REFERENCES

References

Ayling, A.M., & A.L. (1991) The effest of sediment run-off on the coral populations of fringing reefs at Cape Tribulation.*Great Barrier Reef Marine Park Authoritoy Technical Memorandom.* 26, pp36/

Babcock, R., & Davies, P. (1991) Effects of sedimentation on settlement of Acropora millepora. *Coral Reefs*, 9, 205-208.

Bak, R.P.M., & Engal, M.S. (1979) Distribution, abundance and survival of juvenile hermatypic corals and the imporatnce of life history strategies in parent coral communities. *Marine Biology.* 54, 341-352.

Belperio, A. P. (1978) An inner-shelf sedimentation model for the Townsville region, Great Barrier Reef Province. *Unpublished Ph.D. Thesis,* James Cook University of North Queensland, Townsville, Qld. 209pp.

Belperio, A.P. (1979) Negative evidence for a Mid-Holocene high sea-level along the coastal plain of the Great Barrier Reef Prvince. *Marine Geolog,*. 32, M1-M9.

Belperio, A.P. (1983) Terrigenous sedimentation in the central Great Barrier Reef Lagoon: A model from the Burdekin region. *BMR Journal of Australian Geology and Geophysic,*. 8, 179-190.

Berklemans, R. (1995) Long-term monitioring of sea temperature on the Great Barrier Reef. *Reef Research,* 5, 15-17.

Bradshaw, B.E., Healy, T.R., Campbell, C.S., Dell, P.M., & de Lange, W.P. (1994) Holocene sediment lithofacies and dispersal systems on a storm-dominated, back-arc shelf margin: the east Coromandel coast, New Zealand. *Marine Geology* ,119, 75-98.

Brodie, J. (1995) River flood plume sin the Great Barrier Reef. In Larcombe, P and Woolfe, K.J. (1995) (Editors) *Great Barrier Reef: Terrgenous Sediment Flux and Human Impacts*. CRC Reef Research Centre Research Symposium Proceedings Townsville, Australia, 110 pp

Bryce, S; Larcombe, P. & Ridd, P.V. (1995) Sediment transport in the Normanby River estuary, northern Great Barrier Reef, Australia. In Larcombe, P and Woolfe, K.J. (1995)

(Editors) *Great Barrier Reef: Terrgenous Sediment Flux and Human Impacts*. CRC Reef Research Centre Research Symposium Proceedings Townsville; Townsville, Australia, 110 pp.

Buddemeier, R.W., & Hopley, D. (1989) Turn-ons and turn-offs: causes and mechanisims of the initiation and termination of coral reef growth. In: *Proceedings Sixth International Coral Reef Symposium, Townsville, 1, pp.253-62.*

Burchette, T.P. (1981). European devonian reefs: A reveiw of current models and concepts. In: *European fossil reef models*, 318-329.

Carter, R.M., Johnson, D.P., & Hooper, K.G. (1993) Episodic post-glacial sea-level rise and the sedimentary evolution of a tropical embayment (Cleveland Bay, Great Barrier Reef shelf, Australia). *Australian Journal of Earth Science, 40, 229-255.*

Cortes, J,N, & Risk, M.J. (1985) A reef under siltation stress, Cahuita, Costa Rica. *Bulletin of Marine Science*, 36, 339-356.

Chansang, H, et al., (1992) Growth of corals under effect of sedimentation along the Northwest Coast of Phuket Island, Thailand. *Proceedings of the Seventh International Symposium, Guam,*. 1, 241-248.

Davidson, N.C. (1981) Recent sedimentology of Halifax Bay, north Qeensland: A semi-protected embayment with mixed terrigenous-carbonate input. *Unpublished Honours Thesis*, James Cook University of North Queensland.

Dodge, R.E., & Vaisnys, J.R. (1977) Coral populations and growth patterns: Responses to sedimentation and Turbidity associated with dredging. *Marine Research, 35, 715-730.*

Done, T.J. (1982) Patterns in the distribution of coral communities across the central Great Barrier Reefs. *Coral Reefs, 195-107.*

Done, T.J. (1983) Coral zonation: Its nature and significance. In: D.J. Barnes (Editor) *Perspectives on coral reefs.* Austrailian Institue of Marine Science, 95-147.

Fisk, D.A., & Harriot, V.J (1989) The effects of increased sedimentation on the recruitment and population dynamics of juvenile corals at Cape Tribulation, North Queensland. *Great Barrier Reef Marine Park Authoitory Technical memorandom* 20, 49pp.

Gagan, M.K., Chivas, A.R., & Herrczeg, A. (1990) Shelf-wide erosion, deposition, and suspended sediment transport during cyclone Winifred, central Great Barrier Reef, Australia. *Journal of Sedimentary Petrology,* 60, 456-470.

Gibbs, R.J., & Wolanski, E. (1992) The effects of flocs on optical backscattering measurements of suspended material concentration. *Marine Geology,* 107, 289-291.

Green, M.O., & Boon, J.D. (1993) The measurement of constitiuent concentrations in non-homogeneous sediment suspensions using optical back scatter sensors. *Marine Geology,* 110, 73-81.

Hayward, A.B. (1982) Coral reefs in a clastic seimentary environment: Fossil (Miocene, S.W. Turkey) and modern)Recent, Red Sea) analogues. *Coral Reefs.* 1, 109-114.

Harris, P.T., Davies, P.J. & Marshall, J.F. (1990) Late Quaternary sedimentation on the Great Barrier Reef continental shelf and slope east of Townsville, Australia. *Marine Geology,* 94, 55-77.

Heron, M.L., Harvey, N., & Hopley, D. (1979) Fourier analysis of periodic storm surges. *Australian Geographical studies,* 17, 53-63.

Hopley, D. (1982) Geomorphology of the Great Barrier Reef. In: *Quaternary development of coral reefs.*New York, John Wiley-Interscience. 453pp.

Hopley, D., & Murtha, G. G. (1975) The Quaternary deposits of the Townsville Coastal Plain. *Department of Geography., James Cook University of north Queensland Monograph Series,* 8, 30pp.

Hopley, D., & van Woesik, R. (1988) Turbidity levels levels in Nelly Bay, Magnetic Island, North Queensland, *Magnetic Quays Proposal. Report to McIntyre & Associates*, August 1988.

Hoyal, D.C.J.D. (1986) The effect of disturbed rainforest catchments on sedimentation in an area of nearshore fringing reef: Cape Tribulation, North Queensland. Unpublished honours Thesis, Department of Geography, James Cook University.

Hubbard, D.K, & Pocock, Y.P., (1972) Sediment rejection by recent scleractinian corals; a key to palaeo-environmental reconstruction. Geol Rundsch, 61:598-626.

Hubbard, D.K. (1986). Sedimentation as a control of coral ref development: St Crois, U.S.V.I. *Coral Reefs*, 5, 117-125.

Johnson, D.P., & Searle D.E. (1982.) Positive relief over buried post-glacial channels, Great Barrier Reeff, Australia. *Marine Geology,* 46, 149-159.

Johnson, D.P., & Searle, D.E. (1984). Post-glacial seismic stratigraphy, Central Great Barrier Reef, Australia. *Sedimentalogy,* 31, 515-529.

Johnson, D.P. (1985) Sedimentation between the Herbert Delta and the Palm Isles, Halifax Bay, central Great Barrier Reef. *Report to the Great Barrier Reef Marine Park Authority.*, pp.47.

Johnson, D.P. and Carter, R.M., (1987) *Sedimentary framework of mainland fringing reef development, Cape Tribulation area.*G.R.B.M.P.A. Technical Memoranum-14.

Johnson, D.P & Risk, M.J., (1987) *Fringing reef growth on a terrigenous mud foundation, Fantome Island, central Great Barrier Reef, Australia.* Sedimentology 34, 275-287.

Johnson, D.P. (1995) 1994 knowledge summary of terrigenous input to the central Great Barrier Reef. In: *Great Barrier Reef: Terrigenous sediment influx and human impacts workshop*. Pp.43-47.

Kineke, G.C., & Steinberg, R.W. (1992) Measurements of high concentartion suspended sediments using the optical backscatterance sensor. Marine Geology, 108, 253-358.

Larcombe, P., Ridd, P.V. (1993) Data Interpretation. In Benson, L.J., Goldsworthy, P.M ., Butler, I.R. and Oliver, J. Townsville Port Authority Capital Dredging Works 1993: *Environmental monitoring Program.*Townsville Port Authoity. pp 6-74.

Larcombe, P. (1995) The influence of sea-level and sediment transport on modern and Holocene growth of the Great Barrier, Australia. In: *Great Barrier Reef: Terrigenous sediment influx and human impacts workshop*. pp48-52.

Larcombe, P., Ridd, P.V., Wilson, B. and Prytz, A. (1995 a) Factors controlling suspended sediment concentrations at inner-shelf coral reefs near Townsville, Australia. *CoralReefs*.,

Larcombe, P., Carter, R.M., Dye, J., Gagan, M.K., and Johnson, D.P. (1995b) New evidence for episodic post-glacial sea-level rise, central Great Barrier Reef. *Marine Geology*.,

Larcombe,.P. (in prep.). Some Factors controlling Holocene reef growth on the Great Barrier Reef, Australia.

Lewis, D.W; and McConchie, D. (1994) Practical Sedimentology. *Chapman and Hall Publishers, New York,* p213.

Macintyre, I.G., Cortes, J., & Glynn, P.W. (1993) Anatomy of a dying reef: Punta Isolets Reef, Golfo Dulce, Costa Rica. In: *Coloquium on global aspects of coral reefs. Miami*. Pp261-266.

Mapstone, B.D; Choat, R.L. & Oxley, W.G. (1989) The fringing reefs of Magnetic Island: Benthic Biota and Sedimentation - A basline study. *Great Barrier Reef Marine Park Authoritory, Research publication* No. 13, 134 pp.

Marshall, S.M, & Orr, A.P., (1931) Sedimentation in the Low Isles reef and its relationship to coral growth. British Museum, GBR Expedition 1928-1929 *Scientific Reports*, Vol. 1, part 5, 93-1333.

Maxwell, W.G.H. (1968) Atlas of thr Great Barrier Reef. *Elsevier Publishers*, N.Y., p258.

Moss, A.J; Raymount, G.E; Reilly, N; & Best. E.K. (1992) A preliminary Assesment of Sediment and Nutrient Exports from Queens land Coastal Catchments. *Department of Environment and Heritage and Department of Primary Industries special Report??*.

Neil, D.T. (1995). Spatial and temporal variation of fluvial sediments in Rockingham Bay, North Queensland. In: *Great Barrier Reef: terrigenous sediment flux and human impacts workshop*. pp 60-66.

Neil, D.T., and Bofu Yu. (1995) Simple climate driven models for estimateing sediment input to the Great Barrier Reef Lagoon. In: *Great Barrier Reef: terrigenous sediment flux and human impacts workshop*. pp 67-71.

Okubo, C., & Woolfe, K. (1995) As mush as 90 % of the terrigenous sediment reaching the outer reef is volcanic. In: *Great Barrier Reef: terrigenous sediment flux and human impact workshop. Pp 107-110.*

Oliver, J. (1978) The climatic environment of the Townsville area. In: Hopley, D. *Geographical studies of the Townsville area, Mongraph Series, Occassional Paper*, Geography Department, James Cook University, Townsville, 2, 3-17.

Orme, G.R. and Flood, P.G. (1980) Sedimentaion in the Great Barrier Reef Province, sdjacent bays and estuaries. p 419-434. In: Henderson, R.A. and Stepenson, P.J. *The geology and geophysics of northeastern Australia.* Geaological Society of Australia., Qld Division.

Parnell, K.E. (1988) Physical process studies in the Great Barrier Reef Marine Park. *Processes in Physical Geography*., 12 (2) 209-236.

Pastorock, R.H & Bilyard, G.R. (1985) Effects of sewage pollution on coral reef communities. *Marine Ecology Progress Series*, 21, 175-189.

Pickard, G.L., Donguy, J.R., Henin, C., and Rougerie, F. (1977) A review of the physical oceanography of the Great Barrier Reef and Western Coral Sea. *Australian Institute of Marine Science Monograph Series*, 2, 1-59.

Ridd, P.V., & Larcombe, P. (1994) Biofouling control for optical bacskatter suspended sediemt sources. Marine Geology, 116, 255-258.

Ridd, P.V., Jing, L., Prytz. & Larcombe, P. (1995) Estimates of sediment transport rates in the Great Barrier Reef lagoon. In: *Great Barrier Reef: terrigenous sediment flux and human impact workshop. pp 86-88.*

Rogers, C.S., (1979) The effect of shading on coral ref structure and function. *Journal of Experimental Marine Biology and Ecology*, 41,269-288.

Rogers, C.S., (1983) *Sublethal and lethal effects of sediments applied to common carribbean reef corals in the field.* Marine Pollution Bulliten, Vol. 14, pp. 378-392.

Rogers, C.S. (1990) Responses of coral reefs and reef organisims to sedimentation. *Marine Ecology Progress series*, 62, 185-202.

Scoffin, T.P., & Garret, p. (1974) Processes in the formation and preservation of internal structure in Bermuda Patch Reefs. In: *Proceedings of the 2nd International Coral Reef Symposium, Brisbane.* Pp 413-428.

Searle, D.E., Harvey, N. & Hopley, D. (1978) Perliminary results of continuous seismic profiling in the Great Barrier Reef Province between 160 10`s and 200 05` S. *Geological Survey Queensland.* Record 1980/23 (unpublished).

Semple, R.K., Youngman, C.E. & Zeller, R.E. (1972) Economic regionalisation and information theory: an example. *Discussion Paper 28,* Department of Geography, Ohio Stae University, Columbis, 64 p.

Stafford-Smith, M.G. (1992) Mortality of the hard coral *Leptoria phryia* under persistentsediment influx. In, *Proceedings of the Seventh International Coral Reef Symposium, Guam, 1, 289-299.*

Stoddart, D.R. (1969) Ecology and morphology of recent xoral reef.*Biology Review. 44, 433-498.*

Taylor, J. (1995) Sediment input to the Great Barrier Reef lagoon via river discharge-the Barron River. In: *Great Barrier Reef: terrigenous sediment flux and human impacts workshop.*pp 92-94.

Toohey, M.F. (1994) Systems and sedimentary evolution of Halifax Bay and Rockigham bays, central Great Barrier Reef. *Unpublished Honours Thesis.* Department of Earth Sciences, James Cook University.

Tye, S. (1992) A straigraphic and geochemical study of the Holocene evolution of southern Halifax Bay, North Queensland. *Unpublished Honours Thesis,* Department of Eath Science, James Cook University, 122pp.

Veron. J.E.N. (1987) Check list of corals from the Daintree reefs. In Baldwyn cl (Editor) Fringing Reef workshop Series 9, 99-103.

Ward, I.A.K. (1990) Clay-coral, clay-water interaction-A possible indicator of dredging in Cleveland Bay. *Unpublished Gradiate Diploma Thesis,* Department of Earth Science, James Cook University, 71pp.

Ward, I.A.K. (1994) A comparison of the sediment geochemistry of modern and Holocene mangrove swamps near Townsville, North Queensland. *Unpublished Masters Thesis,* Department of Earth Science, James Cook University, 89pp.

Ward, I.A.K; Larcombe, P., & Cuff, C. (1995) Stratigraphic control of the geochemistry of Holocene inner-shelf facies, Great Barrier Reef. *Marine Geology, 129, 47-62.*

Watson, S. (1995) *The taxanomic evaluaation of Paluma Shoals, an inner-shelf coral reef, central GBR, Australia.* Unpublished report.

Wilkie, R. (1995). The Weather with Ray Wilkie. In: *Tide and Boating Saftey Guide 1995,* pp 41-53.

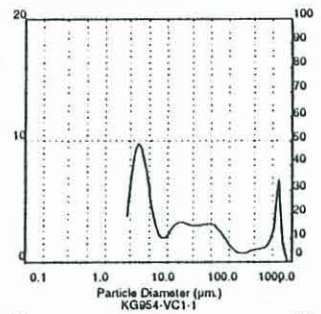
Woolfe, K.J. (1995) Textural entropy groupings from a modern lake-lagoon system and its ancient analouge. *New Zealand Journal of Geology and Geophysics, 21, 44-462.*

Woolfe, K.J, & Larcombe, P. (Submitted-Coral Reefs) Terrigenous sediment is not a regional control on the distribution of reef carbonates.

Woolfe, K. J. & Michiibayashi, K. (1995) BASIC entropy grouping of laser-derived grain size data: an example from the Great Barrier Reef. *Computers and Geosciences,* 21, 447-462.

Woolfe, K.J., Michaelsen, P., Orpin, A.R., Larcombe, P., Purdon., McIntyre, C.M. & Amjad, N. (1995) Contrasting sedimentation regimes across Cape York Peninsula. In: *Great Barrier Reef: terrigenous sediment flux and human impacts workshop* pp 100-104.

APPENDICES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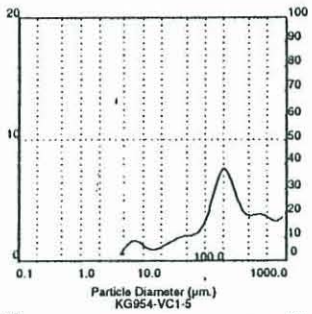
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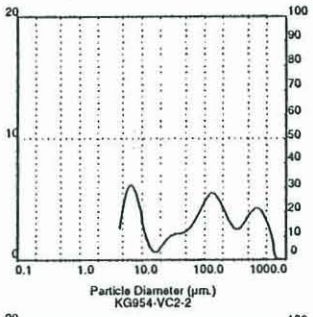
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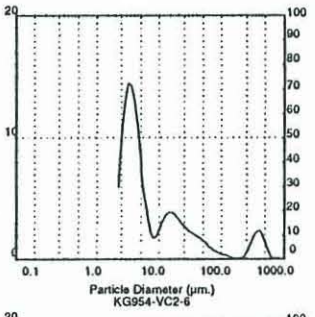
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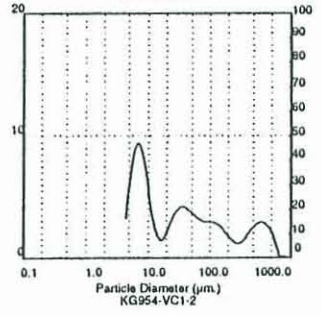
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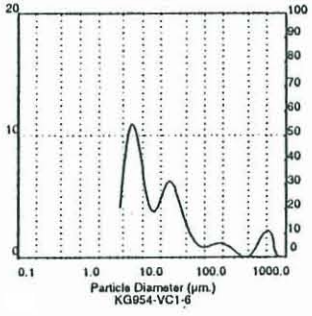
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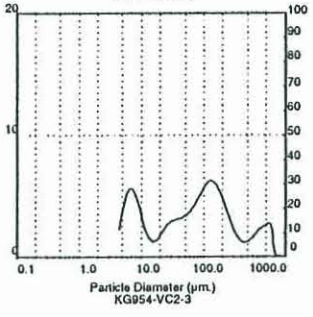
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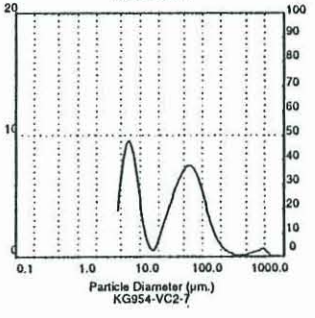
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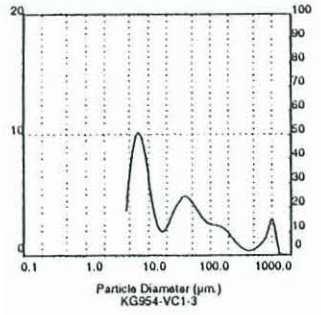
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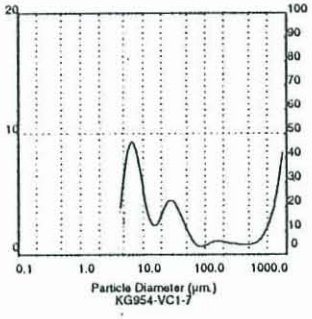
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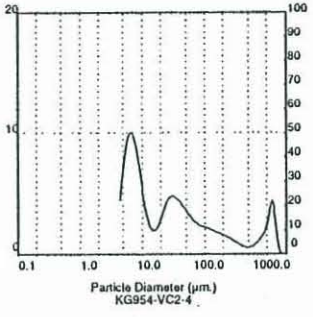
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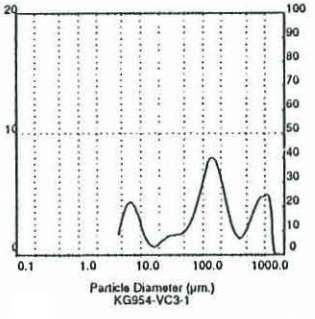
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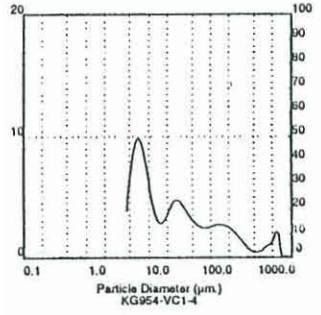
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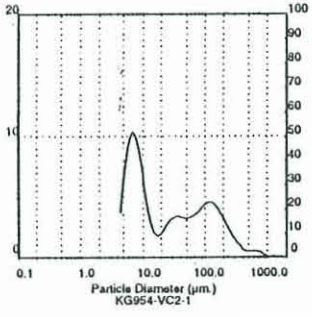
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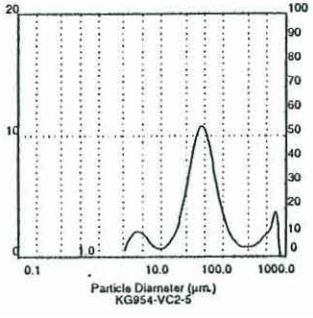
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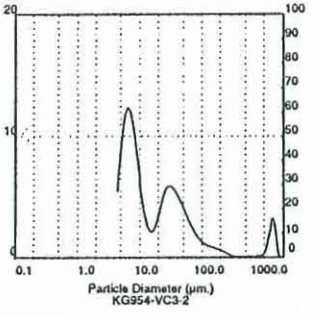
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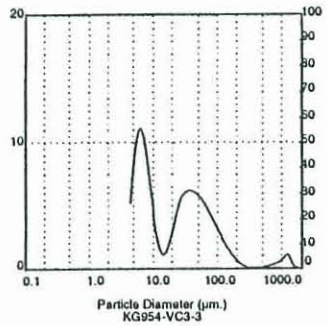
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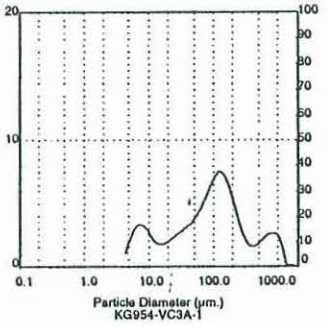
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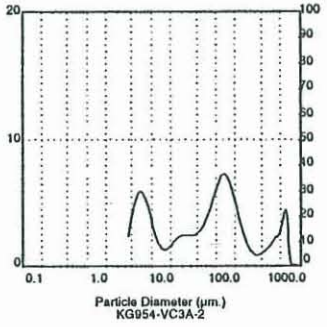
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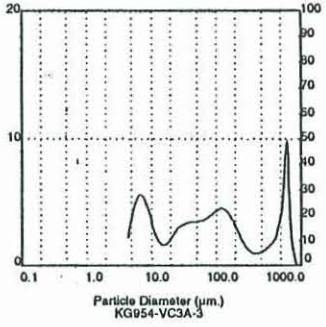
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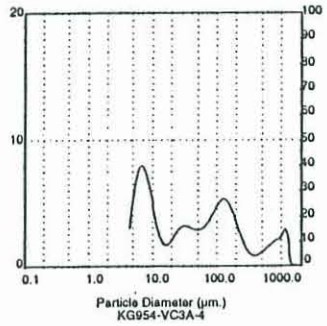
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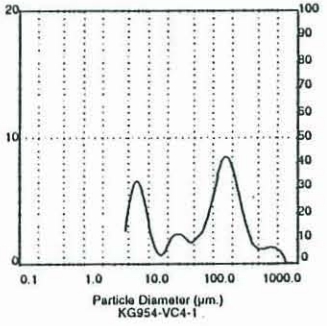
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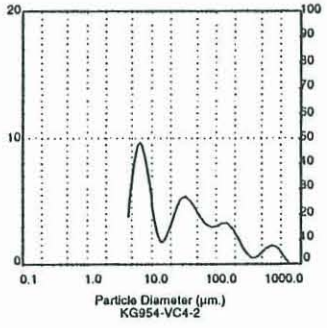
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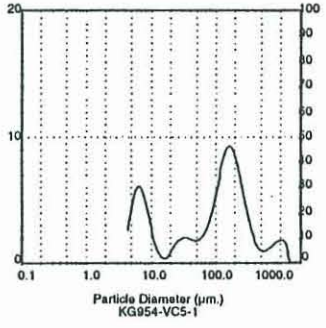
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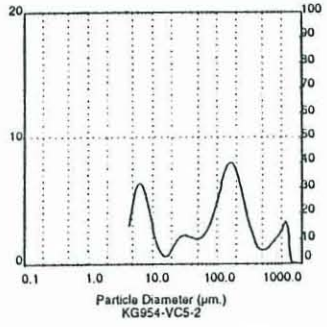
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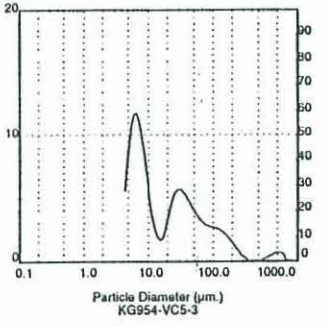
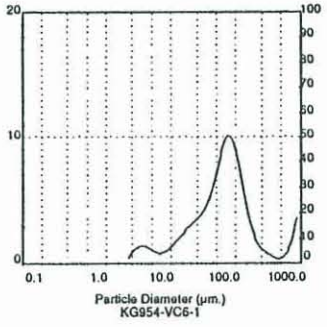
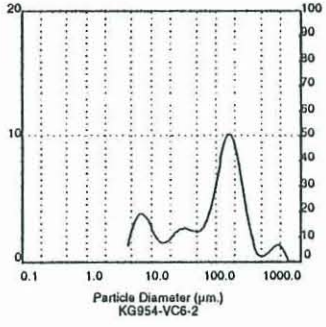
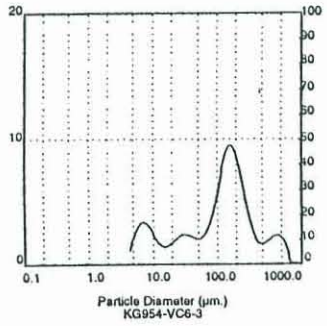
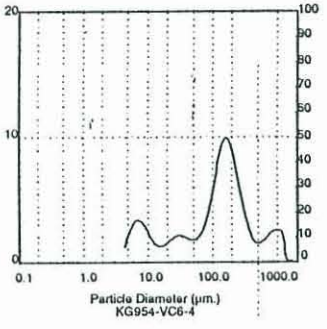
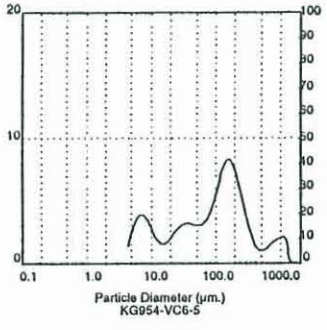

Particle Diameter (µm.)
KG954-VC5-3

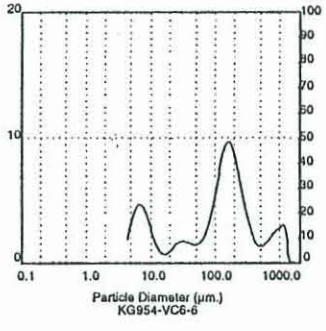

Particle Diameter (µm.)
KG954-VC6-1

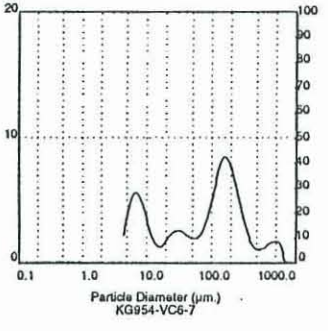

Particle Diameter (µm.)
KG954-VC6-2

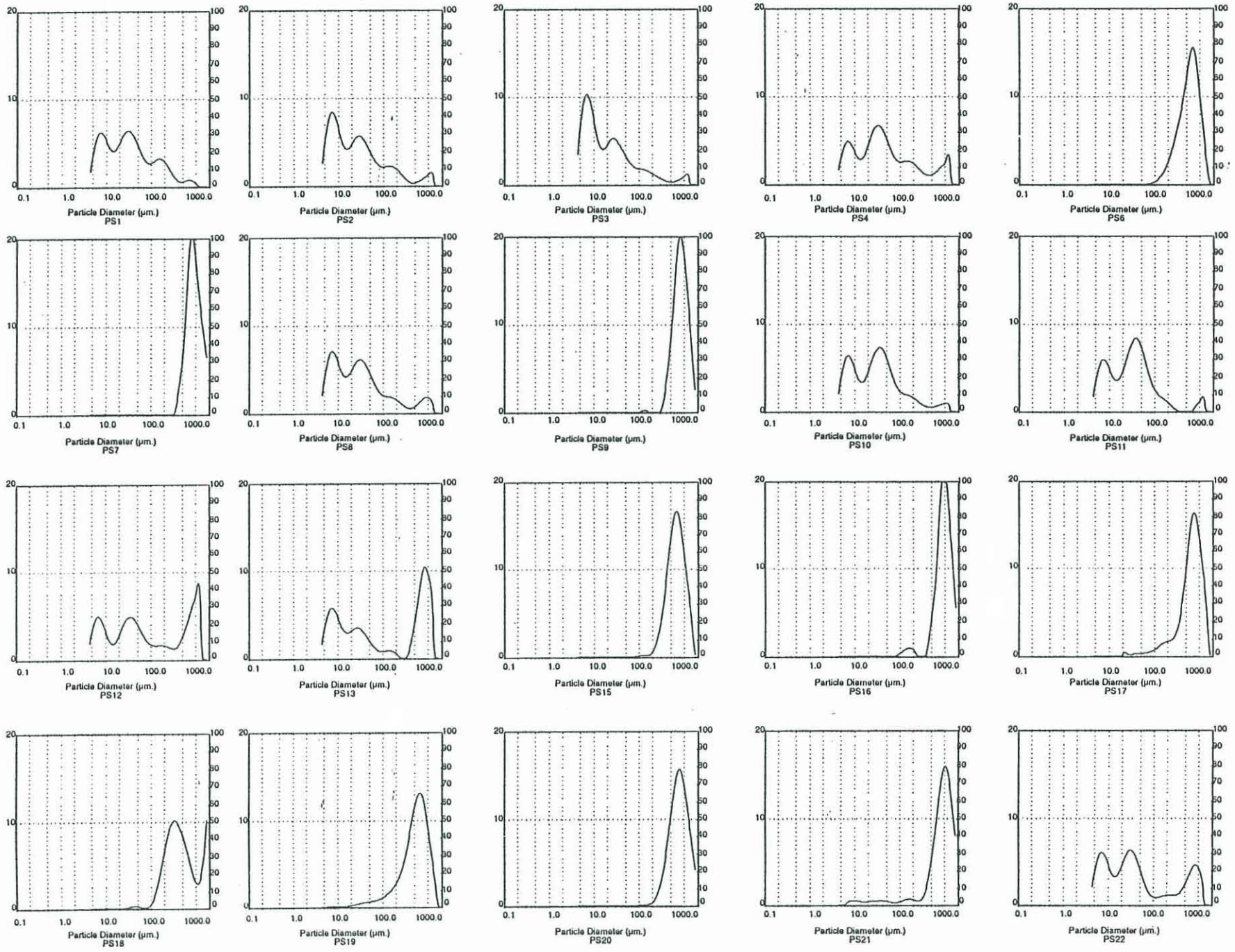

Particle Diameter (µm.)
KG954-VC6-3


Particle Diameter (µm.)
KG954-VC6-4


Particle Diameter (µm.)
KG954-VC6-5


Particle Diameter (µm.)
KG954-VC6-6


Particle Diameter (µm.)
KG954-VC6-7


Particle Diameter (µm.)
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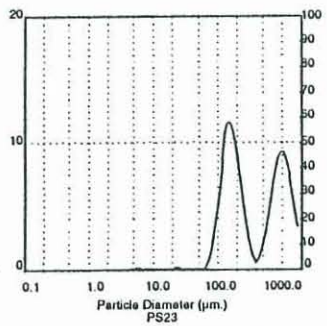
PS22



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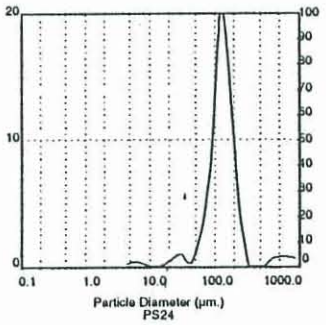

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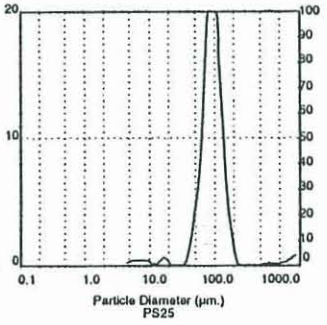

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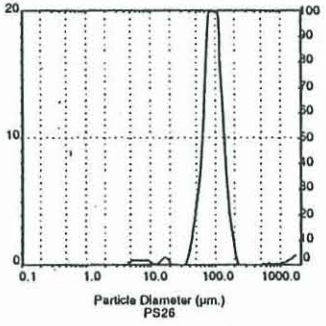

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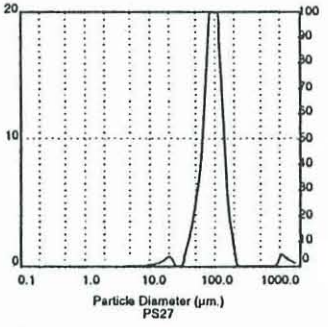

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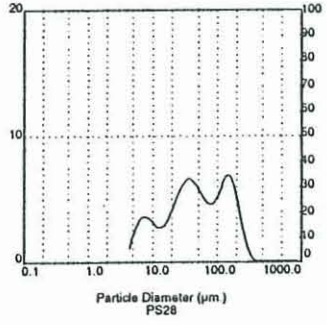

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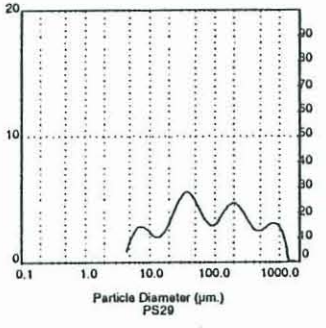

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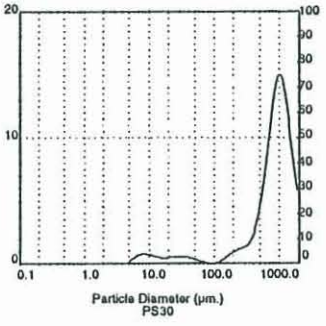

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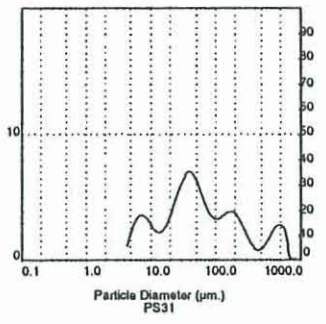

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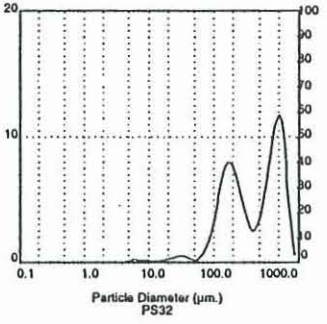

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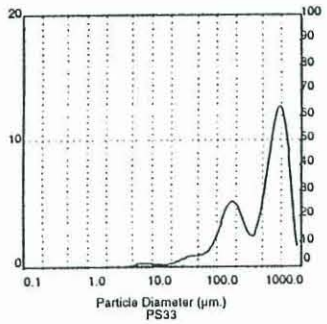

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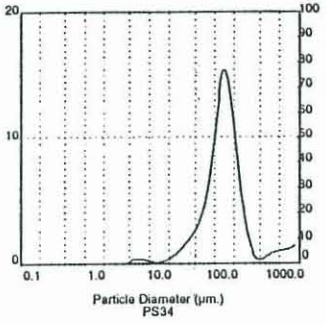

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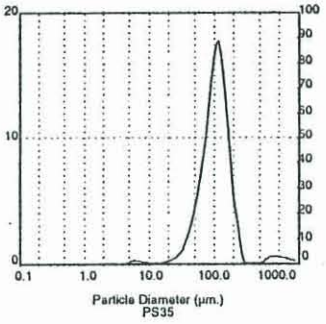

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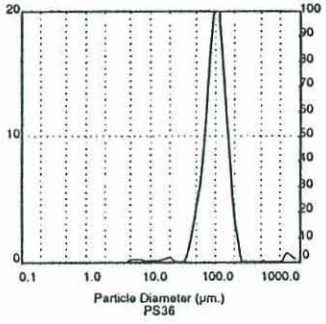

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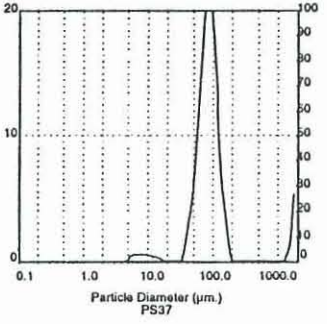

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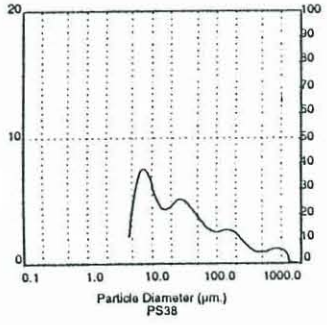

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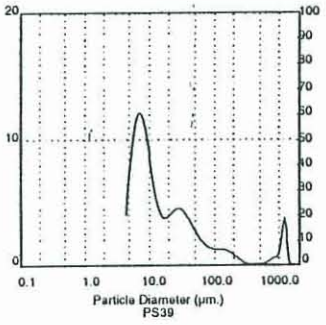

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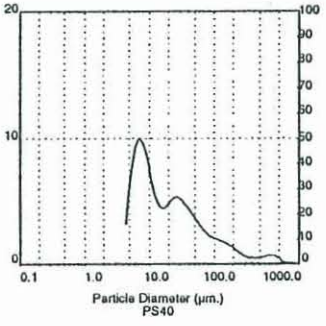

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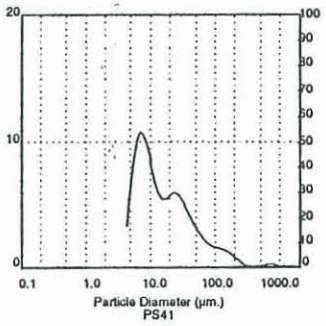

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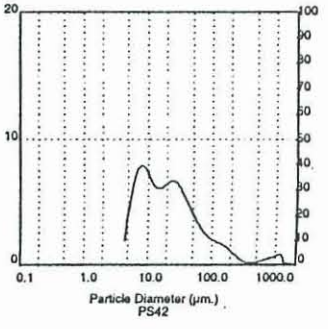
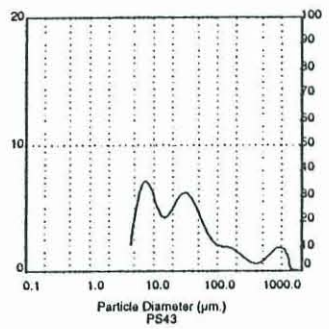


PS42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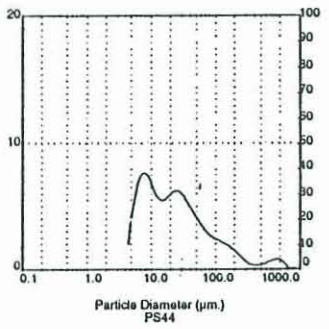
Particle Diameter (µm.)
PS43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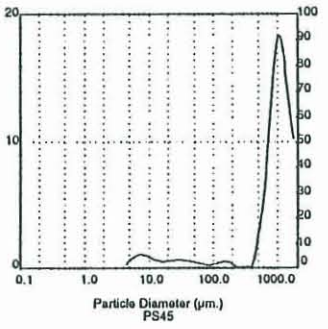
Particle Diameter (µm.)
PS44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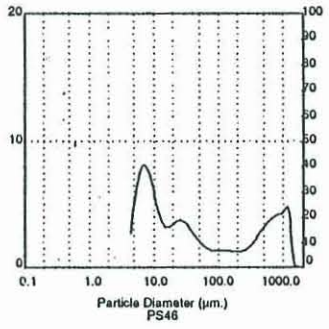
Particle Diameter (µm.)
PS45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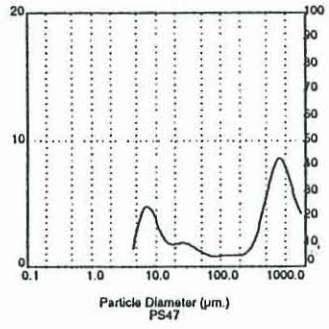
Particle Diameter (µm.)
PS46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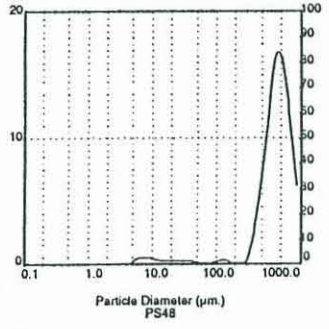
Particle Diameter (µm.)
PS47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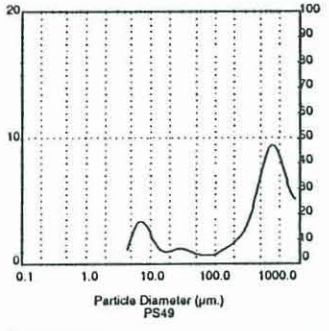
Particle Diameter (µm.)
PS48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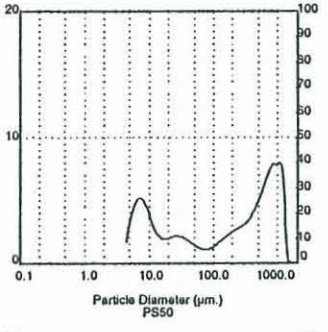
Particle Diameter (µm.)
PS49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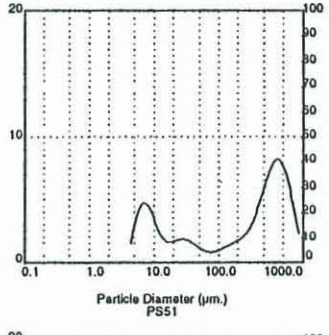
Particle Diameter (µm.)
PS50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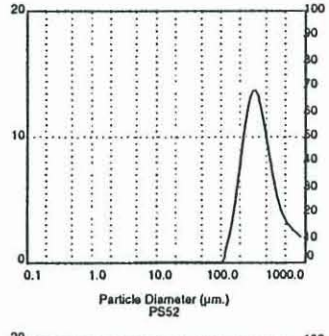
Particle Diameter (µm.)
PS51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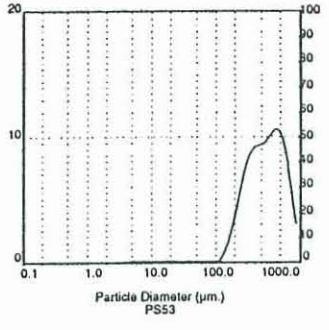
Particle Diameter (µm.)
PS52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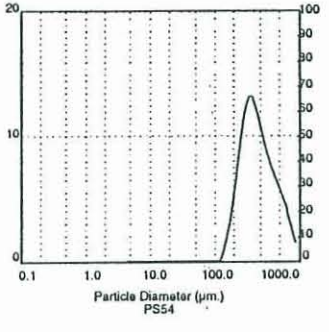
Particle Diameter (µm.)
PS53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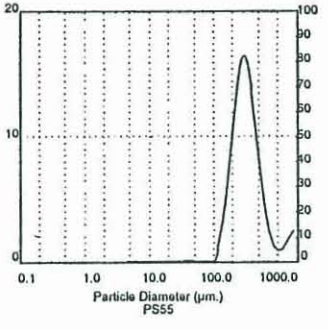
Particle Diameter (µm.)
PS54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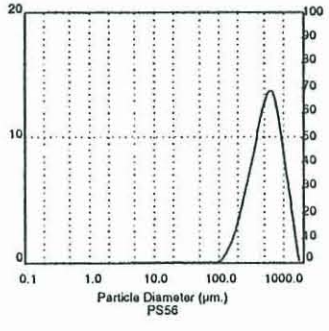
Particle Diameter (µm.)
PS55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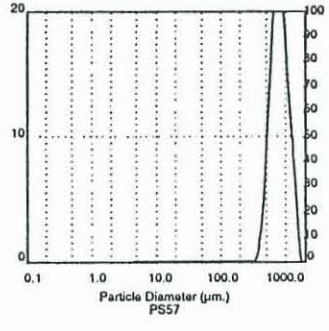
Particle Diameter (µm.)
PS56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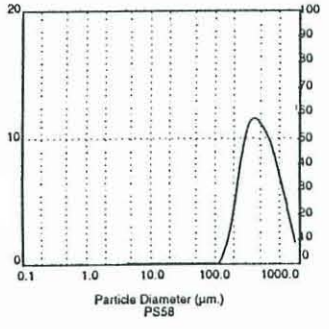
Particle Diameter (µm.)
PS57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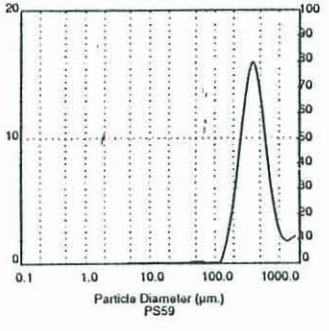
Particle Diameter (µm.)
PS58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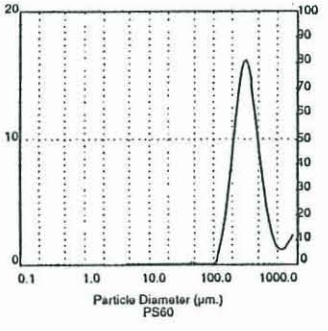
Particle Diameter (µm.)
PS59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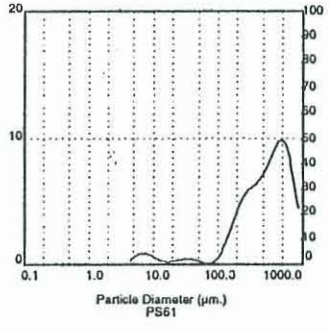
Particle Diameter (µm.)
PS60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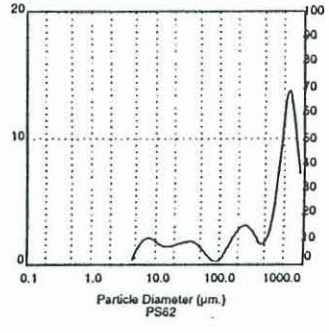
Particle Diameter (µm.)
PS61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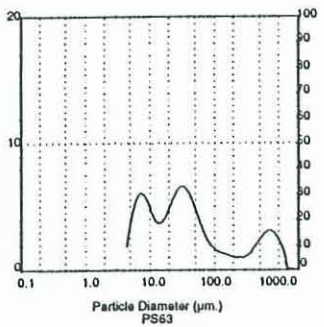
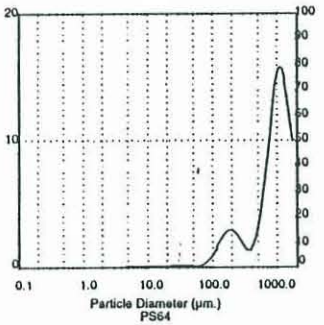
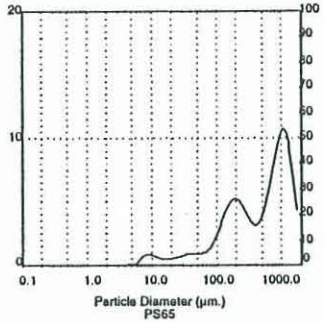
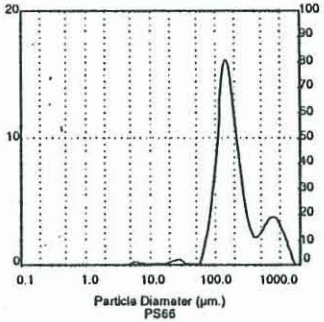
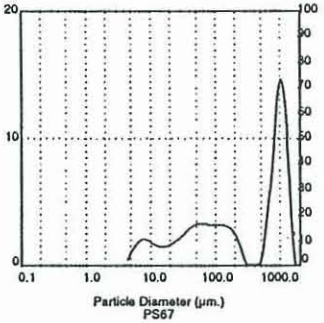
Particle Diameter (µm.)
PS62

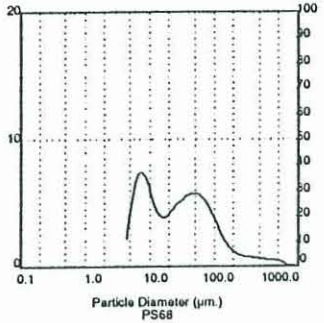

Particle Diameter (µm.)
PS63

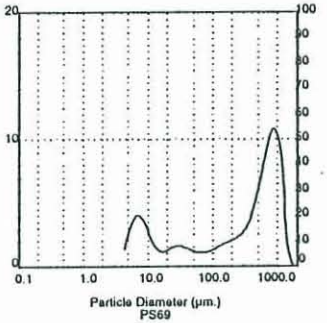

Particle Diameter (µm.)
PS64

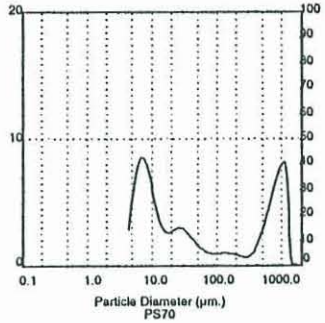

Particle Diameter (µm.)
PS65

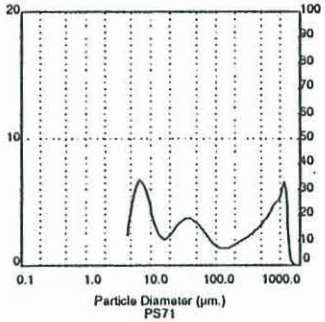

Particle Diameter (µm.)
PS66

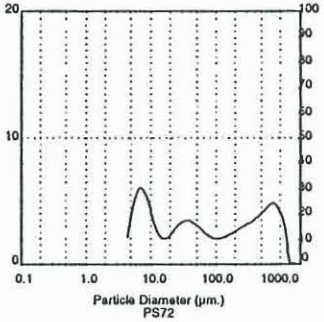

Particle Diameter (µm.)
PS67

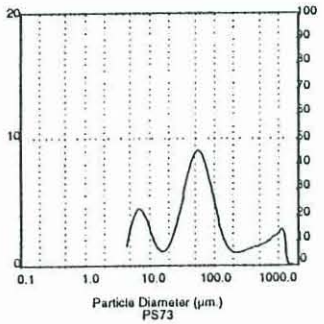

Particle Diameter (µm.)
PS68

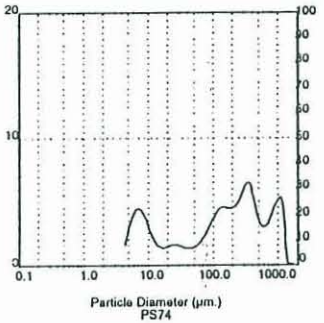

Particle Diameter (µm.)
PS69

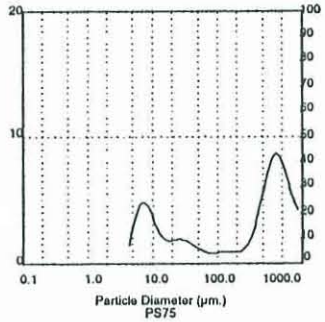

Particle Diameter (µm.)
PS70

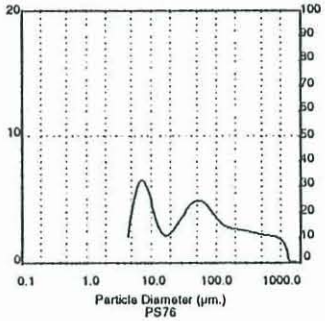

Particle Diameter (µm.)
PS71

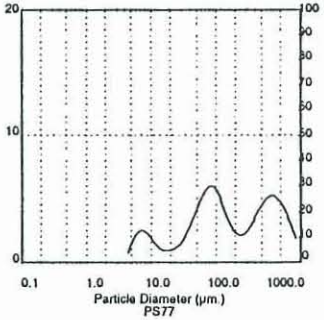

Particle Diameter (µm.)
PS72

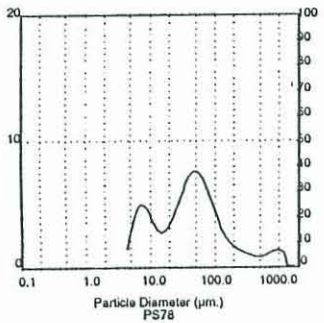

Particle Diameter (µm.)
PS73

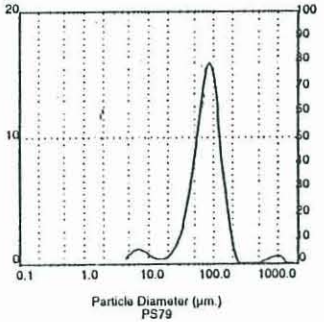

Particle Diameter (µm.)
PS74

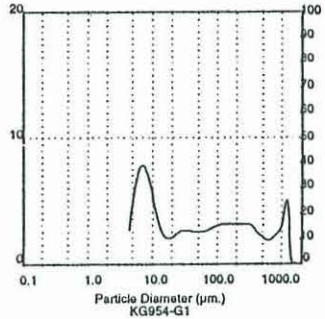

Particle Diameter (µm.)
PS75

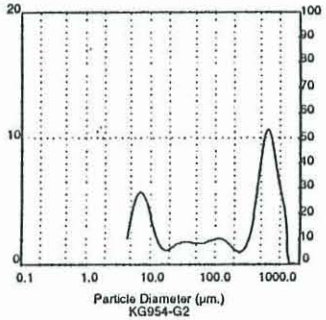

Particle Diameter (µm.)
PS76

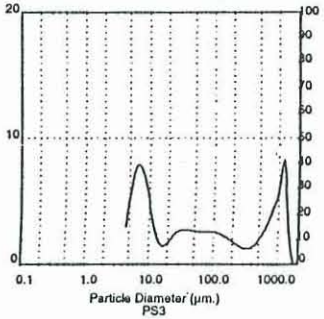

Particle Diameter (µm.)
PS77

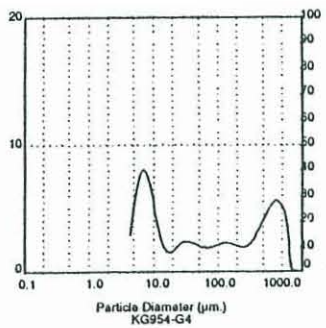

Particle Diameter (µm.)
PS78

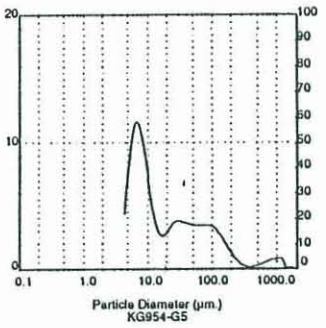

Particle Diameter (µm.)
PS79

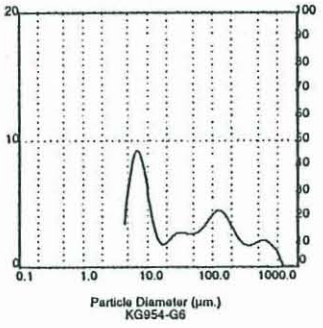

Particle Diameter (µm.)
KG954-G1

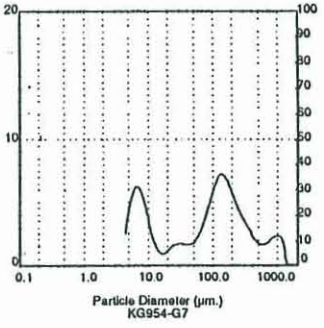

Particle Diameter (µm.)
KG954-G2

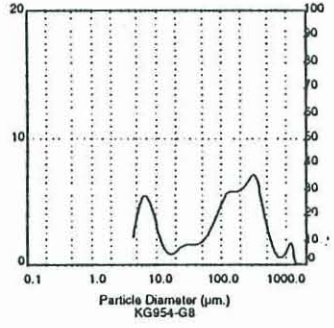

Particle Diameter (µm.)
PS3

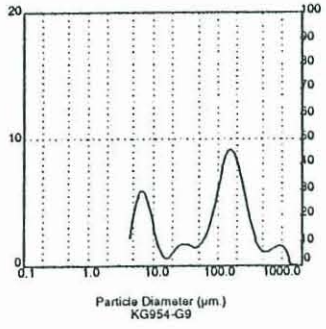

Particle Diameter (µm.)
KG954-G4

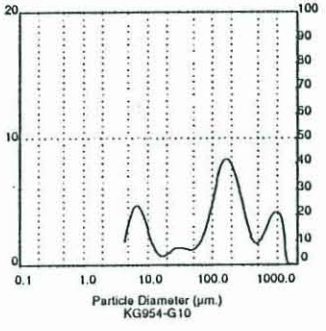

Particle Diameter (µm.)
KG954-G5

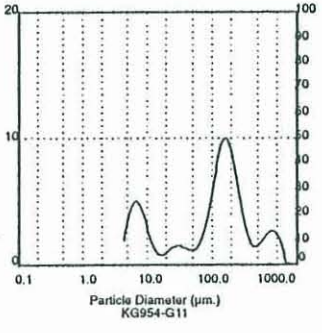

Particle Diameter (µm.)
KG954-G6

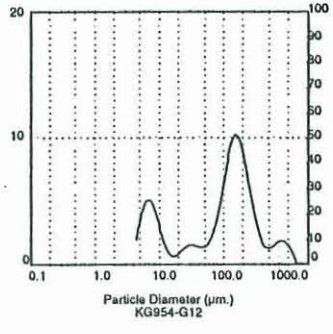

Particle Diameter (µm.)
KG954-G7

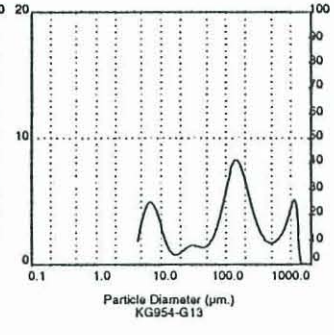

Particle Diameter (µm.)
KG954-G8

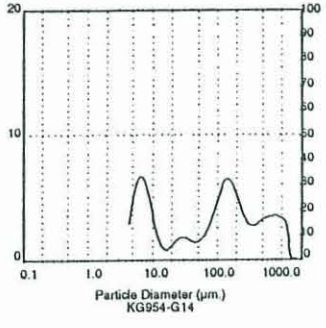

Particle Diameter (µm.)
KG954-G9

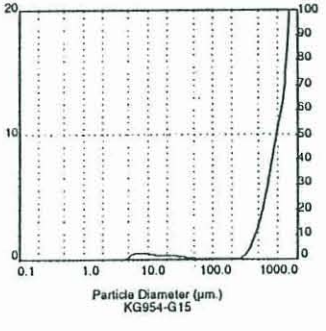

Particle Diameter (µm.)
KG954-G10

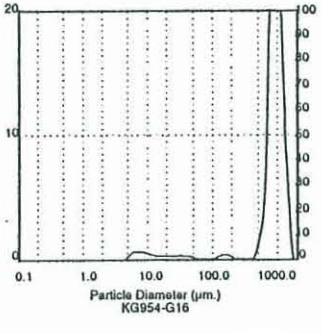

Particle Diameter (µm.)
KG954-G11

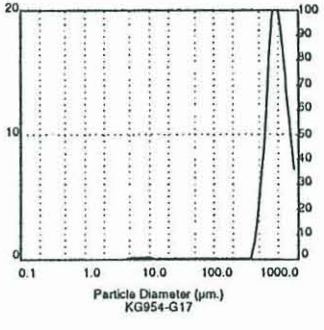

Particle Diameter (µm.)
KG954-G12

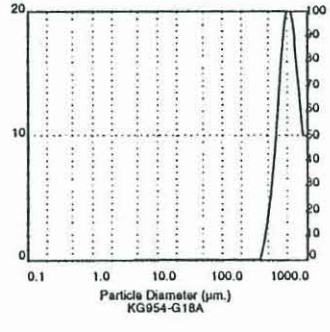

Particle Diameter (µm.)
KG954-G13

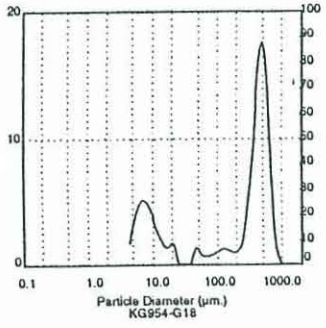

Particle Diameter (µm.)
KG954-G14

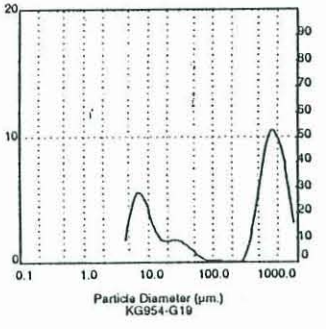

Particle Diameter (µm.)
KG954-G15

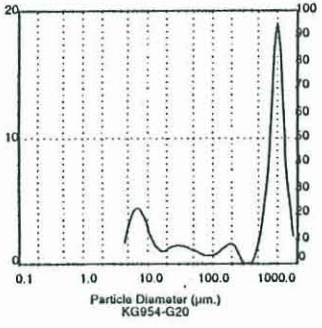

Particle Diameter (µm.)
KG954-G16

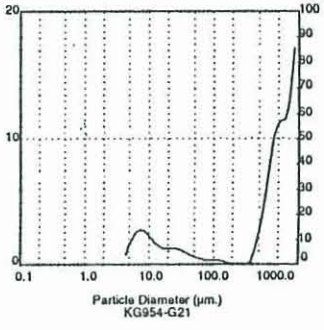

Particle Diameter (µm.)
KG954-G17

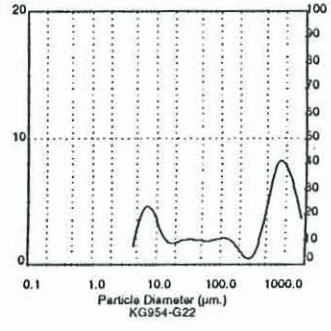

Particle Diameter (µm.)
KG954-G18A

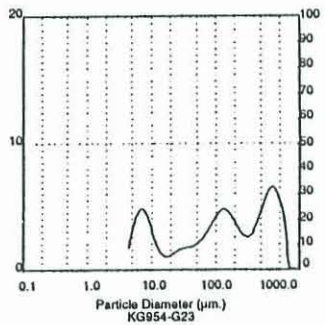

Particle Diameter (µm.)
KG954-G18

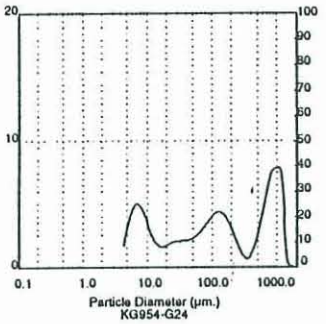

Particle Diameter (µm.)
KG954-G19

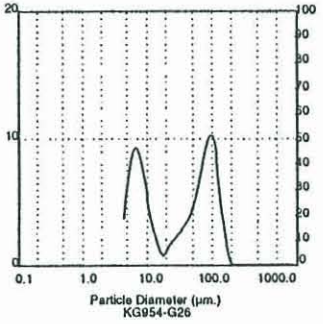

Particle Diameter (µm.)
KG954-G20

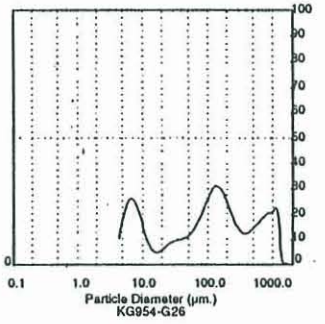

Particle Diameter (µm.)
KG954-G21

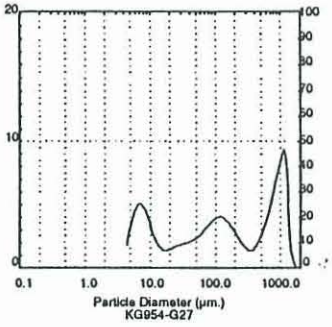

Particle Diameter (µm.)
KG954-G22

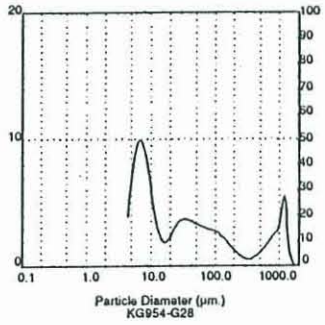

Particle Diameter (µm.)
KG954-G23

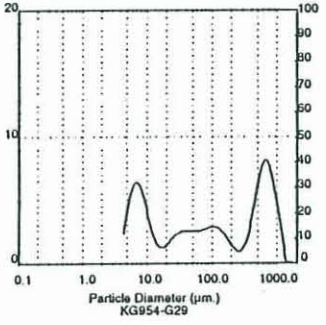

Particle Diameter (µm.)
KG954-G24

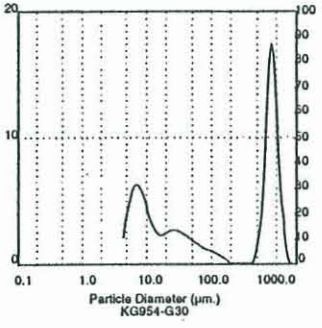

Particle Diameter (µm.)
KG954-G26

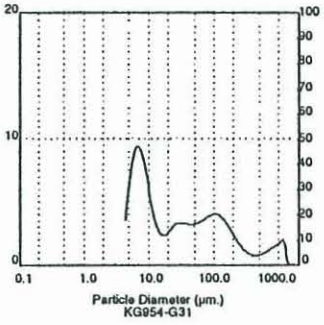

Particle Diameter (µm.)
KG954-G26

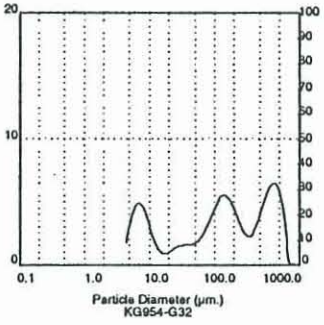

Particle Diameter (µm.)
KG954-G27

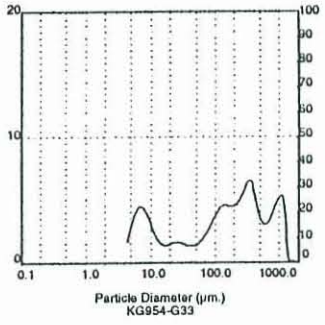

Particle Diameter (µm.)
KG954-G28

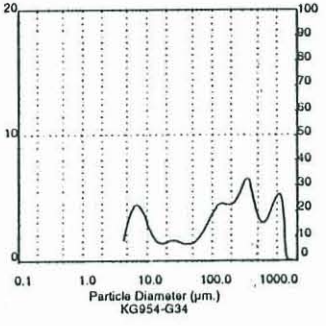

Particle Diameter (µm.)
KG954-G29

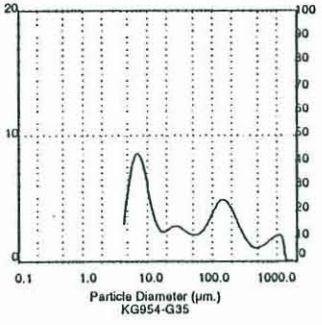

Particle Diameter (µm.)
KG954-G30

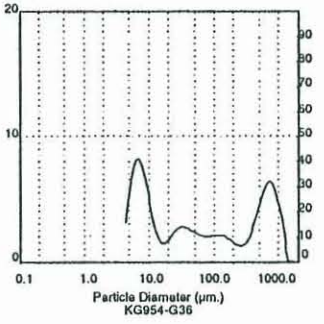

Particle Diameter (µm.)
KG954-G31

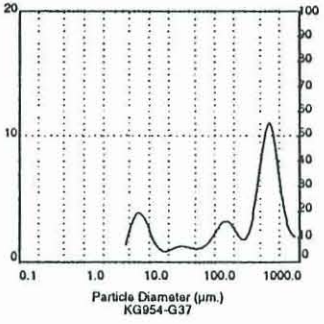

Particle Diameter (µm.)
KG954-G32

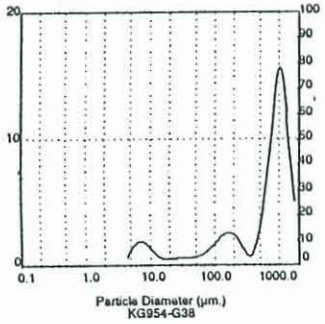

Particle Diameter (µm.)
KG954-G33

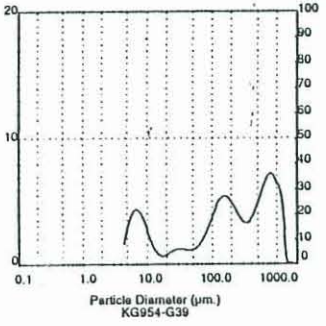

Particle Diameter (µm.)
KG954-G34

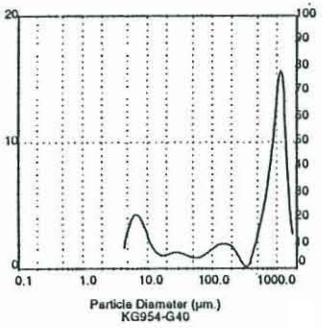

Particle Diameter (µm.)
KG954-G35

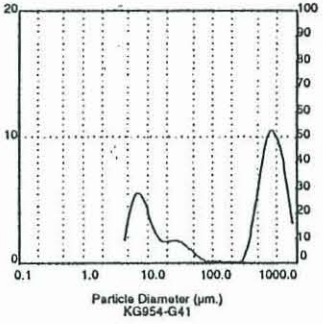

Particle Diameter (µm.)
KG954-G36

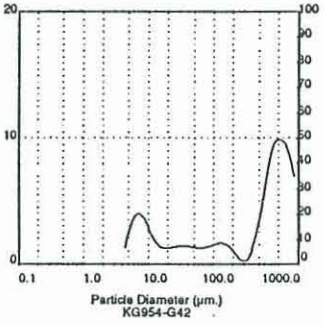

Particle Diameter (µm.)
KG954-G37

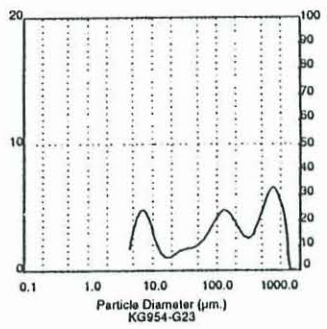

Particle Diameter (µm.)
KG954-G38

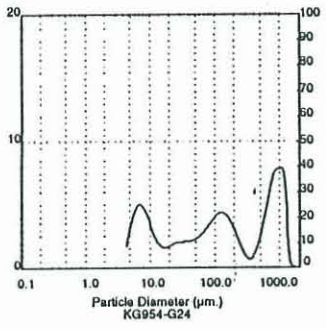

Particle Diameter (µm.)
KG954-G39

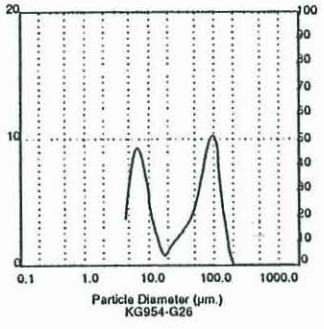

Particle Diameter (µm.)
KG954-G40

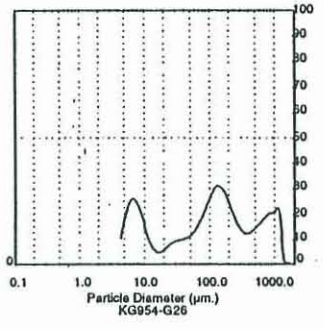

Particle Diameter (µm.)
KG954-G41

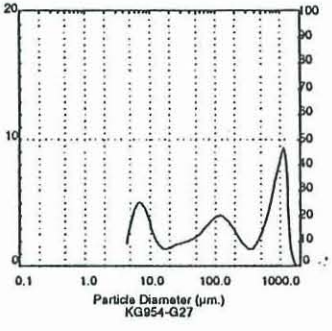

Particle Diameter (µm.)
KG954-G42

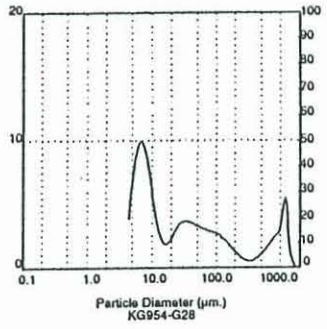

Particle Diameter (µm.)
KG954-G23

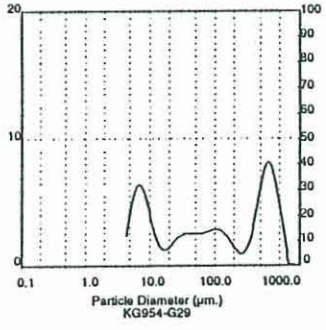

Particle Diameter (µm.)
KG954-G24

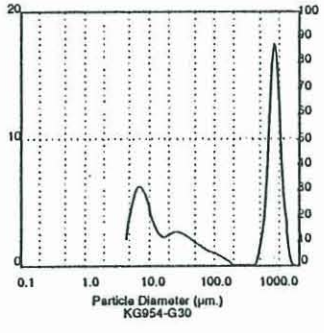

Particle Diameter (µm.)
KG954-G26

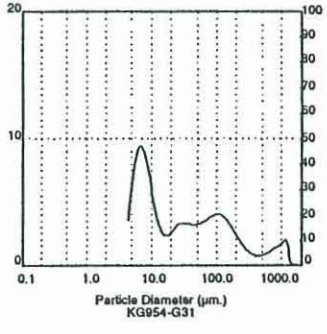

Particle Diameter (µm.)
KG954-G26

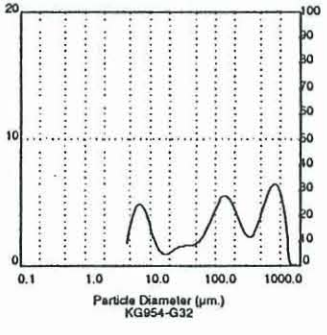

Particle Diameter (µm.)
KG954-G27

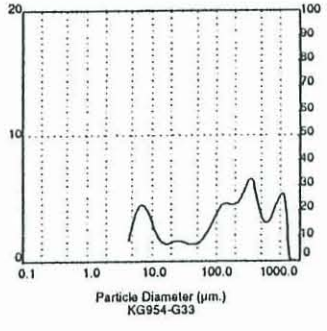

Particle Diameter (µm.)
KG954-G28

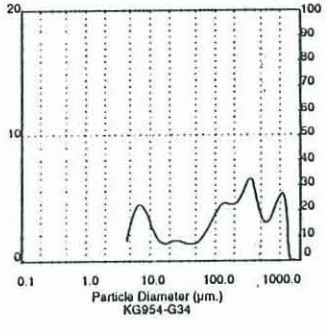

Particle Diameter (µm.)
KG954-G29

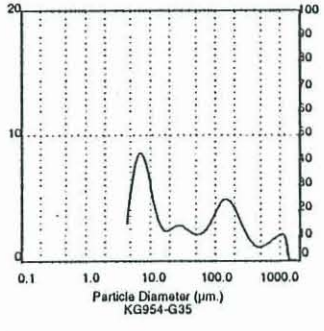

Particle Diameter (µm.)
KG954-G30

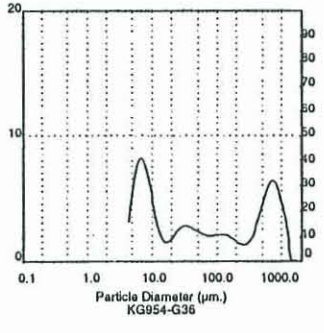

Particle Diameter (µm.)
KG954-G31

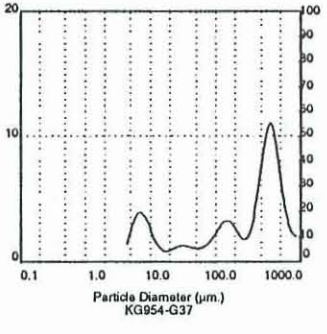

Particle Diameter (µm.)
KG954-G32

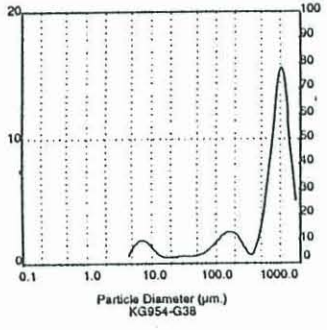

Particle Diameter (µm.)
KG954-G33

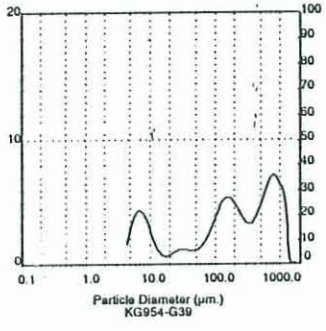

Particle Diameter (µm.)
KG954-G34

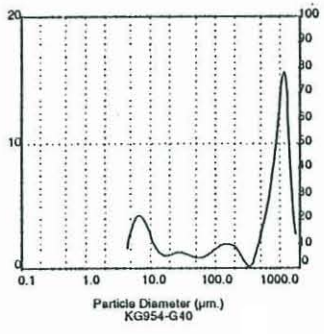

Particle Diameter (µm.)
KG954-G35

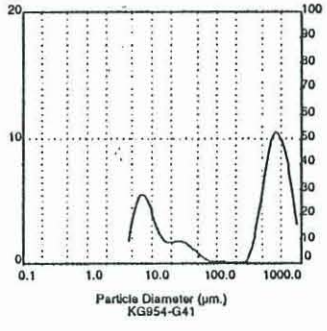

Particle Diameter (µm.)
KG954-G36

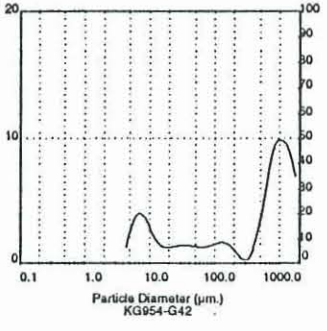

Particle Diameter (µm.)
KG954-G37

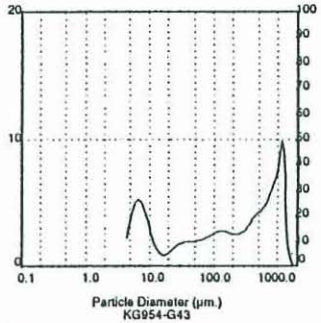

Particle Diameter (µm.)
KG954-G38

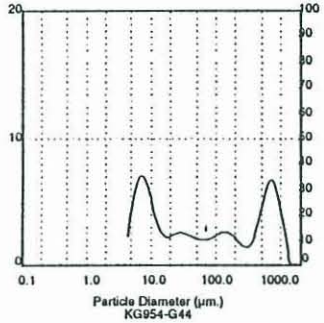

Particle Diameter (µm.)
KG954-G39

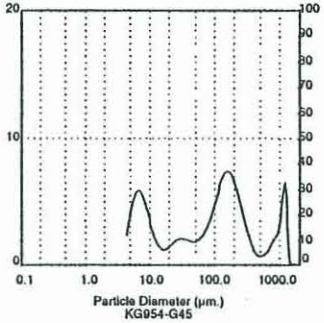

Particle Diameter (µm.)
KG954-G40

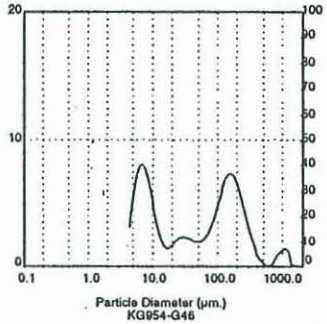

Particle Diameter (µm.)
KG954-G41

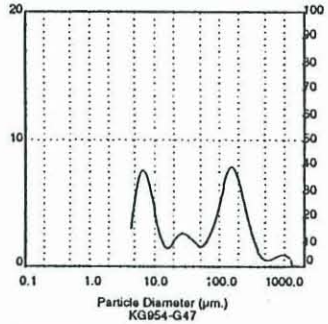

Particle Diameter (µm.)
KG954-G42

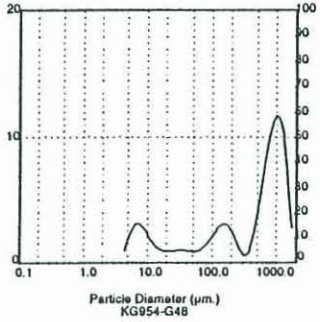

Particle Diameter (µm.)
KG954-G43

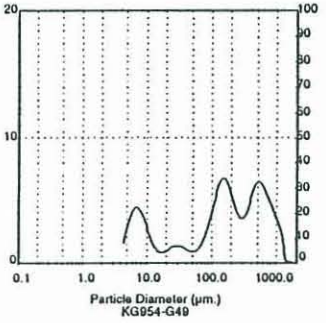

Particle Diameter (µm.)
KG954-G44

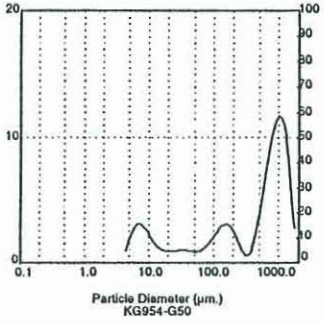

Particle Diameter (µm.)
KG954-G45

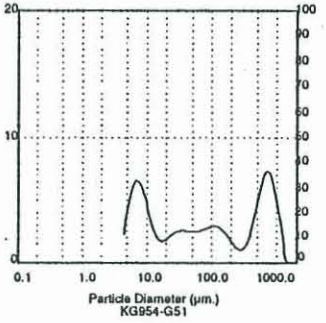

Particle Diameter (µm.)
KG954-G46

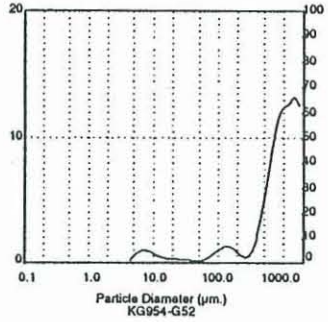

Particle Diameter (µm.)
KG954-G47

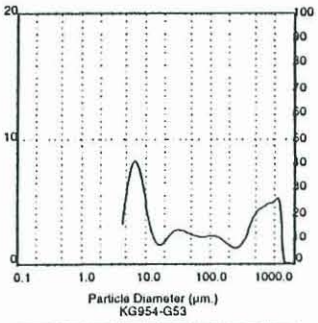

Particle Diameter (µm.)
KG954-G48

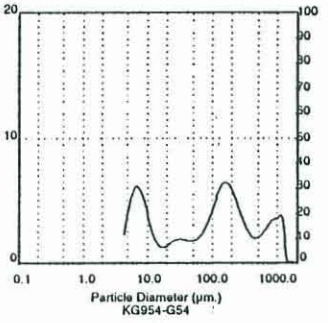

Particle Diameter (µm.)
KG954-G49

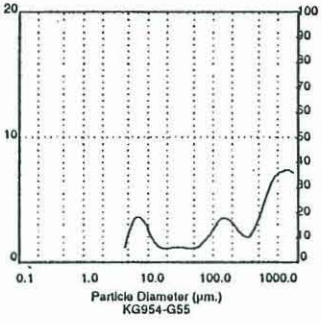

Particle Diameter (µm.)
KG954-G50

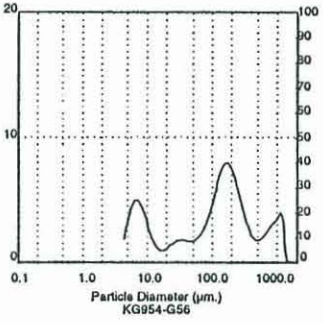

Particle Diameter (µm.)
KG954-G51

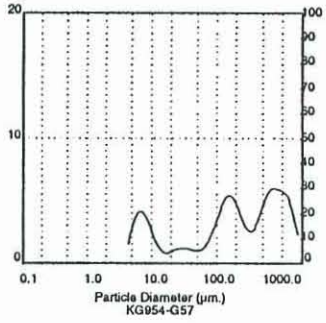

Particle Diameter (µm.)
KG954-G52

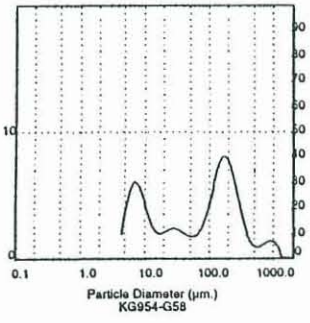

Particle Diameter (µm.)
KG954-G53


Particle Diameter (µm.)
KG954-G54


Particle Diameter (µm.)
KG954-G55


Particle Diameter (µm.)
KG954-G56


Particle Diameter (µm.)
KG954-G57


Particle Diameter (µm.)
KG954-G58

STATION #	DATE	DEPTH	SPEED	HEADING	LATITUDE	LONGITUDE	GEAR	REMARKS
KG954G-1	5.9.95	16 m	*	*	18 59.30'	146 37.04'	Cm + N + grab	Deployment at Phillips Reef
2	5.9.95	16 m	*	*	18 58.46'	146 36.66'	N + grab	Deployment at Phillips Reef
3	5.9.95	*	*	*	19 02.18'	146 34.92'	Van-Veen grab	grab sampling transect
4	5.9.95	*	*	*	19 01.80'	146 34.20'	Van-Veen grab	grab sampling transect
5	5.9.95	*	*	*	19 02.65'	146 35.03'	Van-Veen grab	grab sampling transect
6	5.9.95	*	*	*	19 03.00'	146 36.20'	Van-Veen grab	grab sampling transect
7	5.9.95	*	*	*	19 03.50'	146 37.20'	Van-Veen grab	grab sampling transect
8	5.9.95	*	*	*	19 04.00'	146 38.20'	Van-Veen grab	grab sampling transect
9	5.9.95	*	*	*	19 04.50'	146 39.20'	Van-Veen grab	grab sampling transect
10	5.9.95	*	*	*	19 05.10'	146 40.20'	Van-Veen grab	grab sampling transect
12	5.9.95	*	*	*	19 03.60'	146 40.00'	Van-Veen grab	grab sampling transect
13	5.9.95	*	*	*	19 03.00'	146 38.70'	Van-Veen grab	grab sampling transect
14	5.9.95	*	*	*	19 02.50'	146 37.70'	Van-Veen grab	grab sampling transect
15	6.9.95	4.9 m	*	*	19 05.43'	146 33.51'	Cm + N+grab	Deployment at Paluma Shoals
16	6.9.95	3.5 m	*	*	19 05.45'	146 33.28'	Van-Veen+grab	On reef in dingy
17	6.9.95	4.0 m	*	*	19 05.53'	146 33.26'	N + grab	nephelometer deployed from dingy
18a	6.9.95	6.0 m	*	*	19 05.36'	146 33.64'	Van-Veen grab	continuation of grab transcect
18b	6.9.95	5.8 m	*	S/E	19 03.20'	146 31.20'	Van-Veen grab	grab sampling transect
19	6.9.95	5.6 m	*	S/E	19 03.79'	146 32.06'	Van-Veen grab	grab sampling transect
20	6.9.95	6.4 m	*	S/E	19 04.39'	146 32.91'	Van-Veen grab	grab sampling transect
21	6.9.95	5.6 m	*	S/E	19 04.99'	146 33.79	Van-Veen grab	grab sampling transect
22	6.9.95	7.0 m	*	S/E	19 05.59'	146 34.64'	Van-Veen grab	grab sampling transect
23	6.9.95	6.8 m	*	S/E	19 06.18'	146 35.53'	Van-Veen grab	grab sampling transect
24	6.9.95	6.8 m	*	S/E	19 06.72'	146 36.27'	Van-Veen grab	grab sampling transect
25	6.9.95	6.6 m	*	S/E	19 07.20'	146 37.00'	Van-Veen grab	grab sampling transect
26	6.9.95	8.4 m	*	N/W	19 06.00'	146 26.90'	Van-Veen grab	grab sampling transect
27	6.9.95	8.8 m	*	N/W	19 04.85'	146 35.20'	Van-Veen grab	grab sampling transect
28	6.9.95	9.6 m	*	N/W	19 03.74'	146 33.58'	Van-Veen grab	grab sampling transect
29	6.9.95	9.2 m	*	N/W	19 02.60'	146 31.90'	Van-Veen grab	grab sampling transect
30	6.9.95	11.0 m	*	S/E	19 02.60'	146 33.50'	Van-Veen grab	grab sampling transect
31	6.9.95	10.8 m	*	S/E	19 03.65'	146 35.12'	Van-Veen grab	grab sampling transect
32	6.9.95	10.5 m	*	S/E	19 04.61'	146 36.59'	Van-Veen grab	grab sampling transect
33	6.9.95	10.0 m	*	S/E	19 05.70'	146 38.30'	Van-Veen grab	grab sampling transect
34	6.9.95	14.0 m	*	N	19 02.50'	146 40.60'	Van-Veen grab	grab sampling transect
35	6.9.95	16.5 m	*	N/W	19 01.60'	146 38.90'	Van-Veen grab	grab sampling transect

Appendix 3.1. *Grab sample and instrument deployment sites for leg 1cruise KG 954 (CM=current meter, N=nephelometer).*

STATION #	DATE	DEPTH	SPEED	HEADING	LATITUDE	LONGITUDE	GEAR	REMARKS
KG954G-36	6.9.95	16.0 m	*	N/W	19 01.10	146 37.80'	Van-Veen grab	continuation of grab transcect
37	6.9.95	11.5 m	*	N/W	19 01.30	146 36.40'	Van-Veen grab	grab sampling transect
38	6.9.95	13.3 m	*	N/W	19 00.70'	146 34.50'	Van-Veen grab	grab sampling transect
39	6.9.95	13.5 m	*	N/W	19 02.00'	146 34.50'	Van-Veen grab	grab sampling transect
40	6.9.95	14.0 m	*	S	19 01.20'	146 33.30'	Van-Veen grab	grab sampling transect
41	7.9.95	17.0 m	*	*	19 00.05'	146 36.90'	Van-Veen grab	grab sampling transect
42	7.9.95	17.0 m	*	*	19 00.00	146 36.00	Van-Veen grab	grab sampling transect
43	7.9.95	17.5 m	*	*	18 58.60'	146 36.00	Van-Veen grab	grab sampling transect
44	7.9.95	18.0 m	*	*	18 59.00'	146 37.95'	Van-Veen grab	grab sampling transect
45	7.9.95	18.5 m	*	*	19 00.60'	146 39.50'	Van-Veen grab	grab sampling transect
46	7.9.95	18.0 m	*	*	19 01.30'	146 40.40'	Van-Veen grab	grab sampling transect
47	7.9.95	18.5 m	*	*	19 00.70'	146 41.00'	Van-Veen grab	grab sampling transect
48	7.9.95	17.5 m	*	*	18 59.80'	146 40.10'	Van-Veen grab	grab sampling transect
49	7.9.95	17.2 m	*	*	18 58.80'	146 38.50'	Van-Veen grab	grab sampling transect
50	7.9.95	17.5 m	*	*	18 58.30'	146 37.50'	Van-Veen grab	grab sampling transect
51	7.9.95	18.5 m	*	*	18 58.00'	146 37.10'	Van-Veen grab	grab sampling transect
52	7.9.95	16.5 m	*	*	18 57.40'	146 37.60'	Van-Veen grab	grab sampling transect
53	7.9.95	20.0 m	*	*	18 57.40'	146 38.40'	Van-Veen grab	grab sampling transect
54	7.9.95	20.0 m	*	*	18 57.80'	146 39.10	Van-Veen grab	grab sampling transect
55	7.9.95	20.0 m	*	*	18 57.60'	146 39.90'	Van-Veen grab	grab sampling transect
56	7.9.95	21.0 m	*	*	18 59.00'	146 40.80'	Van-Veen grab	grab sampling transect
57	7.9.95	20.8 m	*	*	18 59.50'	146 41.70'	Van-Veen grab	grab sampling transect
58	7.9.95	18.5 m	*	*	19 00.00'	146 42.20'	Van-Veen grab	grab sampling transect

Appendix 3.1. *Grab sample and instrument deployment sites for leg 1cruise KG 954 (CM=current meter, N=nephelometer).*

A	B	C	D	E	F	G	H	I	J
Station #	Latitude	Longitude	Time	Depth (m)	Corrected (m)	Tidal elevation (m)	Tidal elevation m AHD	Bed elevation m AHD	Comments
1	146 35.41`	19 06.86`	9.20.	8.25	9.75	3.025	1.2	-7.83	Waypoint 1-start of line A
2	146 34.60`	19 06.27`	9.30.	8.1	9.6	3.025	1.2	-8.4	Heading to way point 2
3	146 34.00`	19 05.51`	9.40.	8.175	9.675	3.025	1.2	-8.5	Waypoint 2
4	146 33.48`	19 04.70`	9.50.	8.25	9.75	3.04	1.2	-7.9	Heading to way point 3
5	146 32.63`	19 04.15`	10.00.	8.625	9.765	2.985	1.8	-8.0	Heading to way point 3
6	146 32.06`	19 04.11`	10.10.	8.1	9.6	2.94	1.8	-7.8	Waypoint 3
7	146 32.44`	19 04.93`	10.20.	6	7.5	2.885	1.7	-5.8	Heading to way point 4
8	146 32.32`	19 05.41`	10.30.	6	7.5	2.82	1.6	-5.9	Anchored at Paluma Shoals
9	146 32.74`	19 05.44`	11.45	5.4	6.9	2.17	1.0	-5.9	Heading to waypoint 4
10	146 32.58`	19 05.02`	11.50.	6	7.5	2.065	0.9	-6.6	Heading to waypoint 4
11	146 32.14`	19 04.04`	12.00.	6.75	8.25	1.97	0.8	-7.5	Way point 4-Start line B
12	146 32.56`	19 03.21`	12.10.	10.125	11.625	1.885	0.7	-10.9	Heading to waypoint 5
13	146 33.44`	19 02.52`	12.20.	12	13.5	1.805	0.6	-12.9	Heading to waypoint 5
14	146 34.11`	19 01.08`	12.30.	12	13.5	1.705	0.5	-13.0	Heading to waypoint 5
15	146 35.21`	19 01.08`	12.40.	11.625	13.125	1.61	0.4	-12.7	Heading to waypoint 5
16	146 35.32`	19 00.65`	12.50.	13.5	15	1.53	0.3	-14.7	Heading to waypoint 5
17	146 36.88`	18 59.35`	13.00.	15	15.5	1.435	0.2	-15.3	Waypoint 5
18	146 36.88`	18 58.74`	13.10.	15	15.5	1.355	0.2	-15.3	Heading to waypoint 6
19	146 36.96`	18 57.95`	13.20.	14.25	15.75	1.29	0.1	-14.7	Waypoint 6
20	146 38.10`	18 57.37	13.30.	13.5	15	1.215	0.0	-15.0	Waypoint 7
21	146 39.06`	18 57.90`	13.40.	18	19.5	1.155	0.0	-19.5	Waypoint 8
22	146 39.90`	18 58.47`	13.50.	17.625	19.125	1.11	-0.1	19.2	Start line C-waypoint 9
23	146 39.71`	18 59.00`	14.00.	16.5	18	1.07	-0.1	-18.1	Heading to waypoint 10
24	146 39.11`	19 00.31`	14.10.	15.75	17.25	1.035	-0.2	-17.4	Heading to waypoint 10
25	146 38.25`	19 00.31`	14.20.	15.675	17.175	1.005	-0.2	-17.4	Waypoint 10
26	146 37.49`	19 00.91`	14.30.	14.25	15.75	0.98	-0.2	-16.0	Passing through the Rattlesnake Is Channel.
27	146 37.36`	19 01.75`	14.40.	7.5	9	0.97	-0.2	-9.2	Waypoint 11
28	146 36.42`	19 03.52`	14.50.	11.25	12.75	0.96	-0.2	-13.0	Start of line D
29	146 36.42`	19 03.25`	15.00.	11.25	12.75	0.955	-0.2	-13.0	Heading to waypoint 12
30	146 35.74`	19 04.09`	15.10.	10.125	11.625	0.965	-0.2	-11.9	Over Paleo channel
31	146 35.20`	19 04.91`	15.20.	9	10.5	0.96	-0.2	-10.7	Heading to waypoint 12
32	146 34.56`	19 05.61`	15.30.	6.75	8.25	0.97	-0.2	-8.5	Start line E-Way point12
33	146 35.68`	19 06.30`	15.40.	7.125	8.625	0.975	-0.2	-8.8	Heading to waypoint 13
34	146 36.36`	19 06.71`	15.50.	6.75	8.25	1.005	-0.2	-8.4	Start line F-waypoint 13
35	146 36.93`	19 05.89`	16.00.	8.25	9.75	1.04	-0.1	-9.9	Heading to waypoint 14
36	146 37.45`	19 05.23`	16.10.	9.75	11.25	1.085	-0.1	-11.4	Heading to way point 14
37	146 38.10	19 04.59`	16.20.	10.875	12.375	1.125	-0.1	-12.4	Heading to way point 14
38	14638.76`	19 03.99`	16.30.	12	13.5	1.185	-1.0	-14.5	Heading to way point 14
39	146 39.34`	19 03.31`	16.40.	12.75	14.25	1.245	0.1	-14.2	Heading to way point 14
40	146 39.87`	19 02.57`	16.50.	13.875	15.375	1.295	0.1	-15.3	Heading to way point 14
41	146 40.44`	19 01.89`	17.00.	15	16.5	1.375	0.2	-16.3	Heading to way point 14
42	146 41.04`	19 01.24`	17.10.	16.125	17.625	1.445	0.3	-17.4	Heading to way point 14
43	146 41.65`	19 00.60`	17.20.	16.875	18.375	1.52	0.3	-18.0	End of line F-Waypoint 14

Appendix 5.1. *Cruise report for leg-2 KG954 9/10/95.* **Footnotes:***Column E is depth to sea surface from ships sounder; F is the corrected true depth, ie +1.5 m.*

Sample number	% >2 mm	% 1-2 mm	% < 1 mm	Sample number	% >2 mm	% 1-2 mm	% < 1 mm
KG954-VC1-1	22.39	4.19	73.42	KG954-VC6-6	3.63	0.67	95.70
KG954-VC1-2	5.88	2.39	91.73	KG954-VC6-7	1.60	0.63	97.77
KG954-VC1-3	32.55	3.69	63.76	KG954-G1	11.87	8.74	79.40
KG954-VC1-4	0.00	0.00	100.00	KG954-G10	0.05	0.51	99.44
KG954-VC1-5	0.00	0.00	100.00	KG954-G12	2.84	0.21	96.95
KG954-VC1-6	0.00	0.00	100.00	KG954-G13	1.30	0.75	97.95
KG954-VC1-7	0.00	0.00	100.00	KG954-G14	1.30	0.64	98.06
KG954-VC2-1	3.68	0.42	95.90	KG954-G15	36.43	5.75	57.82
KG954-VC2-2	2.27	0.81	96.92	KG954-G16	23.75	13.13	63.12
KG954-VC2-3	0.60	0.48	98.92	KG954-G17	15.53	8.80	75.67
KG954-VC2-4	0.00	0.00	100.00	KG954-G18	7.67	10.80	81.53
KG954-VC2-5	0.00	0.27	99.73	KG954-G19	5.40	1.11	93.50
KG954-VC2-6	0.00	0.00	100.00	KG954-G2	23.36	12.92	63.72
KG954-VC2-7	0.00	0.00	100.00	KG954-G20	9.13	5.87	84.99
KG954-VC3-1	2.14	0.71	97.15	KG954-G21	30.85	12.85	56.30
KG954-VC3-2	0.00	0.00	100.00	KG954-G22	5.20	5.81	88.99
KG954-VC3-3	0.00	0.00	100.00	KG954-G23	5.50	4.90	89.90
KG954-VC3A-1	2.60	4.06	93.34	KG954-G24	3.35	1.70	94.95
KG954-VC3A-2	2.43	1.52	96.05	KG954-G25	4.14	1.56	94.30
KG954-VC3A-3	3.41	1.71	94.87	KG954-G26	4.15	0.91	94.94
KG954-VC3A-4	1.78	0.68	97.54	KG954-G27	3.80	1.40	94.80
KG954-VC4-1	1.01	0.15	98.84	KG954-G28	2.90	0.95	96.15
KG954-VC4-2	0.00	0.00	100.00	KG954-G29	4.27	3.60	92.13
KG954-VC5-1	3.29	0.42	96.30	KG954-G3	5.21	1.07	93.73
KG954-VC5-2	3.92	0.37	95.70	KG954-G30	4.12	2.66	93.21
KG954-VC5-3	17.47	0.07	82.46	KG954-G31	0.00	0.61	99.39
KG954-VC6-2	0.64	0.88	98.47	KG954-G32	5.64	0.20	94.17
KG954-VC6-3	0.67	1.32	98.00	KG954-G33	4.60	2.96	92.44
KG954-VC6-4	0.15	0.78	99.06	KG954-G34	3.10	1.50	95.40
KG954-VC6-5	1.79	0.74	97.47	KG954-G35	2.23	1.83	95.94

Appendix 6.1. *Grain size fractions for grab, hand and vibrocore samples. The less than 1 mm fration of the samples was analysed using laser grain-size diffraction.*

Sample number	% >2 mm	% 1- 2 mm	% < 1 mm	Sample number	% >2 mm	% 1- 2mm	% < 1 mm
KG954-G36	15.51	4.14	80.36	PS11	0.08	0.35	99.57
KG954-G37	8.21	2.22	89.58	PS10	1.44	1.18	97.38
KG954-G38	9.64	6.19	84.17	PS11	0.04	0.23	99.74
KG954-G39	6.32	4.34	89.34	PS12	6.25	3.45	90.31
KG954-G4	8.26	3.28	88.45	PS13	6.15	22.69	71.15
KG954-G40	6.90	1.65	91.46	PS15	0.00	1.06	98.94
KG954-G41	13.13	5.74	81.13	PS16	26.93	27.12	45.95
KG954-G42	22.85	5.75	71.40	PS17	1.78	8.41	89.81
KG954-G43	6.56	4.50	88.94	PS18	0.20	1.13	98.67
KG954-G44	22.92	4.15	72.93	PS19	0.30	3.73	95.97
KG954-G45	5.92	0.21	93.87	PS2	0.00	0.17	99.83
KG954-G46	7.80	10.98	81.21	PS20	1.75	6.43	89.74
KG954-G47	6.43	3.55	90.02	PS21	11.37	18.61	70.02
KG954-G48	5.32	1.80	92.88	PS22	19.27	5.30	75.43
KG954-G49	1.64	1.04	97.32	PS23	5.50	4.90	89.90
KG954-G5	0.43	0.66	98.90	PS24	0.00	0.13	99.87
KG954-G50	19.69	4.57	75.74	PS25	0.00	0.00	100.00
KG954-G52	1.69	3.48	94.83	PS26	0.00	0.11	99.89
KG954-G51	5.20	3.70	91.10	PS27	0.00	0.05	99.95
KG954-G53	5.16	3.64	91.20	PS29	0.00	0.53	99.47
KG954-G54	10.45	6.10	83.45	PS3	8.31	2.28	89.41
KG954-G55	5.15	4.96	89.89	PS30	17.23	16.82	65.95
KG954-G57	4.63	2.34	93.03	PS31	0.10	0.35	99.55
KG954-G56	2.29	1.23	96.48	PS32	8.78	11.96	79.26
KG954-G58	0.00	0.65	99.35	PS33	17.65	6.27	76.09
KG954-G6	2.33	0.46	97.22	PS34	0.00	0.00	100.00
KG954-G7	2.99	0.66	96.35	PS35	0.00	0.09	99.91
KG954-G8	3.56	0.29	96.15	PS36	0.00	0.00	100.00
KG954-G9	3.95	0.27	95.78	PS37	0.00	0.00	100.00
				PS38	0.00	0.00	100.00

Appendix 6.1. *Grain size fractions for grab, hand and vibrocore samples. The less than 1 mm fration of the samples was analysed using laser grain-size diffraction.*

Sample number	% >2 mm	% <1-2 mm	% < 1 mm	Sample number	% >2 mm	% <1-2 mm	% < 1 mm
PS39	0.00	0.00	100.00	PS70	8.84	5.45	85.71
PS4	4.15	5.11	90.75	PS71	6.35	3.63	90.01
PS40	0.00	0.00	100.00	PS72	2.96	1.51	95.53
PS41	0.00	0.00	100.00	PS73	1.71	0.67	97.62
PS42	0.00	0.00	100.00	PS74	16.44	5.00	78.56
PS44	0.00	0.00	100.00	PS76	0.00	0.21	99.79
PS45	27.96	17.10	54.95	PS77	1.73	1.83	96.45
PS46	12.26	13.85	73.90	PS78	2.77	1.16	96.08
PS47	30.65	12.48	56.87	PS79	0.00	0.00	100.00
PS50	4.41	6.42	89.17	PS8	0.08	0.25	99.67
PS51	3.90	4.25	91.85	PS9	0.63	11.38	88.00
PS53	0.00	0.34	99.66				
PS54	0.97	1.08	97.95				
PS55	0.00	0.00	0.00				
PS56	1.10	0.68	98.22				
PS57	0.00	1.04	98.96				
PS58	28.84	0.72	70.44				
PS59	0.00	0.00	100.00				
PS6	0.00	0.57	99.43				
PS60	0.00	0.00	100.00				
PS61	0.94	0.00	99.06				
PS62	1.34	2.52	96.14				
PS63	1.60	1.68	96.71				
PS64	0.00	18.09	81.91				
PS65	0.00	0.00	100.00				
PS66	0.00	0.43	99.57				
PS67	0.00	0.00	100.00				
PS68	0.00	0.16	99.84				
PS69	3.27	3.48	93.25				
PS7	3.63	19.41	76.96				

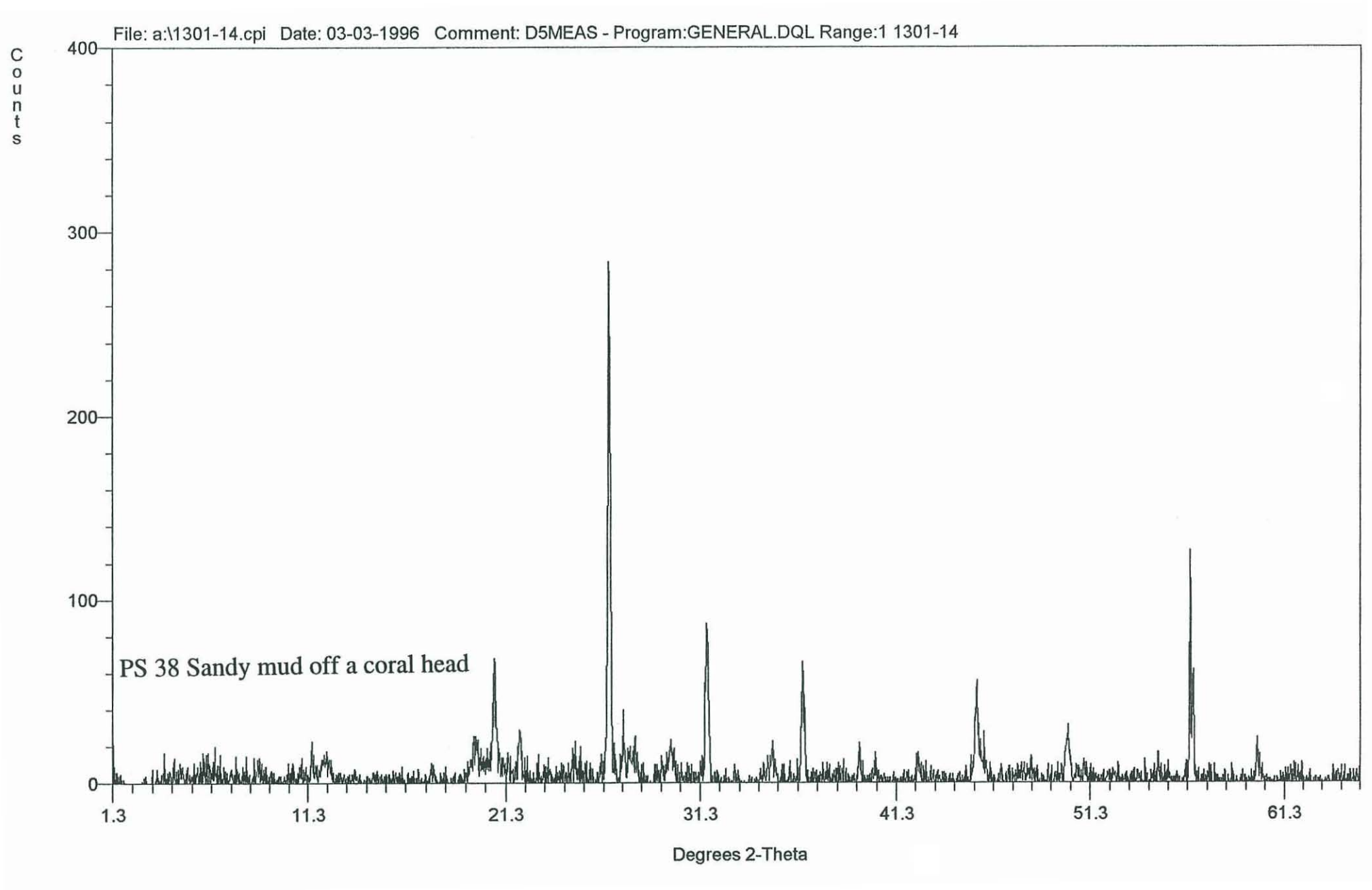
Appendix 6.1. *Grain size fractions for grab, hand and vibrocore samples. The less than 1 mm fration of the samples was analysed using laser grain-size diffraction.*

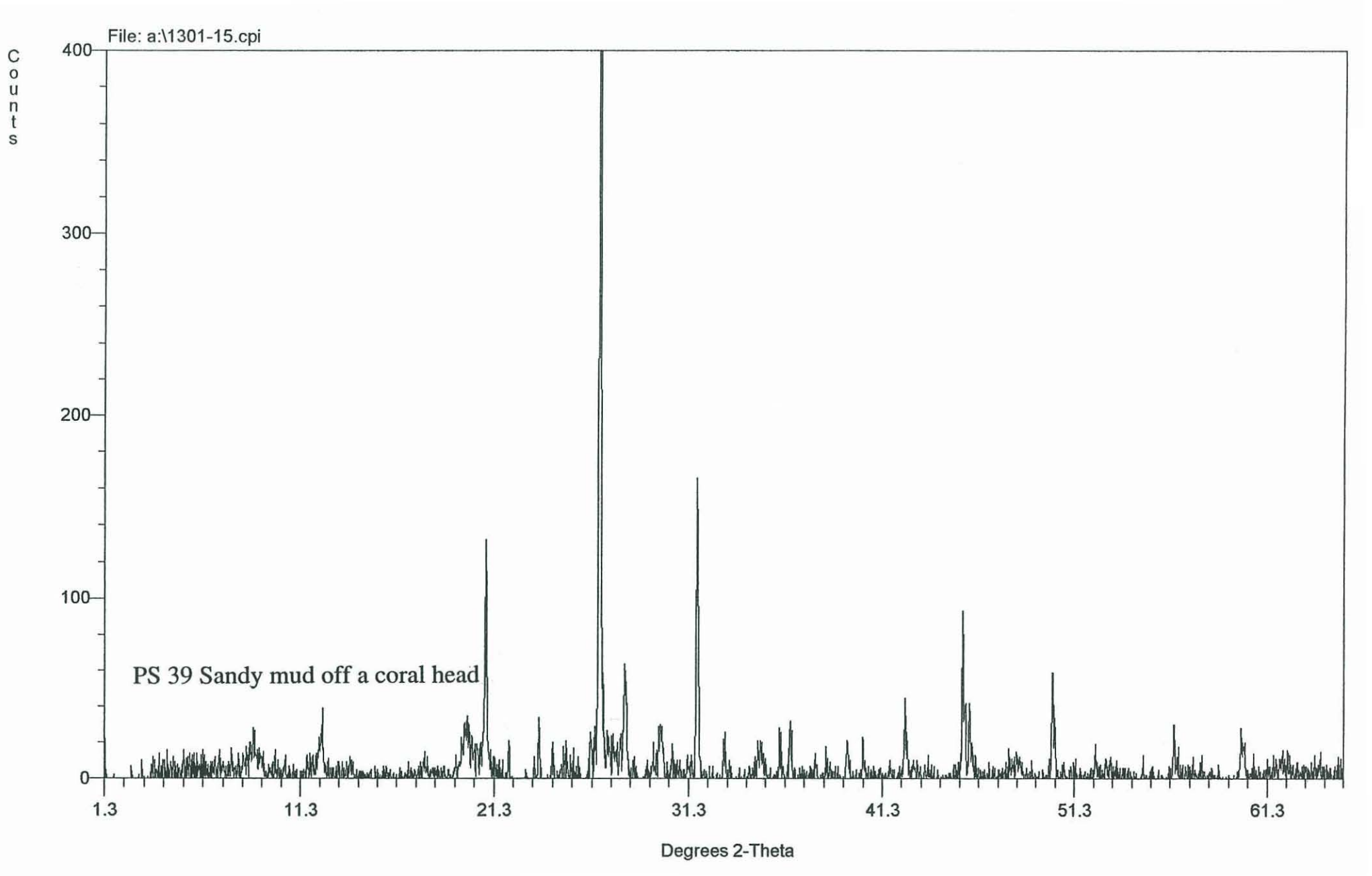
Sample #	% Carbonate	Sample #	% Carbonate	Sample #	% Carbonate
PS1	13.20	PS62	4.37	KG954-G14	35.93
PS2	8.27	PS63	6.23	15	36.54
PS3	10.02	PS64	7.84	16	39.75
PS4	3.15	PS65	25.65	17	13.18
PS6	3.77	PS66	11.57	18	13.15
PS7	2.34	PS67	24.48	18A	34.32
PS8	10.64	PS68	17.99	19	14.06
PS9	7.88	PS69	76.70	20	23.13
PS10	7.69	PS70	78.72	21	9.27
PS11	7.54	PS71	68.57	22	26.21
PS12	3.40	PS72	54.63	23	44.34
PS13	1.41	PS73	34.47	24	28.35
PS15	1.64	PS74	58.88	25	29.76
PS17	1.56	PS76	41.37	26	34.48
PS18	12.34	PS77	78.17	27	35.33
PS19	0.59	PS78	29.32	28	38.88
PS20	0.17	PS79	12.39	29	11.95
PS21	0.79	VC1-1	40.18	30	29.80
PS22	4.90	VC1-2	39.66	31	30.28
PS23	5.72	VC1-3	21.90	32	37.35
PS24	6.69	VC1-4	18.39	33	16.34
PS25	6.90	VC1-5	25.79	34	36.70
PS26	7.06	VC1-6	21.34	35	38.63
PS27	5.86	VC6-7	23.24	36	54.90
PS28	3.64	VC2-1	43.21	37	54.07
PS29	10.36	VC2-2	59.55	38	48.33
PS30	8.96	VC2-3	43.89	39	45.94
PS31	10.54	VC2-4	18.97	40	46.06
PS32	8.33	VC2-5	17.39	41	69.53
PS33	11.02	VC2-6	19.66	42	64.97
PS34	14.61	VC3A-1	41.73	43	64.37
PS35	10.61	VC3A-2	13.13	44	66.51
PS36	7.57	VC3-1	38.84	45	44.34
PS37	8.17	VC3-2	15.91	46	47.72
PS38	64.68	VC4-1	42.08	47	44.59
PS39	25.92	VC4-2	9.76	48	54.05
PS41	13.70	VC5-1	35.86	49	39.63
PS44	34.49	VC5-2	38.17	50	64.16
PS45	43.57	VC5-3	19.49	51	30.51
PS46	59.39	VC6-1	41.07	52	63.13
PS47	48.40	VC6-2	45.16	53	54.21
PS48	34.67	VC6-3	41.74	54	51.70
PS49	67.74	KG954G-1	63.37	55	55.73
PS50	35.08	2	56.23	56	45.14
PS51	75.70	3	59.27	57	45.37
PS52	3.28	4	58.28	58	38.29
PS53	1.77	5	41.31		
PS54	1.32	6	35.08		
PS55	4.58	7	38.09		
PS56	2.11	8	37.45		
PS57	0.70	9	30.03		
PS58	2.34	10	31.52		
PS59	1.94	11	24.88		
PS60	2.10	12	31.49		
PS61	3.49	13	33.71		

Appendix 6.2. *Carbonate percent (weight) of han (e.g. PS1), grab KG954-G1) and vibrocore samples(KG954-VC-1) from southern Halifax Bay.*

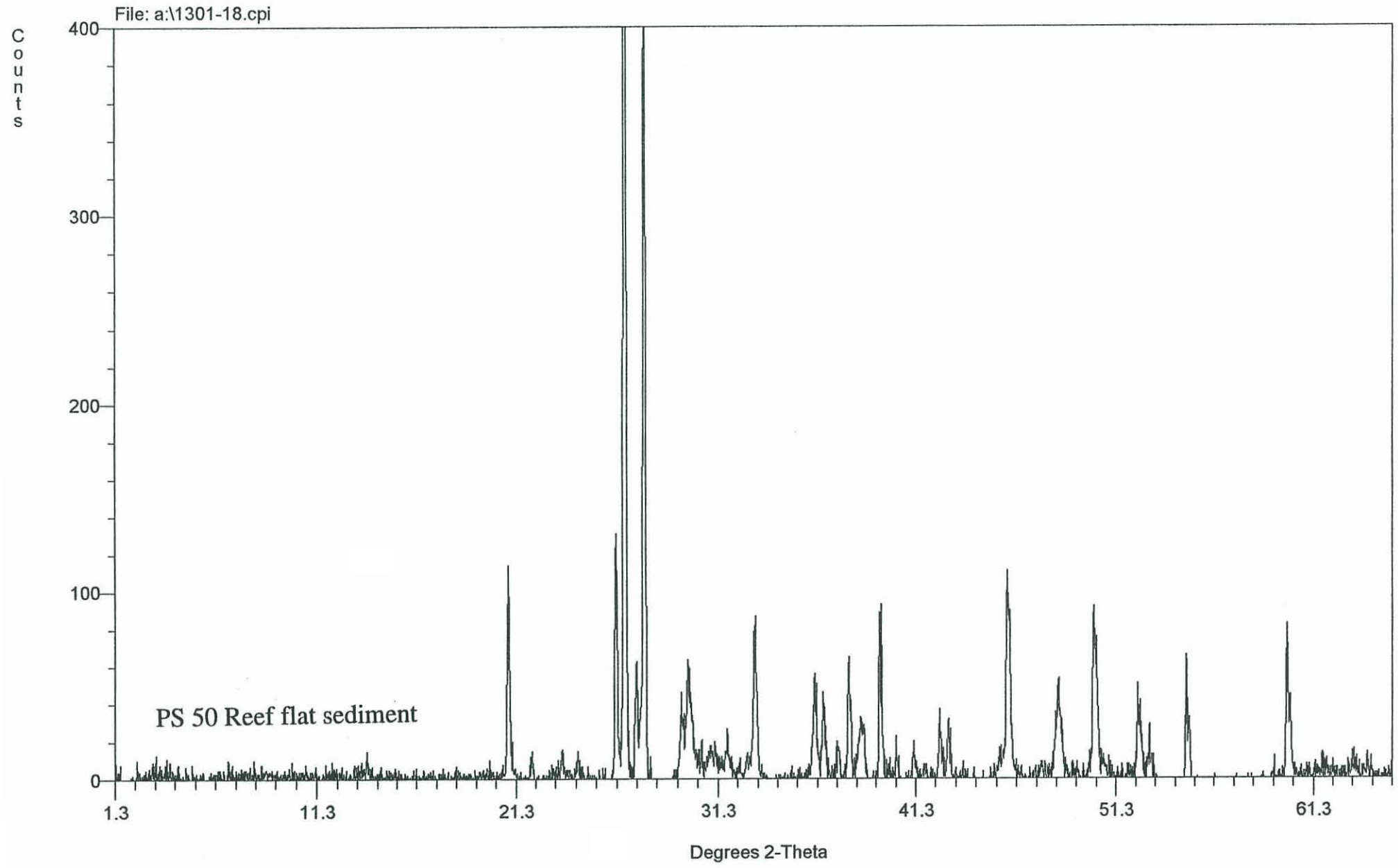
Group	Sample	Group	Sample	Group	Sample	Group	Sample	Group	Sample	Group	Sample	Group	Sample	Group	Sample
1	KG954-G15	2	KG954-G25	3	KG954-G10	3	KG954-VC6-7	4	KG954-VC2-6	5	KG954-VC	6	PS17	7	KG954-G1
1	KG954-G16	2	KG954-G28	3	KG954-G11	3	PS23	4	KG954-VC3-3	5	PS24	6	PS18	7	KG954-G18
1	KG954-G18	2	KG954-G31	3	KG954-G12	3	PS29	4	KG954-VC3A -2	5	PS25	6	PS19	7	KG954-G19
1	KG954-G52	2	KG954-G41	3	KG954-G13	3	PS32	4	KG954-VC3A -3	5	PS26	6	PS33	7	KG954-G2
1	PS15	2	KG954-G5	3	KG954-G14	3	PS66	4	KG954-VC3A-4	5	PS27	6	PS52	7	KG954-G20
1	PS16	2	KG954-G50	3	KG954-G26	3	PS72	4	KG954-VC4-1	5	PS34	6	PS53	7	KG954-G21
1	PS20	2	KG954-G6	3	KG954-G27	3	PS77	4	PS12	5	PS35	6	PS54	7	KG954-G22
1	PS21	2	KG954-VC2-4	3	KG954-G28			4	PS22	5	PS36	6	PS55	7	KG954-G23
1	PS30	2	KG954-VC2-7	3	KG954-G29			4	PS3	5	PS37	6	PS56	7	KG954-G36
1	PS45	2	KG954-VC3-2	3	KG954-G30			4	PS31	5	PS79	6	PS58	7	KG954-G37
1	PS46	2	KG954-VC4-2	3	KG954-G32			4	PS44			6	PS59	7	KG954-G38
1	PS48	2	KG954-VC5-3	3	KG954-G33			4	PS46			6	PS6	7	KG954-G39
1	PS57	2	KG954VC1-1	3	KG954-G34			4	PS63			6	PS60	7	KG954-G41
1	PS7	2	KG954VC1-2	3	KG954-G35							6	PS61	7	KG954-G42
1	PS9	2	KG954VC1-3	3	KG954-G4							6	PS64	7	KG954-G43
		2	KG954VC1-4	3	KG954-G40							6	PS65	7	KG954-G44
		2	KG954VC1-6	3	KG954-G45									7	KG954-G53
		2	KG954VC1-7	3	KG954-G46									7	KG954-G55
		2	KG954VC2-1	3	KG954-G47									7	PS13
		2	PS1	3	KG954-G48									7	PS47
		2	PS10	3	KG954-G48									7	PS49
		2	PS11	3	KG954-G49									7	PS50
		2	PS2	3	KG954-G56									7	PS51
		2	PS38	3	KG954-G57									7	PS62
		2	PS39	3	KG954-G58									7	PS67
		2	PS4	3	KG954-G7									7	PS69
		2	PS40	3	KG954-G8									7	PS70
		2	PS41	3	KG954-G9									7	PS71
		2	PS42	3	KG954-VC1-5										
		2	PS68	3	KG954-VC2-2										
		2	PS73	3	KG954-VC2-3										
		2	PS76	3	KG954-VC3-1										
		2	PS78	3	KG954-VC3A-1										
		2	PS8	3	KG954-VC5-1										
				3	KG954-VC5-2										
				3	KG954-VC6-2										
				3	KG954-VC6-3										
				3	KG954-VC6-4										
				3	KG954-VC6-5										
				3	KG954-VC6-6										

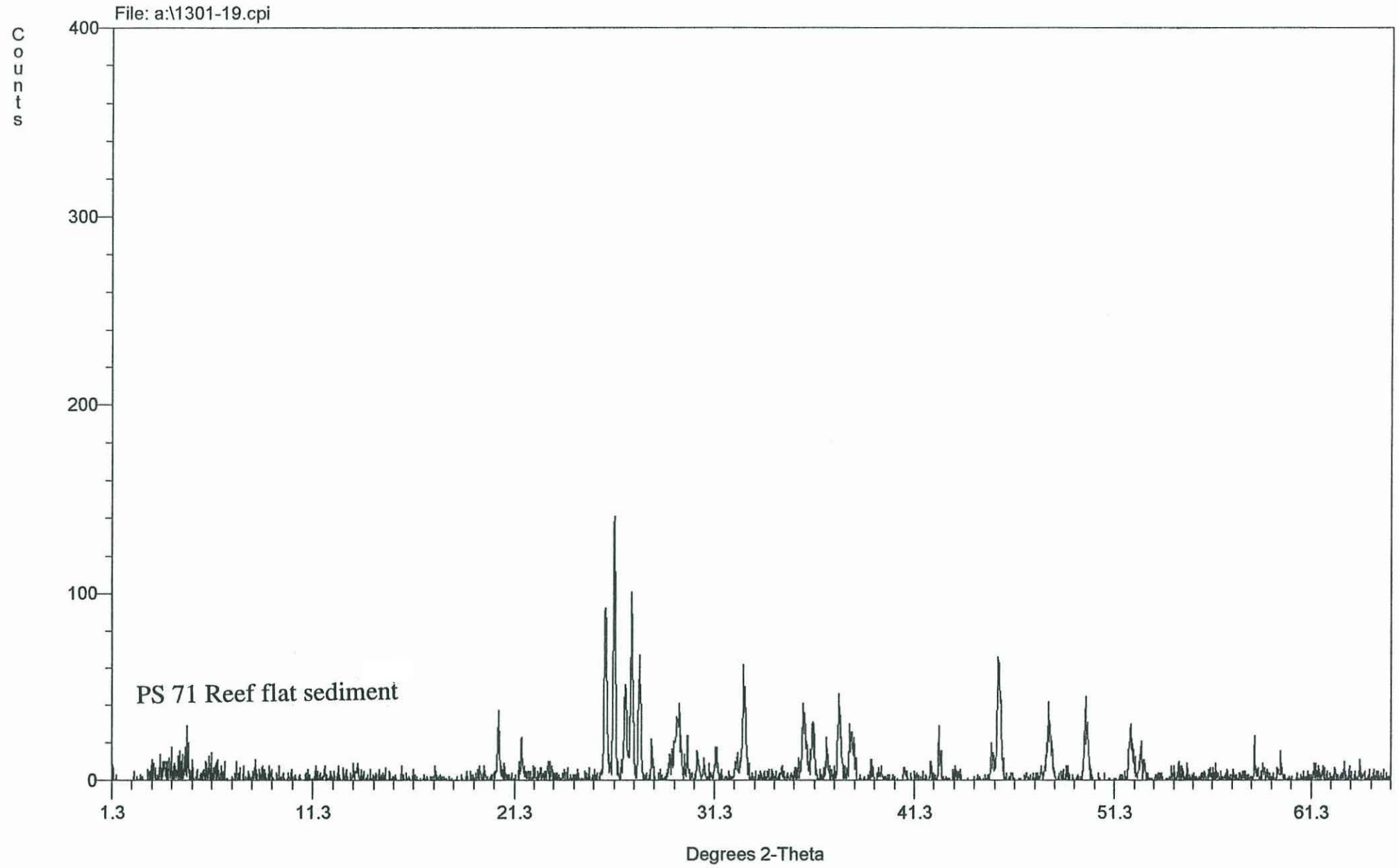
Appendix 6.3. *Entropy groups for 164 coastal (e.g. PS1) vibrocore (e.g. KG954-VC1-1) and marine inner-shelf sediments samples (e.g. KG954-G1) from southern Halifax Bay.*

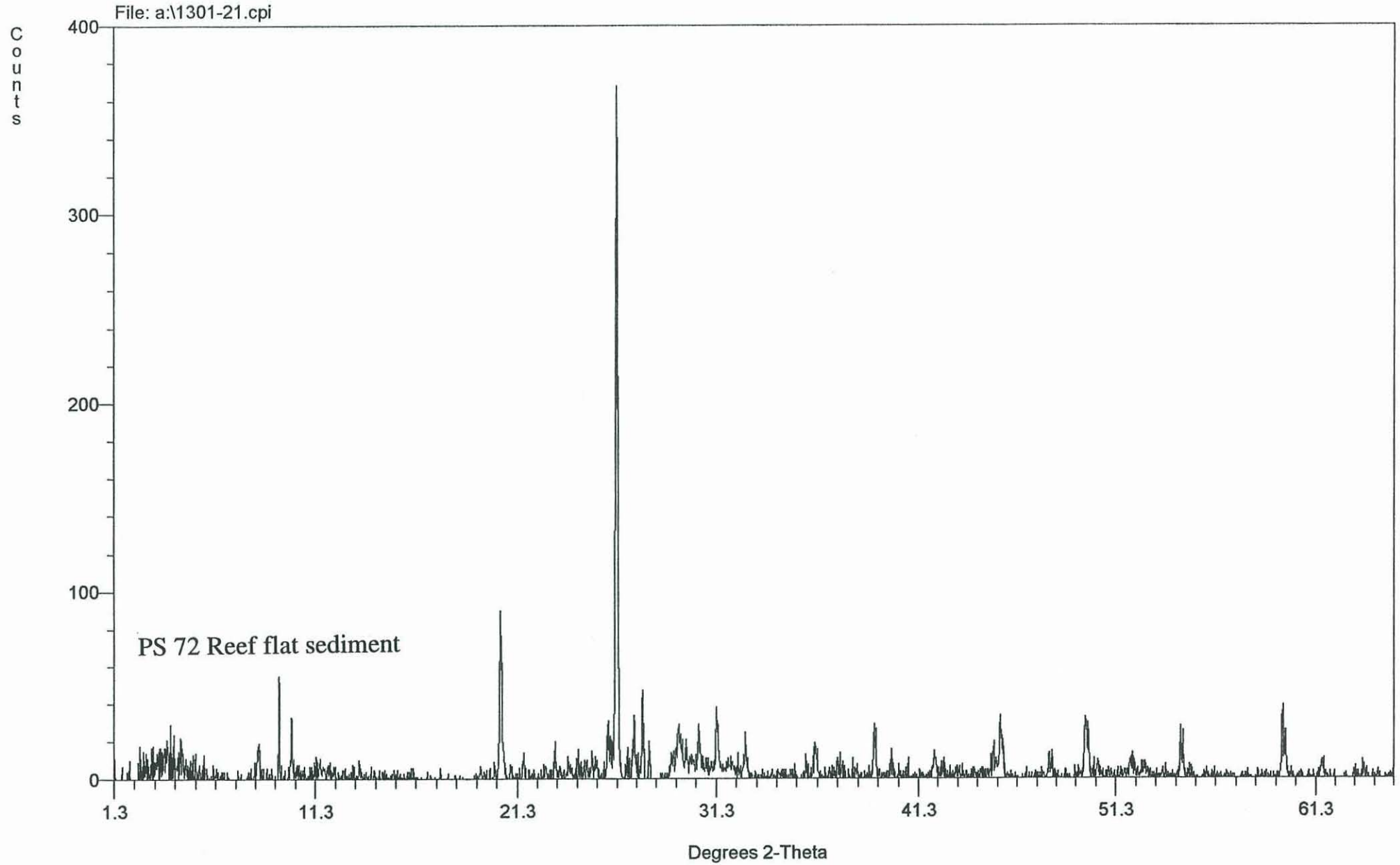

File: a:\1301-14.cpi Date: 03-03-1996 Comment: D5MEAS - Program:GENERAL.DQL Range:1 1301-14
Counts
400
300
200
100
0
PS 38 Sandy mud off a coral head
1.3
11.3
21.3
31.3
41.3
51.3
61.3
Degrees 2-Theta

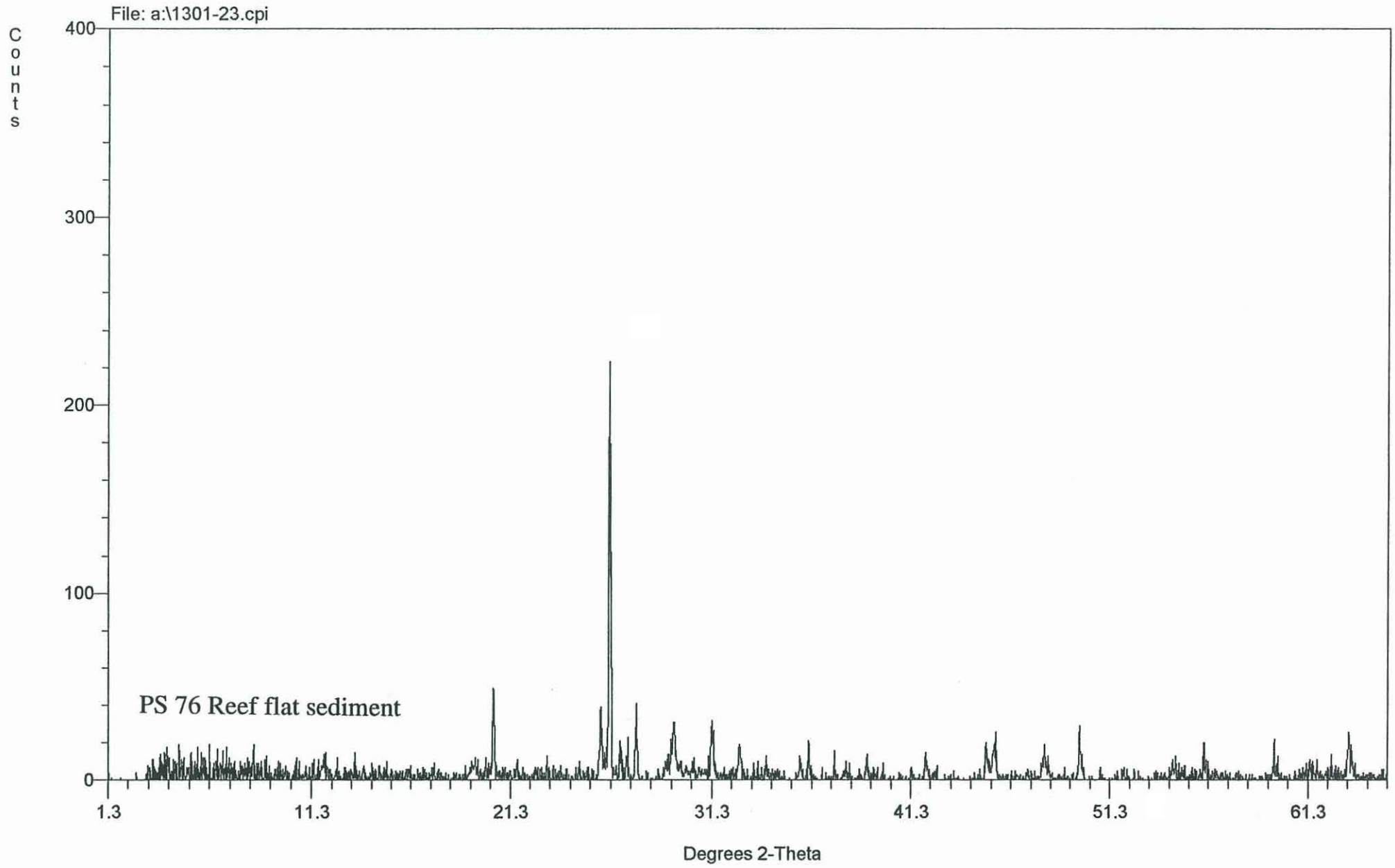

File: a:\1301-15.cpi
Counts
400
300
200
100
0
PS 39 Sandy mud off a coral head
1.3
11.3
21.3
31.3
41.3
51.3
61.3
Degrees 2-Theta

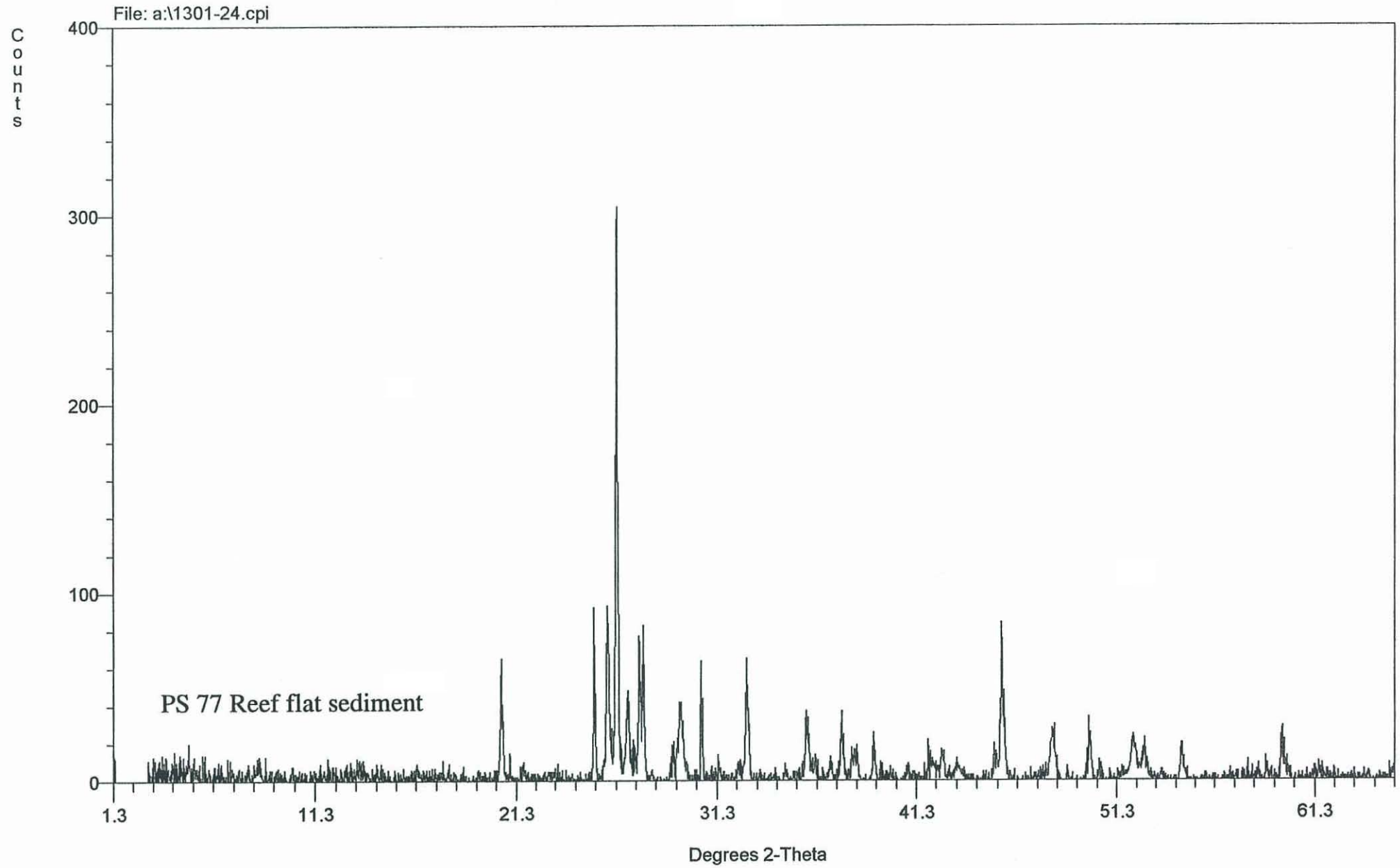
PS 50
Qms

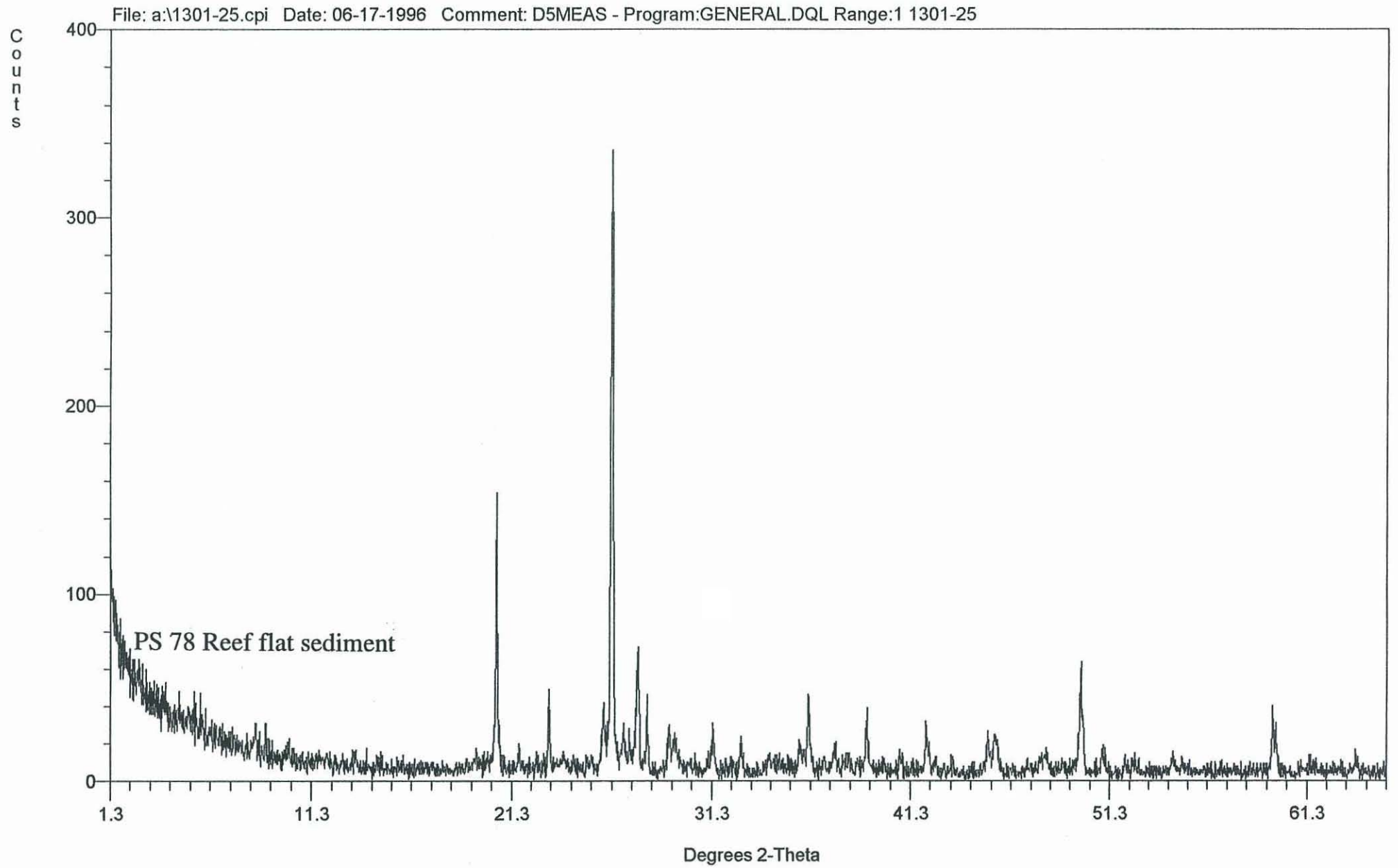

File: a:\1301-18.cpi
Counts
400
300
200
100
0
1.3
11.3
21.3
31.3
41.3
51.3
61.3
Degrees 2-Theta
PS 50 Reef flat sediment

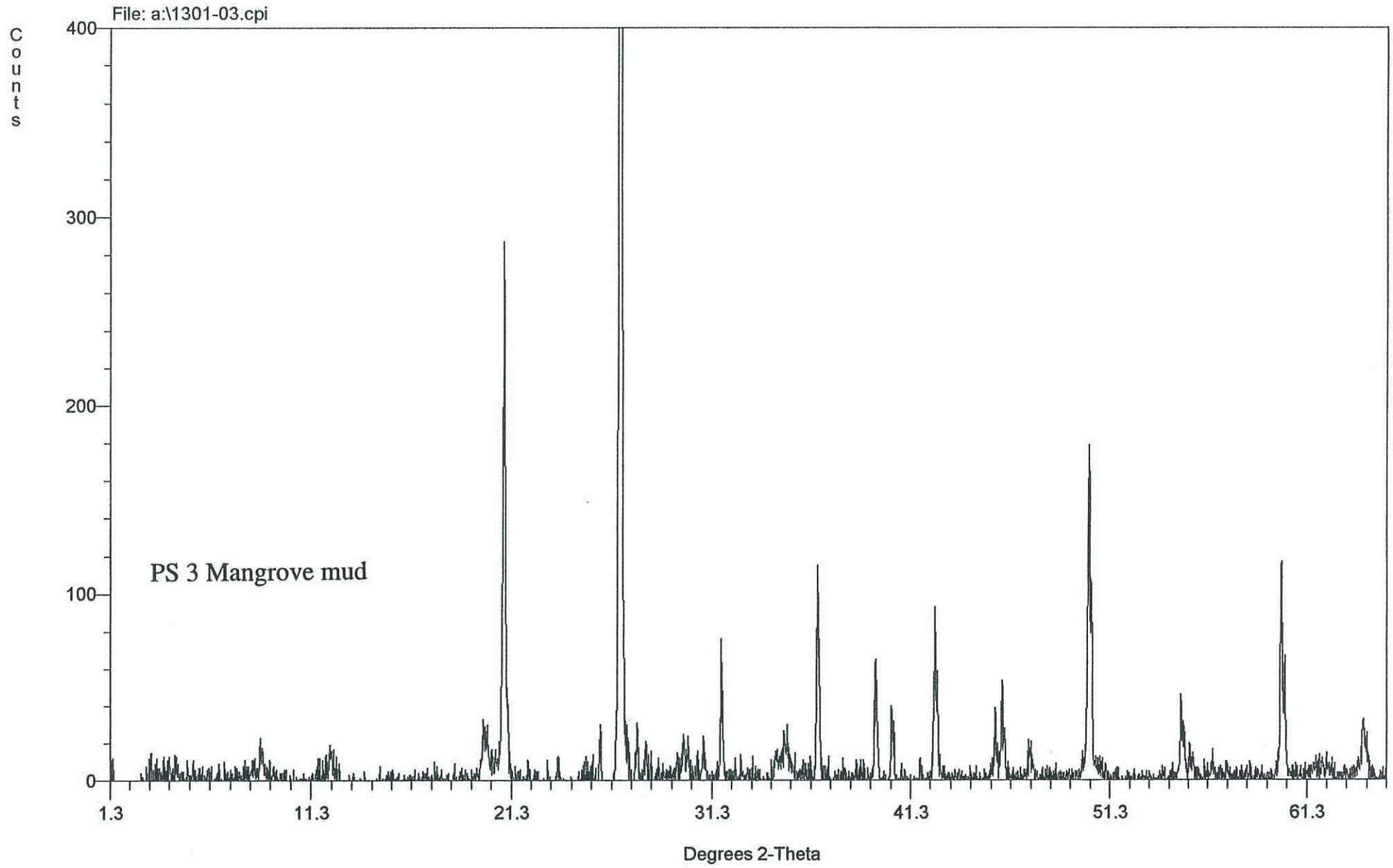

File: a:\1301-19.cpi
Counts
400
300
200
100
0
PS 71 Reef flat sediment
1.3
11.3
21.3
31.3
41.3
51.3
61.3
Degrees 2-Theta


File: a:\1301-21.cpi
Counts
400
300
200
100
0
PS 72 Reef flat sediment
1.3
11.3
21.3
31.3
41.3
51.3
61.3
Degrees 2-Theta


File: a:\1301-23.cpi
Counts
400
300
200
100
0
PS 76 Reef flat sediment
1.3
11.3
21.3
31.3
41.3
51.3
61.3
Degrees 2-Theta


File: a:\1301-24.cpi
Counts
400
300
200
100
0
1.3
11.3
21.3
31.3
41.3
51.3
61.3
Degrees 2-Theta
PS 77 Reef flat sediment


File: a:\1301-25.cpi Date: 06-17-1996 Comment: D5MEAS - Program:GENERAL.DQL Range:1 1301-25
Counts
400
300
200
100
0
PS 78 Reef flat sediment
1.3
11.3
21.3
31.3
41.3
51.3
61.3
Degrees 2-Theta


File: a:\1301-03.cpi
Counts
400
300
200
100
0
PS 3 Mangrove mud
1.3
11.3
21.3
31.3
41.3
51.3
61.3
Degrees 2-Theta