.J. Loudenslager, R.L. Saunders, and E.J. Schofield.1983. Electrophoretic study on Atlantic salmon populations from the Miramichi River (New Brunswick) system. Proc. ICES 14 p. ICES-CM-1983/M: 20. (in BIO Library and DFO Library, Halifax)

St. Andrews File. November 1974 - December 1975. Initial meeting re: Miramichi dreding. Suggestions for environmental studies. Inventory of data-references requested and produced. Trout document. Hydraulic model brochure. Blue print. terms of reference for Assembly of Fisheries Resource Information for Environmental Assessment.

St. Andrews File. September 1976 - May 1977. Question of Canplan's "no environmental constraints". Dominy's response to the CanPlan IEE. Dominy's comments on the Miramichi Channel Study. Mention that there is no initiator for a formal EIS under EARP. "no significant impact on the fisheries was anticipated".

St. Andrews File. June 1977 - June 1978. Offers from DFO to assist in design, supervision, and services. DFO insists that currents, sediments and the fishery are high priority. Fishermens concerns, Mention of DPW's "no significant impact" act. Resource and Exploitation Information and Conflict ratings chart.

St. Andrews File. July - August 1978. Mention of fishermens' compensation fund. 1979 permit. Requested changes.

St. Andrews File. September - October 1978. Questionnaire. Memorandum re: compensation permits. Report of expected stability of the spoil to be disposed at dump site A. Fishermen meetings. Need for a DFO observer is identified and requested. Williston leaves the meeting of MCSF. MFU meeting.

St. Andrews File. November 1978. Fishermen's meetings and concerns. Landva Report. Resource maps and report. Questions and responses for M.P. Maurice Dionne.

St. Andrews File. December 1978 - February 1979. Summary of dump site selection criteria. Details of arrangements respecting potential impacts to those employed in the fishing industry. Minister LeBlanc statement. Offer of advice to DPW from EPS to design the monitoring program. Brief note for Minister LeBlanc. Estimates of inhouse costs for a monitoring program. Press release re: MEMC. Proposed DPW program as prepared by Marex. "Creeping Industrialization...."

St. Andrews File. March - May 1979. "so amateurish and incomplete.." Mir. Port Improvement Authority. Political pressure from Chamber of Commerce - Newcastle. Neguac Chamber of Commerce against dumpsites B and C.

St. Andrews File. June 1979 - January 1980. 1 million dollar proposal.

St. Andrews File. February - July 1980. Marex Proposal for 1 million. Program modified. J. Uthe's letter suggesting inhouse participation. Confidentiality of fishermen's data. DFO suggest control of program. More concern about DFO data Test dumping discussed. New Marex Proposal for 660k. Warning that consulting from DFO was available and that the consultants' monitoring program was " indefinite and information would be inclusive" (sic). Minister LeBlanc requests a liaison.

St. Andrews File. August 1980 - April 1981. Boise-Cascade papermill pollution. Dredging Impact Review Committee mandated. Recommendation of dredging equipment types. Formation of committees. Plansearch's proposal for monitoring. Full-time fisheries field manager. Transfer responsibility to the Gulf region. Warning of the potential collapse of the salmon fishery owing to dredging and a commercial fishery. News release. Violence threatened. Considerable input from fishermen. (This is a reference from MacLaren Plansearch, Final Report 1984.)

St. Andrews File. May - June 1981. Press reports. Fishermen suggest movement of the dredge and request that the monitoring committee be extended to ten years. Meeting with Murice Dionne (MP). Impact Review Committee not working properly. Meeting to identify all the participants in the monitoring group, including proponent to RODAC. Dredging project...more difficult to control. Second dredge arrives before lobster season over. Mandate of the monitoring Committee. OSS's observations on the project. DJS's concern over the pace of review. Note to minister re: Lobster season conflict. Brief up-date on dredging activities.

St. Andrews File. July - October 1981. Fishing conflicts arise with the commencement of dredging operations-lobster gear. Fishermen identify that dredging has impact on smelt fishery. Slides of the river and operations. Gaspereau landing data. Striped bass fishery up. Scarratt's contractor inspection. Progress reports from MPL. Meth to observe similar project in U.S. Meetings with the fishermen in Chatham. Warnings about reduced fishery take effect. Eel grass. Frustration with contacting impact monitoring committee.

St. Andrews File. November 1981 - February 1982. Meeting with fishermen re.lobster catches and compensation. Dale Buckley's memos re: SPM. DFO memos re: lobster and salmon logs. Division of claims between DFO and DPW committees. Miramichi winter monitoring-off then on. DJS's comments on Tidal Power, etc. "...unwielding and insensitive...gaps in data." Interviews with fishermen. Requests for fisheries exclusion zones. Transfer of claims to DJS's office.

St. Andrews File. March - April 1982. Evaluation of the 1981 monitoring program, a few comments on compensation for equipment fouling and reduced catch in gaspereau and salmon fishery, and RODAC's recommended monitoring program for 1982.

St. Andrews File. May 1982. Refinement of the methods and the announcement that MP will sub to the others. MP's proposal in detail. Approval of the proposal. Mention of K. Kranck's study. Legal Services opinion letter.

St. Andrews File. June - August 1982. Response and completion of the 1981 Environmental Monitoring of the Dredging of the Miramichi River report. Telexes mentioning claims. Description of the fouling. Investigation by DFO. Statutory declarations. Rough 1982 monitoring data begins. Ichthyoplankton sample problems. Progress reports. Fouling report by DFO personnel.

St. Andrews File. September 1982. Environmental monitoring meeting in Newcastle re: compensation. August dump tracks. Progress report. Conan to report on eel grass. New Requirements. More compensation requests.

St. Andrews File. October 1982. Pressure to settle from fishermen. Cooperation in monitoring fouling. Who's mandate to look into compensation monitoring. Dredge tracks. Rough data.

St. Andrews File. November 1982. Criticize ichthyoplankton sample. Conans report - no eel grass here. O₂s low then questioned . Challenge the fishermen for facts. Francis Jordan letter: channel and dump site stability.

St. Andrews File. December 1982. A suggested monitoring program for 1983. Payment of claims if ... More claims - loss of catch- values high.

St. Andrews File. January - March 1983. EPS meeting to review results of 1982. 1983 permit. Minutes of the MC. Still ichthyoplankton sample problems. F. Jordan analysis of fouling samples. PJ in. R.A. in. Chart of complaints. Invitation to meet fishermen. 1983 and 1984 MP proposal.

St. Andrews File. April - June 1983. DJ's comments on MP83. Modifications of the suggested 1983-84 monitoring program. Francis Jordan says that dump A is stable. Parts of the MP 1982 Draft report are included here. MLA Roger Wedge calls. Anon. report on gaspereau [R. Alexander?]. K. Kranck's report on peat. DPW Minister pressing for settlement. Decision on nine claims. Baie Ste-Anne damage data. Up-dated report from Ross Alexander including non-biological criteria. Another up-dated report from Ross Alexander.

St. Andrews File. July 1983. Seatech request new lab to carry their analyses. Comments still on the MP1981 report. MP 1981 Report. A final compensation claim settlement.

St. Andrews File. August - September 1983. Claims for 1981 gaspereau catch reduction and 1982 reduction. Copies of letters to DPW and reasoning behind each settlement.

St. Andrews File. October - November 1983. Interim progress report. Status Report to Dominy. Minister's letter to MFU.

St. Andrews File. December 1983. Five outstanding open water smelt fishery claims still not resolved. Rough notes on claims. Enclosures include large table showing 1981-2 claims and William Murdock's landing receipts.

St. Andrews File. January - May 1984. 18 more claims. PJ's proposal to Beanlands. Vivian's "opus". Meetings re: 1983 claims. Four more claims - smelts. Review of the MP 1984 report. Two more smelt claims.

St. Andrews File. June - February 1985. Comments by Packman on MP 1984. The G.G. approves the compensation to 15 fishermen. PJ's letter to Packman. Six more claims. Ross to the rescue. Ministers letters. Richard W. Welsford Research Group Limited hired.

/Stasko, A.B. 1976. Suspended particulate matter in Miramichi estuary at Newcastle, New Brunswick. Fisheries Research Board of Canada. 14 p. (in DFO Library, Halifax, BIO Library, Dartmouth)

Steering Committee for Studies of Miramichi River Navigation Channel Improvement (Canada). 1976. Summary report. 41 p. + appendices. (in DFO Library, Ottawa)

Steering Committee for Studies of Miramichi River Navigation Channel Improvements. 1977. Miramichi channel study summary report. 22 p. (in DFO Library, Ottawa)

Stewart, L.L. and P.J. Auster. 1987. Species profiles: life histories and environmental requirements of coastal fishes and invertebrates (North Atlantic): Atlantic tomcod. U.S. Fish and Wildlife Service. Biological report 82 (11.76), Technical report EL-82-4.

Sutherland, J.K. 1976. Size analyses of Miramichi Channel sediment samples. Feport for N.B. Research and Productivity Council, Feb. 11, 1976.

Swetnam, D.A.B. and S.F. O'Neil. 1985. Collation of Atlantic salmon sport catches statistics Maritime Provinces, 1960-69. Can. Data Rep. Fish. Aquat. Sci. No. 533, 289 p.

Tapley, S 1969.Foraminiferal analysis of the Miramichi Estuary. Maritime sediments Vol. 5(1) pp 30-39.

Tims, J. 1989. Acid Rain in New Brunswick and Effects on Ecosystems in the Miramichi Drainage Basin. New Brunswick Department of the Environment.

Transport Canada. 197?. Compilation of 1975 velocity, salinity and temperature measurements prepared for the Miramichi Channel Study. Transport Canada publication. Ottawa.

Turner, G.E. (n. d.) Exploitation of Miramichi Atlantic salmon based on smolts tagged in 1968-1969-1970. ICNAF. Redbook 1972, Part 3. (in DFO Library, Halifax)

Turner, G.E. 1971. A report on recapture from a 1968 native salmon smolt tagging project on the Miramichi River. ICNAF, Research document, 71/71. (in DFO Library, Halifax)

.

Turner, G.E. 1972. Exploitation of Miramichi Atlantic salmon based on smolts tagged in 1968, 1969 and 1970. ICNAF, Research document, 72/71. 10 p. (in DFO Library, Halifax)

Turner, G.E. 1973. Migration route and timing of Miramichi River salmon (*Salmo salar*) as indicated from recaptures of tagged smolt and adult salmon. ICES Anadromous and Catadromous Fish Committee. 13 p. (in DFO Library, Halifax)

Turner, G.E. 1974. Recent changes in size and composition of the Miramichi River salmon run, New Brunswick, and resultant improvement in juvenile salmon population following a commercial salmon fishing ban. ICES Anadromous and Catadromous Fish Committee. 8 p. (in DFO Library, Halifax)

Turner, G.E. 1975. Exploitation of Miramichi Atlantic salmon based on smolts tagged in 1968, 1969 and 1970. Can. Fish. Mar. Serv. (Maritimes Region). Technical report series. MAR/T-75-3. 11 p. (in DFO Library, Halifax)

Turner, G.E. 1975. Migration route and timing of Miramichi River salmon (*Salmo salar*) as indicated from recaptures of tagged smolts and adults. Canada Fisheries and Marine Service (Maritimes Region). Technical report series. MAR/T-75-7. 11 p. (in DFO Library, Halifax)

Turner, G.E. 1975. Timing of migration of Atlantic salmon (*Salmo salar*) within the Miramichi River system, New Brunswick. ICES Anadromous and Catadromous Fish Committee. 7 p. (in DFO Library, Halifax)

Turner G.E. 1976. Exploitation of Atlantic salmon (*Salmo salar*) in the Miramichi River system, including the bay and estuary, as revealed by wild smolt and adult salmon tagging. ICES C.M.1976 / M:16, Copenhagen.

Turner, G.E. 1983. An efficiency estimate of the Millbank estuarial sampling trap, Miramichi River, New Brunswick, 1973. CAFSAC, Research document, 83/78. 12 p. (in DFO Library, Halifax) Turner, G.E., N.E. MacEachern, and C.P. Ruggles. 1972. Review of Atlantic salmon stocks in major New Brunswick rivers in 1972. Can. Fish. Mar.Serv. (Maritimes Region). Manuscript report, 72-18. 10 p. (in DFO Library, Halifax)

Turner, G.E., N.E. MacEachern, and C.P. Ruggles. 1973. Review of Atlantic salmon stocks in major New Brunswick rivers in 1972. ICNAF, Research document, 73/65. 16 p. (in DFO Library, Halifax)

Vilks G. and Krauel, D.P.1979. Physical Oceanography. Chap.2 in The Physical Oceanography, Geochemistry Sedimentology and Paleocology of the Miramichi Estuary. Geological Survey of Canada, special paper.

Vilks, G. and D.P. Krauel. 1982. Environmental geology of the Miramichi Estuary: physical oceanography. Geological Survey of Canada, Paper 81-24, Ottawa, 53 p.

Wagner, F.J.E. 1976. Mollusc distributions, Miramichi Estuary, New Brunswick. In Report of Activities, Part C., Geological Survey of Canada, Paper 76-1C, p. 45.

Wagner, F.J.E. and C.T. Schafer. 1980. Upper Holocene Paleoceanography of Inner Miramichi Bay. Maritime Sediments, 16, pp. 5-10,

Ware, D.M. and B.L. Henriksen. 1978. On the dynamics and structure of the southern Gulf of St. Lawrence Herring stocks. Fish. Mar. Serv. Tech. Rep., 800, 83 p.

Welsford, R.W. Research Group. 1984. Pool dredging and restoration in the Southwest Miramichi River: potential impacts on Atlantic salmon abundance and habitat utilization: fall 1983. 20 p. (in DFO Library, Ottawa)

Welsford, R. W. Research Group Limited, E.S.S.A., William M. Mercer Limited, and D.J. Scarratt. 1986. The Miramichi Channel Project: Report of the Monitoring Committee. 71 p. + appendices.

Whitney, W.H. and G.G.Wilson .1968. Effluent distribution studies on the Miramichi and Restigouche estuaries. Pulp and Paper Mag. of Canada. 69(21): 79-85.

Wildish, D.J. 1984. Analysis and avoidance of smelt in Miramichi dredge spoil plumes. Pp. 44-47 in "Report on Ocean Dumping Research and Development, Atlantic Region, 1981-8[2]" EPS Surveillance Report EPS-S-AR-83-9.

Willey, J.D. 1976. Preliminary results of Miramichi geochemical data analysis. Unpublished.

Willey, J.D. 1976. Seasonal variations in the oceanography and sediment geochemistry in the Miramichi estuary, New Brunswick, a preliminary report. Report of activities, Part C, Geological Survey of Canada, Paper 76-1C, pp. 47-50.

Willey, J.D. and Fitzgerald R.A.1976. Analysis for Mercury Miramichi sediments. In Appendix two "Preliminary Environmental Assessment of the Miramichi Dredging Proposal "Canplan Oceanography Ltd.

Willey, J.D.and Fitzgerald, R.A.1976. Analysis for Cadmium Miramichi Sediments. In Appendix two "Preliminary Environmental Assessment of the Miramichi Dredging Proposal " Canplan Oceanography Ltd.

Willey, J.D. and R.A. Fitzgerald. 1980. Trace metal geochemistry in sediments from the Miramichi Estuary, New Brunswick. Can. J. Earth Sci., 17, pp. 254-265.

Willis, D.H. 1977. Miramichi Channel Study Hydraulic Investigation. NRC, Mechanical Engineering. Volumes 1-and 2. Hydraulus Jab Jich Ryth. LTR- HIJS6

Wilson, G.G.1966. Mill effluent distribution in Miramichi estuary. Prog. Rep. No. 153-162. Research Laboratories, Fraser Companies Ltd., Atholville, N.B.

Wilson, K.A. and J. Chance. 1975. Preliminary plot of areas of fishery activity. Miramichi Channel Study. New Brunswick Department of Fisheries.

Winters, G. V. 1976. Elutriate Test of Miramichi Channel Sediments. Prepared for Canplan Oceanography Ltd. by Atlantic Geoscience Centre, Geological Survey of Canada Dartmouth, N.S.

Winters, G.V. 1981. Environmental geology of the Miramichi Estuary: suspended sediment transport. Geological Survey of Canada, Paper 81-16, Ottawa, 12 p.

Winters, G.V. 1983. Modelling suspended sediment dynamics of the Miramichi Estuary, New Brunswick, Canada. Can. J. Fish. Aquat. Sci., 40 (Suppl. 1), pp. 105-116.

Winters, G.V. and D.E. Buckley. 1978. In situ monitoring data on the water column in the Miramichi Estuary, New Brunswick. Bedford Institute of Oceanography Data, Ser. BI-D-78-9: 131 p

Winters, G.V. and D.E. Buckley. 1980. In situ determination of suspended particulate matter and dissolved organic matter concentrations in an estuarine environment by means of an optical beam attenuance meter. Estuarine Coastal Mar. Sci., 10, pp. 455-466.

Winters, G.V., R.A. Fitzgerald, and D.E. Buckley. 1978. Analyses of water column and bottom sediment samples from the Miramichi Estuary, New Brunswick. Data Series BI-D-78-8. Bedford Institute of Oceanography, Dartmouth, Nova Scotia. 81 p.

Wood, C.S. 1984. Biological survey for Heath Steele Mines Ltd., May to Aug. 1985. Technical memorandum No. 185 (confidential internal Noranda document) Ecological section, Department of Environmental Technology, Centre du Recherche Noranda, 240 Boul. Hymus, Pointe Claire, Quebec, H9R 1G5 (source: MREAC)

Zitko, V. and W.V. Carson. 1969. Analysis of the effluent from the Domtar wood preserving plant at Newcastle, New Brunswick. Fisheries Research Board of Canada. Manuscript report series, 1024. 14 p. (in DFO Library, Halifax, BIO Library, Dartmouth)

Zitko, V. and W.V. Carson. 1969. Chemical conditions in the Northwest Miramichi River during 1968. Fish. Res. Bd. Canada. MS Rep. 1023: 26 p.

Zitko, V. and W.V. Carson. 1970. Chemical conditions in the Northwest Miramichi River during 1969. Fisheries Research Board of Canada. Manuscript report series, 1104. 32 p. (in DFO Library, Halifax, BIO Library, Dartmouth)

Zitko, V. and W.V. Carson. 1971. Chemical conditions in the Northwest Miramichi River during 1970. Fisheries Research Board of Canada. Manuscript report series, 1140. 30 p. (in DFO Library, Halifax, BIO Library, Dartmouth)

SH17.20118

Zitko, V., and W.G. Carson. 1974. Avoidance of organic solvents and substituted phenols by juvenile Atlantic Salmon. Fish. Res. Bd. Canada. MS Rept. 1327:13 pp.

Zitko, V., W.G. Carson, and W.V. Carson. 1969. Wood preserving plant effluent: chemical composition, toxicity to salmon and trout. Fisheries Research Board of Canada. Manuscript report series, 1042. 36 p. (in DFO Library, Halifax, BIO Library, Dartmouth).