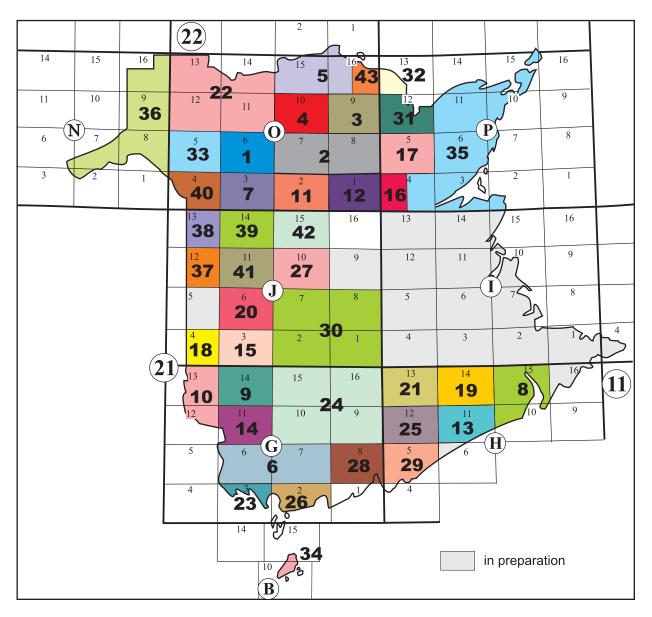
TILL GEOCHEMISTRY 1:50 000 SCALE



Numbers refer to the chronological order of the studies conducted in each area. See list below.

NEW BRUNSWICK TILL GEOCHEMISTRY REPORTS AND MAPS

Revised April, 2012

Author = report; Author = map plate; *Author* = paper

1:50 000 SCALE NTS MAP AREAS

(10-km sample grid for the New Brunswick Lowlands to 2-km sample grid for the New Brunswick Highlands)
(in chronological order of first study, keyed to the index map)

- THIBAULT, J. 1985. Granular aggregate resources and surficial geology of Sisson Branch Reservoir (21 O/6). New Brunswick Department of Natural Resources, Mineral Resources Division, Open File Report 85-3, 46 p. [Appendix D contains till geochemistry data for 30 sites]
 - THIBAULT, J.J. 1987. Till sample geochemistry, Sisson Branch Reservoir, 21 O/6. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 87-60.
 - PARKHILL, M.A., and DESROSIERS, M. 2010. Location of basal till samples in the Sisson Branch Reservoir map area (NTS 21 O/06), Victoria, Restigouche and Northumberland counties, New Brunswick Department of Natural Resources; Crown Lands, Minerals and Petroleum Division, Plate 2010-6.
- 2) SEAMAN, A.A. 1985. Till sample geochemistry, Nepisiguit Lakes, 21 O/7. New Brunswick Department of Natural Resources, Mineral Resources Division, Plate 85-5.
 - PARKHILL, M.A. 1993. Surficial geology and till geochemistry of the Nepisiguit Lakes (NTS 21 O/7) and California Lake (NTS 21 O/8) map areas; Gloucester, Northumberland, Restigouche, and Victoria counties, New Brunswick. *In* Current Research. *Edited by* S.A. Abbott. New Brunswick Department of Natural Resources and Energy, Mineral Resources, Information Circular 93-1, p. 121-146.
 - PARKHILL, M.A. 1994. Surficial geology and till geochemistry of the Nepisiguit Lakes (NTS 21 O/7) and California Lake (NTS 21 O/8) map areas; Gloucester, Northumberland, Restigouche, and Victoria counties, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Geoscience Report 94-3, 275 p.
 - PARKHILL, M.A. 1994. Location of till and soil samples in the Nepisiguit Lakes (NTS 21 O/7) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 93-12A.
 - PARKHILL, M.A. 1994. Cu, Pb, Zn, Co and Ni values in till of the Nepisiguit Lakes (NTS 21 O/7) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 93-12B.
 - PARKHILL, M.A. 1994. Au, Ag, As, Hg and Sb values in till of the Nepisiguit Lakes (NTS 21 O/7) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 93-12C.
 - PARKHILL, M.A. 1994. Mo, Mn, Fe, W and Sn values in till of the Nepisiguit Lakes (NTS 21 O/7) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 93-12D.
 - PARKHILL, M.A. 1994. Location of till and soil samples in the California Lake (NTS 21 O/8) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 93-13A.
 - PARKHILL, M.A. 1994. Cu, Pb, Zn, Co and Ni values in till of the California Lake (NTS 21 O/8) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 93-13B.
 - PARKHILL, M.A. 1994. Au, Ag, As, Hg and Sb values in till of the California Lake (NTS 21 O/8) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 93-13C.
 - PARKHILL, M.A. 1994. Mo, Mn, Fe, W and Sn values in till of the California Lake (NTS 21 O/8) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 93-13D.
- 3) **PRONK, A.G. 1986.** Till geochemistry of Tetagouche Lakes map area (21 O/9), New Brunswick. New Brunswick Department of Forests, Mines and Energy; Mineral Resources Division, Geological Notes Series P.M. 86-216, 10 p.
 - PRONK, A.G. 1986. Surficial geology of the Tetagouche Lakes area. New Brunswick Department of Forests, Mines and Energy, Mineral Resources Division, Plate 86-216A. [indicates sample site locations]
 - PRONK, A.G. 1986. Gold in tills, Tetagouche Lakes map area. New Brunswick Department of Natural Resources and Energy, Mineral Resources Division, Plate 86-216B.
- 4) **PRONK, A.G. 1987.** Surficial geology and till geochemistry of the Upsalquitch Forks (21 O/10) map area (with emphasis on gold distribution in tills). New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Geological Notes Series P.M. 87-47, 8 p.
 - PRONK, A.G. 1987. Surficial geology of the Upsalquitch Forks area. New Brunswick Department of Forests, Mines and Energy, Mineral Resources Division, Plate 87-47A. [indicates sample site locations]
 - PRONK, A.G. 1987. Au and As values in till, Upsalquitch Forks area. New Brunswick Department of Forests, Mines and Energy, Mineral Resources Division, Plate 87-47B.
 - PRONK, A.G. 1987. Cu,Pb,Zn,Ag,Sb values in till of the Upsalquitch Forks area. New Brunswick Department of Forests, Mines and Energy, Mineral Resources Division, Plate 87-47C.

- PRONK, A.G. 1987. Co,Ni,Mn,Fe,Mo values in till of the Upsalquitch Forks area. New Brunswick Department of Forests, Mines and Energy, Mineral Resources Division, Plate 87-47D.
- PRONK, A.G., and PARKHILL, M.A. 1988. Surficial geology and till geochemistry (Au, As, Sb, Hg, Bi, Cu, Pb, Zn, Ag, Mn, Fe, Co, Ni, Mo) of Atholville (21 O/15) map area and part of Escuminac (22 B/1) and Oak Bay (22 B/2) map areas, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Geological Notes Series PM 88-10, 7 p.
 - PRONK, A.G., and PARKHILL, M.A. 1988. Surficial geology of the Atholville (21 O/15) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 88-10A. [indicates sample site locations]
 - PRONK, A.G., and PARKHILL, M.A. 1988. Au, As, Sb, Hg, and Bi values in tills of the Atholville (21 O/15) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 88-10B.
 - PRONK, A.G., and PARKHILL, M.A. 1988. Cu, Pb, Zn, and Ag values in tills of the Atholville (21 O/15) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 88-10C.
 - PRONK, A.G., and PARKHILL, M.A. 1988. Mn, Fe, Co, Ni, and Mo values in tills of the Atholville (21 O/15) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 88-10D.
 - **DICKSON, M.L. 2002.** Drift prospecting and Quaternary geology in the Atholville and Charlo map areas, northern New Brunswick. New Brunswick Department of Natural Resources and Energy; Minerals, Policy and Planning Division, Open File 2002-9, 171 p. [parts of NTS 21 O/15 and 21 O/16]
 - DICKSON, M.L., BROSTER, B.E., and PARKHILL, M.A. 2004. Comparison of clast and matrix dispersal in till: Charlo-Atholville area, north-central New Brunswick. Atlantic Geology, **40**: 227-243.
- 6) CHISWELL, P.G., and LONG, L.R. 1989. Au, Ag, Sb, As, Cu, Pb, Zn and Bi values in till, Rollingdam map area (NTS 21 G/6), New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 88-15B. [Au analyses on the -250 mesh (<62 μm) fraction of C-horizon material; other analyses on the -80 mesh (<177 μm) fraction of B-horizon soils]
 - CHISWELL, P.G., and LONG, L.R. 1989. Mo, W, Co, Ni, V, Fe and Mn values in till, Rollingdam map area (NTS 21 G/6), New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 88-15C. [analyses on -80 mesh (<177 µm) fraction of B-horizon soils]
 - PRONK, A.G., and BOLDON, G.R. 2001. Au, Sb, As and Co in tills of the McDougall Lake area, NTS 21 G/07W, New Brunswick (preliminary map). New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 2001-26.
 - PRONK, A.G., BOLDON, G.R., and ALLARD, S. 2002. Till geochemistry and field data of the Rollingdam (NTS 21 G/06) and McDougall Lake (NTS 21 G/07) map areas, southwestern New Brunswick. New Brunswick Department of Natural Resources and Energy; Minerals, Policy and Planning Division, Open File 2002-4, 68 p.
 - PRONK, A.G., BOLDON, G.R., and ALLARD, S. 2002. Au, As, Sb and Cu values in tills of the Rollingdam map area (NTS 21 G/06), Charlotte County, New Brunswick. New Brunswick Department of Natural Resources and Energy; Minerals, Policy and Planning Division, Plate 2002-36A.
 - PRONK, A.G., BOLDON, G.R., and ALLARD, S. 2002. Au, As, Sb, and Cu values in tills of the McDougall Lake map area (NTS 21 G/07), Charlotte County, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals, Policy and Planning Division, Plate 2002-36B.
 - **ALLARD, S. 2003.** Geochemistry, lithology, and depositional history of the Rollingdam (NTS 21 G/06) map area till, southwestern New Brunswick. New Brunswick Department of Natural Resources and Energy; Minerals, Policy and Planning Division, Open File 2003-2, 218 p.
 - Allard, S. 2007. Antimony (Sb) concentration in till; McDougall Lake map area (NTS 21 G/07), southwestern New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2007-35.
 - Allard, S. 2007. Arsenic (As) concentration in till; McDougall Lake map area (NTS 21 G/07), southwestern New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2007-36.
 - Allard, S. 2007. Bismuth (Bi) concentration in till; McDougall Lake map area (NTS 21 G/07), southwestern New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2007-37.
 - Allard, S. 2007. Copper (Cu) concentration in till; McDougall Lake map area (NTS 21 G/07), southwestern New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2007-38.
 - Allard, S. 2007. Gold (Au) concentration in till; McDougall Lake map area (NTS 21 G/07), southwestern New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2007-39
 - Allard, S. 2007. Lead (Pb) concentration in till; McDougall Lake map area (NTS 21 G/07), southwestern New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2007-40.
 - Allard, S. 2007. Molybdenum (Mo) concentration in till; McDougall Lake map area (NTS 21 G/07), southwestern New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2007-41.

- Allard, S. 2007. Silver (Ag) concentration in till; McDougall Lake map area (NTS 21 G/07), southwestern New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2007-42.
- Allard, S. 2007. Tungsten (W) concentration in till; McDougall Lake map area (NTS 21 G/07), southwestern New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2007-43.
- Allard, S. 2007. Uranium (U) concentration in till; McDougall Lake map area (NTS 21 G/07), southwestern New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2007-44.
- Allard, S. 2007. Zinc (Zn) concentration in till; McDougall Lake map area (NTS 21 G/07), southwestern New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2007-45.
- 7) **PRONK, A.G., and PARKHILL, M.A. 1989.** Surficial geology and till geochemistry (Au, Ag, As, Hg, Sb, Cu, Pb, Zn, Co, Ni, Mo, Mn, Fe and W) of Riley Brook (21 O/3) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Geological Notes Series PM 89-71, 11 p.
 - PRONK, A.G., and PARKHILL, M.A. 1989. Au, Ag, As, Hg, and Sb values in tills of the Riley Brook (21 O/3) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 89-71B.
 - PRONK, A.G., and PARKHILL, M.A. 1989. Cu, Pb, Zn, Co, and Ni values in tills of the Riley Brook (21 O/3) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 89-71C.
 - PRONK, A.G., and PARKHILL, M.A. 1989. Mo, Mn, Fe and W values in tills of the Riley Brook (21 O/3) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 89-71D.
- 8) **Foisy, M. 1989.** Géomorphologie glaciaire et stratigraphie quaternaire sur le flanc nord-est des calédoniennes; Nouveau-Brunswick. Ministère des Ressources naturelles et de l'Énergie du Nouveau-Brunswick, Division des minéraux et de l'Énergie, Dossier Public 89-51, 201 p.
 - FOISY, M. 1990. Au, Ag, As, Hg, Sb, Cu, Pb, Zn, Mn, Fe, Co, Ni content in tills of Alma (21 H/10) and part of Waterford (21 H/11) map areas, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 90-34A.
 - FOISY, M. 1990. Au, Ag, As, Hg, Sb, Cu, Pb, Zn, Mn, Fe, Co, Ni content in tills of Hillsborough (21 H/15) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 90-34B.
 - SEAMAN, A.A. 2008. Till geochemistry sample sites in the Hillsborough (NTS 21 H/15) and Alma (NTS 21 H/10) map areas, Albert and Westmorland counties, southeastern New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2008-2.
 - **SEAMAN, A.A. 2009.** Till geochemistry data for the Hillsborough (NTS 21 H/15) and Alma (NTS 21 H/10) map areas, Albert and Westmorland counties, southeastern New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Open File (CD-ROM) 2008-7, 129 p.
- 9) **BALZER, S.A. 1992.** Quaternary geology and dispersal patterns of the Canterbury area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Mineral Resources, Open File Report 92-5, 192 p. [NTS 21 G/14]
 - BALZER, S.A., and SEAMAN, A.A. 1996. Au, Ag, As, Hg and Sb values in tills of the Canterbury (NTS 21 G/14) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 96-2A.
 - BALZER, S.A., and SEAMAN, A.A. 1996. Cu, Pb, Zn, Co and Ni values in tills of the Canterbury (NTS 21 G/14) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 96-2B.
 - BALZER, S.A., and SEAMAN, A.A. 1996. Mn, Fe, Sn, W, Th and U values in tills of the Canterbury (NTS 21 G/14) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 96-2C.
- **SEAMAN, A.A. 1992.** Till geochemistry of part of the Forest City (NTS 21 G/12) map area, York County, New Brunswick. New Brunswick Department of Natural Resources and Energy, Mineral Resources, Open File Report 92-6, 88 p.
 - **SEAMAN, A.A. 1993.** Follow-up till geochemical results for the Forest City (NTS 21 G/12) map area, York County, New Brunswick. New Brunswick Department of Natural Resources and Energy, Mineral Resources, Open File Report 93-8, 9 p.
 - SEAMAN, A.A. 1993. Au, Ag, As, Hg and Sb values in tills of the Forest City (NTS 21 G/12) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Mineral Resources, Plate 93-320A.
 - SEAMAN, A.A. 1993. Cu, Pb, Zn, Co and Ni values in tills of the Forest City (NTS 21 G/12) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Mineral Resources, Plate 93-320B.

- SEAMAN, A.A. 1993. Mn, Fe, Sn, W, Th and U values in tills of the Forest City (NTS 21 G/12) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Mineral Resources, Plate 93-320C.
- SEAMAN, A.A. 1993. Quaternary geology and till geochemistry of the Fosterville map area (NTS 21 G/13), York and Carleton Counties, New Brunswick. *In* Current Research. *Compiled and Edited by* S.A. Abbott. New Brunswick Department of Natural Resources and Energy, Mineral Resources, Information Circular 93-1, p. 147-151
- **SEAMAN, A.A. 1993.** Preliminary report Au, Ag, As, Hg, Sb and base metal values for till samples from the Fosterville (NTS 21 G/13) map area, York and Carleton counties, New Brunswick. New Brunswick Department of Natural Resources and Energy, Mineral Resources, Open File Report 93-7, 28 p.
- **SEAMAN, A.A. 1994.** Follow-up till geochemistry, Fosterville (NTS 21 G/13) map area, York and Carleton counties, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Open File Report 94-8, 26 p.
- SEAMAN, A.A. 1994. Surficial geology (regolith) mapping and follow-up till and quartz-boulder sampling in the Fosterville (NTS 21 G/13) map area, York and Carleton counties, New Brunswick. *In* Current Research 1993. *Compiled and Edited by* S.A.A. Merlini. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Miscellaneous Report 12, p. 166-177.
- SEAMAN, A.A., BELL, G., and WOOD, T.D. 1994. Au, Ag, As, Hg and Sb values in tills of the Fosterville (NTS 21 G/13) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 94-49A.
- SEAMAN, A.A., BELL, G., and WOOD, T.D. 1994. Cu, Pb, Zn, Co and Ni values in tills of the Fosterville (NTS 21 G/13) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 94-49B.
- SEAMAN, A.A., BELL, G., and WOOD, T.D. 1994. Mn, Fe, Sn, W, Th and U values in tills of the Fosterville (NTS 21 G/13) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 94-49C.
- **SEAMAN, A.A. 1999.** Till geochemistry of the New Brunswick part of the Forest City (NTS 21 G/12) and Fosterville (NTS 21 G/13) map areas, York and Carleton counties: site and geochemical data. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Open File 99-7, 67 p.
- 11) **Doiron, A. 1993.** Till geochemistry of the Serpentine Lake area, New Brunswick. GSC Open File 2246, 163 p. [NTS 21 O/2]
 - DOIRON, A. 1993. Geochemistry of the <0.063 mm fraction of till, Serpentine Lake (NTS: 21-O/2): Sheet 1 of 4. New Brunswick Department of Natural Resources and Energy, Mineral Resources, Plate 93-308A. [Ag, As, Au, Cu, Mo, Pb, Sb, W, and Zn]
 - DOIRON, A. 1993. Geochemistry of the <0.063 mm fraction of till, Serpentine Lake (NTS: 21-O/2): Sheet 2 of 4. New Brunswick Department of Natural Resources and Energy, Mineral Resources, Plate 93-308B. [Br, Ca, Ce, Cs, Eu, Ga, Hf, Ho, La, Lu, Na, and Nd]
 - DOIRON, A. 1993. Geochemistry of the <0.063 mm fraction of till, Serpentine Lake (NTS: 21-O/2): Sheet 3 of 4. New Brunswick Department of Natural Resources and Energy, Mineral Resources, Plate 93-308C. [Ba, Co, Cr, Fe, Nb, Ni, Rb, Sr, and U]
 - DOIRON, A. 1993. Geochemistry of the <0.063 mm fraction of till, Serpentine Lake (NTS: 21-O/2): Sheet 4 of 4. New Brunswick Department of Natural Resources and Energy, Mineral Resources, Plate 93-308D. [Sc, Sm, Ta, Tb, Th, V, Y, Yb, and Zr]
- 12) **DOIRON, A. 1993.** Till geochemistry of the Big Bald Mountain area, New Brunswick. GSC Open File 2560, 169 p. [NTS 21 O/1]
 - DOIRON, A. 1993. Geochemistry of the <0.063 mm fraction of till, Big Bald Mountain (NTS: 21-O/1): Sheet 1 of 4. New Brunswick Department of Natural Resources and Energy, Mineral Resources, Plate 93-317A. [Ag, As, Au, Cu, Mo, Pb, Sb, W, and Zn]
 - DOIRON, A. 1993. Geochemistry of the <0.063 mm fraction of till, Big Bald Mountain (NTS: 21-O/1): Sheet 2 of 4. New Brunswick Department of Natural Resources and Energy, Mineral Resources, Plate 93-317B. [Br, Ca, Ce, Cs, Eu, Ga, Hf, Ho, La, Lu, Na, and Nd]
 - DOIRON, A. 1993. Geochemistry of the <0.063 mm fraction of till, Big Bald Mountain (NTS: 21-O/1): Sheet 3 of 4. New Brunswick Department of Natural Resources and Energy, Mineral Resources, Plate 93-317C. [Ba, Co, Cr, Fe, Nb, Ni, Rb, Sr, and U]
 - DOIRON, A. 1993. Geochemistry of the <0.063 mm fraction of till, Big Bald Mountain (NTS: 21-O/1): Sheet 4 of 4. New Brunswick Department of Natural Resources and Energy, Mineral Resources, Plate 93-317D. [Sc, Sm, Ta, Tb, Th, V, Y, Yb, and Zr]
- 13) **Munn, M.D. 1995.** Till lithology and geochemistry in the Waterford area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Open File Report 95-4, 170 p. [NTS 21 H/11]
 - PRONK, A.G., and MUNN, M. 1995. Till lithology, geochemistry, and glacial dispersal in the Waterford map area (NTS 21 H/11), New Brunswick. In Current Research 1994. Compiled and edited by S.A.A. Merlini. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Miscellaneous Report 18, p. 205-212.
 - MUNN, M.D., BROSTER, B.E., and PRONK, A.G. 1996. Geochemical dispersal in till: Waterford area, New Brunswick. Atlantic Geology, **32**: 269-279.

- 14) SEAMAN, A.A., STUMPF, A.J., and BROSTER, B.E. 1994. Till sampling of the McAdam (NTS 21 G/11) map area, York County, New Brunswick. In Current Research 1993. Compiled and Edited by S.A.A. Merlini. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Miscellaneous Report 12, p. 177-183.
 - STUMPF, A.J., SEAMAN, A.A., and BROSTER, B.E. 1995. Variability of till in the McAdam (NTS 21 G/11) map area, York County, New Brunswick. *In* Geoscience Research 1994. *Compiled and Edited by* J.P. Langton. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Miscellaneous Report 15, p. 65-69.
 - **STUMPF, A.J. 1995.** Quaternary geology and dispersal patterns of the McAdam (21 G/11) map area, York County, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Open File Report 95-5, 218 p.
 - SEAMAN, A.A., STUMPF, A.J., and BELL, G. 1995. Au, Ag, As, Hg and Sb values in tills of the McAdam (NTS 21 G/11) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 95-13A.
 - SEAMAN, A.A., STUMPF, A.J., and BELL, G. 1995. Cu, Pb, Zn, Co and Ni values in tills of the McAdam (NTS 21 G/11) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 95-13B.
 - SEAMAN, A.A., STUMPF, A.J., and BELL, G. 1995. Mn, Fe, Sn, W, Th and U values in tills of the McAdam (NTS 21 G/11) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 95-13C.
 - STUMPF, A.J., BROSTER, B.E., and SEAMAN, A.A. 1997. Lithological and geochemical dispersal in till: McAdam area, New Brunswick. Atlantic Geology, **33**: 31-42.
 - **SEAMAN, A.A. 2003.** Till geochemistry of the McAdam (NTS 21 G/11) map area, York County, New Brunswick. New Brunswick Department of Natural Resources and Energy; Minerals, Policy and Planning Division, Open File 2002-8, 86 p.
- 15) SEAMAN, A.A., and PREBBLE, A.C. 1997. Au, Ag, As, Hg and Sb values in tills of the east half of the Millville (NTS 21 J/03) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 97-19A.
 - SEAMAN, A.A., and PREBBLE, A.C. 1997. Cu, Pb, Zn, Co and Ni values in tills of the east half of the Millville (NTS 21 J/03) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 97-19B.
 - SEAMAN, A.A., and PREBBLE, A.C. 1997. Mn, Fe, Sn, W, Th and U values in tills of the east half of the Millville (NTS 21 J/03) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 97-19C.
 - SEAMAN, A.A. 1997. Till geochemistry of the east half of the Millville (NTS 21 J/3) map area, York County, New Brunswick. In Current Research 1996. Edited by B.M.W. Carroll. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Mineral Resource Report 97-4, p. 225-246.
 - SEAMAN, A.A. 1998. Au, Ag, As, Hg and Sb values in tills of the west half of the Millville (NTS 21 J/03) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 98-19A.
 - SEAMAN, A.A. 1998. Cu, Pb, Zn, Co and Ni values in tills of the west half of the Millville (NTS 21 J/03) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 98-19B.
 - SEAMAN, A.A. 1998. Mn, Fe, Sn, W, Th and U values in tills of the west half of the Millville (NTS 21 J/03) map area, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 98-19C.
 - SEAMAN, A.A. 1998. Till geochemistry of the west half of the Millville (NTS 21 J/3) map area, York and Carleton counties, New Brunswick. *In* Current Research 1997. *Edited by* B.M.W. Carroll. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Mineral Resource Report 98-4, p. 75-92.
 - **SEAMAN, A.A. 1999.** Till geochemistry of the Millville (NTS 21 J/03) map area, York and Carleton counties, New Brunswick: site and geochemical data. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Open File 99-11, 85 p.
 - SEAMAN, A.A. 1999. Follow-up till geochemistry in the Millville (NTS 21 J/3) map area, York County, New Brunswick. *In* Current Research 1998. *Edited by* B.M.W. Carroll. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Mineral Resource Report 99-4, p. 45-55
- 16) DOIRON, A., and BOISVERT, É. 1999. Till geochemistry of the Sevogle area (NTS 21 P/04, west half), Northumberland and Gloucester counties, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Open File 99-3, 139 p.
 - DOIRON, A., and BOISVERT, É. 1999. Cu, Pb, Zn, Au, Ag, As, W, Sb and Mo; till geochemistry (<0.063 mm fraction), Sevogle (NTS 21 P/4 west half), New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 99-6.
 - DOIRON, A., and BOISVERT, É. 1999. Br, Ca, Ce, Cs, Eu, Ga, Hf, Ho, La, Lu, Na and Nd; till geochemistry (<0.063 mm fraction), Sevogle (NTS 21 P/4 west half), New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 99-7.
 - DOIRON, A., and BOISVERT, É. 1999. Co, Ni, Cr, U, Ba, Nb, Rb, Sr and Fe; till geochemistry (<0.063 mm fraction), Sevogle (NTS 21 P/4 west half), New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 99-8.

- DOIRON, A., and BOISVERT, É. 1999. Sc, Sm, Ta, Tb, Th, V, Y, Yb and Zr; till geochemistry (<0.063 mm fraction), Sevogle (NTS 21 P/4 west half), New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 99-9.
- 17) PARKHILL, M.A., and DICKSON, M.L. 1999. Till geochemistry of the Nepisiguit Falls map area (NTS 21 P/05), Gloucester and Northumberland counties, northern New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Open File 99-10, 108 p.
 - PARKHILL, M.A., and DICKSON, M.L. 1999. Location of basal till samples and ice-flow indicators in the Nepisiguit Falls map area (NTS 21 P/05), Gloucester and Northumberland counties, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 99-27A.
- **SEAMAN, A.A. 2000.** Till geochemistry of the New Brunswick part of the Woodstock (NTS 21 J/04) map area, Carleton County: site and geochemical data. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Open File 2000-3, 45 p.
 - SEAMAN, A.A. 2000. Till geochemistry sample sites in the New Brunswick part of the Woodstock (NTS 21 J/04) map area, Carleton County, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 2000-19.
 - SEAMAN, A.A. 2000. Till geochemistry and glacial dispersal in the eastern part of the Woodstock (NTS 21 J/04) map area, Carleton County, New Brunswick. *In* Current Research 1999. *Edited by* B.M.W. Carroll. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Mineral Resource Report 2000-4, p. 51-71.
- 19) ALLABY, G.M. 2000. Till provenance and glacial history of the Petitcodiac (NTS 21 H/14) map area, southeastern New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Open File 2000-8, 217 p.
 - BROSTER, B.E., ALLABY, G.M., and PRONK, A.G. 2004. Lithology and geochemical dispersal in till: Petitcodiac area, New Brunswick. Atlantic Geology, **40**: 169-188.
- 20) **SEAMAN, A.A. 2001.** Preliminary report till geochemistry of part of the west half of the Coldstream (NTS 21 J/06) map area, Carleton and York counties, New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Open File 2001-2, 51 p.
 - SEAMAN, A.A. 2001. The Cloverdale As-Sb dispersal train, and other till geochemical anomalies in the west half of the Coldstream (NTS 21 J/06) map area, Carleton and York counties, New Brunswick. *In* Current Research 2000. *Edited by* B.M.W. Carroll. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Mineral Resource Report 2001-4, p. 97-110.
 - **SEAMAN, A.A. 2002.** Till geochemistry of the central and eastern parts of the Coldstream (NTS 21 J/06) map area, York and Carleton counties, New Brunswick. New Brunswick Department of Natural Resources and Energy; Minerals, Policy and Planning Division, Open File 2002-5, 80 p.
 - SEAMAN, A.A. 2002. Surficial geology and till geochemistry of the eastern two-thirds of the Coldstream (NTS 21 J/06) map area, York and Carleton counties, New Brunswick. *In* Current Research 2001. *Edited by* B.M.W. Carroll. New Brunswick Department of Natural Resources and Energy, Minerals, Policy and Planning Division, Mineral Resource Report 2002-4, p. 81-103.
 - **SEAMAN, A.A. 2003.** Follow-up till geochemistry, Coldstream (NTS 21 J/06) map area and part of the adjacent Napadogan (NTS 21 J/07) map area, York and Carleton counties, New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Open File 2003-11, 103 p.
- 21) PRONK, A.G. 2001. Au, As, Sb, and Hg values in till of the Codys map area (NTS 21 H/13), New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 2001-7A
 - PRONK, A.G. 2001. Cu, Pb, Zn, and Ag values in till of the Codys map area (NTS 21 H/13), New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 2001-7B.
- 22) PARKHILL, M.A., and ARSENEAU, P. 2003. Location of basal till samples in the Gounamitz River map area (NTS 21 O/12), New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2003-5.
 - PARKHILL, M.A. 2005. Till geochemistry of the Kedgwick, Gounamitz River, States Brook, and Menneval map areas (NTS 21 O/11, 12, 13, and 14), Madawaska, Restigouche, and Victoria counties, northwestern New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Open File (Digital) 2005-4, 199 p.
 - PARKHILL, M.A. 2005. Location of basal till samples in the Kedgwick map area (NTS 21 O/11), Restigouche and Victoria counties, New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2005-3A.
 - PARKHILL, M.A. 2005. Location of basal till samples in the States Brook map area (NTS 21 O/13), Restigouche County, New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2005-3B.
 - PARKHILL, M.A. 2005. Location of basal till samples in the Menneval map area (NTS 21 O/14), Restigouche County, New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2005-3C.

- 23) PRONK, A.G., ALLARD, S., and Boldon, G.R. 2003. Till geochemistry of the St. Stephen (NTS 21 G/03) map area, Charlotte County, New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Open File 2003-12, 40 p.
 - PRONK, A.G., ALLARD, S., and BOLDON, R. 2003. Till sample site locations in the St. Stephen map area (NTS 21 G/03), New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2003-17A.
 - PRONK, A.G., ALLARD, S., and BOLDON, R. 2003. Colour contour plot of copper in till, St. Stephen map area (NTS 21 G/03), New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2003-17B.
 - PRONK, A.G., ALLARD, S., and BOLDON, R. 2003. Colour contour plot of lead in till, St. Stephen map area (NTS 21 G/03), New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2003-17C.
 - PRONK, A.G., ALLARD, S., and BOLDON, R. 2003. Colour contour plot of arsenic in till, St. Stephen map area (NTS 21 G/03), New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2003-17D.
 - PRONK, A.G., ALLARD, S., and BOLDON, R. 2003. Colour contour plot of antimony in till, St. Stephen map area (NTS 21 G/03), New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2003-17E.
- 24) **PRONK, A.G., ALLARD, S., and BOLDON, G.R. 2003.** Till geochemistry of the Fredericton Junction (NTS 21 G/10) map area, York and Sunbury counties, New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Open File 2003-13, 46 p.
 - PRONK, A.G., ALLARD, S., and BOLDON, R. 2003. Till sample site locations in the Fredericton Junction map area (NTS 21 G/10), New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2003-18A.
 - PRONK, A.G., ALLARD, S., and BOLDON, R. 2003. Colour contour plot of copper in till, Fredericton Junction map area (NTS 21 G/10), New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2003-18B.
 - PRONK, A.G., ALLARD, S., and BOLDON, R. 2003. Colour contour plot of lead in till, Fredericton Junction map area (NTS 21 G/10), New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2003-18C.
 - PRONK, A.G., ALLARD, S., and BOLDON, R. 2003. Colour contour plot of arsenic in till, Fredericton Junction map area (NTS 21 G/10), New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2003-18D.
 - PRONK, A.G., ALLARD, S., and BOLDON, R. 2003. Colour contour plot of antimony in till, Fredericton Junction map area (NTS 21 G/10), New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2003-18E.
 - **DICKINSON, P.J., and Boldon, G.R. 2010.** Reconnaissance till geochemistry data for the northeast quarter of the Fredericton (NTS 21 G) map area. New Brunswick Department of Natural Resources; Lands, Minerals and Petroleum Division, Open File (CD-ROM) 2010-2, 65 p.
- 25) **PRONK, A.G., ALLARD, S., and Boldon, G.R. 2003.** Till geochemistry of the Sussex (NTS 21 H/12) map area, Kings and Queens counties, New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Open File 2003-16, 54 p.
 - PRONK, A.G., ALLARD, S., and BOLDON, G.R. 2003. Till sample site locations in the Sussex map area (NTS 21 H/12), New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2003-19A.
 - PRONK, A.G., ALLARD, S., and BOLDON, G.R. 2003. Colour contour plot of copper in till, Sussex map area (NTS 21 H/12), New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2003-19B.
 - PRONK, A.G., ALLARD, S., and BOLDON, G.R. 2003. Colour contour plot of lead in till, Sussex map area (NTS 21 H/12), New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2003-19C.
 - PRONK, A.G., ALLARD, S., and BOLDON, G.R. 2003. Colour contour plot of arsenic in till, Sussex map area (NTS 21 H/12), New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2003-19D.
 - PRONK, A.G., ALLARD, S., and BOLDON, G.R. 2003. Colour contour plot of antimony in till, Sussex map area (NTS 21 H/12), New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2003-19E.
- PRONK, A.G., ALLARD, S., and BOLDON, G.R. 2004. Till geochemistry of the St. George (NTS 21 G/02) map area, Charlotte County, New Brunswick: site, textural and geochemical data with contour plots for As, Sb, Cu and Pb. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Open File 2004-5, 54 p.
- 27) **SEAMAN, A.A., ALLARD, S., PRONK, A.G., and Boldon, G.R. 2005.** 'Ultratrace' ICP-MS values for till samples from the Hayesville (NTS 21 J/10) map area; York, Carleton, and Northumberland counties, central New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Open File (Digital) 2005-10, 84 p.

- ALLARD, S., SEAMAN, A.A., PRONK, A.G., and BOLDON, G.R. 2005. Precious metal indicators in basal till, Hayesville map area (NTS 21 J/10), central New Brunswick, in comparison to southwestern New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2005-1A.
- ALLARD, S., SEAMAN, A.A., PRONK, A.G., and BOLDON, G.R. 2005. Tin-tungsten indicators in basal till, Hayesville map area (NTS 21 J/10), central New Brunswick, in comparison to southwestern New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2005-1B
- ALLARD, S., SEAMAN, A.A., PRONK, A.G., and BOLDON, G.R. 2005. Base metal indicators in basal till, Hayesville map area (NTS 21 J/10), central New Brunswick, in comparison to southwestern New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2005-1C.
- 28) ALLARD, S., PRONK, A.G., BOLDON, G.R., and GILMORE, W.F. 2006. Multivariate base-metal-mineralization indicator in basal till (<63µm fraction) of the Saint John (NTS 21 G/08) map area, southern New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Map Plate 2006-27.</p>
 - ALLARD, S., PRONK, A.G., BOLDON, G.R., and GILMORE, W.F. 2006. Multivariate precious-metal-mineralization indicator in basal till (<63µm fraction) of the Saint John (NTS 21 G/08) map area, southern New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Map Plate 2006-28.
 - ALLARD, S., PRONK, A.G., BOLDON, G.R., and GILMORE, W.F. 2006. Multivariate rare-metal-mineralization indicator in basal till (<63µm fraction) of the Saint John (NTS 21 G/08) map area, southern New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Map Plate 2006-29.
 - ALLARD, S., PRONK, A.G., BOLDON, G.R., and GILMORE, W.F. 2006. Multivariate tin-tungsten-mineralization indicator in basal till (<63µm fraction) of the Saint John (NTS 21 G/08) map area, southern New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Map Plate 2006-30.
- 29) PRONK, A.G., BOLDON, G.R., and ALLARD, S. 2007. Multivariate precious-metal-mineralization indicator in basal till (<63μm fraction) of the Loch Lomond (NTS 21 H/05) map area, southern New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Map Plate 2007-14.
 - PRONK, A.G., BOLDON, G.R., and ALLARD, S. 2007. Multivariate base-metal-mineralization indicator in basal till (<63µm fraction) of the Loch Lomond (NTS 21 H/05) map area, southern New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Map Plate 2007-15.
 - PRONK, A.G., BOLDON, G.R., and ALLARD, S. 2007. Multivariate tin-tungsten-mineralization indicator in basal till (<63µm fraction) of the Loch Lomond (NTS 21 H/05) map area, southern New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Map Plate 2007-16.
 - PRONK, A.G., BOLDON, G.R., and ALLARD, S. 2007. Multivariate rare-metal-mineralization indicator in basal till (<63µm fraction) of the Loch Lomond (NTS 21 H/05) map area, southern New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Map Plate 2007-17.
- 30) **SEAMAN, A.A. 2007.** Reconnaissance till geochemistry of NTS 21 J/01, J/02, J/07, and J/08 map areas (parts of York, Sunbury, Northumberland, and Queens counties), central New Brunswick: site and geochemical data. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Open File (CD-ROM) 2007-8, 95 p.
 - **SEAMAN, A.A. 2008.** Till geochemistry of the Fredericksburg South Tay River area, parts of the Burtts Corner and Napadogan map areas (NTS 21 J/02 and 21 J/07), York County, west-central New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Open File (CD-ROM) 2008-6, 55 p.
- 31) PARKHILL, M.A., and DESROSIERS, M. 2007. Location of basal till samples in the Bathurst map area (NTS 21 P/12), Gloucester and Restigouche counties, New Brunswick. New Brunswick Department of Natural Resources; Crown Lands, Minerals and Petroleum Division, Plate 2007-11.
- 32) PARKHILL, M.A., and DESROSIERS, M. 2007. Location of basal till samples in the Pointe-Verte map area (NTS 21 P/13), Gloucester and Restigouche counties, New Brunswick. New Brunswick Department of Natural Resources; Crown Lands, Minerals and Petroleum Division, Plate 2007-12.
- 33) **PILOTE, J.-L. 2009.** Géologie du Quaternaire et géochimie du till de la région Grand River (SNRC 21 O/05), nord–ouest du Nouveau-Brunswick. Ministère des Ressources naturelles du Nouveau-Brunswick, Division des minéraux, des politiques et de la planification, Dossier public (Cédérom) 2009–5, 107 p.
 - PARKHILL, M.A., DESROSIERS, M., and PILOTE, J.L. 2009. Location of basal till samples in the Grand River map area (NTS 21 O/05), Victoria and Madawaska counties, New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2009-7.
- 34) DICKINSON, P., ALLARD, S., PRONK, T., PARKHILL, M., BOLDON, G.R., and DESROSIERS, M. 2009. Reconnaissance till geochemistry of Grand Manan Island (parts of NTS 21 B/10 and B/15 map areas), Charlotte County, southern New Brunswick: "Ultratrace" ICP-MS and INAA geochemical data. New

- Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Open File (CD-ROM) 2009-9, 68 p.
- 35) DESROSIERS, M., and PARKHILL. M.A. 2009. Location of basal till sample in the Bathurst map area (NTS 21 P), Gloucester, Kent, Northumberland, and Restigouche counties, New Brunswick Department of Natural Resources; Lands, Minerals and Petroleum Division, Plate 2009-10A.
 - DESROSIERS, M., and PARKHILL. M.A. 2009. Location of basal till samples, ice-flow indicators and granular aggregate resources in the Bathurst map area (NTS 21 P), Gloucester, Kent, Northumberland, and Restigouche counties, New Brunswick. New Brunswick Department of Natural Resources; Lands, Minerals and Petroleum Division, Plate 2009-10B.
 - **DESROSIERS, M., and PARKHILL, M.A. 2010.** Reconnaissance till geochemistry of the northeastern part of the New Brunswick Lowlands in the Bathurst map area (NTS 21 P), Gloucester, Kent, Northumberland, and Restigouche counties, New Brunswick. New Brunswick Department of Natural Resources; Lands, Minerals and Petroleum Division, Open File (CD-ROM) 2010-5, 183 p.
- 36) PARKHILL, M.A., and DESROSIERS, M. 2010. Location of basal till samples and ice-flow indicators in the Edmundston map area (NTS 21 N), Madawaska and Restigouche counties, New Brunswick. New Brunswick Department of Natural Resources; Crown Lands, Minerals and Petroleum Division, Plate 2010-1.
- 37) PARKHILL, M.A., and DESROSIERS, M. 2010. Location of basal till samples in the Perth-Andover map area (NTS 21 J/12), Carleton and Victoria counties, New Brunswick. New Brunswick Department of Natural Resources; Crown Lands, Minerals and Petroleum Division, Plate 2010-2.
- 38) PARKHILL, M.A., and DESROSIERS, M. 2010. Location of basal till samples in the Aroostook map area (NTS 21 J/13), Victoria County, New Brunswick. New Brunswick Department of Natural Resources; Crown Lands, Minerals and Petroleum Division, Plate 2010-3.
- 39) PARKHILL, M.A., and DESROSIERS, M. 2010. Location of basal till samples in the Plaster Rock map area (NTS 21 J/14), Victoria County, New Brunswick. New Brunswick Department of Natural Resources; Crown Lands, Minerals and Petroleum Division, Plate 2010-4.
- 40) PARKHILL, M.A., and DESROSIERS, M. 2010. Location of basal till samples and ice-flow indicators in the Grand Falls map area (NTS 21 O/04), Victoria and Madawaska counties, New Brunswick. New Brunswick Department of Natural Resources; Crown Lands, Minerals and Petroleum Division, Plate 2010-5.
- 41) PRONK, A.G., BOLDON, G.R., PARKHILL, M.A., and DESROSIERS, M. 2012. Location of basal till samples and ice-flow indicators in the Juniper map area (NTS 21 J/11), York, Carleton, and Victoria counties, New Brunswick. New Brunswick Department of Natural Resources; Lands, Minerals and Petroleum Division, Plate 2012-13.
- 42) PARKHILL, M.A., DESROSIERS, M., PRONK, A.G., and BOLDON, G.R. 2012. Location of basal till samples and ice-flow indicators in the Tuadook Lake map area (NTS 21 J/15), Carleton, York, Northumberland and Victoria counties, New Brunswick. New Brunswick Department of Natural Resources; Lands, Minerals and Petroleum Division, Plate 2012-14.
- 43) PARKHILL, M.A., and DESROSIERS, M. 2012. Location of basal till samples and ice-flow indicators in the Charlo map area (NTS 21 O/16E), Restigouche County, New Brunswick. New Brunswick Department of Natural Resources; Lands, Minerals and Petroleum Division, Plate 2012-17.

IN PREPARATION

DICKINSON, P.J. [21 H/16]

PRONK, A.G., and BOLDON, G.R. [21 H/06; 21 J/05; 21 J/09]

SEAMAN, A.A., DICKINSON, P.J., and BOLDON, G.R. [21 I + 11 L/04]

DETAILED OR DEPOSIT-SCALE STUDIES

- PRESANT, E.W. 1967. A trace element study of podzol soils, Bathurst district, New Brunswick. In Symposium on Geochemical Prospecting. Edited by E.M. Cameron. Geological Survey of Canada, Paper 66-54, p. 222-232. [parts of NTS 21 O and 21 P]
- PRESANT, E.W. 1971. Geochemistry of iron, manganese, lead, copper, zinc, arsenic, antimony, silver, tin, and cadmium in the soils of the Bathurst area, New Brunswick. Geological Survey of Canada, Bulletin 174, 93 p. [parts of NTS 21 O and 21 P]

- GOVETT, G.J.S. 1973. Geochemical exploration studies in glaciated terrain, New Brunswick, Canada. In Prospecting in Areas of Glaciated Terrain. Edited by M.J. Jones. Institution of Mining and Metallurgy, p. 11-24. [parts of NTS 21 G/03, 21 G/08, 21 G/14, 21 O/09]
- SZABO, N.L., GOVETT, G.J.S., and LAJTAI, E.Z. 1975. Dispersion trends of elements and indicator pebbles in glacial till around Mt. Pleasant, New Brunswick, Canada. Canadian Journal of Earth Sciences, 12: 1534-1556. [part of NTS 21 G/07]
- TERRAIN ANALYSIS AND MAPPING SERVICES LIMITED. 1983A. Eastern Saint George Batholith, sample site locations. New Brunswick Department of Natural Resources, Mineral Resources Division, Plate 83-15. [parts of NTS 21 G/01, 21 G/02, 21 G/07, 21 G/08, 21 G/09, 21 G/10; 1-km grid]
- TERRAIN ANALYSIS AND MAPPING SERVICES LIMITED. 1983B. Eastern Saint George Batholith, heavy mineral survey: gold. New Brunswick Department of Natural Resources, Mineral Resources Division, Plate 83-16. [parts of NTS 21 G/01, 21 G/02, 21 G/07, 21 G/08, 21 G/09, 21 G/10; 1-km grid]
- TERRAIN ANALYSIS AND MAPPING SERVICES LIMITED. 1983C. Eastern Saint George Batholith, heavy mineral survey: tin. New Brunswick Department of Natural Resources, Mineral Resources Division, Plate 83-17. [parts of NTS 21 G/01, 21 G/02, 21 G/07, 21 G/08, 21 G/09, 21 G/10; 1-km grid]
- TERRAIN ANALYSIS AND MAPPING SERVICES LIMITED. 1983D. Eastern Saint George Batholith, heavy mineral survey: tungsten. New Brunswick Department of Natural Resources, Mineral Resources Division, Plate 83-18. [parts of NTS 21 G/01, 21 G/02, 21 G/07, 21 G/08, 21 G/09, 21 G/10; 1-km grid]
- TERRAIN ANALYSIS AND MAPPING SERVICES LIMITED. 1983E. Eastern Saint George Batholith, soil geochemical survey: lead. New Brunswick Department of Natural Resources, Mineral Resources Division, Plate 83-19. [parts of NTS 21 G/01, 21 G/02, 21 G/07, 21 G/08, 21 G/09, 21 G/10; 1-km grid]
- TERRAIN ANALYSIS AND MAPPING SERVICES LIMITED. 1983F. Eastern Saint George Batholith, soil geochemical survey: zinc New Brunswick Department of Natural Resources, Mineral Resources Division, Plate 83-20. [parts of NTS 21 G/01, 21 G/02, 21 G/07, 21 G/08, 21 G/09, 21 G/10; 1-km grid]
- TERRAIN ANALYSIS AND MAPPING SERVICES LIMITED. 1983G. Eastern Saint George Batholith, soil geochemical survey: molybdenum. New Brunswick Department of Natural Resources, Mineral Resources Division, Plate 83-21. [parts of NTS 21 G/01, 21 G/02, 21 G/07, 21 G/08, 21 G/09, 21 G/10; 1-km grid]
- TERRAIN ANALYSIS AND MAPPING SERVICES LIMITED. 1983H. Eastern Saint George Batholith, soil geochemical survey: copper. New Brunswick Department of Natural Resources, Mineral Resources Division, Plate 83-22. [parts of NTS 21 G/01, 21 G/02, 21 G/07, 21 G/08, 21 G/09, 21 G/10; 1-km grid]
- TERRAIN ANALYSIS AND MAPPING SERVICES LIMITED. 1983I. Eastern Saint George Batholith, soil geochemical survey: cobalt. New Brunswick Department of Natural Resources, Mineral Resources Division, Plate 83-23. [parts of NTS 21 G/01, 21 G/02, 21 G/07, 21 G/08, 21 G/09, 21 G/10; 1-km grid]
- TERRAIN ANALYSIS AND MAPPING SERVICES LIMITED. 1983J. Eastern Saint George Batholith, soil geochemical survey: antimony. New Brunswick Department of Natural Resources, Mineral Resources Division, Plate 83-24. [parts of NTS 21 G/01, 21 G/02, 21 G/07, 21 G/08, 21 G/09, 21 G/10; 1-km grid]
- TERRAIN ANALYSIS AND MAPPING SERVICES LIMITED. 1983K. Eastern Saint George Batholith, soil geochemical survey: uranium. New Brunswick Department of Natural Resources, Mineral Resources Division, Plate 83-25. [parts of NTS 21 G/01, 21 G/02, 21 G/07, 21 G/08, 21 G/09, 21 G/10; 1-km grid]
- TERRAIN ANALYSIS AND MAPPING SERVICES LIMITED. 1983L. Eastern Saint George Batholith, soil geochemical survey: silver. New Brunswick Department of Natural Resources, Mineral Resources Division, Plate 83-26. [parts of NTS 21 G/01, 21 G/02, 21 G/07, 21 G/08, 21 G/09, 21 G/10; 1-km grid]
- RAMPTON, V.N., GLEESON, C.F., THOMAS, R.D., and PARADIS, S. 1986. Geochemical exploration in areas of shallow till: some case histories. CIM Bulletin, 79: No. 896, pp. 67-74. [parts of NTS 21 G/01, 21 G/02, 21 G/07, 21 G/08, 21 G/09, 21 G/10]
- **THOMAS, R.D., GLEESON, C.F., RAMPTON, V.N., and RUITENBERG, A.A. 1987.** Geochemistry and geology of surficial materials overlying part of the eastern Saint George batholith, New Brunswick. New Brunswick Department of Natural Resources and Energy, Mineral Resources Division, Report of Investigation 19, 26 p. [parts of NTS 21 G/01, 21 G/02, 21 G/07, 21 G/08, 21 G/09, 21 G/10]
- PRONK, A.G. 1984. Till geochemistry of the Trousers Lake area. New Brunswick Department of Natural Resources, Mineral Resources Division, Plate 84-24. [parts of NTS 21 J/14, 21 J/15, 21 O/02, and 21 O/03]
- PRONK, A.G. 1984c. Till geochemistry anomalies of the Trousers Lake area. New Brunswick Department of Natural Resources, Mineral Resources Division, Plate 84-25.
- FYFFE, L.R., and PRONK, A.G. 1985. Bedrock and surficial geology rock and till geochemistry in the Trousers Lake area, Victoria County, New Brunswick. New Brunswick Department of Natural Resources, Mineral Resources Division, Report of Investigation No. 20, 74 p.
- PRONK, A.G. 1985. Geochemistry of humus and B-horizons, Copper (in ppm), Cape Spencer Black River area. New Brunswick Department of Natural Resources, Mineral Resources Division, Plate 85-23a. [3 km wide coastal strip of parts of NTS 21 H/04 and 21 H/05]
- PRONK, A.G. 1985. Geochemistry of humus and B-horizons, Lead (in ppm), Cape Spencer Black River area. New Brunswick Department of Natural Resources, Mineral Resources Division, Plate 85-23b. [3 km wide coastal strip of parts of NTS 21 H/04 and 21 H/05]
- PRONK, A.G. 1985. Geochemistry of humus and B-horizons, Zinc (in ppm), Cape Spencer Black River area. New Brunswick Department of Natural Resources, Mineral Resources Division, Plate 85-23c. [3 km wide coastal strip of parts of NTS 21 H/04 and 21 H/05]

- PRONK, A.G. 1985. Geochemistry of humus and B-horizons, Gold-arsenic (Au in ppb, As in ppm), Cape Spencer Black River area. New Brunswick Department of Natural Resources, Mineral Resources Division, Plate 85-23d. [3 km wide coastal strip of parts of NTS 21 H/04 and 21 H/05]
- PRONK, A.G. 1985. Geochemistry of humus and B-horizons, Silver (in ppm), Cape Spencer Black River area. New Brunswick Department of Natural Resources, Mineral Resources Division, Plate 85-23e. [3 km wide coastal strip of parts of NTS 21 H/04 and 21 H/05]
- CHISWELL, P.G. 1986. Goose Creek, till geochemistry, gold (humus and B-horizon) in ppb. New Brunswick Department of Forests, Mines and Energy; Mineral Resources Division, Plate 86-44. [part of NTS 21 H/11]
- CHISWELL, P.G. 1986. Goose Creek, till geochemistry, arsenic (B-horizon) in ppm. New Brunswick Department of Forests, Mines and Energy; Mineral Resources Division, Plate 86-45. [part of NTS 21 H/11]
- CHISWELL, P.G. 1986. Goose Creek, till geochemistry, silver (B-horizon) in ppm. New Brunswick Department of Forests, Mines and Energy; Mineral Resources Division, Plate 86-46. [part of NTS 21 H/11]
- CHISWELL, P.G. 1986. Goose Creek, till geochemistry, zinc (B-horizon) in ppm. New Brunswick Department of Forests, Mines and Energy; Mineral Resources Division, Plate 86-47. [part of NTS 21 H/11]
- CHISWELL, P.G. 1986. Goose Creek, till geochemistry, copper (B-horizon) in ppm. New Brunswick Department of Forests, Mines and Energy; Mineral Resources Division, Plate 86-48. [part of NTS 21 H/11]
- CHISWELL, P.G. 1987. Till geochemistry of the Mascarene Peninsula and northern Deer Island. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 87-12A. [part of NTS 21 G/02; 1-km grid]
- CHISWELL, P.G. 1987. Till geochemistry of southern Deer Island. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 87-12B. [part of 21 B/14,B/15; 1 km grid]
- SNOW, R.J., and COKER, W.B. 1987. Overburden geochemistry related to W-Cu-Mo mineralization at Sisson Brook, New Brunswick, Canada: an example of short- and long-distance glacial dispersal. Journal of Geochemical Exploration, 28: 353-368. [parts of NTS 21J/06 and 21J/07]
- LAMOTHE, M. 1988. Plate VII: gold abundance in silt plus clay fraction of till, Heath Steele. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 88-86. [part of NTS 21 O/08]
- PRONK, A.G., and LAMOTHE, M. 1988. Quaternary geology, till geochemistry and gold exploration in northern New Brunswick. In Prospecting in Areas of Glaciated Terrain 1988. Edited by D.R. MacDonald and K.A. Mills. The Canadian Institute of Mining and Metallurgy, p. 81-101. [NTS 21 O/09, 21 O/10, 21 P/12, and 21 P/13]
- **LAMOTHE, M. 1990.** Till geochemistry in the vicinity of the Late Devonian granites of the Hayesville area, central New Brunswick: a trenching project. Geological Survey of Canada, Open File 2217, 66 p [part of NTS 21J/10]
- MAZEROLLE, J.M. 1993. B-horizon soil-geochemical anomalies, Annidale Shannon area, New Brunswick (Sheet A). New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 93-331A. [parts of 21 H/12 and 21 H/13]
- MAZEROLLE, J.M. 1993. B-horizon soil-geochemical anomalies, Annidale Shannon area, New Brunswick (Sheet B). New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 93-331B. [part of 21 H/12]
- MAZEROLLE, J.M. 1993. B-horizon soil-geochemical anomalies, Annidale Shannon area, New Brunswick (Sheet C). New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 93-331C. [part of 21 H/12]
- MAZEROLLE, J.M. 1993. B-horizon soil-geochemical anomalies, Annidale Shannon area, New Brunswick (Sheet D). New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 93-331D. [parts of NTS 21 G/09 and 21 H/12]
- MAZEROLLE, J.M. 1993. B-horizon soil-geochemical anomalies, Annidale Shannon area, New Brunswick (Sheet E). New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 93-331E. [parts of NTS 21 G/09 and 21 H/12]
- PRONK, A.G., and PARKHILL, M.A. 1993. Till geochemistry in the vicinity of the Murray Brook deposit (NTS 21 O/9), northern New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 93-333.
- PARKHILL, M.A. 1994. Location of till and stream-sediment samples in the vicinity of the Half Mile Lake massive sulphide deposit (NTS 21 O/8), New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 93-14A.
- PARKHILL, M.A. 1994. Cu, Pb, Zn, Co and Ni values in till and stream-sediment samples in the vicinity of the Half Mile Lake massive sulphide deposit (NTS 21 O/8), New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 93-14B.
- PARKHILL, M.A. 1994. Au, Ag, As, Hg and Sb values in till and stream-sediment samples in the vicinity of the Half Mile Lake massive sulphide deposit (NTS 21 O/8), New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 93-14C.
- PARKHILL, M.A., and DOIRON, A. 1995. Quaternary geology and glacial dispersal of sulphides at the Half Mile Lake and Restigouche deposits, Bathurst Mining Camp, northern New Brunswick EXTECH-II. In Geoscience

- Research 1994. *Compiled and edited by* J.P. Langton. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Miscellaneous Report 15, p. 45-58.
- PARKHILL, M.A., PRONK, A.G., and DOIRON, A. 1995. Surficial geology and location of till samples, Restigouche deposit area (NTS 21 O/7, 8, 9, and 10), New Brunswick. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 95-1.
- PARKHILL, M.A., and DOIRON, A. 1995. Surficial geology and till geochemistry near the Captain North Extension (CNE) massive sulphide deposit, northern New Brunswick. In Current Research 1994. Compiled and edited by S.A.A. Merlini. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Miscellaneous Report 18, p. 165-203. [part of NTS 21 P/05]
- **SEAMAN, A.A. 1996.** Till stratigraphy at the Dead Creek Pb-Zn-quartz float occurrence, southwestern New Brunswick: indications for a local source. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Open File Report 96-10, 17 p. [part of NTS 21 G/13]
- PARKHILL, M.A., PRONK, A.G., and FRISKE, P.W.B. 1998. A multimedia geochemical survey in the vicinity of copper skarn occurrences in the McKenzie Gulch area (parts of NTS 21 O/10, 11, and 15), northwestern New Brunswick. In Current Research 1997. Edited by B.M.W. Carroll. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Mineral Resource Report 98-4, pp. 25-73. (also: New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Open File 98-20, 49 p.)
- **LAHTI, H. 2003.** Testing of deep penetrating geochemical technology. New Brunswick Department of Natural Resources and Energy; Minerals, Policy and Planning Division, Open File 2003-3, 106 p. [parts of NTS 21G/07 and 21 P/05]
- LAHTI, H., McCutcheon, S.R., and Parkhill, M.A. 2003. Reconnaissance and detailed QPX B-horizon soil and QPVK vegetation geochemistry in the Bathurst Mining Camp, Gloucester and Northumberland counties, New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Open File 2003-8, 112 p. [parts of NTS 21 O/08, 21 O/09, and 21 P/05]
- LAHTI, H., MCCUTCHEON, S.R., and PARKHILL, M.A. 2003. Bedrock geology and location of QPX B-horizon soil samples, southeastern Bathurst Mining Camp, Gloucester and Northumberland counties, New Brunswick. New Brunswick Department of Natural Resources and Energy; Minerals, Policy and Planning Division, Plate 2003-7A. [part of NTS 21 P/05]
- LAHTI, H., MCCUTCHEON, S.R., and PARKHILL, M.A. 2003. Multi-element QPX B-horizon soil geochemical and geophysical profiles of Transects 5000 and 6000, Bathurst Mining Camp, Gloucester and Northumberland counties, New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Plate 2003-7B. [part of NTS 21 P/05]
- CAMPBELL, H.E. 2011. Examination of glacial dispersal and use of Cold Vapor Atomic Fluorescence Spectrometry at Mount Fronsac North, New Brunswick. New Brunswick Department of Natural Resources; Lands, Minerals and Petroleum Division, Open File (CD-ROM) 2001-1, 503 p. [parts of NTS 21 O/08, 21 O/09, and 21 P/05]

REGIONAL STUDIES

- KETTLES, I.M., and WYATT, P.H. 1985. Applications of till geochemistry in southwestern New Brunswick: acid rain sensitivity and mineral exploration. *In* Current Research, Part B. Geological Survey of Canada, Paper 85-1B, p. 413-422. [parts of NTS 21 G and 21 J]
- **KETTLES, I.M., and WYATT, P.H. 1986.** Reconnaissance geochemical data for till and other surficial sediments, southwestern New Brunswick. Geological Survey of Canada, Open File 1313, 21 p. [parts of NTS 21 G and 21 J]
- *LAMOTHE, M. 1986.* Reconnaissance geochemical sampling of till, south-central Miramichi Zone, New Brunswick. *In* Current Research, Part B. Geological Survey of Canada, Paper 86-1B, p. 279-287. [part of NTS 21 J]
- **LAMOTHE, M. 1988.** Till geochemistry over the northern part of the Miramichi Zone and vicinity: a progress report. Geological Survey of Canada, Open File 1909. [parts of NTS 21 O and 21 P]
- LAMOTHE, M. 1988. Till geochemistry, northern Miramichi Zone (partial), Plate I: till sample location. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 88-80. [parts of NTS 21 O and 21 P]
- LAMOTHE, M. 1988. Till geochemistry, northern Miramichi Zone (partial), Plate II: zinc abundance in clay fraction of till. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 88-81. [parts of NTS 21 O and 21 P]
- LAMOTHE, M. 1988. Till geochemistry, northern Miramichi Zone (partial), Plate III: arsenic abundance in clay fraction of till. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 88-82. [parts of NTS 21 O and 21 P]
- LAMOTHE, M. 1988. Till geochemistry, northern Miramichi Zone (partial), Plate IV: antimony abundance in silt plus clay fraction of till. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 88-83. [parts of NTS 21 O and 21 P]

- LAMOTHE, M. 1988. Till geochemistry, northern Miramichi Zone (partial), Plate V: gold abundance in silt plus clay fraction of till. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 88-84. [parts of NTS 21 O and 21 P]
- LAMOTHE, M. 1988. Plate VI: gold abundance in silt plus clay fraction of till, Bathurst Pointe-Verte. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 88-85. [parts of NTS 21 P/12 and 21 P/13]
- **LAMOTHE, M. 1988.** Till geochemistry over the central part of the Miramichi Zone and vicinity, New Brunswick: a progress report. Geological Survey of Canada, Open File 1967. [parts of NTS 21 J, 21 O, and 21 P]
- LAMOTHE, M. 1989. Till geochemistry, central Miramichi Zone (partial), Plate I: sample locations and gold abundance, silt plus clay fraction of till. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 89-1A. [parts of NTS 21 J, 21 O, and 21 P]
- LAMOTHE, M. 1989. Till geochemistry, central Miramichi Zone (partial), Plate II: antimony abundance, silt plus clay fraction of till. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 89-1B. [parts of NTS 21 J, 21 O, and 21 P]
- LAMOTHE, M. 1989. Till geochemistry, central Miramichi Zone (partial), Plate III: zinc abundance, clay fraction of till. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 89-1C. [parts of NTS 21 J, 21 O, and 21 P]
- LAMOTHE, M. 1989. Till geochemistry, central Miramichi Zone (partial), Plate IV: arsenic abundance, clay fraction of till. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 89-1D. [parts of NTS 21 J, 21 O, and 21 P]
- LAMOTHE, M. 1989. Till geochemistry, central Miramichi Zone (partial), Plate V: tin abundance, clay fraction of till. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 89-1E. [parts of NTS 21 J, 21 O, and 21 P]
- LAMOTHE, M. 1989. Till geochemistry, central Miramichi Zone (partial), Plate VI: uranium abundance, clay fraction of till. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Plate 89-1F. [parts of NTS 21 J, 21 O, and 21 P]
- **LAMOTHE, M. 1990.** Overburden drilling program in the Saint John valley and the Baie des Chaleurs coastal area of northern New Brunswick: till geochemistry and borehole logs. Geological Survey of Canada, Open File 2149, 84 p. [parts of NTS 21 G, 21 J, 21 N, 21 O, and 21 P]
- **LAMOTHE, M. 1990.** Till geochemistry over the northern Miramichi Zone and vicinity, New Brunswick. Geological Survey of Canada, Open File 2236, 88 p. [parts of NTS 21 O and 21 P]
- **LAMOTHE, M. 1990.** Till geochemistry over the central Miramichi Zone and vicinity, New Brunswick. Geological Survey of Canada, Open File 2237, 106 p. [parts of NTS 21 J, 21 O, and 21 P]
- **LAMOTHE, M. 1990.** Till geochemistry over the southern Miramichi Zone and vicinity, New Brunswick. Geological Survey of Canada, Open File 2238, 62 p. [parts of NTS 21 G and 21 J]
- **LAMOTHE, M. 1992.** Pleistocene stratigraphy and till geochemistry of the Miramichi Zone, New Brunswick. Geological Survey of Canada, Bulletin 433, 58 p. [parts of NTS 21 G, 21 J, 21 O, and 21 P]
- PRONK, A.G., and PARKHILL, M.A. 1991. Location of till and soil samples in north-central New Brunswick (N.T.S. 21 O/9, 10 and 15 and parts of 22 B/1 and 2). New Brunswick Department of Natural Resources and Energy, Mineral Resources Division, Plate 91-25C.
- PARKHILL, M.A. 1994. Surficial geology and till geochemistry in northern New Brunswick: summary of projects and current database. In Current Research 1993. Compiled and edited by S.A.A. Merlini. New Brunswick Department of Natural Resources and Energy, Minerals and Energy Division, Miscellaneous Report 12, p. 129-146. [parts of NTS 21 J, 21 O, and 21 P]
- ALLARD, S. 2004. Levelling methods for regional till geochemistry data from southwestern New Brunswick. In Geological Investigations in New Brunswick for 2003. Edited by G.L. Martin. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Mineral Resource Report 2004-4, p. 1-20.
- ALLARD, S., SEAMAN, A.A., PRONK, A.G., and BOLDON, G.R. 2005. Till geochemistry of southwestern New Brunswick. New Brunswick Department of Natural Resources; Minerals, Policy and Planning Division, Mineral Resource Report 2005-6, 69 p. [parts of NTS 21 G and 21 J]
- **DICKINSON, P.J., ALLARD, S., and BOLDON, G.R. 2012.** Compilation of till geochemistry survey data for southwestern New Brunswick (NTS 21 G and 21 B), Canada. New Brunswick Department of Natural Resources; Lands, Minerals and Petroleum Division, Open File (CD-ROM) 2012-1, 12 p.