42J01NE0015 2.15956 KIPLING

010)00078

MINERAL RESEARCH CANADA Inc.

Mineral Processing Facility Industrial Blvd., R. R. # 2
Tel. (705) 378 - 2416 Parry Sound ON P2A 2W8
Fax. (705) 378 - 5123

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APR 2 6 1995
MINING LANDS BRANCH

LOCATION AND ACCESS TO PROPERTY

The kaolin/silica project claims are located in the townships of Kipling and Emerson in the area of and comprising the claims historically known as the Douglas property. The claims are on the Mattagami River in the area of the Kipling Hydro dam approximately 100 miles southwest of James Bay in Ontario.

The claims are accessible by driving north on highway 634 from Smooth Rock Falls to Fraserdale (approximately 45.0 miles). Then a private Ontario Hydro road may be taken west for 40 miles to the Smoky Falls dam. A road then continues north for approximately 6 miles to the Kipling dam.

CLAIM NUMBERS

The kaolin/silica property consists of 371 claims (as of Feb. 1, 1995) as well as 8 patented and one leased claim. The claim numbers are P 900001 - P 900100, P1089038 - 1089073, 1089078 - 1809111, 1090037 - 1090044, 1112282 to 1112306, 1112317 - 1112351, 825792 - 825811, 880001 - 880016, 970070 - 970104, 970168 - 970200, 983551 - 983566 & 1198514 - 1198526.

The claim numbers that this work is to be filed on are P 1089038 - 1089073, 1089078 - 1089111 & 1090037 - 1090044.

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OWNERSHIP

The claims are wholly owned by Great Lakes Kaolin Inc.

PREVIOUS WORK

The property history as complied by A. Gourley (1989) cites Robert Bell of the GSC as the first person to document the presence to clay and lignite in the James Bay Lowlands on Coal Brook in 1875. Borron (1891) reported extensive deposits of silica and clay on the Missinaibi River. In 1925, a report was produced by H. S. Hancock for McCarthy & Douglas regarding nine claims held on the bank of the Mattagami River and a company was formed (Northern Ontario China Clay Corporation).

In 1934 Minefinders Ltd financed the drilling of 18 holes on the west side of the Mattagami, directly across from the Douglas property, which became known as the General Refractory Products Ltd.

Fifteen holes were drilled in 1959 - 1960 by American Nepheline Ltd. with nine of these being in Kipling township.

The China Clay Syndicate comprised of New Calumet and Crang Securities drilled one hole to a depth of 163.0' north of the Douglas property in 1962. This hole is now known as C-1 after ownership transferal to the Chesterfield Mining & Exploration Co. Ltd.

Exploration in this areas continued in 1970, when Indusmin Ltd. drilled nine holes. The overburden depth in this area was approximately 100.0'.

Six holes were drilled by Geocon Ltd. on the Douglas claims in 1972. These claims were being leased by Brascan and a report was issued by C. Norman Simpson Consultants Ltd.

Ontario Geological Survey from 1975 - 1978 performed a drilling, geophysical, laboratory and field mapping study to determine Mesozoic stratigraphy.

Drilling was again conducted during 1981 by Selco Ltd. after a airborne magnetometer survey was completed. The seven holes were drilled into the anomalous magnetic areas.

Carlson Mines Ltd. optioned the Douglas property in 1985, and drilled five additional holes into the property. At this time a bulk sample was taken from the Douglas on which test work was performed by the Ontario Research Foundation (now Ortech International) and Lakefield Research. Carlson Mines Ltd. failed to complete option payments on the property resulting in forfeiture.

In 1989 the Douglas property was acquired by 798839 Ontario Ltd. (under the management of James Bay Kaolin Corp.), as well adjoining claims were staked to bring the total to 380 claims. An exhaustive drilling program of 168 holes was undertaken in which WRA, XRD, STEM, viscosity, abrasion, particle size distributions were done on core samples. Various separation techniques were developed as well as construction of a pilot plant begun.

In 1990 James Bay Kaolin Corporation was relieved of its managerial duties due to an improper rendering of accounts. The testing work continued, a 13 000 tonne bulk sample extracted and a 15 hole drilling program was completed in 1992 under the name of Mineral Research Canada Inc. for it's associated company Great Lakes Kaolin Inc.. Mineral Research Canada Inc. currently operates a small scale pilot producing kaolin materials in Parry Sound and continues with the testing work.

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The following tests are used almost exclusively by the pulp and paper industry for the testing of kaolin and to a limited extent by the ceramics, rubber and other industries. These being: viscosity, abrasion, particle size distribution (by Ro-Tap and Sedigraph), moisture, brightness and pH. Due to the highly lensic nature of Moose River deposit extensive testing is required as each lithologic unit must be treated separately to evaluate its potential. The methods and equipment models used are described for each test.

VISCOSITY - provides a rough indicator to the presence of smectites (a similar clay mineral to kaolin that has a quality of expanding to up to 11 times its length in the presence of water due to hydroxide encorporation into lattice structure). Viscosity is critical in the pulp and paper industry as kaolin is almost always shipped as a slurry at 70% solids. These slurries must be unloaded with little difficulty and remain fluid during shipping without settling out or becoming more viscous. The kaolin particle shape can also effect the viscosity (especially if large amounts of halloysite - a tubular kaolin - is present). There are two viscosity tests, one at high shear rates and one at low shear rates. Our instrument is Brookfield, model DV-II. For any viscometer model the minimum range is obtained by using the largest spindle at the highest level; the maximum range by using the smallest spindle at the lowest speed. It is a measurement of the resistance when a spindle is rotated in a material of specified %age solids at a specific temperature. For high brightness coating grade kaolin viscosity should be 300-600 cps., regular brightness coating grade viscosity runs 200-600 cps., for water washed filler grade kaolin viscosity requirement is 150-300 centapoises.

PARTICLE SIZE DISTRIBUTION - this test is performed to give a early indication of the kaolin yield from the sample as well as the percentage of silica in each size fraction which may become important as more markets are found for silica of certain sizes (e.g. - golf coarse sand is only of a particular size fraction). The silica fractionation requires the use of a Ro-Tap after the clay portion (-325 mesh material) has been removed. The Ro-Tap utilizes various sieve sizes to give the appropriate distribution. The clay portion is then tested with a sedigraph that uses an X-ray beam to measure the portion of fine material in each particle size, generally measured in microns. The particle size is critical for kaolin, it is the most crucial factor by which the quality is judged. Each application of kaolin has a different particle size distribution requirement. See figure 1 (particle sizes for paper), figure 2 is a typical sedigraph for ceramics. Our sedigraph results are as follows: page 1, shows tabular data of cumulative mass % finer and mass % in interval vs. diameter. Page 2 curve represents cum. mass % finer vs. equivalent spherical diameter. Page 3 columns indicates mass population (% in intervals) vs. ESD. The instrument model is a Micromeretics Sedigraph 5100.

MOISTURE - determination of moisture must be done to be able to calculate the Ro-Tap screen fractions (% of total dry material).

BRIGHTNESS - a significant element for the paper industry, the whiter the material is the higher the price the material commands. Brightness is especially important in Kaolin that is used in paper coating brightness must be high to provide a good reflectance, opacity and gloss. Our instrument Technibrite Micro TB - 1C is fully automatic microprocessor based instrument that provides brightness, opacity, colour and fluorescence measurements. The powdered kaolin is pressed into a pellet form before obtaining a brightness reading.

pH - a reading is taken as a indicator of the settling quality of the sample as well as being required to perform the viscosity and abrasion tests and is a rough estimate as to possible chemical loading in a final product - most kaolin is shipped as a pH of 4, the material from the Moose River deposit is alkaline. Accumet 910 pH meter is in our use.

ABRASION - even though the particle size distribution may indicate a large percentage of fine particles it is important that these particles be almost entirely kaolin. Silica in the Moose River deposit is frequently as fine as the kaolin platelets and because kaolin and quartz have the same specific gravity there is a constant challenge in removing sufficient silica to reduce the abrasion to an acceptable level. It is required that most abrasives be removed as abrasive materials cause excessive wear on apparatus when producing paper. The instrument used is Einlehner AT 1000. Dry kaolin (100g) is mixed with 300 mls of water, agitated 5 min., flushed with 700 mls of water, pH adjusted. The standard duration of the test is 2 hrs. The abrasion of the test is measured as loss in weight g/m^2 suffered by standard test screen having an abrasion area of 305 mm^2.
For regular and high brightness coating grade kaolin abrasion value must be less than 65 g/m^2 and water washed filler grade kaolin abrasion value is less than 100 g/m^2.

Parcel Register
Registre des parcelles

000078

Originally:
Description d'origine:

Recently: 317,318,1579,1580, 1581,1582, 1583 & 1584 NEC.
Description récente:

Land Titles Division of
Division d'enregistrement
des droits immobiliers de COCHRANE

Estate in Fee Simple with an Absolute Title
Domaine en fief simple à titre absolu

SUBJECT TO: THE RESERVATIONS, LIMITATIONS, PROVISOES AND CONDITIONS EXPRESSED IN THE GRANT FROM THE CROWN, AS VARIED BY STATUTE; THE OVERRIDING PROVISIONS OF THE LAND TITLES ACT AND OF ANY OTHER ACT; AND THE ENCUMBRANCES RECORDED BELOW.

Page 1
Parcel
Parcelle 889
Section NORTH OF COCHRANE

Subject to subsequent entries this parcel comprises the following land
Sous réserve des inscriptions ultérieures, cette parcelle se compose du bien-fonds suivant:

LEGAL DESCRIPTION: District of Cochrane

CLAIM NUMBER	TOWNSHIP	AREA (Ac.)	SURVEY ATTACHED TO PATENT	FORMER PARCEL
T. 18492 ½	Kipling	47 8/10	7580 Temiskaming	318 NEC.
T. 19482	Kipling	54 4/10	7579 Temiskaming	317 NEC.
T. 21582	Kipling	39 9/10	1552 Cochrane	1581 NEC.
T. 21583	Kipling	40 2/10	1550 Cochrane	1579 NEC.
T. 21584	Kipling	39 9/10	1553 Cochrane	1582 NEC.
T. 21585	Kipling	41 5/10	1551 Cochrane	1580 NEC.
T. 21586	Kipling	63 3/10	1554 Cochrane	1583 NEC.
T. 21587	Kipling	61 1/10	1555 Cochrane	1584 NEC.

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Reserving the Surface Rights only on and over a strip of land one chain in perpendicular width along the shore of the Mattagami River. T. 18492 ½ and T. 19482

421592 Transfer 92/07/03 GREAT LAKES KAOLIN INC. $400,000., Consolidation

Certified to be a true copy of the 1 pages of parcel 8098 NEC
Dated at Cochrane, Ontario this NOV 12, 1992
at 10:00AM.
LAND REGISTRAR. P. Thufesten

P. Thufesten
D. Land Registrar

2. 1595 5

Registration Number Numéro d'enregistrement	Instrument Type Type d'acte	Registration Date Date d'enregistrement YY MM DD AA MM JJ	Parties to Parties	(Applicant, Cautioner, Claimant, etc.) (Demandeur, auteur de l'avertissement, réclamant, etc.)	Consideration Contrepartie	Land/Remarks Bien-fonds/Observations

ACE AND MINING RIGHTS)

000078

Under Crown Mining Lease Number [illegible] (being Number [illegible]) of The Department of Mines as shown in said [illegible] be subject to of The Mining Act [illegible] of Section 109a of the said Act. [illegible] HER MAJESTY THE QUEEN in right of the Province of Ontario as represented by ~~the Minister of Mines and~~ the Deputy Minister of Natural Resources and the Lessee, ~~Bruce Douglas, of 36 Wimpole Drive, Willowdale, Ontario, Manager,~~

and which said CROWN MINING LEASE is registered in the Office of Land Titles at Cochrane as PARCEL 595, LEASEHOLD, the said Lessee is entitled upon the terms and conditions contained in the said Lease and as hereinafter set forth to an estate for and during the term of twenty-one years to be computed as hereinafter set forth with the right of renewal as therein contained of that certain parcel or tract of land situate, lying and being in the Township of Kipling, in the District of Cochrane in the Province of Ontario, being composed of

Mining Claim P.91135, situate in the said Township of Kipling, shown on a Plan of Survey of Record in the Land Registry Office, Cochrane, as Plan 6R-2014 and designated thereon as Part 1, containing by admeasurement Forty-Seven and Eighty-Nine One Hundredths (47.89) Acres, more or less.

Excepting thereout and therefrom the surface rights only on and over a strip of land along the shores of the Mattagami River and which said strip of land is bounded by the high water mark of the Mattagami River and by a line, every point of which is distant 400 feet from the nearest point in the said high water mark, containing Twelve and Thirty One-Hundredths (12.30) Acres, more or less.

Together with All and Singular the easements, advantages and appurtenances, which are now or at any time during the term hereby granted, may be held, occupied or enjoyed therewith for the purpose of mining upon and under the said lands; and also with full power, subject to the reservations hereinafter contained, to the said Lessee and his contractors, agents and workmen to dig, sink, drive, bore, make and use excavations, pits, shafts, levels, drifts, tunnels, wells, water-courses and other works for winning, raising and removing the mines, ores and minerals in or on or under the said lands; and to make and construct on the said lands, races, drains, dams, reservoirs, roads, tramways and railways; and to erect on the said lands all buildings, furnaces, roasting-beds, engines, pumps, machinery and appliances necessary for the purpose of winning, raising, treating and reducing the mines, ores and minerals in or on or under the said lands and for effectually carrying on all such mining and reducing works.

TO HAVE AND TO HOLD the said demised premises for and during the term of twenty-one years, commencing on the First day of May, one thousand nine hundred and Seventy-Three and from thenceforth next ensuing and fully to be complete and ended.

YIELDING AND PAYING THEREFOR in lawful money of Canada unto Us, Our Heirs and Successors, in advance at the Department of Mines, Toronto, for the first year of the said term the rent or sum of Fifty-Five Dollars and Seventy-Eight Cents, and for each and every subsequent year of the said term in advance the rent or sum of Twelve Dollars and Nine Cents, the first of such payments to be made at or before the execution and delivery of these presents and all subsequent payments to be made in advance on or before the First day of May in each and every year thereafter during the said term.

PROVIDED that the said Lessee shall and will pay the rent or charge which may be payable by him in the manner hereinbefore mentioned without any deduction whatsoever.

AND WILL pay all provincial, municipal and other taxes, rates, duties, royalties or assessments that are now or may at any time hereafter be imposed against the demised premises or the product thereof or the profit therefrom.

PROVIDED that these presents and the term hereby created shall be subject to the provisions of The Mining Act, The Mining Tax Act, The Forest Fires Prevention Act, The Provincial Forests Act and any amendments thereto or regulations thereunder which have been or shall hereafter be made.

PROVIDED that the premises hereby demised shall be used solely for the purpose of the mining industry and in default thereof these presents may be declared void by the Lieutenant-Governor in Council, as provided in The Mining Act.

RESERVING ten per cent of the surface rights hereby demised for roads and the right to lay out the same where the Crown or its officers may deem necessary.

RESERVING the surface rights on and over any public or colonization road or any highway crossing the said lands at the date of these Lease Letters.

PROVIDED that no surface mining operations shall be carried on within 150 feet of the limits of any highway or road maintained by the Department of Highways except with the consent in writing of the Minister of Mines, as provided in The Mining Act.

PROVIDED that nothing whatsoever herein contained shall prevent or interfere with the free user of any public or travelled road or highway crossing the hereinbefore described premises.

RESERVING all deposits of sand and gravel together with the right of the Crown or its designates to enter and remove same without compensation.

(CONTINUED)

Continuation of Parcel 595 [illegible]

RESERVING ALSO [illegible] Our Heirs and Successors, such use of the land hereby demised for all such works as may be necessary for the development of water power and [illegible] development, transmission and distribution of electrical power, natural gas, petroleum and petroleum products, including [illegible] structures without any liability by Us to the Lessee.

RESERVING ALSO the right to grant without compensation to any person or corporation the right of way necessary for the construction and operation of one or more railways over or across the lands herein leased without let or hindrance from the Lessee where such railway or railways shall not manifestly or materially interfere with the mining operations carried on upon the said premises.

RESERVING unto Us, Our Heirs and Successors, all timber and trees standing, being or hereafter found growing upon the lands hereby leased, and the right to enter upon such lands to carry on forestry, to cut and remove any timber or trees thereon, and to make, build and construct roads necessary for such purposes.

SAVING, EXCEPTING AND RESERVING unto Us, Our Heirs and Successors, the free use, passage and enjoyment of, in, over and upon all navigable waters which shall or may hereafter be found on or under or be flowing through or upon any part of the said parcel or tract of land hereby demised as aforesaid and reserving also right of access to the shores of all rivers, streams and lakes for all vessels, boats and persons, together with the right to use so much of the banks thereof not exceeding one chain in depth from the high water mark as may be necessary for fishery or public purposes.

PROVIDED that should the premises herein described or any part thereof be covered by navigable waters, this lease shall be subject to the provisions of The Navigable Waters Protection Act (Canada), The Beds of Navigable Waters Act and The Lakes and Rivers Improvement Act.

PROVIDED that nothing herein contained shall in any manner restrict fishing or fishing rights in any navigable waters covering the premises hereby demised and that the said Lessee shall not do any act resulting in damage to fishing or fishing industry in the said waters or to nets or other appliances used in fishing in such waters.

PROVIDED that these presents shall not vest in the Lessee any right, claim or title to the land under navigable waters which may be included within the limits of the herein described premises, but the Lessee shall have the exclusive right to extract the minerals therefrom during the term of these presents.

THE lands herein demised are subject to the conditions in Section 106 of The Mining Act with respect to the treating and refining of ores and minerals within Canada.

PROVIDED that if the rent hereby reserved or any part thereof shall remain unpaid for two years after the same shall have become legally due and payable, whether such rent shall have been legally demanded or not, these presents shall cease and determine and may be terminated by Our Minister of Mines.

AND PROVIDED that if default is made in any of the provisoes or conditions herein contained and such default is not remedied within sixty days after notice has been delivered or sent to the Lessee at his last known address of record in the Department of Mines setting forth such default and calling upon him to remedy the same, these presents shall cease and determine and may be terminated by Our Minister of Mines.

AND PROVIDED that upon the termination of these presents by Our Minister of Mines, it shall be lawful for Us, Our Heirs and Successors, to enter into and upon the same premises and to repossess the same free and clear of every claim and encumbrance.

PROVIDED that the said Lessee, his heirs, successors or assigns, on the termination of these presents for whatever cause may within the time provided in The Mining Act remove from the herein described premises all buildings, structures, machinery, chattels, personal property and any ore or mineral he has extracted therefrom and slimes or tailings not otherwise owned and in default of so doing within the time prescribed in The Mining Act all such buildings, structures, chattels, personal property, ore, mineral, slimes and tailings shall revert to and belong to Us, Our Heirs and Successors, and may be sold or otherwise disposed of by Our Minister of Mines upon such terms and conditions as he deems expedient.

PROVIDED that these presents and the term or terms hereby created shall not be transferred, assigned or sublet without the written consent of the Minister of Mines, or of some officer duly authorized by him, nor unless all fees on any such transfer have been paid.

PROVIDED application is made therefor within ninety days of the expiry of these presents or within such further period of time as Our Minister of Mines may deem proper, and the provisoes, terms and conditions herein contained have been fulfilled to the satisfaction of Our Minister of Mines and the rent herein reserved has been paid, these presents may be renewed for a further term of twenty-one years, if considered expedient by Our Minister of Mines.

PROVIDED that wherever in this lease the word "Lessee" occurs it shall be construed as including Lessees and also the heirs, executors, administrators, successors, assigns and other legal representatives of the Lessee or Lessees as the case may be; and words importing the singular number only shall include more persons, parties or things than one.

AND IS ALSO SUBJECT to the exceptions, liabilities, qualifications and conditions set out in The Land Titles Act, R.S.O. 1960, Chapter 204 and all subsequent amendments.

IN WITNESS WHEREOF I have hereunto subscribed my name this 22nd day of May, A.D., 1973.

LAND REGISTRAR

DOCUMENT ENTERED DOCUMENT TITLED

Notice sent to Sheriff 22nd May, 1973.

Issued Office Copy

Transfers Parcel

~~TRANSFER, 201409, REGISTERED: 3rd September, 1980,~~

NEW OWNER: Angus Graeme Taylor, ~~ADDRESS:~~ Suite 1400, 10 King Street East, Toronto, Ontario.

M. Goodhow

(CONTINUED)

Transfers Parcel ~~[illegible] August, 1981,~~

~~[illegible] 16 Wimpole Drive, Willowdale, Ontario, M2L 2K9~~

~~L.R.~~

Certif. of Pending Litigation Deleted under 380649.

~~CERTIFICATE OF PENDING LITIGATION: 351063, REGISTERED: 30th December, 1986,~~

~~L.R.~~

Land Registrar.

REGISTRATION NUMBER	INSTRUMENT	REGISTRATION DATE	GRANTEE	CONSIDERATION ETC.	LAND-REMARKS-SIGNATURE
~~394271~~	~~Transfer~~	~~90/02/15~~	~~798839 ONTARIO LIMITED~~	~~$400,000.,~~	~~Asst. D. Land Registrar~~
421592	Transfer	92/07/03	GREAT LAKES KAOLIN INC.	$400,000.,	Land Registrar

[illegible] of the 3 pages

595 ~~[illegible]~~ LC

[illegible], Ontario, this Nov. 12, 1992

at 10:00 A.M.

LAND REGISTRAR

ACE AND MINING RIGHTS)

UNDER CROWN MINING LEASE NUMBER 615 Cochrane (being Number 102830) of The Department of Mines as shown in said Lease) issued by authority of The Mining Act and amendments thereto and pursuant to and subject to the provisoes of Section 100a of the said Act, and in consideration of and subject to the provisoes, conditions and restrictions contained in said Lease, made between HER MAJESTY THE QUEEN in right of the Province of Ontario as represented by ~~the Minister of Mines and~~ the Deputy Minister of Natural Resources and ~~Bruce Douglas, of 36 Wimpole Drive, Willowdale, Ontario, Manager,~~ the Lessee,

and which said CROWN MINING LEASE is registered in the Office of Land Titles at Cochrane as PARCEL 595, LEASEHOLD, the said Lessee is entitled upon the terms and conditions contained in the said Lease and as hereinafter set forth to an estate for and during the term of twenty-one years to be computed as hereinafter set forth with the right of renewal as therein contained of that certain parcel or tract of land situate, lying and being in the Township of Kipling, in the District of Cochrane in the Province of Ontario, being composed of

Mining Claim P.91135, situate in the said Township of Kipling, shown on a Plan of Survey of Record in the Land Registry Office, Cochrane, as Plan 6R-2014 and designated thereon as Part 1, containing by admeasurement Forty-Seven and Eighty-Nine One Hundredths (47.89) Acres, more or less.

Excepting thereout and therefrom the surface rights only on and over a strip of land along the shores of the Mattagami River and which said strip of land is bounded by the high water mark of the Mattagami River and by a line, every point of which is distant 400 feet from the nearest point in the said high water mark, containing Twelve and Thirty One-Hundredths (12.30) Acres, more or less.

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Together with All and Singular the easements, advantages and appurtenances, which are now or at any time during the term hereby granted, may be held, occupied or enjoyed therewith for the purpose of mining upon and under the said lands; and also with full power, subject to the reservations hereinafter contained, to the said Lessee and his contractors, agents and workmen to dig, sink, drive, bore, make and use excavations, pits, shafts, levels, drifts, tunnels, wells, water-courses and other works for winning, raising and removing the mines, ores and minerals in or on or under the said lands; and to make and construct on the said lands, races, drains, dams, reservoirs, roads, tramways and railways; and to erect on the said lands all buildings, furnaces, roasting-beds, engines, pumps, machinery and appliances necessary for the purpose of winning, raising, treating and reducing the mines, ores and minerals in or on or under the said lands and for effectually carrying on all such mining and reducing works.

TO HAVE AND TO HOLD the said demised premises for and during the term of twenty-one years, commencing on the First day of May, one thousand nine hundred and Seventy-Three and from thenceforth next ensuing and fully to be complete and ended.

YIELDING AND PAYING THEREFOR in lawful money of Canada unto Us, Our Heirs and Successors, in advance at the Department of Mines, Toronto, for the first year of the said term the rent or sum of Fifty-Five Dollars and Seventy-Eight Cents, and for each and every subsequent year of the said term in advance the rent or sum of Twelve Dollars and Nine Cents, the first of such payments to be made at or before the execution and delivery of these presents and all subsequent payments to be made in advance on or before the First day of May in each and every year thereafter during the said term.

PROVIDED that the said Lessee shall and will pay the rent or charge which may be payable by him in the manner hereinbefore mentioned without any deduction whatsoever.

AND WILL pay all provincial, municipal and other taxes, rates, duties, royalties or assessments that are now or may at any time hereafter be imposed against the demised premises or the product thereof or the profit therefrom.

PROVIDED that these presents and the term hereby created shall be subject to the provisions of The Mining Act, The Mining Tax Act, The Forest Fires Prevention Act, The Provincial Forests Act and any amendments thereto or regulations thereunder which have been or shall hereafter be made.

PROVIDED that the premises hereby demised shall be used solely for the purpose of the mining industry and in default thereof these presents may be declared void by the Lieutenant-Governor in Council, as provided in The Mining Act.

RESERVING ten per cent of the surface rights hereby demised for roads and the right to lay out the same where the Crown or its officers may deem necessary.

RESERVING the surface rights on and over any public or colonization road or any highway crossing the said lands at the date of these Lease Letters.

PROVIDED that no surface mining operations shall be carried on within 150 feet of the limits of any highway or road maintained by the Department of Highways except with the consent in writing of the Minister of Mines, as provided in The Mining Act.

PROVIDED that nothing whatsoever herein contained shall prevent or interfere with the free user of any public or travelled road or highway crossing the hereinbefore described premises.

RESERVING all deposits of sand and gravel together with the right of the Crown or its designates to enter and remove same without compensation.

(CONTINUED)

RESERVING ALSO unto Us, Our Heirs and Successors, such use of the land hereby demised for all such works as may be necessary for the development of water power and the development, transmission and distribution of electrical power, natural gas, petroleum and petroleum products, including the construction, maintenance and operation of roads, railroads, transmission lines and stations, flumes, pipelines, dams, power houses and other works and structures without any liability by Us to the Lessee.

RESERVING ALSO the right to grant without compensation to any person or corporation the right of way necessary for the construction and operation of one or more railways over or across the lands herein leased without let or hindrance from the Lessee where such railway or railways shall not manifestly or materially interfere with the mining operations carried on upon the said premises.

RESERVING unto Us, Our Heirs and Successors, all timber and trees standing, being or hereafter found growing upon the lands hereby leased, and the right to enter upon such lands to carry on forestry, to cut and remove any timber or trees thereon, and to make, build and construct roads necessary for such purposes.

SAVING, EXCEPTING AND RESERVING unto Us, Our Heirs and Successors, the free use, passage and enjoyment of, in, over and upon all navigable waters which shall or may hereafter be found on or under or be flowing through or upon any part of the said parcel or tract of land hereby demised as aforesaid and reserving also right of access to the shores of all rivers, streams and lakes for all vessels, boats and persons, together with the right to use so much of the banks thereof not exceeding one chain in depth from the high water mark as may be necessary for fishery or public purposes.

PROVIDED that should the premises herein described or any part thereof be covered by navigable waters, this lease shall be subject to the provisions of The Navigable Waters Protection Act (Canada), The Beds of Navigable Waters Act and The Lakes and Rivers Improvement Act.

PROVIDED that nothing herein contained shall in any manner restrict fishing or fishing rights in any navigable waters covering the premises hereby demised and that the said Lessee shall not do any act resulting in damage to fishing or fishing industry in the said waters or to nets or other appliances used in fishing in such waters.

PROVIDED that these presents shall not vest in the Lessee any right, claim or title to the land under navigable waters which may be included within the limits of the herein described premises, but the Lessee shall have the exclusive right to extract the minerals therefrom during the term of these presents.

THE lands herein demised are subject to the conditions in Section 106 of The Mining Act with respect to the treating and refining of ores and minerals within Canada.

PROVIDED that if the rent hereby reserved or any part thereof shall remain unpaid for two years after the same shall have become legally due and payable, whether such rent shall have been legally demanded or not, these presents shall cease and determine and may be terminated by Our Minister of Mines.

AND PROVIDED that if default is made in any of the provisoes or conditions herein contained and such default is not remedied within sixty days after notice has been delivered or sent to the Lessee at his last known address of record in the Department of Mines setting forth such default and calling upon him to remedy the same, these presents shall cease and determine and may be terminated by Our Minister of Mines.

AND PROVIDED that upon the termination of these presents by Our Minister of Mines, it shall be lawful for Us, Our Heirs and Successors, to enter into and upon the same premises and to repossess the same free and clear of every claim and encumbrance.

PROVIDED that the said Lessee, his heirs, successors or assigns, on the termination of these presents for whatever cause may within the time provided in The Mining Act remove from the herein described premises all buildings, structures, machinery, chattels, personal property and any ore or mineral he has extracted therefrom and slimes or tailings not otherwise owned and in default of so doing within the time prescribed in The Mining Act all such buildings, structures, chattels, personal property, ore, mineral, slimes and tailings shall revert to and belong to Us, Our Heirs and Successors, and may be sold or otherwise disposed of by Our Minister of Mines upon such terms and conditions as he deems expedient.

PROVIDED that these presents and the term or terms hereby created shall not be transferred, assigned or sublet without the written consent of the Minister of Mines, or of some officer duly authorized by him, nor unless all fees on any such transfer have been paid.

PROVIDED application is made therefor within ninety days of the expiry of these presents or within such further period of time as Our Minister of Mines may deem proper, and the provisoes, terms and conditions herein contained have been fulfilled to the satisfaction of Our Minister of Mines, and the rent herein reserved has been paid, these presents may be renewed for a further term of twenty-one years, if considered expedient by Our Minister of Mines.

PROVIDED that wherever in this lease the word "Lessee" occurs it shall be construed as including Lessees and also the heirs, executors, administrators, successors, assigns and other legal representatives of the Lessee or Lessees as the case may be; and words importing the singular number only shall include more persons, parties or things than one.

AND IS ALSO SUBJECT to the exceptions, liabilities, qualifications and conditions set out in The Land Titles Act, R.S.O. 1960, Chapter 204, and all subsequent amendments.

IN WITNESS WHEREOF I have hereunto subscribed my name this 22nd day of May, A.D., 1973.

LAND REGISTRAR
~~BOARD MASTER OF DEEDS~~

Notice sent to Sheriff 22nd May, 1973.

Issued Office Copy ..

Transfers Parcel

~~TRANSFER, 261,69, REGISTERED: 3rd September, 1980,~~

NEW OWNER: Angus Graeme Taylor, ~~ADDRESS:~~ Suite 1400, 10 King Street East, Toronto, Ontario.

M. Goodison
D. Sub-Reg.

(CONTINUED)

Transfers Parcel ~~TRANSFER: 290146, REGISTERED: 17th August, 1981,~~

NEW OWNER: Bruce Douglas, ~~ADDRESS:~~ 36 Wimpole Drive, Willowdale, Ontario, M2L 2K9

~~L.R.~~

Certif. of Pending Litigation ~~CERTIFICATE OF PENDING LITIGATION: 351063, REGISTERED: 30th December~~, 1986,

Deleted under 380649.

~~B.L.R.~~

~~B~~ Land Registrar.

REGISTRATION NUMBER	INSTRUMENT	REGISTRATION DATE	GRANTEE	CONSIDERATION ETC.	LAND-REMARKS-SIGNATURE
~~394271~~	~~Transfer~~	~~90/02/15~~	~~798839 ONTARIO LIMITED~~	~~$400,000.,~~	
					~~Ass't D. Land Registrar~~
421592	Transfer	92/07/03	GREAT LAKES KAOLIN INC.	$400,000.,	
					~~D~~ Land Registrar

Transfers Parcel	~~TRANSFER: 290116, REGISTERED: 17th August, 1981,~~ NEW OWNER: Bruce Douglas, ~~ADDRESS:~~ 36 Wimpole Drive, Willowdale, Ontario, M2L 2K9
Certif. of Pending Litigation Deleted under 380649.	~~CERTIFICATE OF PENDING LITIGATION: 351063, REGISTERED: 30th December, 1986,~~

Land Registrar.

REGISTRATION NUMBER	INSTRUMENT	REGISTRATION DATE	GRANTEE	CONSIDERATION ETC.	LAND-REMARKS-SIGNATURE
~~394271~~	~~Transfer~~	~~90/02/15~~	~~798839 ONTARIO LIMITED~~	~~$400,000.,~~	
421592	Transfer	92/07/03	GREAT LAKES KAOLIN INC.	$400,000.,	

Land Registrar

INVOICE

OUR NUMBER 322974
DATE Jan 24 1995
CUSTOMER'S ORDER
SALESMAN 705 378 2416
VIA Fax 705 378 5123
F.O.B.

TAX REG. NO. Mineral Research Canada Inc
SOLD TO No 1 Industrial Blvd.
SHIP TO R R No 2
ADDRESS Parry Sound VIA P2A 2W8

QUANTITY	DESCRIPTION	PRICE	AMOUNT
	Land Letter		7 00
	Search Parcel 595 LHC, 3 copies		
	Fee		10 00
	Thank You		17 00
	Mrs. Kay Fasano		
	Box 1239		
	Cochrane, Ontario		
	P0L 1C0		

GBLUELINE · DC 31

Hole 92-11 # 16751

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /275
SAMPLE ID: Hole 92-11 # 16751
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 94 kilocounts/sec

UNIT NUMBER: 1
START 09:16:51 10/27/94
REPRT 09:28:55 10/27/94
TOT RUN TIME 0:07:33
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7640 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.66 µm

MODAL DIAMETER: 4.35 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	98.7	1.3
80.00	98.7	-0.1
60.00	98.6	0.1
50.00	98.2	0.3
40.00	97.8	0.4
30.00	97.3	0.5
25.00	97.0	0.4
20.00	96.0	1.0
15.00	92.8	3.2
10.00	86.4	6.4
8.00	81.6	4.8
6.00	74.2	7.4
5.00	68.9	5.3
4.00	61.7	7.2
3.00	53.2	8.5
2.00	43.0	10.1
1.50	36.7	6.3
1.00	27.6	9.1
0.80	24.4	3.2
0.60	21.2	3.2
0.50	19.5	1.7
0.40	17.7	1.9

42J01NE0015 2.15956 KIPLING

020

RECEIVED
APR 26 1995
MINING LANDS BRANCH

2.1595 C

K. Mallestrom

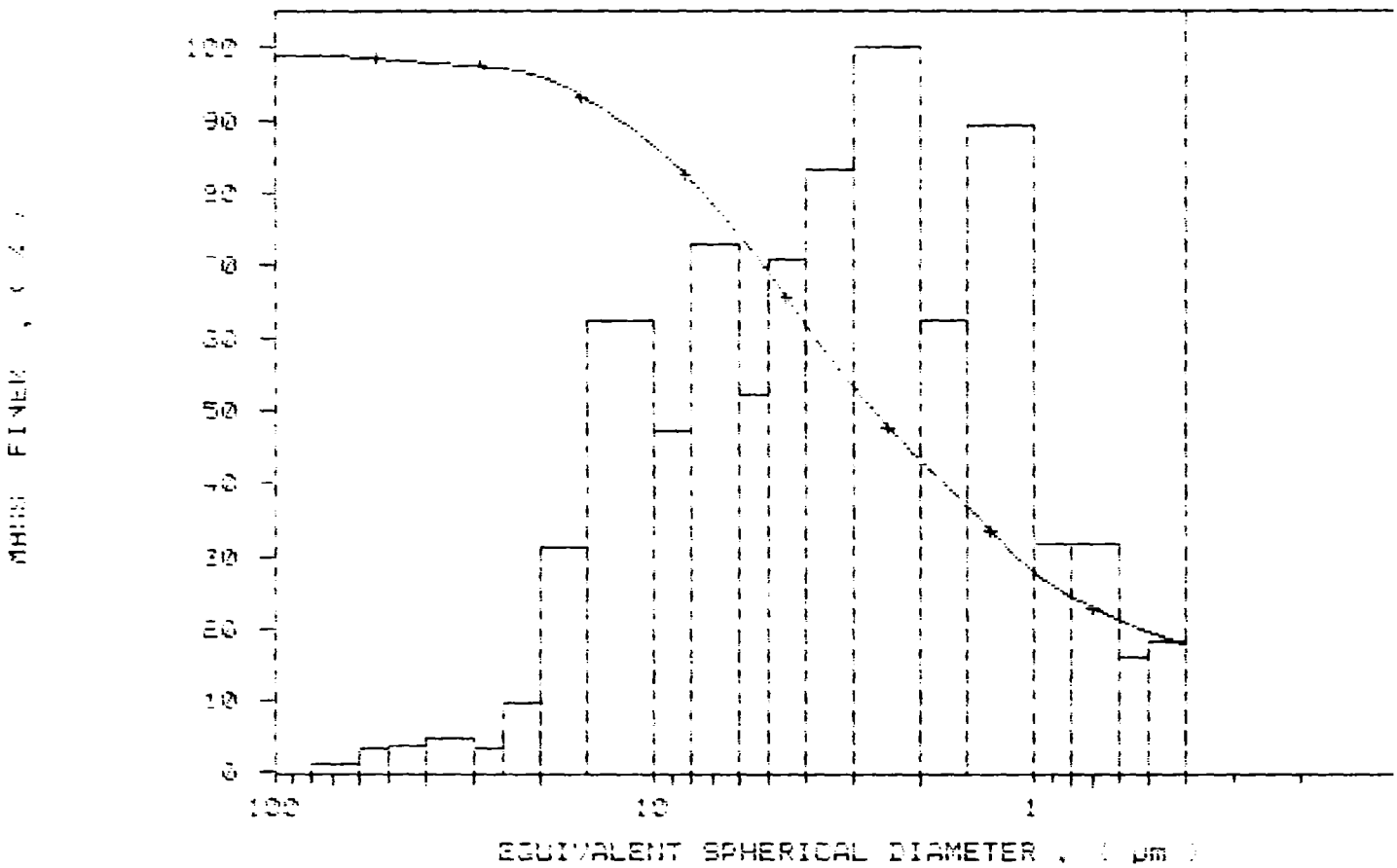
Hole 92-11 # 16751

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /275
SAMPLE ID: Hole 92-11 # 16751
SUBMITTER: MRC.Ing[illegible]
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 94 kilocounts/sec

UNIT NUMBER: 1
START 09:16:51 10/27/9
REPRT 09:28:55 10/27/9
TOT RUN TIME 0:07:3
SAM DENS: 2.6000 g/c
LIQ DENS: 0.9950 g/c
LIQ VISC: 0.7640 cp
RUN TYPE: High Speed

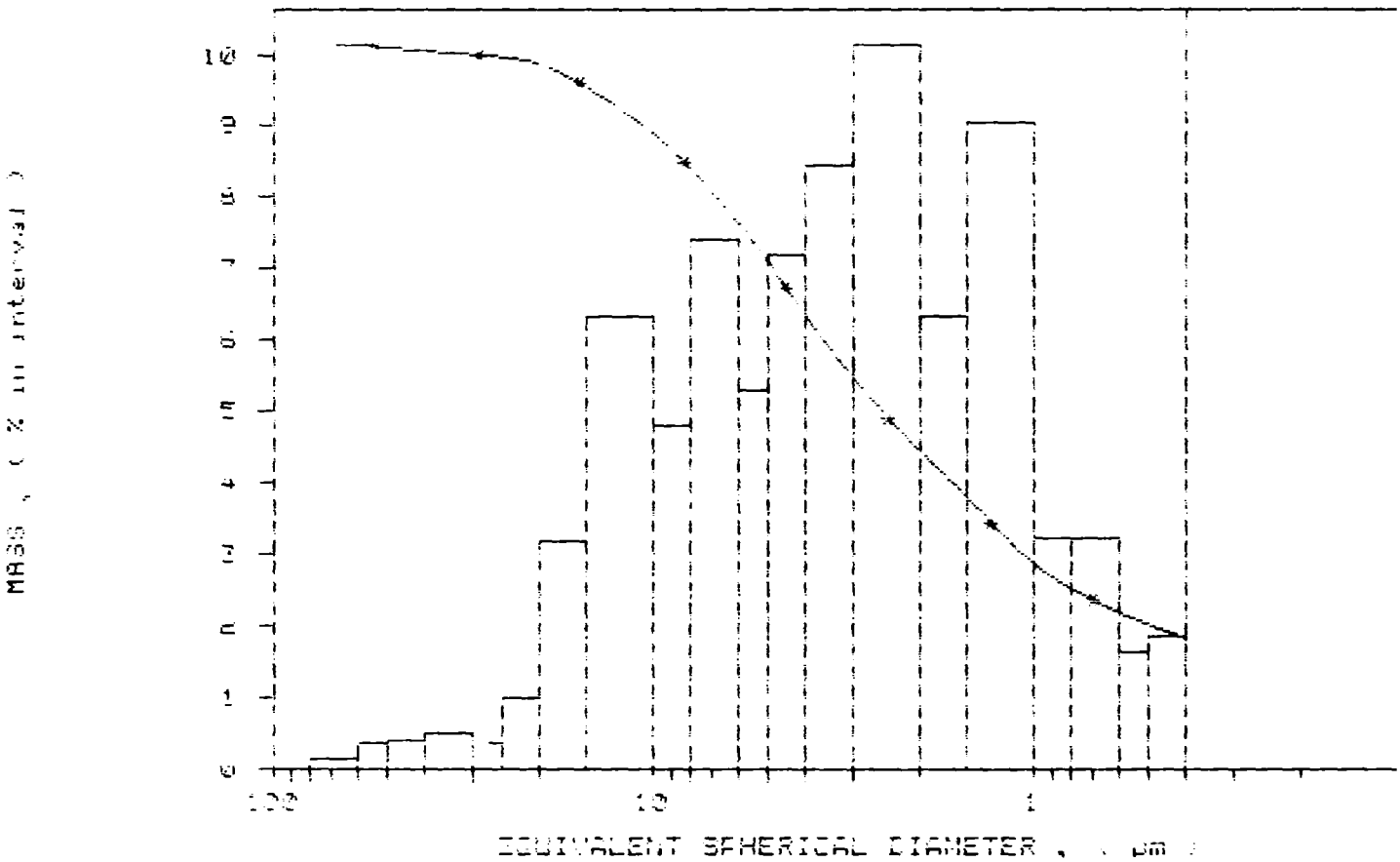
- CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /275
SAMPLE ID: Hole 92-11 # 16751
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 94 kilocounts/sec

UNIT NUMBER: 1
START 09:16:51 10/27/9
REPRT 09:28:55 10/27/9
TOT RUN TIME 0:07:3
SAM DENS: 2.6000 g/c
LIQ DENS: 0.9950 g/c
LIQ VISC: 0.7640 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole 92-11 # 16752

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /276
SAMPLE ID: Hole 92-11 # 16752
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 61 kilocounts/sec

UNIT NUMBER: 1
START 09:39:12 10/27/9
REPRT 09:51:34 10/27/9
TOT RUN TIME 0:07:4
SAM DENS: 2.6000 g/c
LIQ DENS: 0.9950 g/c
LIQ VISC: 0.7639 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.4
FULL SCALE MASS %: 10

MASS DISTRIBUTION

MEDIAN DIAMETER: 3.93 µm

MODAL DIAMETER: 4.52 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	100.3	-0.3
80.00	99.9	0.3
60.00	99.6	0.3
50.00	99.5	0.2
40.00	99.3	0.2
30.00	98.6	0.7
25.00	97.8	0.8
20.00	96.2	1.6
15.00	92.8	3.4
10.00	84.8	8.0
8.00	78.3	6.5
6.00	67.8	10.5
5.00	60.3	7.5
4.00	50.8	9.5
3.00	39.7	11.1
2.00	27.5	12.3
1.50	21.1	6.4
1.00	14.8	6.3
0.80	12.5	2.3
0.60	10.4	2.1
0.50	9.3	1.2
0.40	7.5	1.8

L. Malaschow

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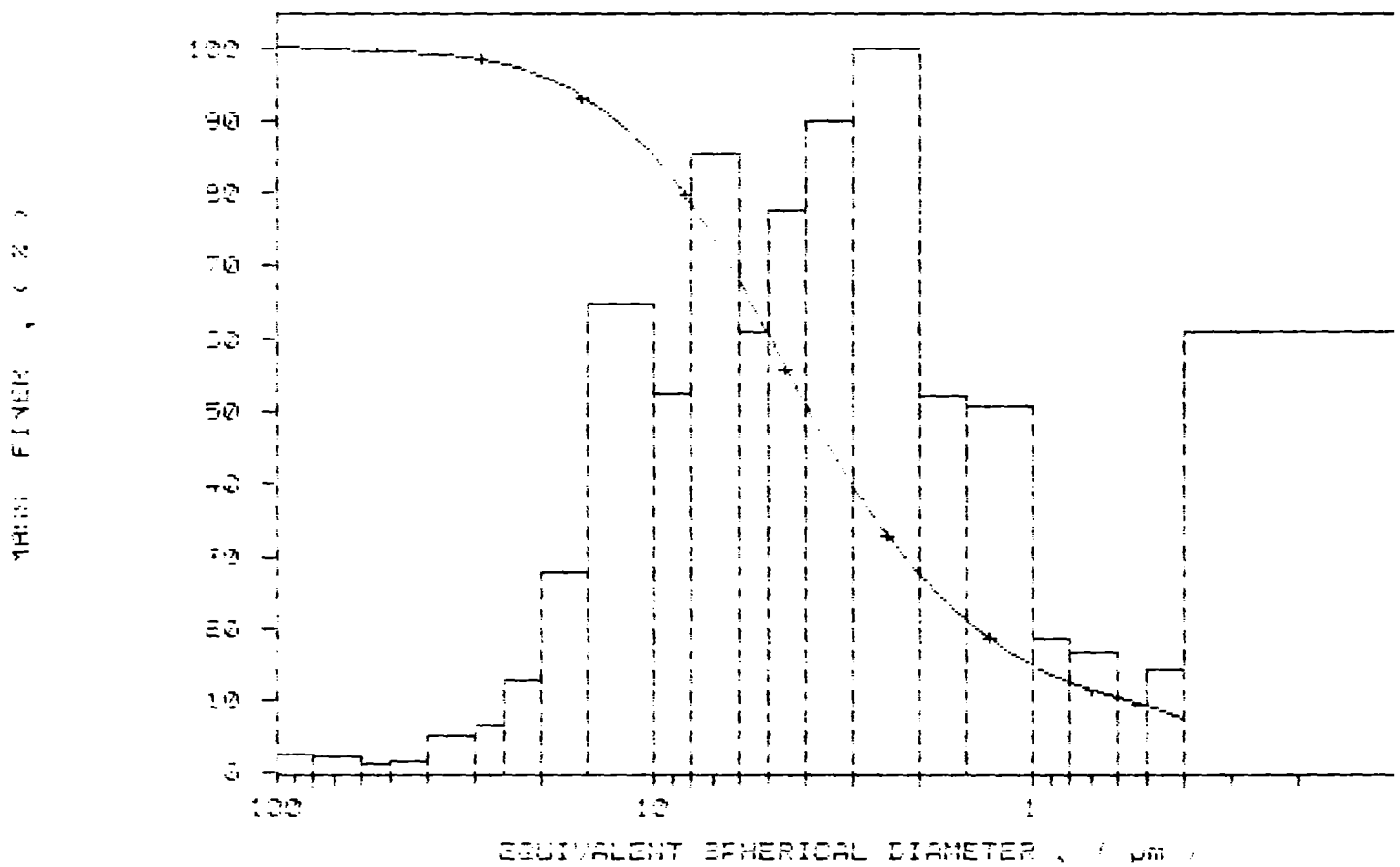
SAMPLE DIRECTORY/NUMBER: DATA7 /276
SAMPLE ID: Hole 92-11 # 16752
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 61 kilocounts/sec

UNIT NUMBER: 1
START 09:39:12 10/27/9
REPRT 09:51:34 10/27/9
TOT RUN TIME 0:07:4
SAM DENS: 2.6000 g/c
LIQ DENS: 0.9950 g/c
LIQ VISC: 0.7639 cp
RUN TYPE: High Speed

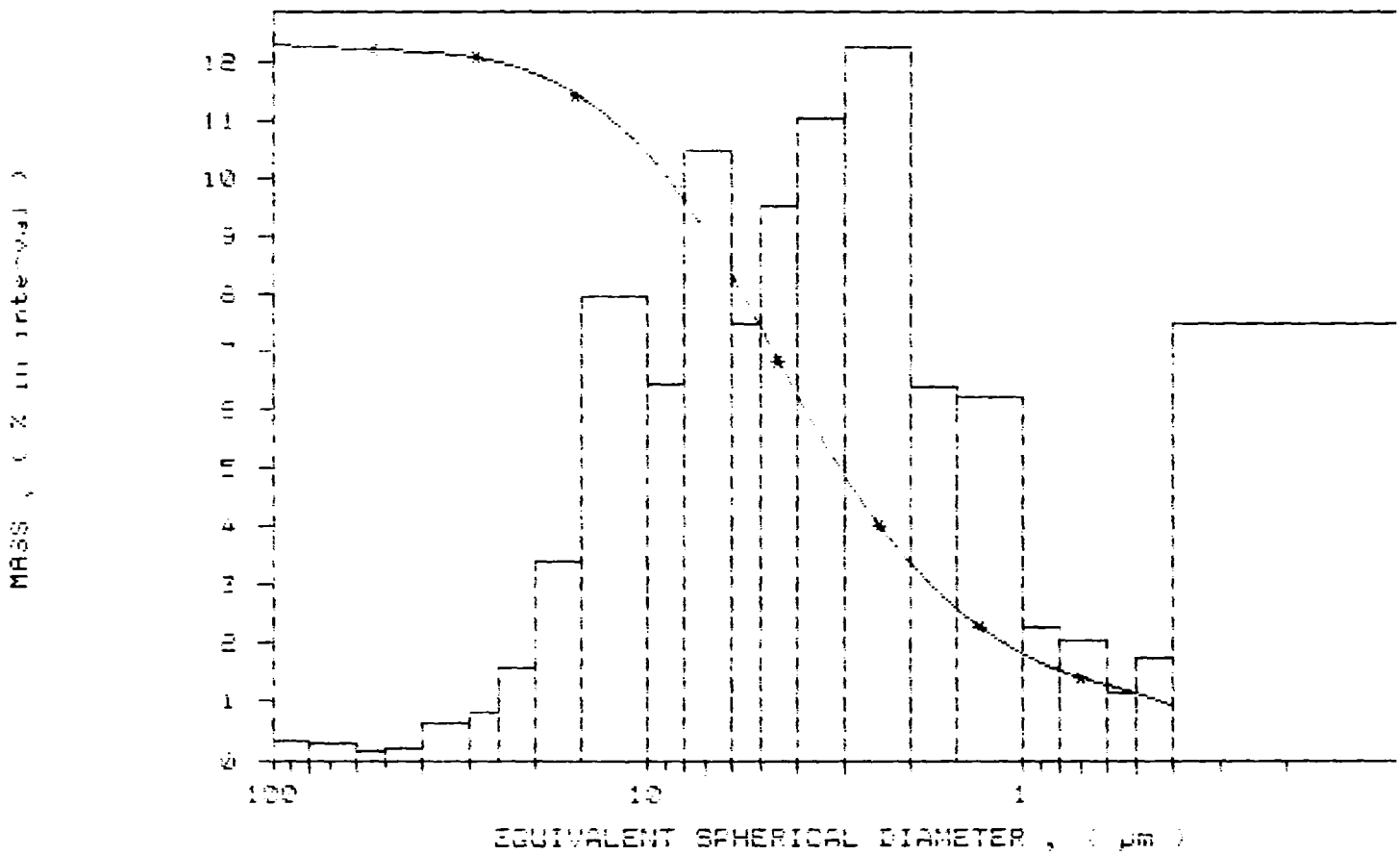
- CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /276
SAMPLE ID: Hole 92-11 # 16752
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 61 kilocounts/sec

UNIT NUMBER: 1
START 09:39:12 10/27/94
REPRT 09:51:34 10/27/94
TOT RUN TIME 0:07:45
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7639 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /277
SAMPLE ID: Hole 92-11 # 16753
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 52 kilocounts/sec

UNIT NUMBER: 1
START 10:00:06 10/27/9
REPRT 10:08:20 10/27/9
TOT RUN TIME 0:07:5
SAM DENS: 2.6000 g/c
LIQ DENS: 0.9950 g/c
LIQ VISC: 0.7638 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.4
FULL SCALE MASS %: 10

MASS DISTRIBUTION

MEDIAN DIAMETER: 3.02 µm
MODAL DIAMETER: 3.45 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	99.5	0.5
80.00	99.4	0.2
60.00	99.2	0.1
50.00	99.2	0.1
40.00	99.1	0.1
30.00	98.8	0.3
25.00	98.5	0.3
20.00	97.7	0.8
15.00	95.7	2.0
10.00	90.3	5.4
8.00	85.9	4.4
6.00	79.1	6.8
5.00	73.7	5.4
4.00	64.4	9.3
3.00	49.6	14.8
2.00	34.6	15.0
1.50	27.1	7.5
1.00	18.0	9.1
0.80	14.5	3.5
0.60	10.9	3.6
0.50	8.9	2.0
0.40	6.9	1.9

K. Malmstrom

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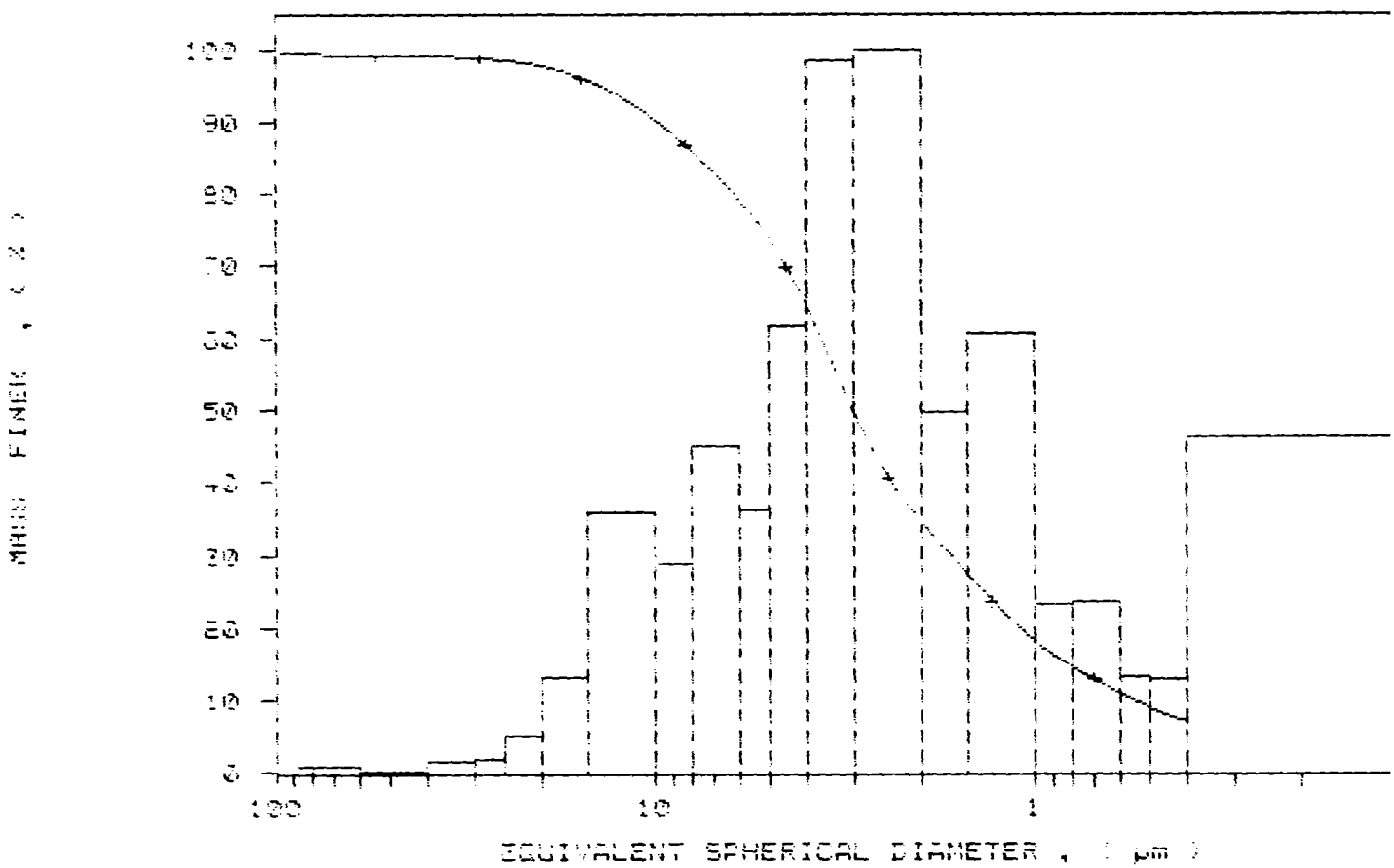
Hole 92-11 # 16753

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /277
SAMPLE ID: Hole 92-11 # 16753
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 52 kilocounts/sec

UNIT NUMBER: 1
START 10:00:06 10/27/9
REPRT 10:08:20 10/27/9
TOT RUN TIME 0:07:5
SAM DENS: 2.6000 g/c
LIQ DENS: 0.9950 g/c
LIQ VISC: 0.7638 cp
RUN TYPE: High Speed

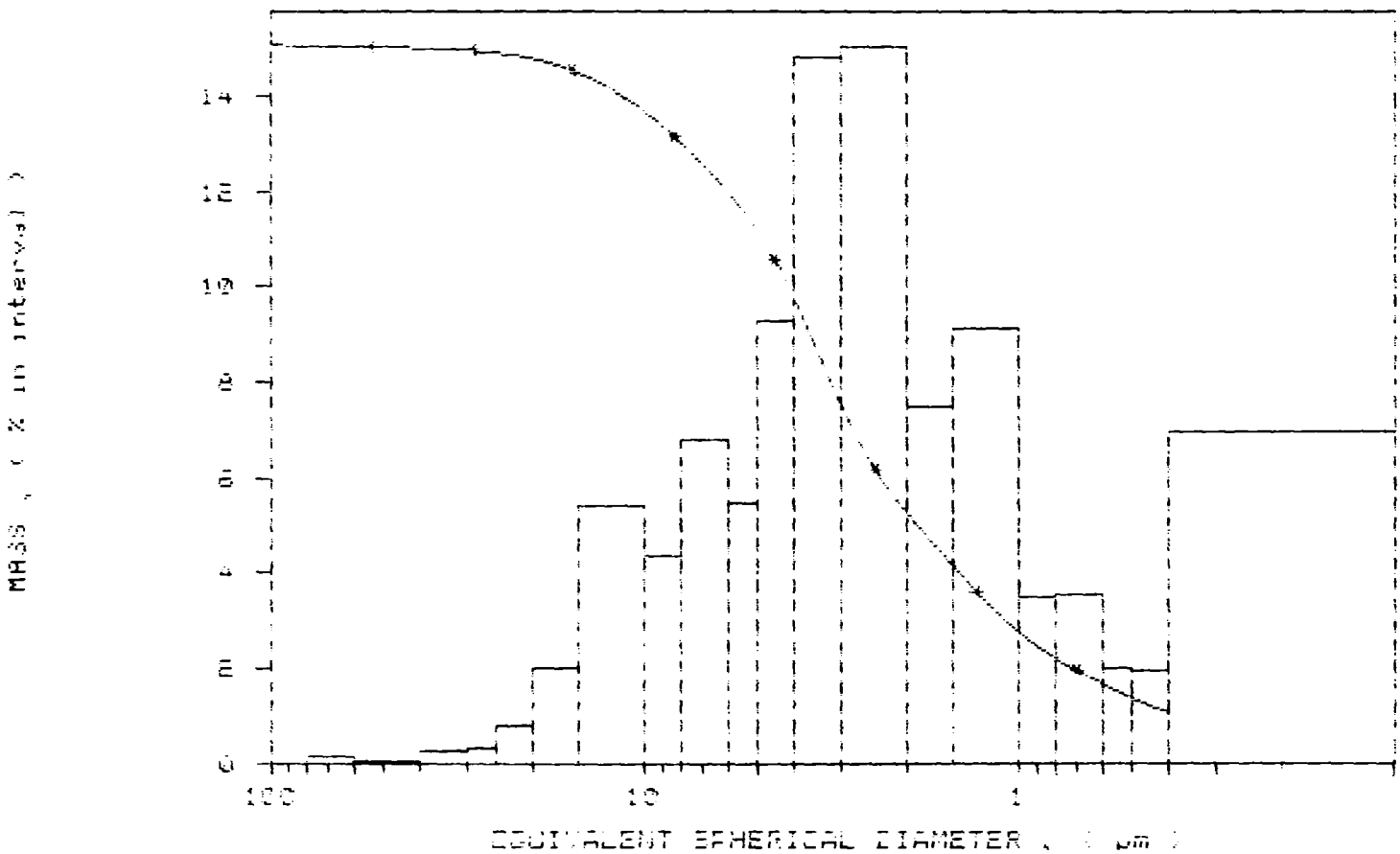
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /277
SAMPLE ID: Hole 92-11 # 16753
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 52 kilocounts/sec

UNIT NUMBER: 1
START 10:00:06 10/27/94
REPRT 10:08:20 10/27/94
TOT RUN TIME 0:07:54
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7638 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole 92-11 # 16754

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /278
SAMPLE ID: Hole 92-11 # 16754
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 60 kilocounts/sec

UNIT NUMBER: 1
START 10:34:59 10/27/94
REPRT 10:47:17 10/27/94
TOT RUN TIME 0:07:46
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7638 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.62 µm
MODAL DIAMETER: 3.77 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	100.2	-0.2
80.00	100.0	0.2
60.00	99.8	0.2
50.00	99.7	0.1
40.00	99.6	0.1
30.00	99.2	0.4
25.00	98.8	0.4
20.00	98.3	0.5
15.00	97.3	1.0
10.00	93.1	4.2
8.00	88.9	4.1
6.00	81.3	7.6
5.00	75.2	6.2
4.00	66.5	8.7
3.00	54.9	11.6
2.00	41.3	13.6
1.50	33.6	7.7
1.00	24.5	9.1
0.80	20.3	4.2
0.60	16.0	4.3
0.50	13.8	2.2
0.40	11.4	2.4

DATE H. Malmstrom

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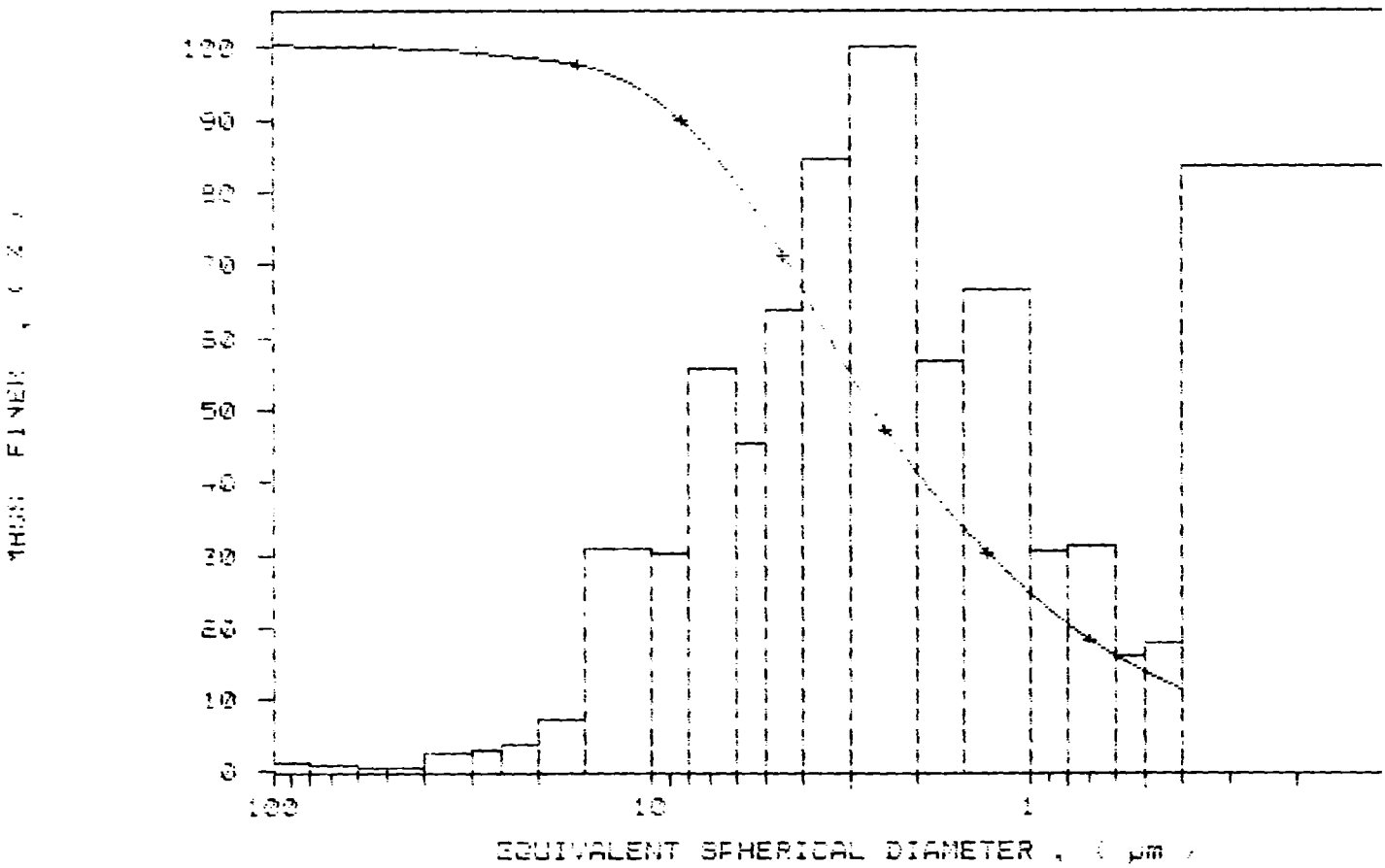
Hole 92-11 # 16754

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /278
SAMPLE ID: Hole 92-11 # 16754
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 60 kilocounts/sec

UNIT NUMBER: 1
START 10:34:59 10/27/
REPRT 10:47:17 10/27/
TOT RUN TIME 0:07:
SAM DENS: 2.6000 g/
LIQ DENS: 0.9950 g/
LIQ VISC: 0.7638 cp
RUN TYPE: High Speed

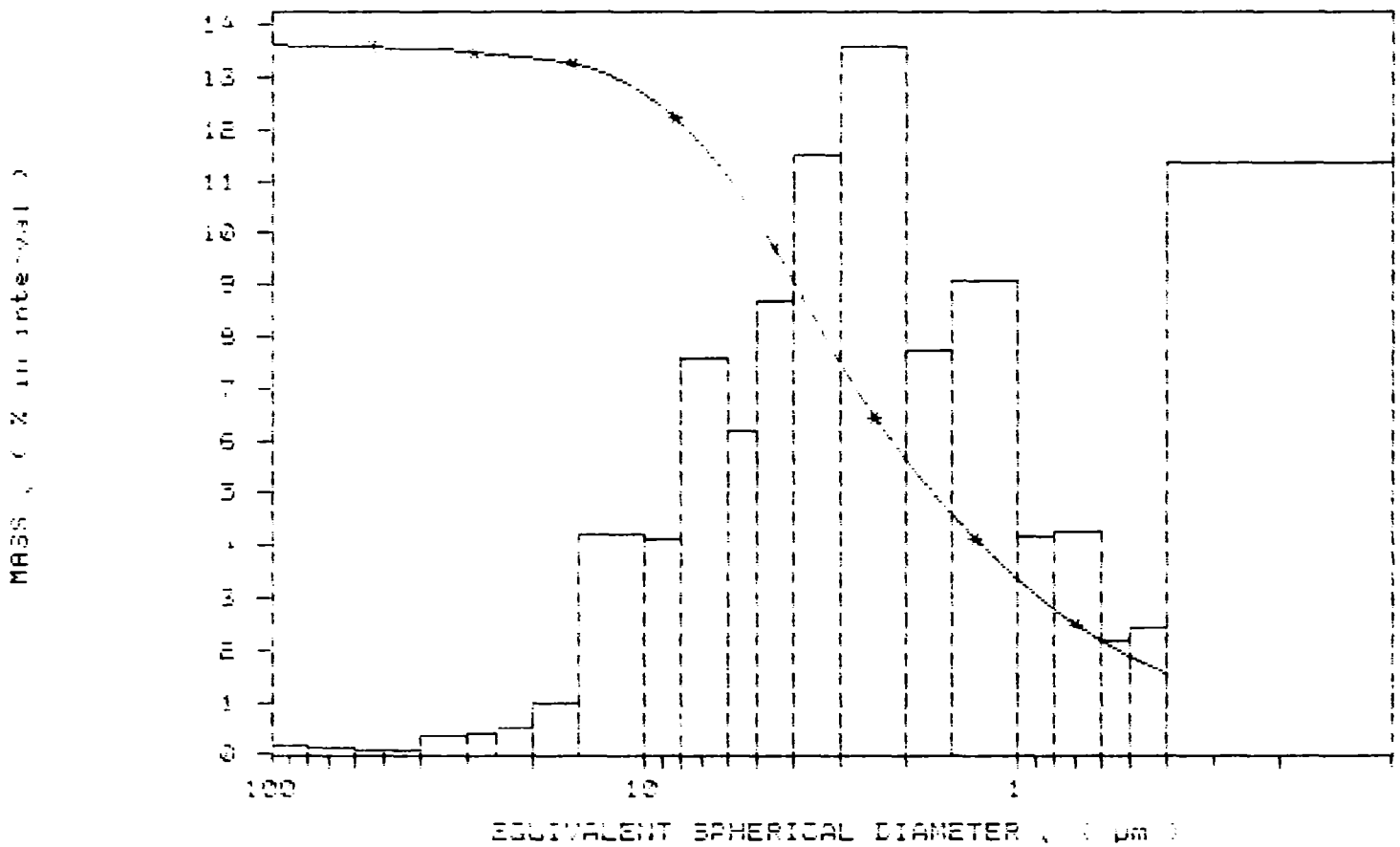
- CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /278
SAMPLE ID: Hole 92-11 # 16754
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 60 kilocounts/sec

UNIT NUMBER: 1
START 10:34:59 10/27/94
REPRT 10:47:17 10/27/94
TOT RUN TIME 0:07:46
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7638 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /279
SAMPLE ID: Hole 92-11 # 16755
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 63 kilocounts/sec

UNIT NUMBER: 1
START 11:14:40 10/27/9
REPRT 11:22:50 10/27/9
TOT RUN TIME 0:07:4
SAM DENS: 2.6000 g/c
LIQ DENS: 0.9950 g/c
LIQ VISC: 0.7639 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.4
FULL SCALE MASS %: 10

MASS DISTRIBUTION

MEDIAN DIAMETER: 4.85 µm
MODAL DIAMETER: 5.78 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	99.9	0.1
80.00	99.9	-0.1
60.00	99.8	0.1
50.00	99.5	0.3
40.00	99.1	0.4
30.00	98.7	0.4
25.00	97.7	1.0
20.00	94.7	3.0
15.00	88.1	6.6
10.00	75.4	12.6
8.00	67.6	7.8
6.00	57.6	10.1
5.00	51.1	6.5
4.00	43.6	7.5
3.00	35.2	8.4
2.00	25.6	9.5
1.50	20.1	5.5
1.00	14.2	5.9
0.80	12.1	2.1
0.60	10.2	1.8
0.50	9.3	0.9
0.40	8.2	1.1

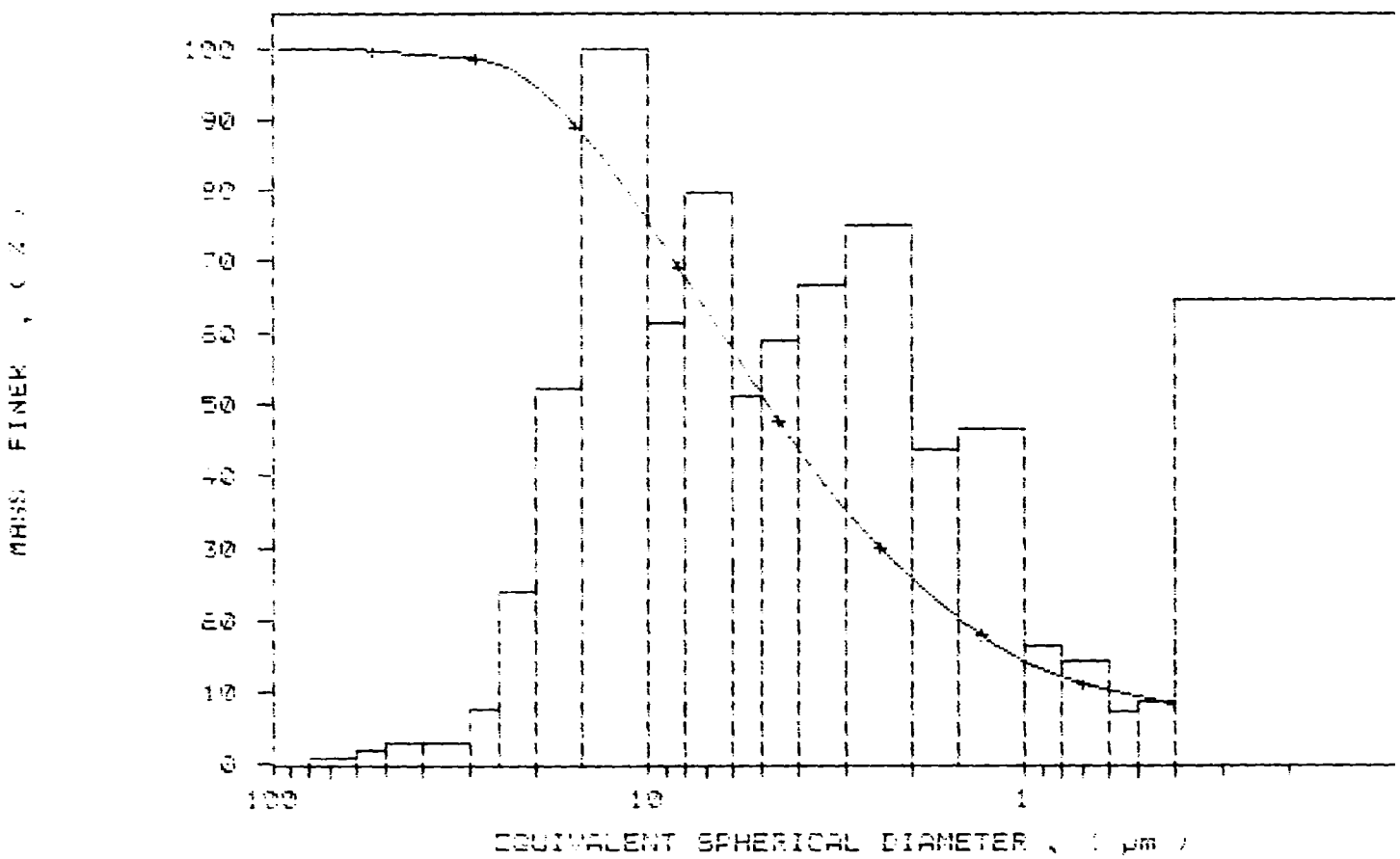
K Malu Brown

000078

SAMPLE DIRECTORY/NUMBER: DATA7 /279
SAMPLE ID: Hole 92-11 # 16755
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 63 kilocounts/sec

UNIT NUMBER: 1
START 11:14:40 10/27/9
REPRT 11:22:50 10/27/9
TOT RUN TIME 0:07:4
SAM DENS: 2.6000 g/c
LIQ DENS: 0.9950 g/c
LIQ VISC: 0.7639 cp
RUN TYPE: High Speed

- CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



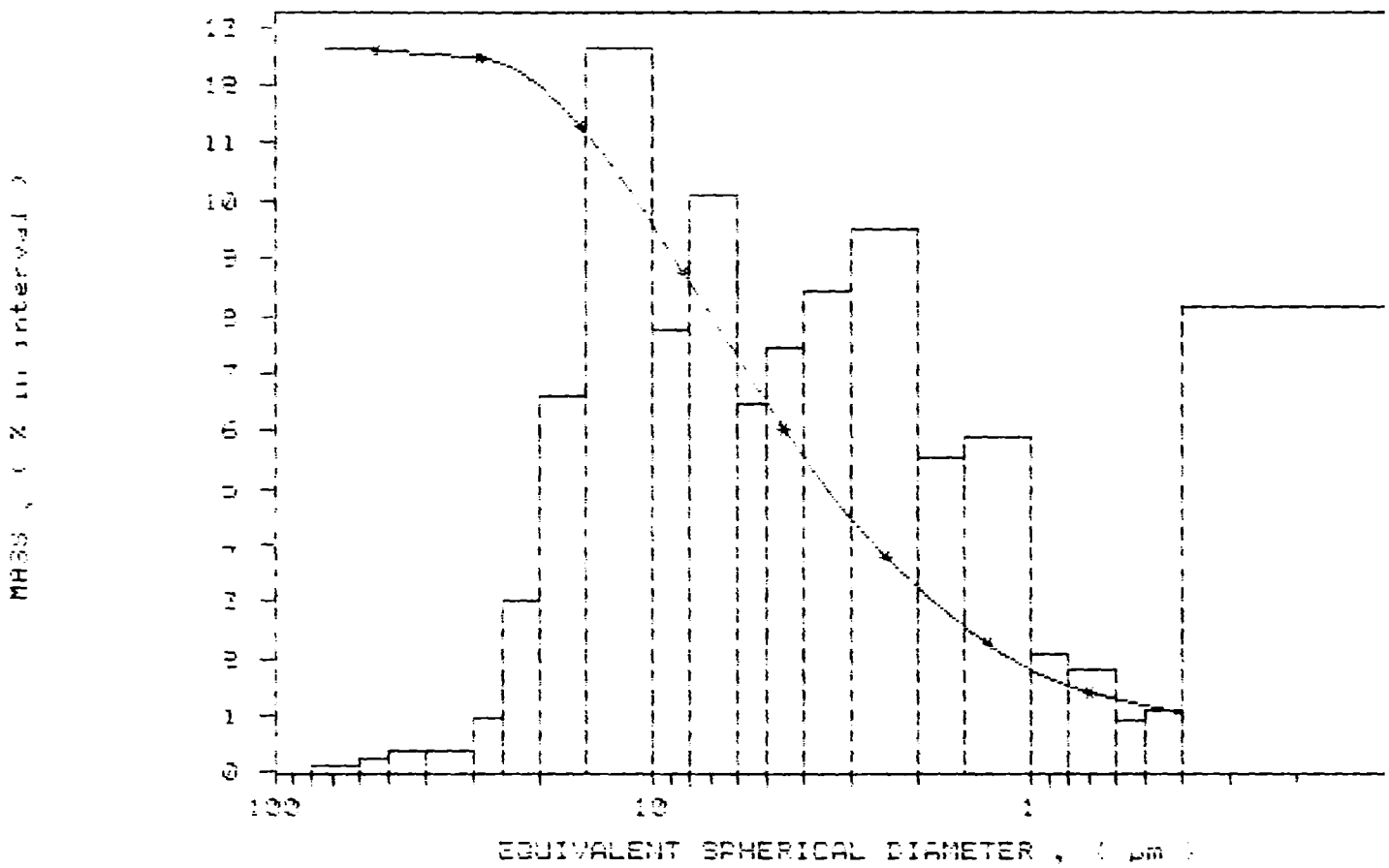
Hole 92-11 # 16755

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /279
SAMPLE ID: Hole 92-11 # 16755
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 63 kilocounts/sec

UNIT NUMBER: 1
START 11:14:40 10/27/9
REPRT 11:22:50 10/27/9
TOT RUN TIME 0:07:4
SAM DENS: 2.6000 g/c
LIQ DENS: 0.9950 g/c
LIQ VISC: 0.7639 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole 92-11 # 16756

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /280
SAMPLE ID: Hole 92-11 # 16756
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 50 kilocounts/sec

UNIT NUMBER: 1
START 12:55:28 10/27/94
REPRT 13:07:18 10/27/94
TOT RUN TIME 0:07:18
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7631 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.86 µm

MODAL DIAMETER: 3.91 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	99.4	0.6
80.00	99.5	-0.1
60.00	99.6	-0.1
50.00	99.7	-0.1
40.00	99.7	-0.0
30.00	99.6	0.1
25.00	99.4	0.2
20.00	99.0	0.4
15.00	97.6	1.4
10.00	92.9	4.7
8.00	88.4	4.5
6.00	80.1	8.3
5.00	73.4	6.7
4.00	64.0	9.4
3.00	51.9	12.1
2.00	37.3	14.6
1.50	29.1	8.2
1.00	20.1	9.0
0.80	16.3	3.8
0.60	12.9	3.5
0.50	11.2	1.7
0.40	9.4	1.7

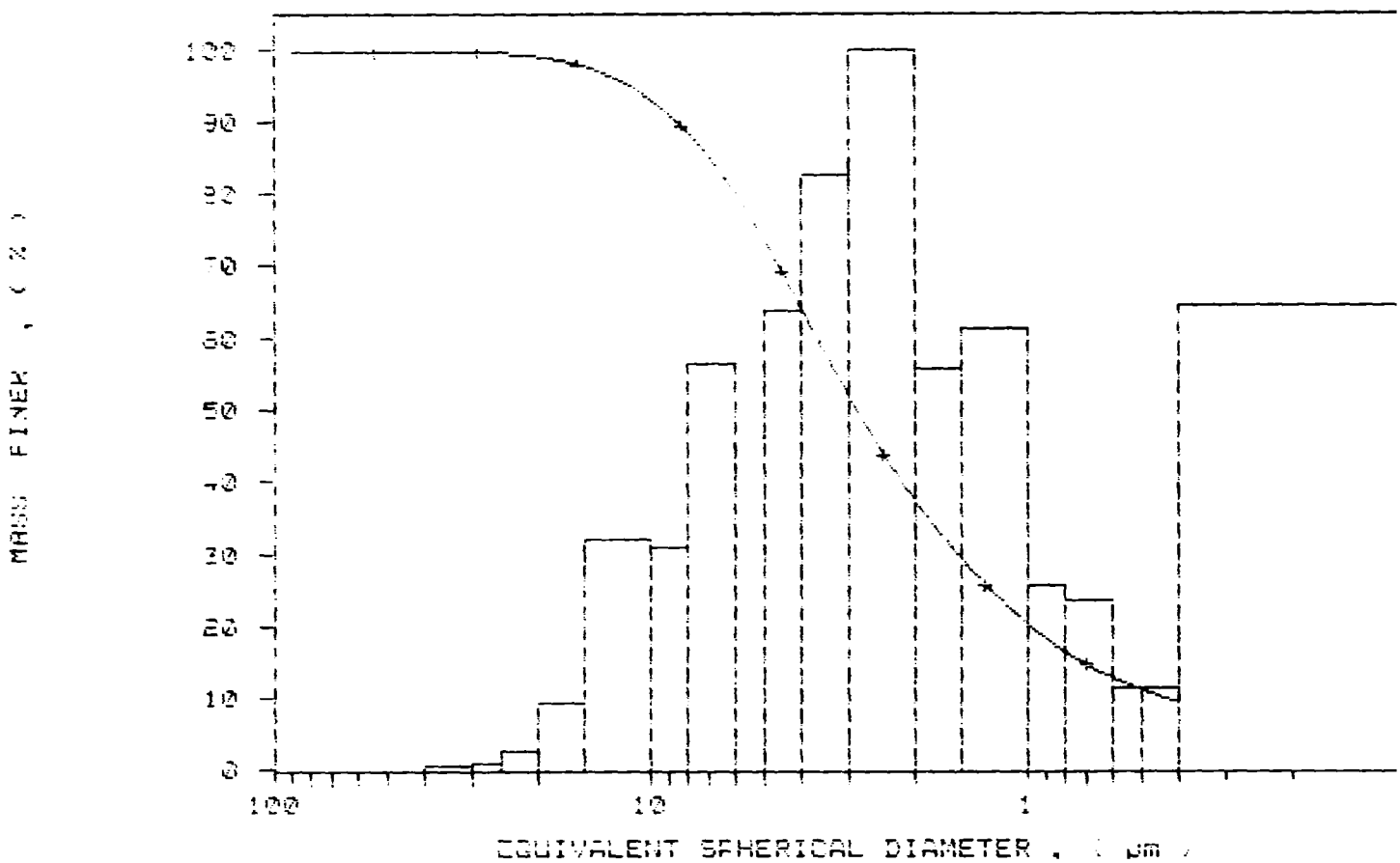
K. Mallestron

000078

SAMPLE DIRECTORY/NUMBER: DATA7 /280
SAMPLE ID: Hole 92-11 # 16756
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 50 kilocounts/sec

UNIT NUMBER: 1
START 12:55:28 10/27/9
REPRT 13:07:18 10/27/9
TOT RUN TIME 0:07:1
SAM DENS: 2.6000 g/c
LIQ DENS: 0.9950 g/c
LIQ VISC: 0.7631 cp
RUN TYPE: High Speed

+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /281
SAMPLE ID: Hole 92-11 # 16757
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 62 kilocounts/sec

UNIT NUMBER: 1
START 13:15:23 10/27/9
REPRT 13:23:01 10/27/9
TOT RUN TIME 0:07:1
SAM DENS: 2.6000 g/c
LIQ DENS: 0.9950 g/c
LIQ VISC: 0.7626 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.5
FULL SCALE MASS %: 10

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.80 µm

MODAL DIAMETER: 4.02 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	100.3	-0.3
80.00	100.1	0.2
60.00	99.7	0.4
50.00	99.3	0.4
40.00	98.8	0.5
30.00	98.2	0.6
25.00	97.6	0.5
20.00	96.3	1.3
15.00	92.8	3.5
10.00	85.4	7.4
8.00	80.3	5.1
6.00	73.0	7.3
5.00	67.8	5.2
4.00	60.9	6.9
3.00	52.1	8.8
2.00	40.7	11.4
1.50	33.7	7.0
1.00	25.0	8.7
0.80	21.3	3.7
0.60	17.5	3.8
0.50	15.5	2.0
0.40	13.3	2.2

L. Malue Sloan

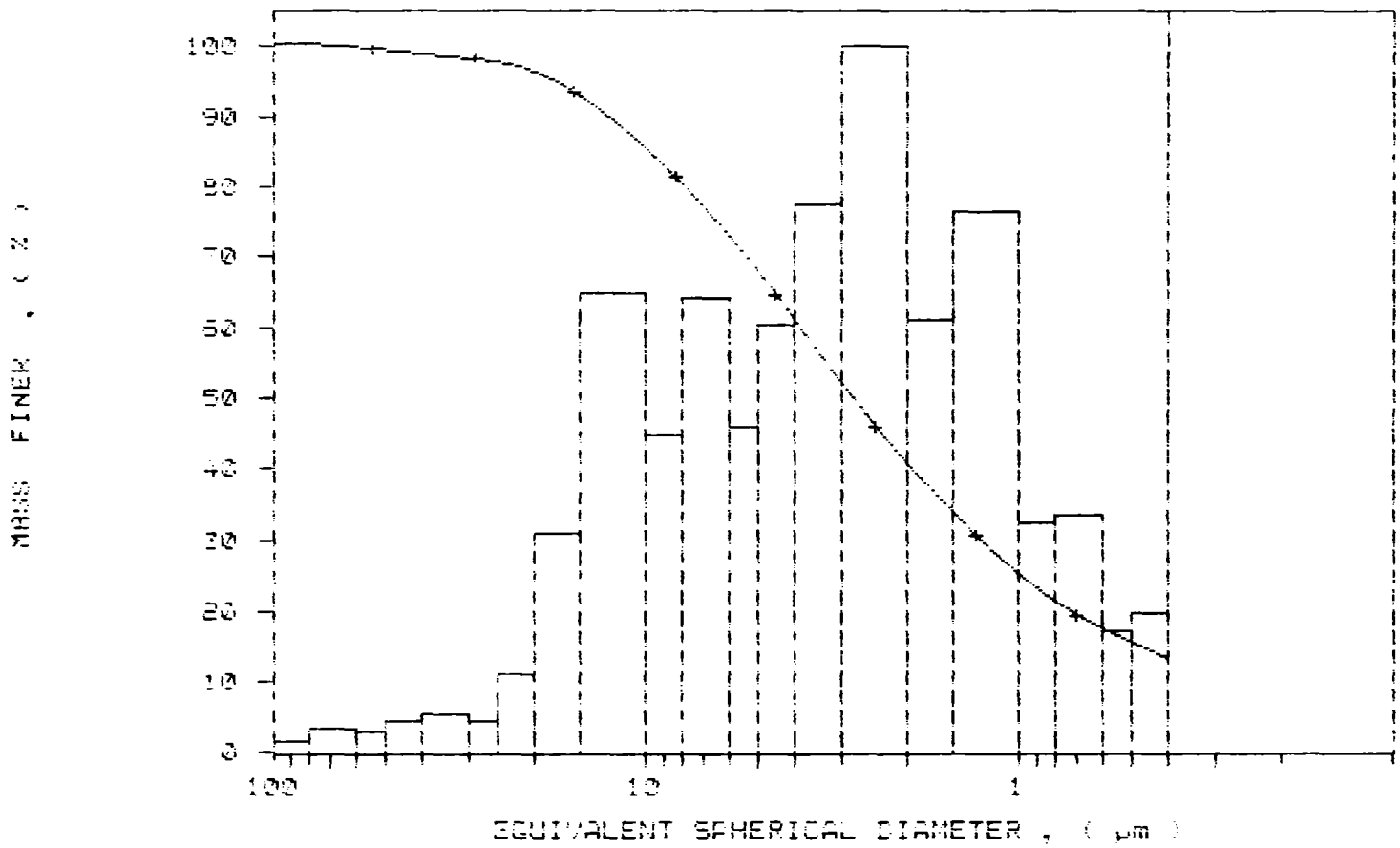
Hole 92-11 # 16757

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /281
SAMPLE ID: Hole 92-11 # 16757
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 62 kilocounts/sec

UNIT NUMBER: 1
START 13:15:23 10/27/94
REPRT 13:23:01 10/27/94
TOT RUN TIME 0:07:17
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7626 cp
RUN TYPE: High Speed

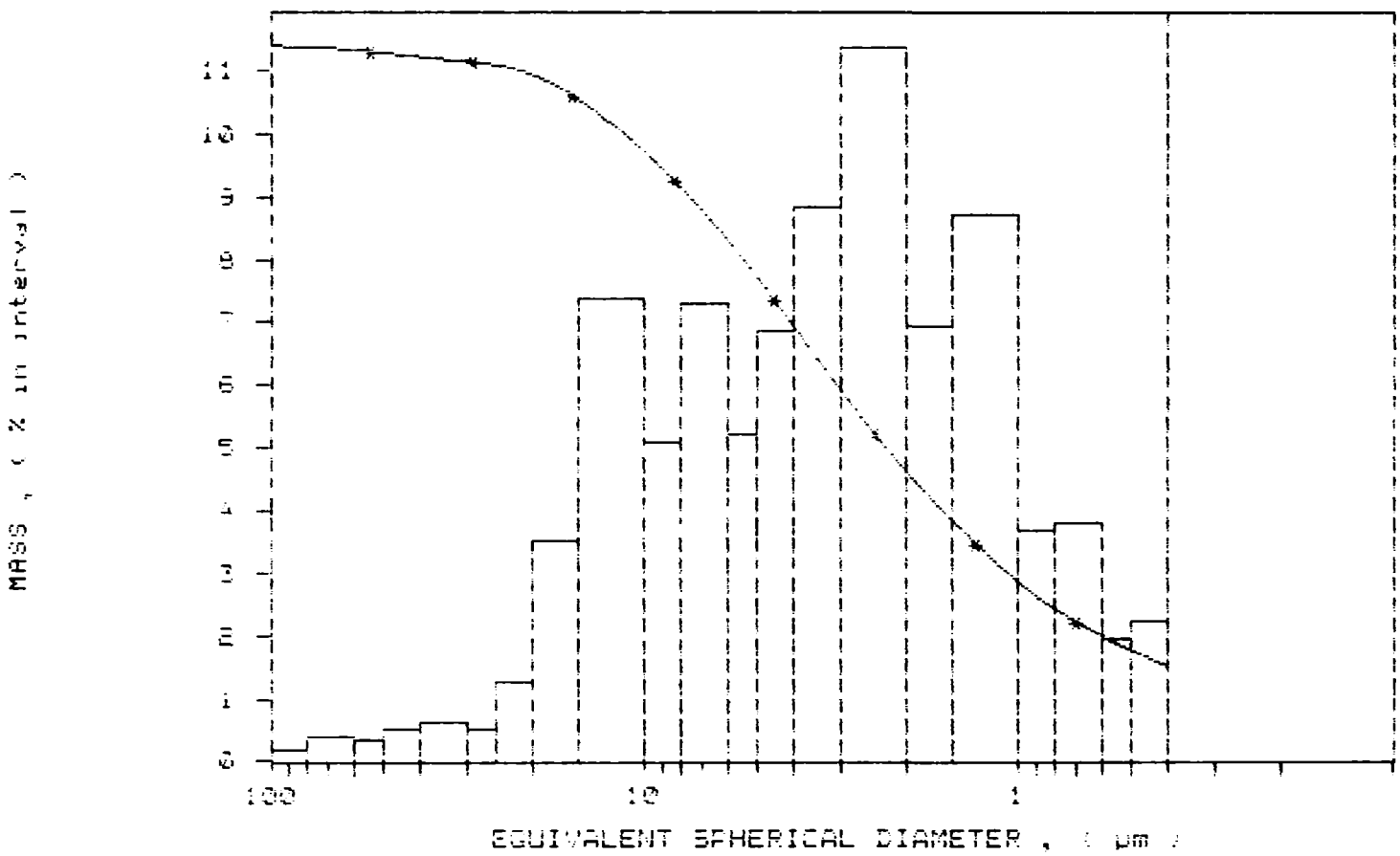
- CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /281
SAMPLE ID: Hole 92-11 # 16757
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 62 kilocounts/sec

UNIT NUMBER: 1
START 13:15:23 10/27/94
REPRT 13:23:01 10/27/94
TOT RUN TIME 0:07:17
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7626 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole 92-11 # 16758

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /282
SAMPLE ID: Hole 92-11 # 16758
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 109 kilocounts/sec

UNIT NUMBER: 1
START 13:54:30 10/27/94
REPRT 14:02:28 10/27/94
TOT RUN TIME 0:07:39
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7626 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.50
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.13 µm

MODAL DIAMETER: 0.56 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	95.0	5.0
80.00	95.0	0.1
60.00	95.9	-0.9
50.00	97.2	-1.3
40.00	98.6	-1.4
30.00	98.4	0.2
25.00	96.9	1.5
20.00	94.7	2.2
15.00	92.0	2.7
10.00	87.5	4.5
8.00	84.0	3.5
6.00	79.7	4.3
5.00	77.3	2.4
4.00	73.6	3.7
3.00	69.4	4.2
2.00	62.4	7.0
1.50	56.1	6.2
1.00	47.2	8.9
0.80	41.9	5.3
0.60	34.4	7.5
0.50	29.1	5.3
0.40	23.3	5.8

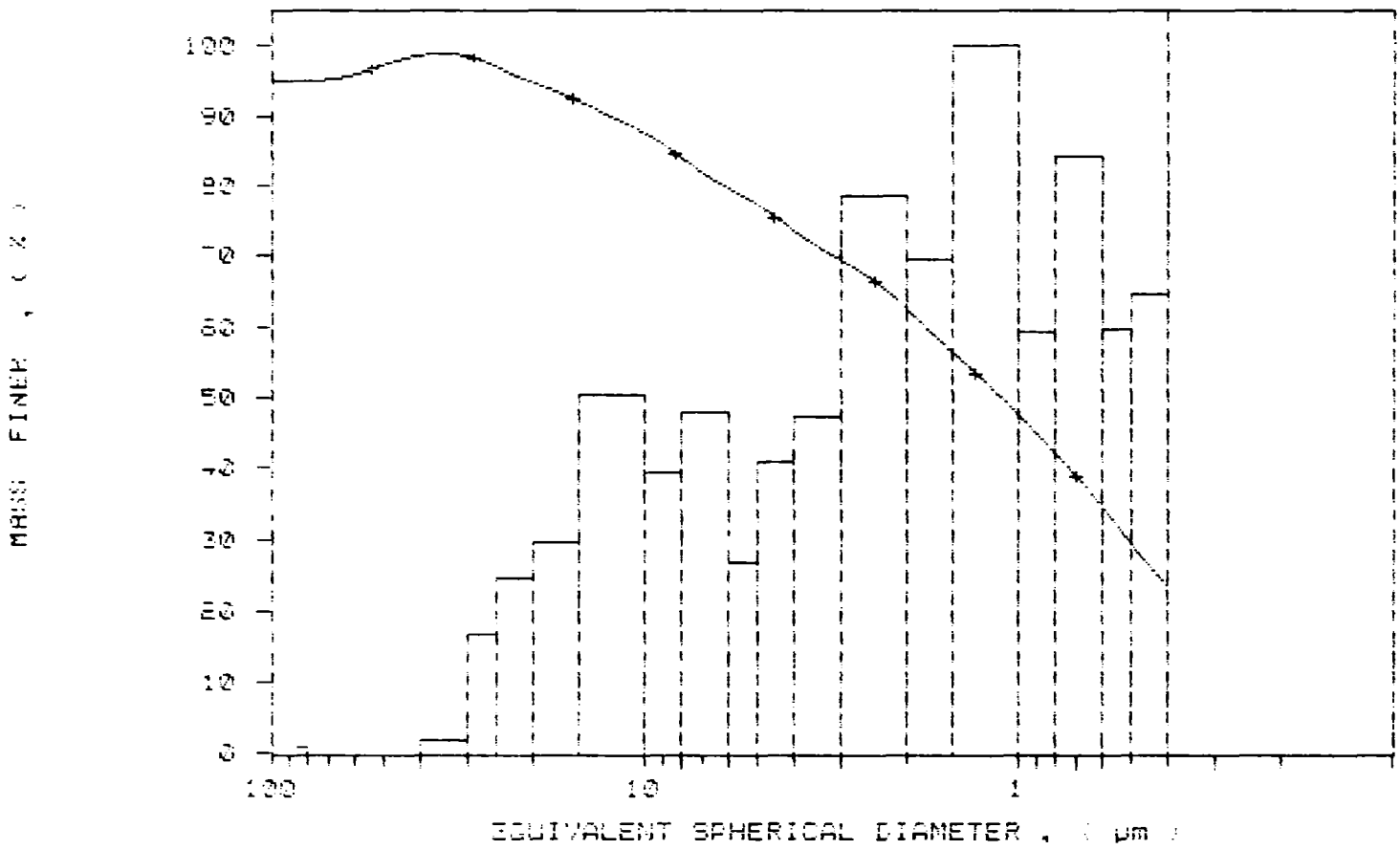
K. Malu Troin

000078

SAMPLE DIRECTORY/NUMBER: DATA7 /282
SAMPLE ID: Hole 92-11 # 16758
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 109 kilocounts/sec

UNIT NUMBER: 1
START 13:54:30 10/27/94
REPRT 14:02:28 10/27/94
TOT RUN TIME 0:07:39
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7626 cp
RUN TYPE: High Speed

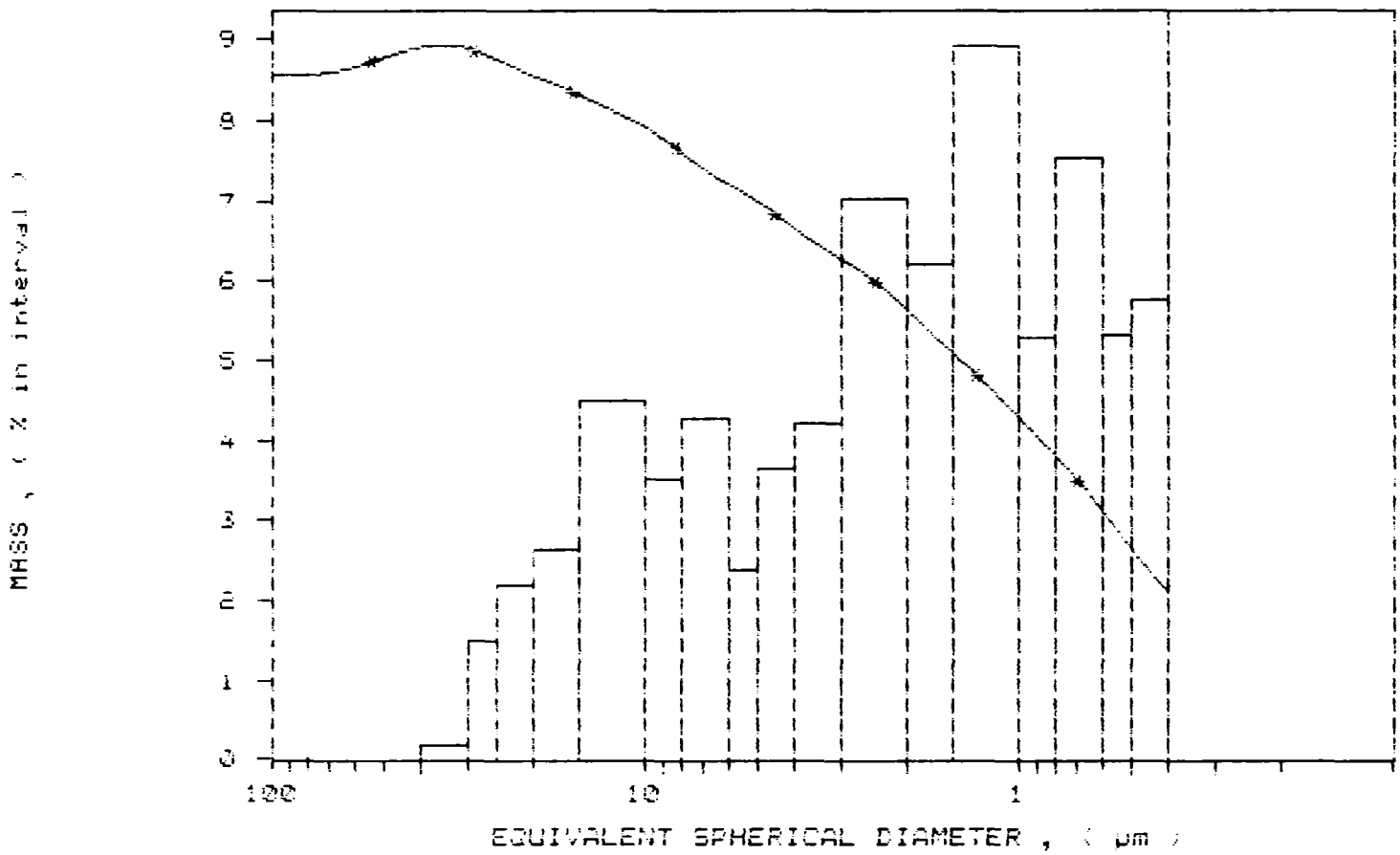
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /282
SAMPLE ID: Hole 92-11 # 16758
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 109 kilocounts/sec

UNIT NUMBER: 1
START 13:54:30 10/27/94
REPRT 14:02:28 10/27/94
TOT RUN TIME 0:07:39
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7626 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole 92-11 # 16759

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /283
SAMPLE ID: Hole 92-11 # 16759
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.4 deg C
BASELINE/FULL SCALE: 130/ 98 kilocounts/sec

UNIT NUMBER: 1
START 14:14:35 10/27/94
REPRT 14:22:30 10/27/94
TOT RUN TIME 0:07:35
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7624 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.50
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.44 µm

MODAL DIAMETER: 5.52 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	99.0	1.0
80.00	99.1	-0.1
60.00	99.1	0.0
50.00	98.9	0.2
40.00	98.2	0.7
30.00	97.0	1.2
25.00	95.9	1.1
20.00	93.6	2.3
15.00	89.7	3.9
10.00	81.7	8.1
8.00	77.2	4.5
6.00	70.5	6.6
5.00	66.0	4.5
4.00	60.7	5.3
3.00	54.3	6.4
2.00	46.1	8.2
1.50	41.1	5.1
1.00	33.8	7.3
0.80	30.6	3.2
0.60	27.1	3.5
0.50	25.2	1.9
0.40	23.7	1.5

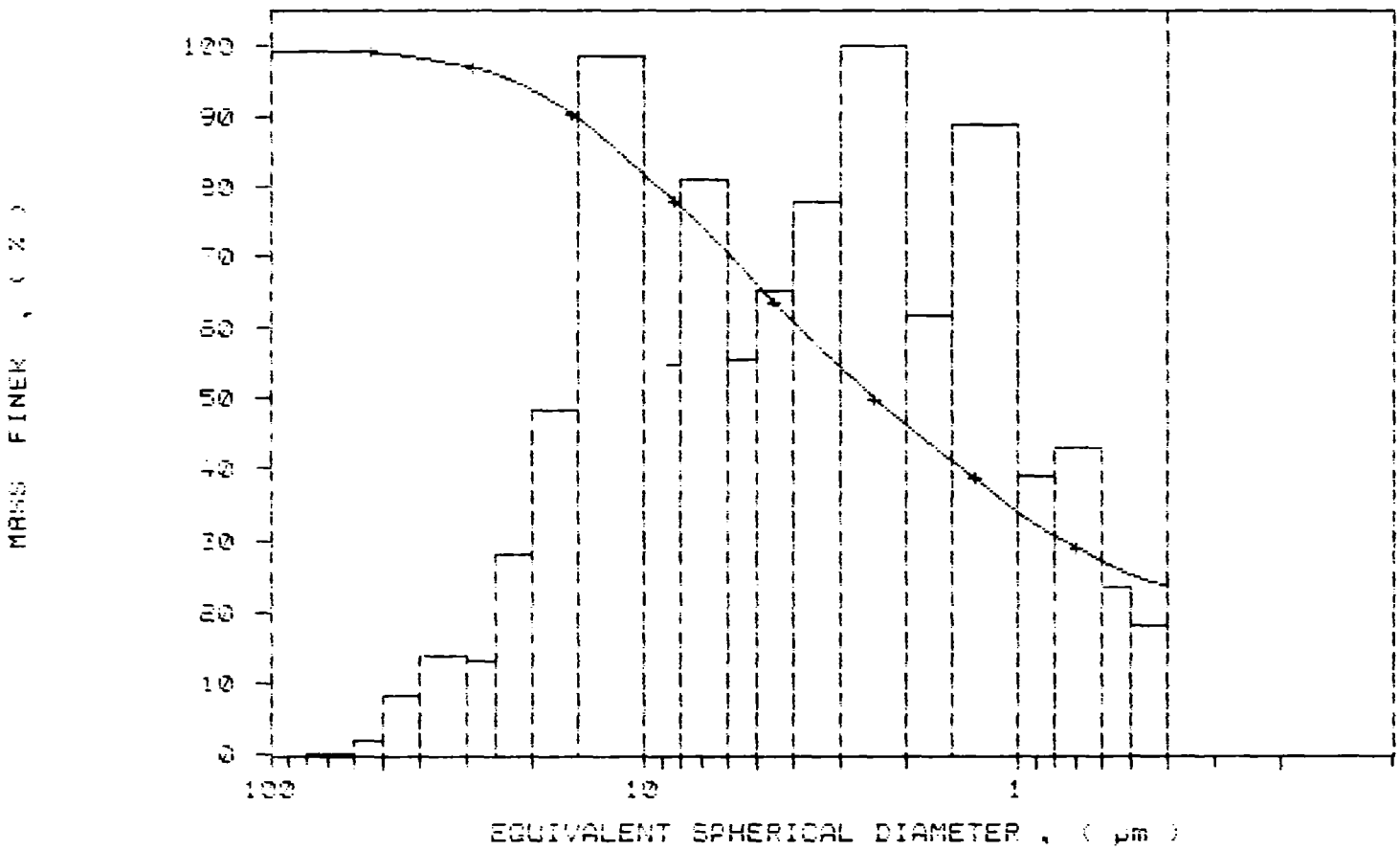
L. Malmstrom

000078

SAMPLE DIRECTORY/NUMBER: DATA7 /283
SAMPLE ID: Hole 92-11 # 16759
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.4 deg C
BASELINE/FULL SCALE: 130/ 98 kilocounts/sec

UNIT NUMBER: 1
START 14:14:35 10/27/94
REPRT 14:22:30 10/27/94
TOT RUN TIME 0:07:35
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7624 cp
RUN TYPE: High Speed

+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



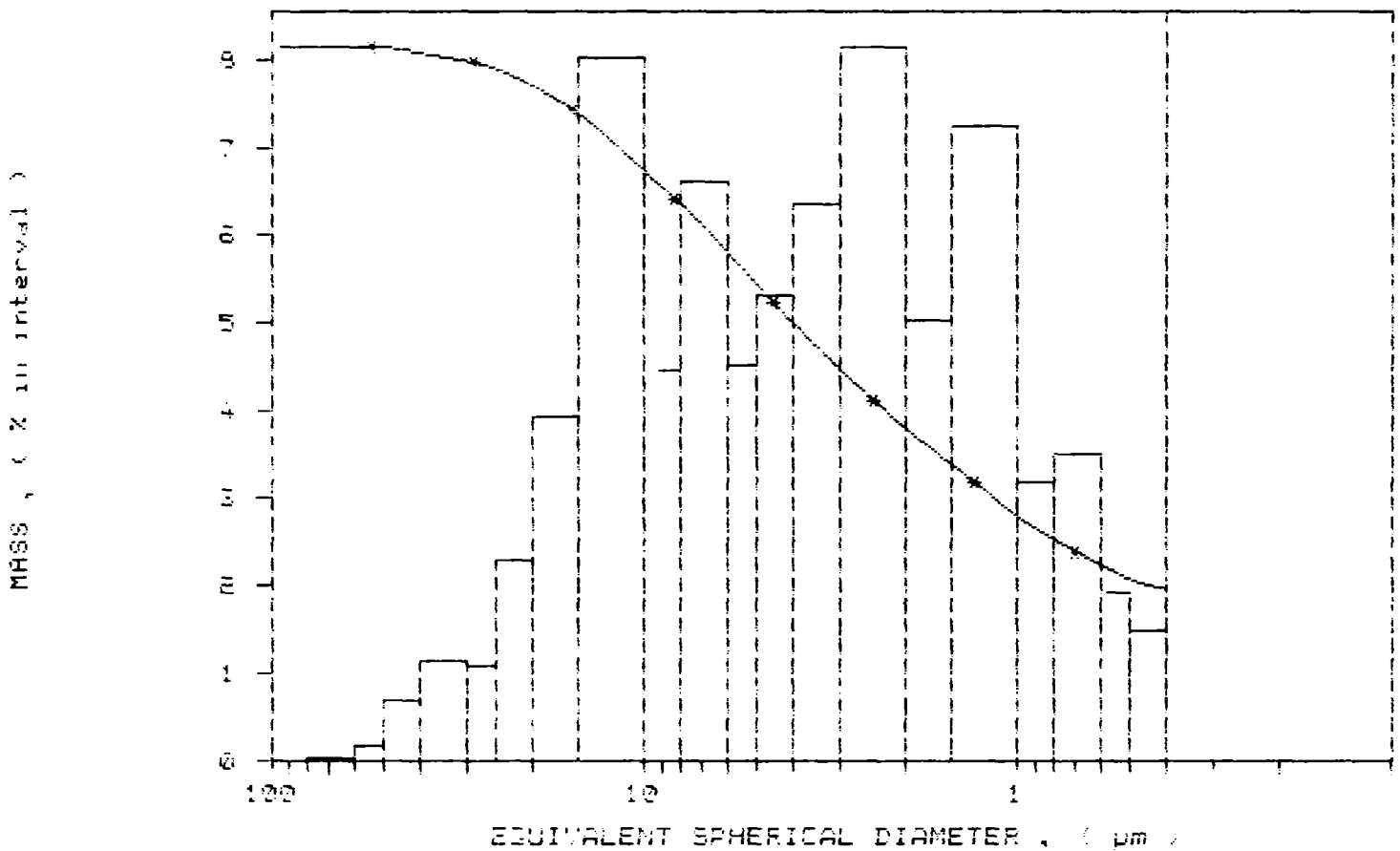
Hole 92-11 # 16759

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /283
SAMPLE ID: Hole 92-11 # 16759
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.4 deg C
BASELINE/FULL SCALE: 130/ 98 kilocounts/sec

UNIT NUMBER: 1
START 14:14:35 10/27/94
REPRT 14:22:30 10/27/94
TOT RUN TIME 0:07:35
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7624 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole 92-11 # 16760

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /284
SAMPLE ID: Hole 92-11 # 16760
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 113 kilocounts/sec

UNIT NUMBER: 1
START 15:23:32 10/27/94
REPRT 15:35:25 10/27/94
TOT RUN TIME 0:07:20
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7634 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.07 µm

MODAL DIAMETER: 1.85 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	99.1	0.9
80.00	96.3	2.8
60.00	94.5	1.8
50.00	94.9	-0.4
40.00	95.8	-0.9
30.00	96.8	-1.0
25.00	96.7	0.0
20.00	95.2	1.6
15.00	92.8	2.3
10.00	89.5	3.3
8.00	85.9	3.7
6.00	81.5	4.4
5.00	78.7	2.8
4.00	74.8	3.9
3.00	70.1	4.7
2.00	62.8	7.3
1.50	56.7	6.2
1.00	48.6	8.1
0.80	44.1	4.5
0.60	39.8	4.3
0.50	37.7	2.0
0.40	35.9	1.8

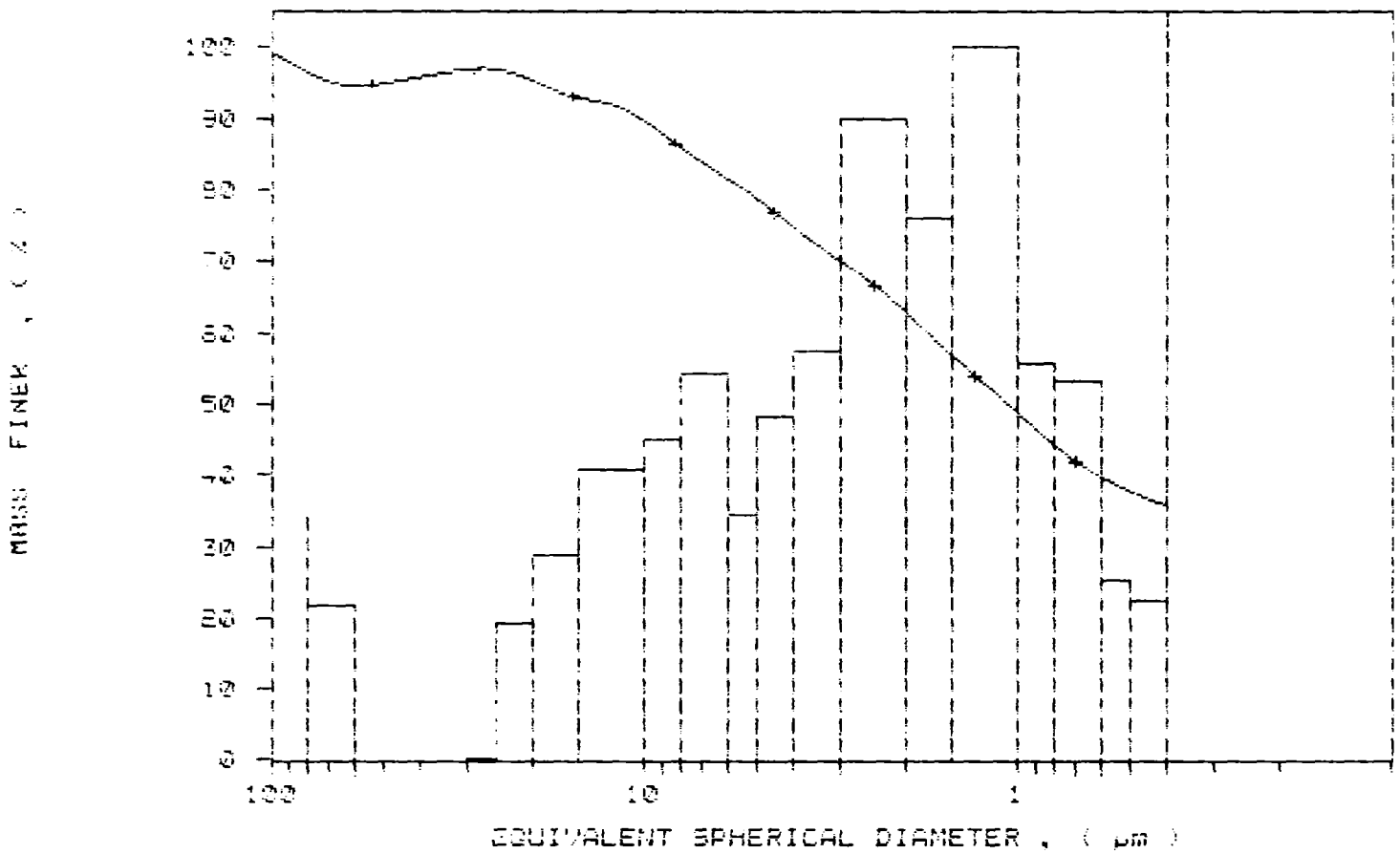
DATE K. Malmstrom

000078

SAMPLE DIRECTORY/NUMBER: DATA7 /284
SAMPLE ID: Hole 92-11 # 16760
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 113 kilocounts/sec

UNIT NUMBER: 1
START 15:23:32 10/27/94
REPRT 15:35:25 10/27/94
TOT RUN TIME 0:07:20
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7634 cp
RUN TYPE: High Speed

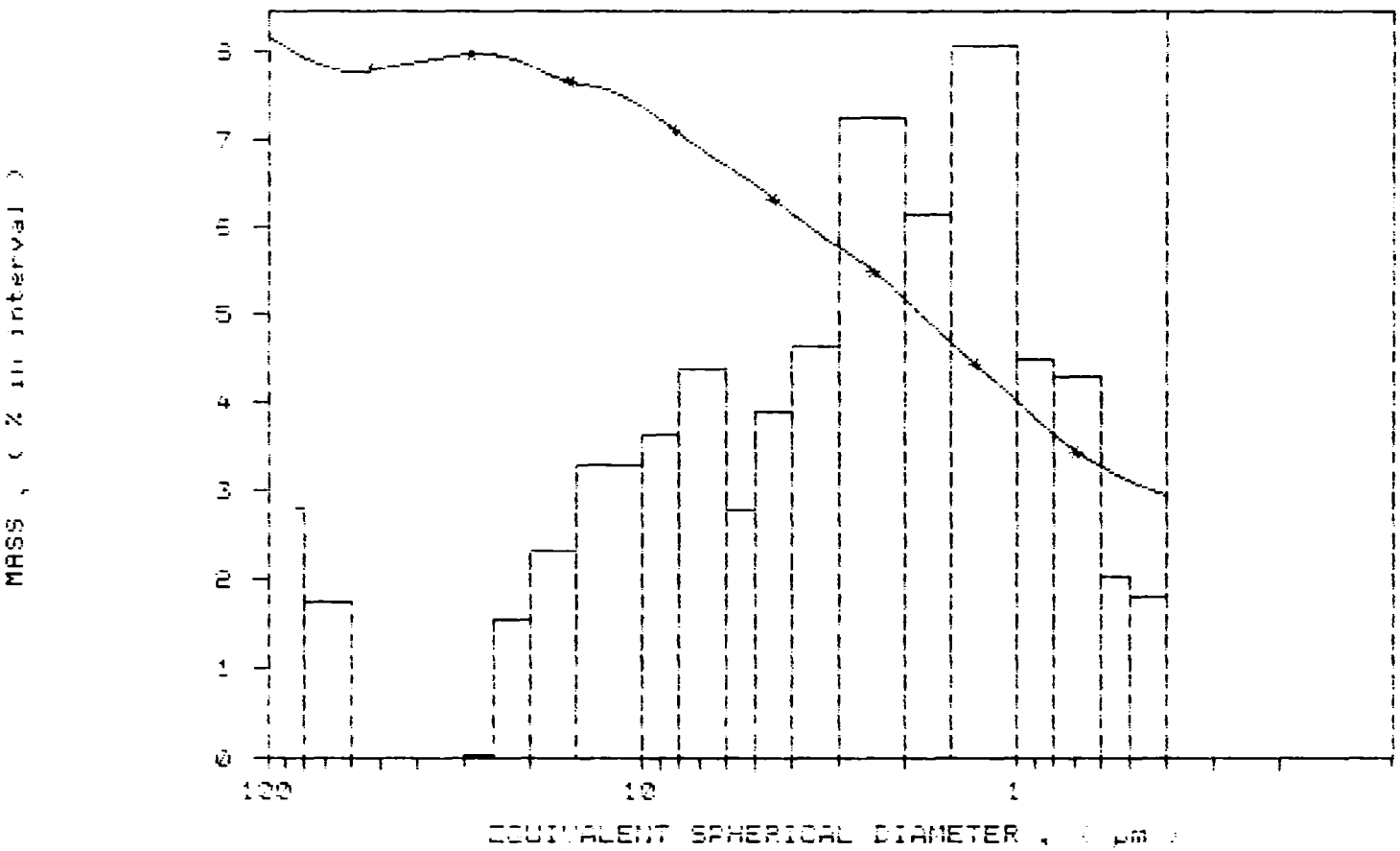
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /284
SAMPLE ID: Hole 92-11 # 16760
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 113 kilocounts/sec

UNIT NUMBER: 1
START 15:23:32 10/27/94
REPRT 15:35:25 10/27/94
TOT RUN TIME 0:07:20
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7634 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /285
SAMPLE ID: Hole 92-11 # 16761
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.2 deg C
BASELINE/FULL SCALE: 130/ 101 kilocounts/sec

UNIT NUMBER: 1
START 08:35:58 10/28/94
REPRT 08:48:18 10/28/94
TOT RUN TIME 0:07:49
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7642 cp
RUN TYPE: High Speed

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

MASS DISTRIBUTION

MODAL DIAMETER: 1.19 µm

MEDIAN DIAMETER: 1.77 µm

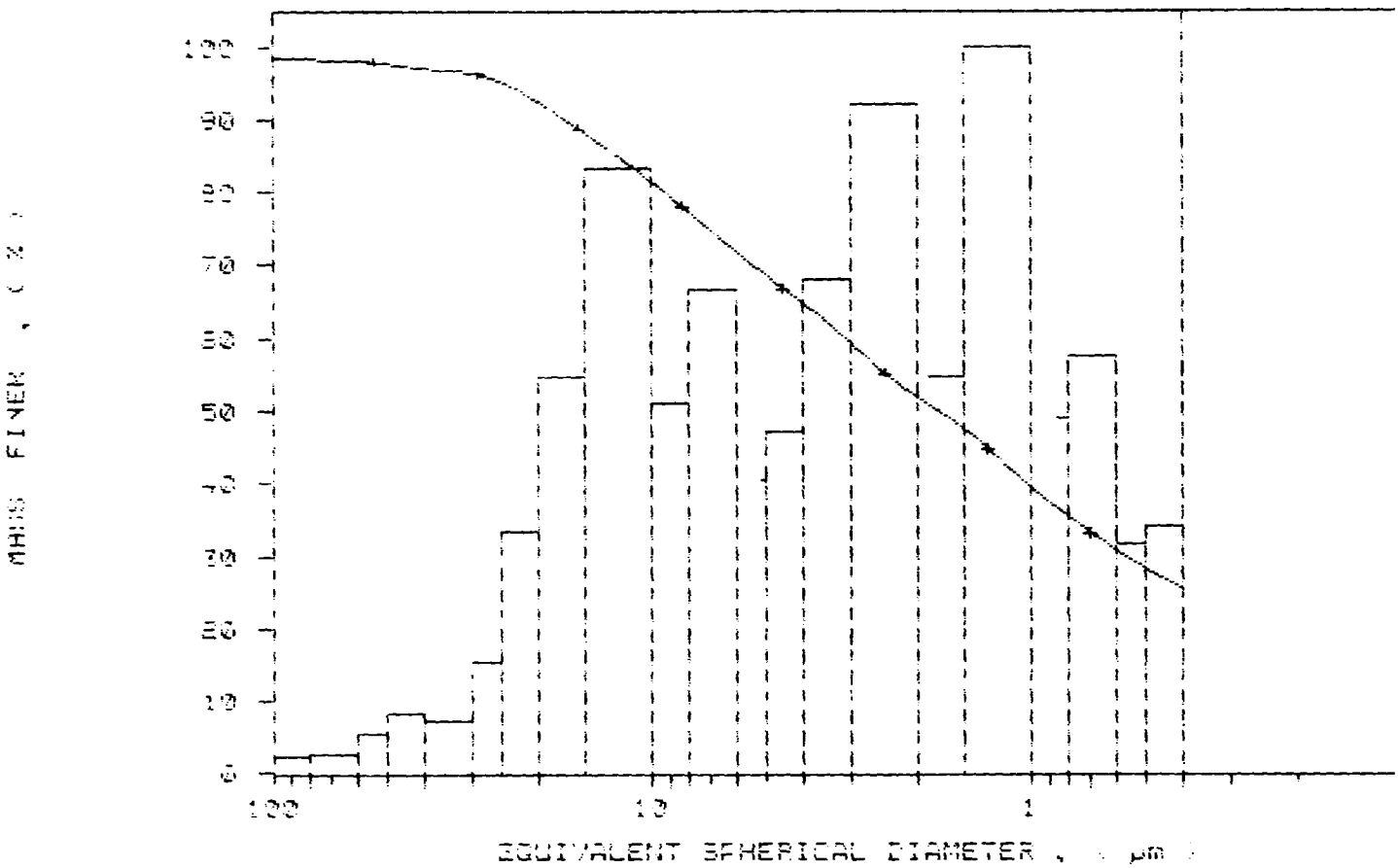
DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	98.5	1.5
80.00	98.3	0.2
60.00	98.1	0.2
50.00	97.6	0.4
40.00	97.0	0.7
30.00	96.4	0.6
25.00	95.1	1.2
20.00	92.4	2.7
15.00	88.0	4.4
10.00	81.3	6.7
8.00	77.2	4.1
6.00	71.8	5.4
5.00	68.5	3.3
4.00	64.7	3.8
3.00	59.2	5.5
2.00	51.8	7.4
1.50	47.4	4.4
1.00	39.3	8.0
0.80	35.4	4.0
0.60	30.7	4.6
0.50	28.2	2.6
0.40	25.4	2.8

K. Malmstrom

SAMPLE DIRECTORY/NUMBER: DATA7 /285
SAMPLE ID: Hole 92-11 # 16761
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.2 deg C
BASELINE/FULL SCALE: 130/ 101 kilocounts/sec

UNIT NUMBER: 1
START 08:35:58 10/28/9
REPRT 08:48:18 10/28/9
TOT RUN TIME 0:07:4
SAM DENS: 2.6000 g/c
LIQ DENS: 0.9950 g/c
LIQ VISC: 0.7642 cp
RUN TYPE: High Speed

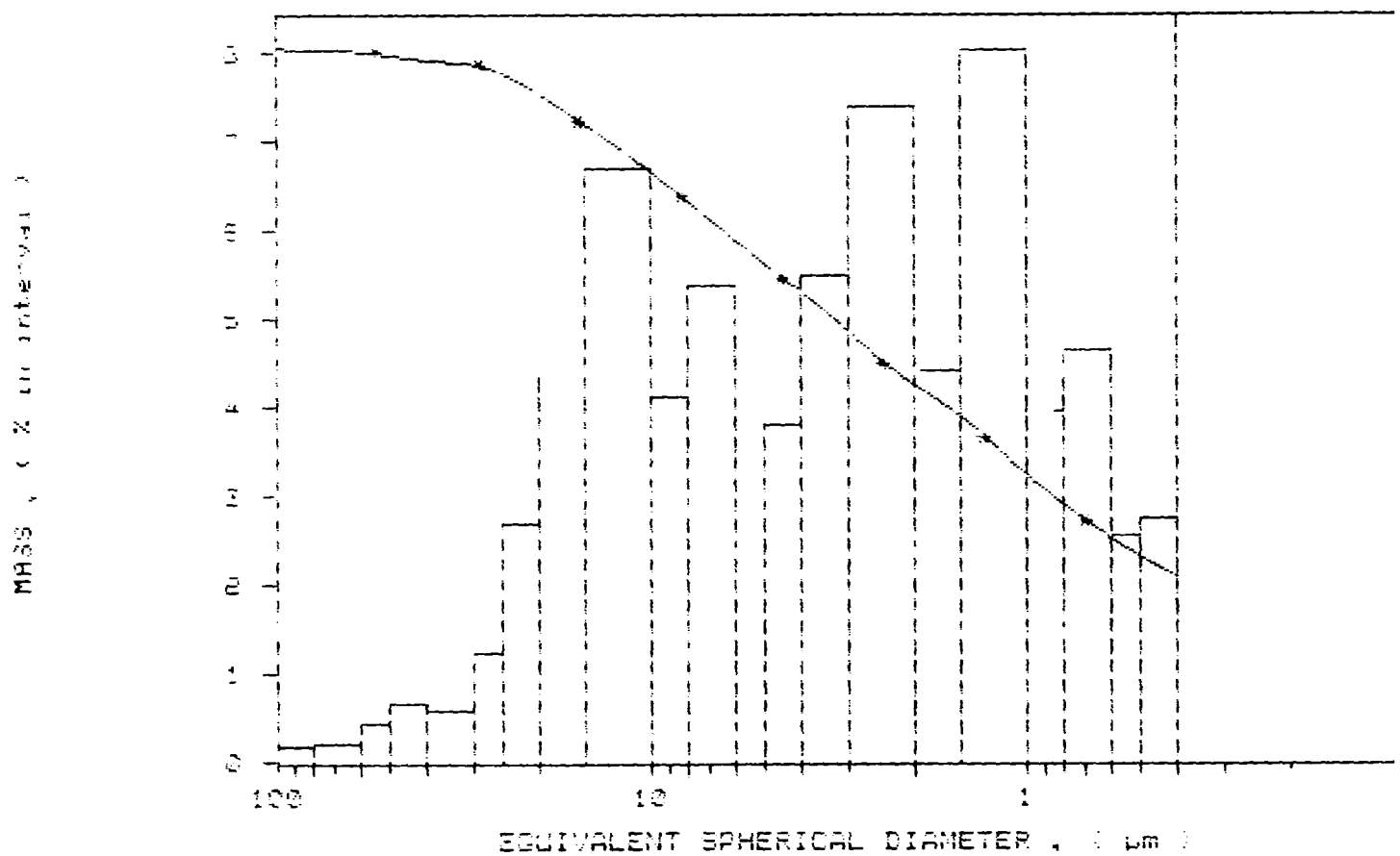
- CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /285
SAMPLE ID: Hole 92-11 # 16761
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.2 deg C
BASELINE/FULL SCALE: 130/ 101 kilocounts/sec

UNIT NUMBER: 1
START 08:35:58 10/28/9
REPRT 08:48:18 10/28/9
TOT RUN TIME 0:07:4
SAM DENS: 2.6000 g/c
LIQ DENS: 0.9950 g/c
LIQ VISC: 0.7642 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole 92-11 # 16762

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /286
SAMPLE ID: Hole 92-11 # 16762
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 106 kilocounts/sec

UNIT NUMBER: 1
START 09:52:15 10/28/94
REPRT 10:00:34 10/28/94
TOT RUN TIME 0:07:58
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7637 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.26 µm

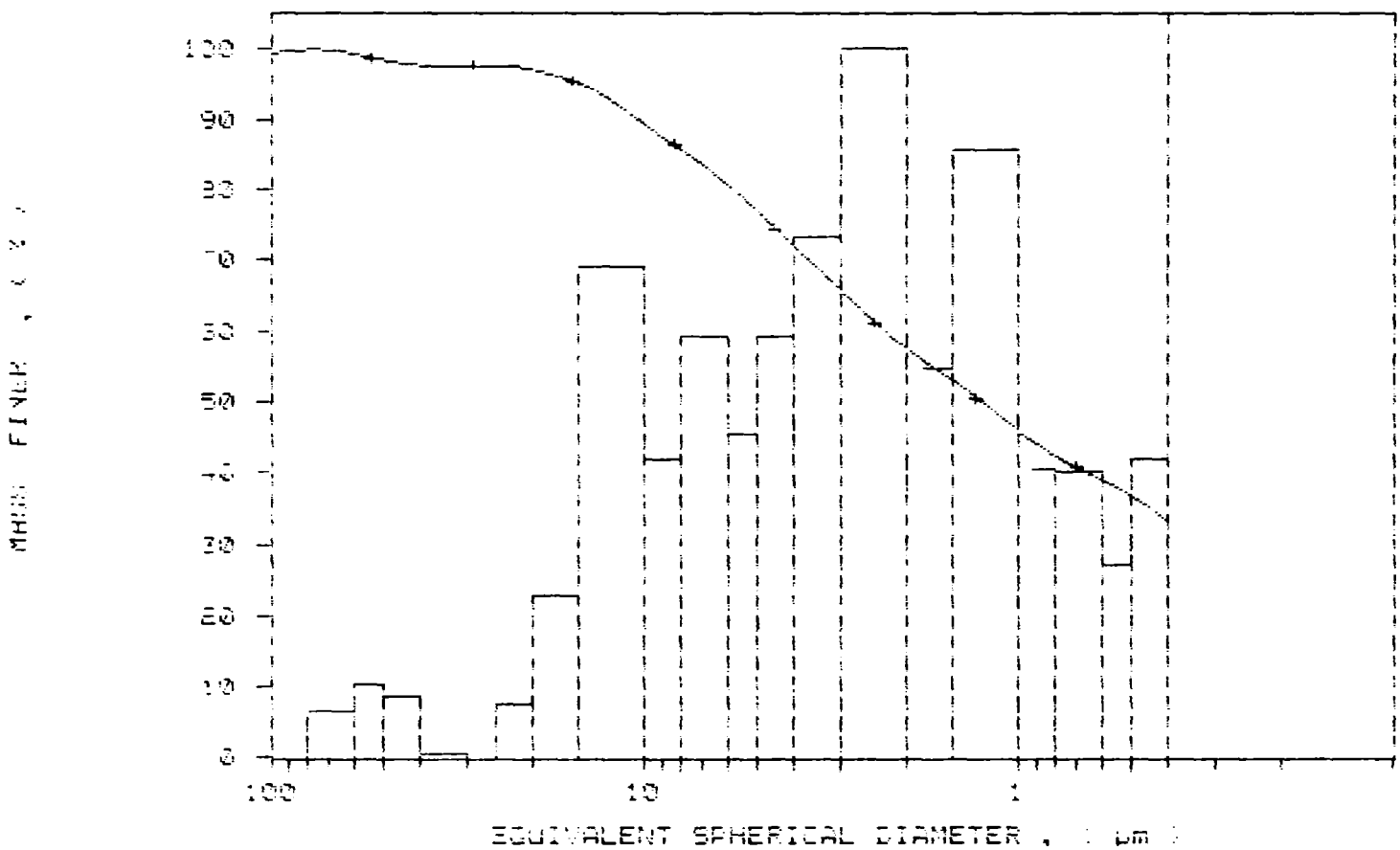
MODAL DIAMETER: 4.59 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	99.2	0.8
80.00	99.7	-0.5
60.00	99.1	0.6
50.00	98.3	0.9
40.00	97.5	0.7
30.00	97.5	0.0
25.00	97.5	-0.0
20.00	96.9	0.6
15.00	95.0	1.9
10.00	89.2	5.8
8.00	85.7	3.5
6.00	80.7	5.0
5.00	76.9	3.8
4.00	71.9	5.0
3.00	65.8	6.1
2.00	57.4	8.3
1.50	52.9	4.6
1.00	45.7	7.2
0.80	42.3	3.4
0.60	38.9	3.3
0.50	36.7	2.3
0.40	33.1	3.5

SAMPLE DIRECTORY/NUMBER: DATA7 /286
SAMPLE ID: Hole 92-11 # 16762
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 106 kilocounts/sec

UNIT NUMBER: 1
START 09:52:15 10/28/94
REPRT 10:00:34 10/28/94
TOT RUN TIME 0:07:58
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7637 cp
RUN TYPE: High Speed

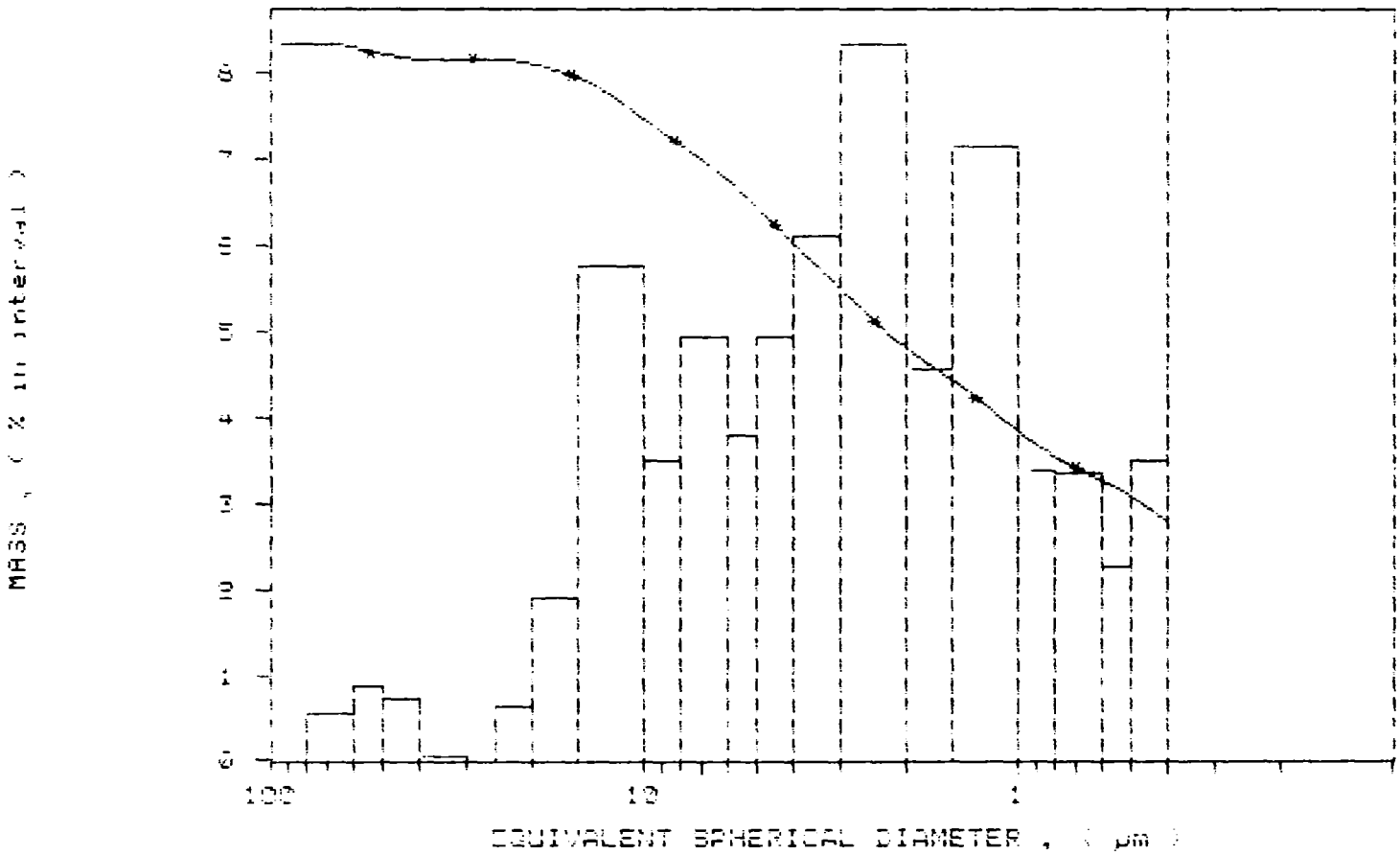
- CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /286
SAMPLE ID: Hole 92-11 # 16762
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 106 kilocounts/sec

UNIT NUMBER: 1
START 09:52:15 10/28/94
REPRT 10:00:34 10/28/94
TOT RUN TIME 0:07:58
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7637 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /287
SAMPLE ID: Hole 92-11 # 16763
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 98 kilocounts/sec

UNIT NUMBER: 1
START 10:27:19 10/28/94
REPRT 10:35:07 10/28/94
TOT RUN TIME 0:07:27
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7639 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.71 µm
MODAL DIAMETER: 2.71 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	97.5	2.5
80.00	97.9	-0.4
60.00	97.9	0.0
50.00	97.7	0.1
40.00	97.7	0.0
30.00	97.5	0.2
25.00	96.7	0.8
20.00	95.3	1.5
15.00	93.2	2.0
10.00	87.2	6.0
8.00	83.5	3.7
6.00	78.2	5.3
5.00	74.2	4.0
4.00	69.4	4.9
3.00	62.8	6.5
2.00	53.3	9.5
1.50	47.4	5.9
1.00	39.9	7.5
0.80	36.4	3.5
0.60	31.9	4.5
0.50	28.3	3.6
0.40	23.6	4.7

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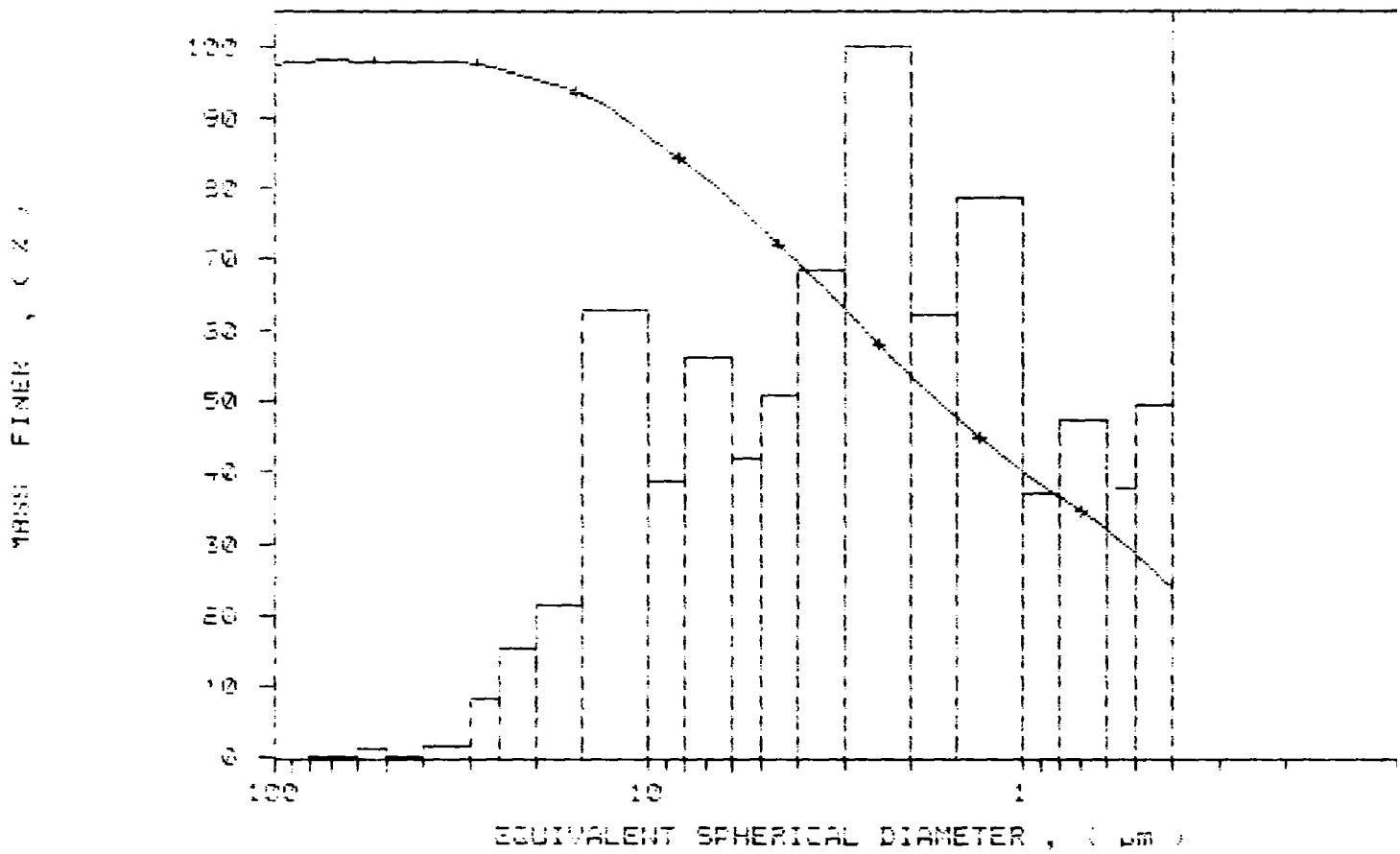
SAMPLE DIRECTORY/NUMBER: DATA7 /287
SAMPLE ID: Hole 92-11 # 16763
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 98 kilocounts/sec

UNIT NUMBER: 1
START 10:27:19 10/28/94
REPRT 10:35:07 10/28/94
TOT RUN TIME 0:07:27
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7639 cp
RUN TYPE: High Speed

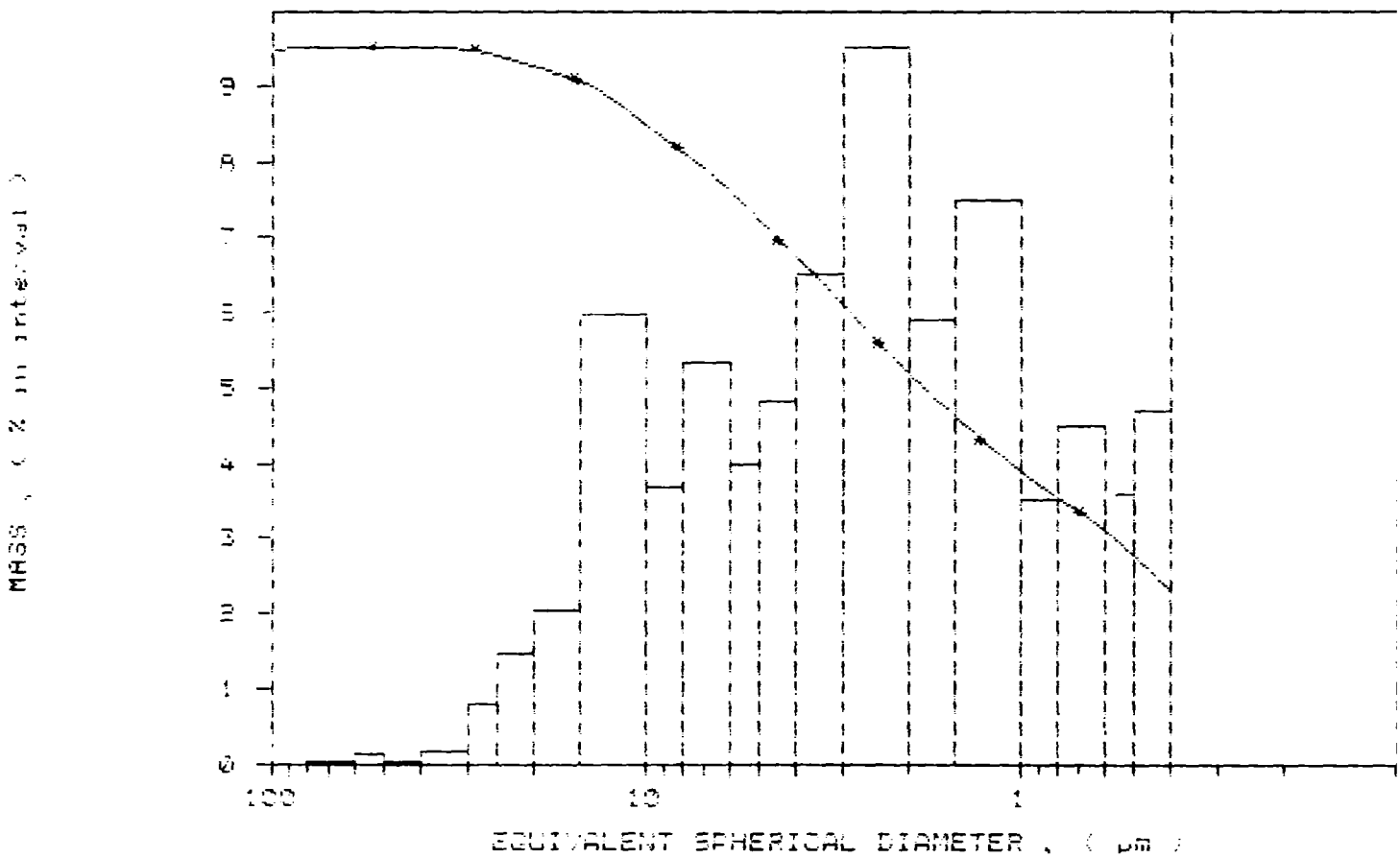
- CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /287
SAMPLE ID: Hole 92-11 # 16763
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 98 kilocounts/sec

UNIT NUMBER: 1
START 10:27:19 10/28/94
REPRT 10:35:07 10/28/94
TOT RUN TIME 0:07:27
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7639 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /288
SAMPLE ID: Hole 92-11 # 16764
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 96 kilocounts/sec

UNIT NUMBER: 1
START 10:56:21 10/28/94
REPRT 11:08:16 10/28/94
TOT RUN TIME 0:07:18
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7639 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

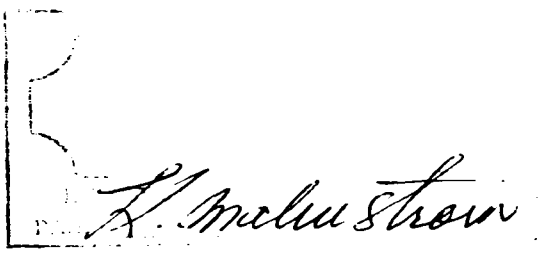
REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.31 µm

MODAL DIAMETER: 0.78 µm

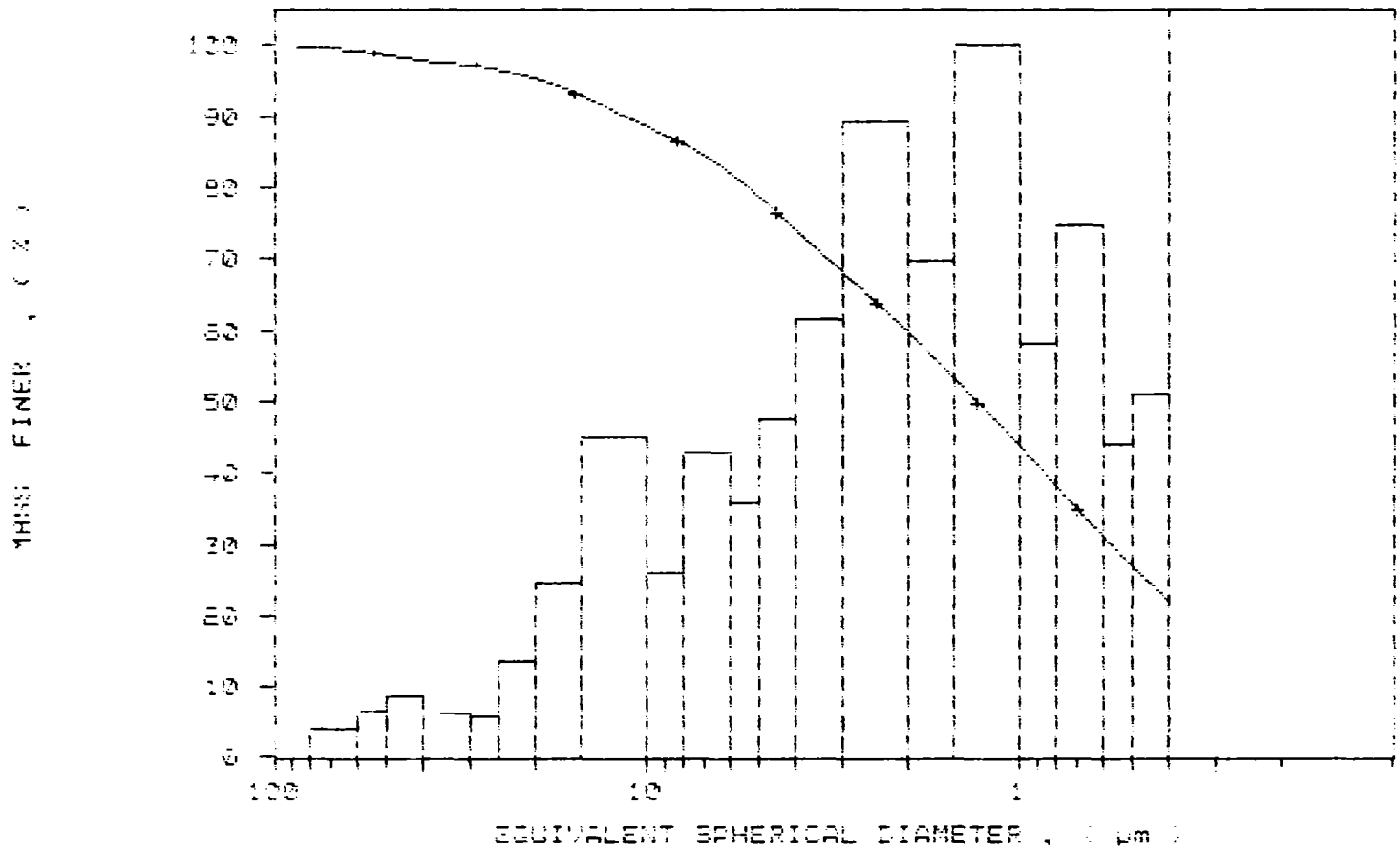
DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	99.6	0.4
80.00	99.5	0.1
60.00	99.1	0.4
50.00	98.5	0.6
40.00	97.7	0.8
30.00	97.1	0.6
25.00	96.5	0.6
20.00	95.2	1.3
15.00	92.8	2.4
10.00	88.5	4.3
8.00	86.1	2.5
6.00	82.0	4.1
5.00	78.6	3.4
4.00	74.1	4.5
3.00	68.2	5.9
2.00	59.7	8.5
1.50	53.1	6.6
1.00	43.6	9.5
0.80	38.1	5.5
0.60	31.0	7.1
0.50	26.8	4.2
0.40	21.9	4.9



SAMPLE DIRECTORY/NUMBER: DATA7 /288
SAMPLE ID: Hole 92-11 # 16764
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 96 kilocounts/sec

UNIT NUMBER: 1
START 10:56:21 10/28/94
REPRT 11:08:16 10/28/94
TOT RUN TIME 0:07:18
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7639 cp
RUN TYPE: High Speed

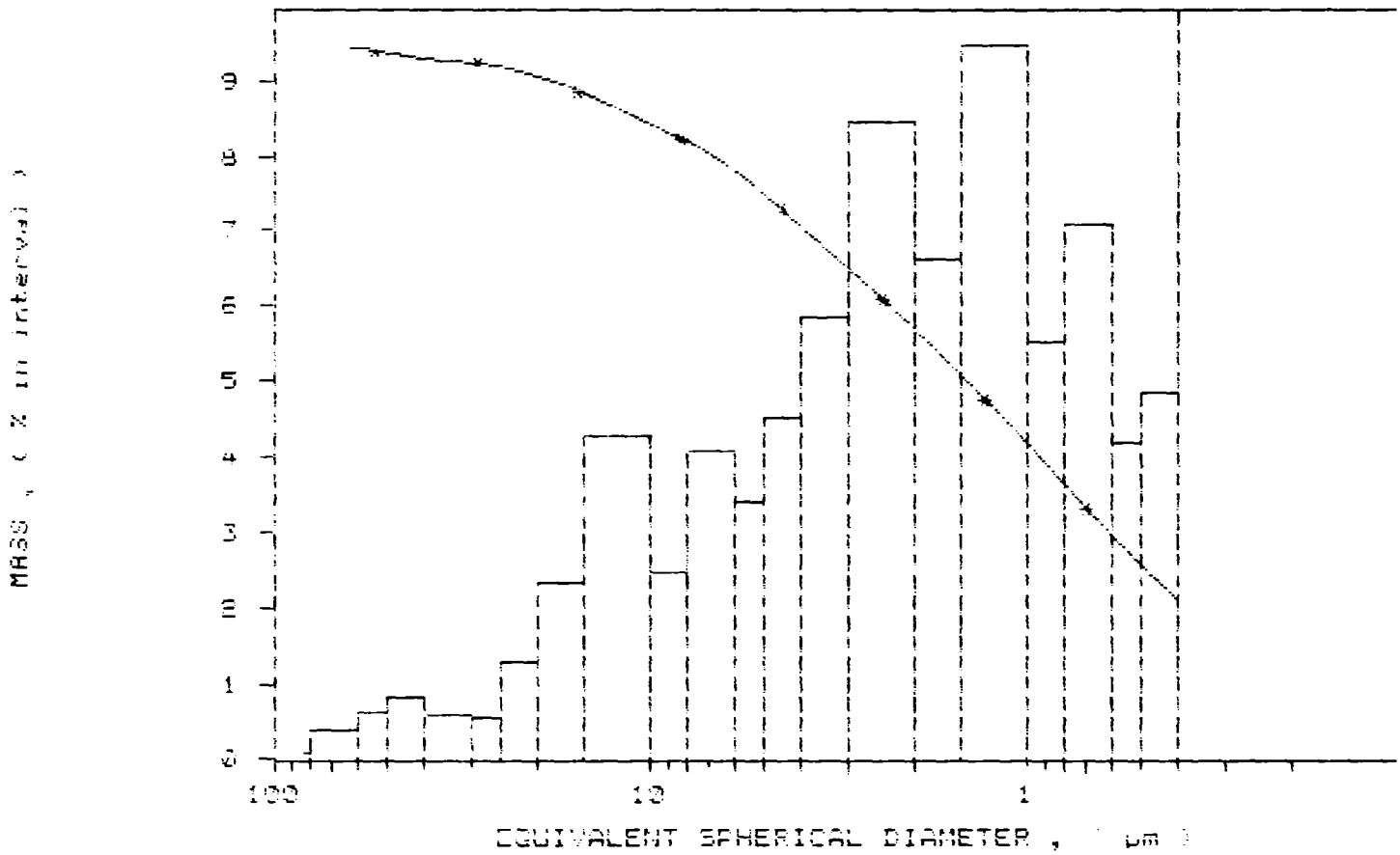
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /288
SAMPLE ID: Hole 92-11 # 16764
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 96 kilocounts/sec

UNIT NUMBER: 1
START 10:56:21 10/28/9
REPRT 11:08:16 10/28/9
TOT RUN TIME 0:07:1
SAM DENS: 2.6000 g/c
LIQ DENS: 0.9950 g/c
LIQ VISC: 0.7639 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole 92-11 # 16765

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /289
SAMPLE ID: Hole 92-11 # 16765
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 109 kilocounts/sec

UNIT NUMBER: 1
START 11:15:51 10/28/94
REPRT 11:28:23 10/28/94
TOT RUN TIME 0:08:00
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7639 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.09 µm

MODAL DIAMETER: 2.46 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	93.5	6.5
80.00	95.1	-1.6
60.00	97.0	-2.0
50.00	97.7	-0.7
40.00	98.0	-0.3
30.00	97.7	0.3
25.00	97.3	0.4
20.00	96.4	0.8
15.00	95.6	0.8
10.00	93.3	2.4
8.00	90.9	2.3
6.00	86.6	4.3
5.00	82.5	4.1
4.00	77.3	5.2
3.00	70.7	6.6
2.00	60.7	10.0
1.50	55.0	5.7
1.00	48.5	6.5
0.80	44.7	3.9
0.60	40.4	4.3
0.50	37.7	2.6
0.40	33.8	3.9

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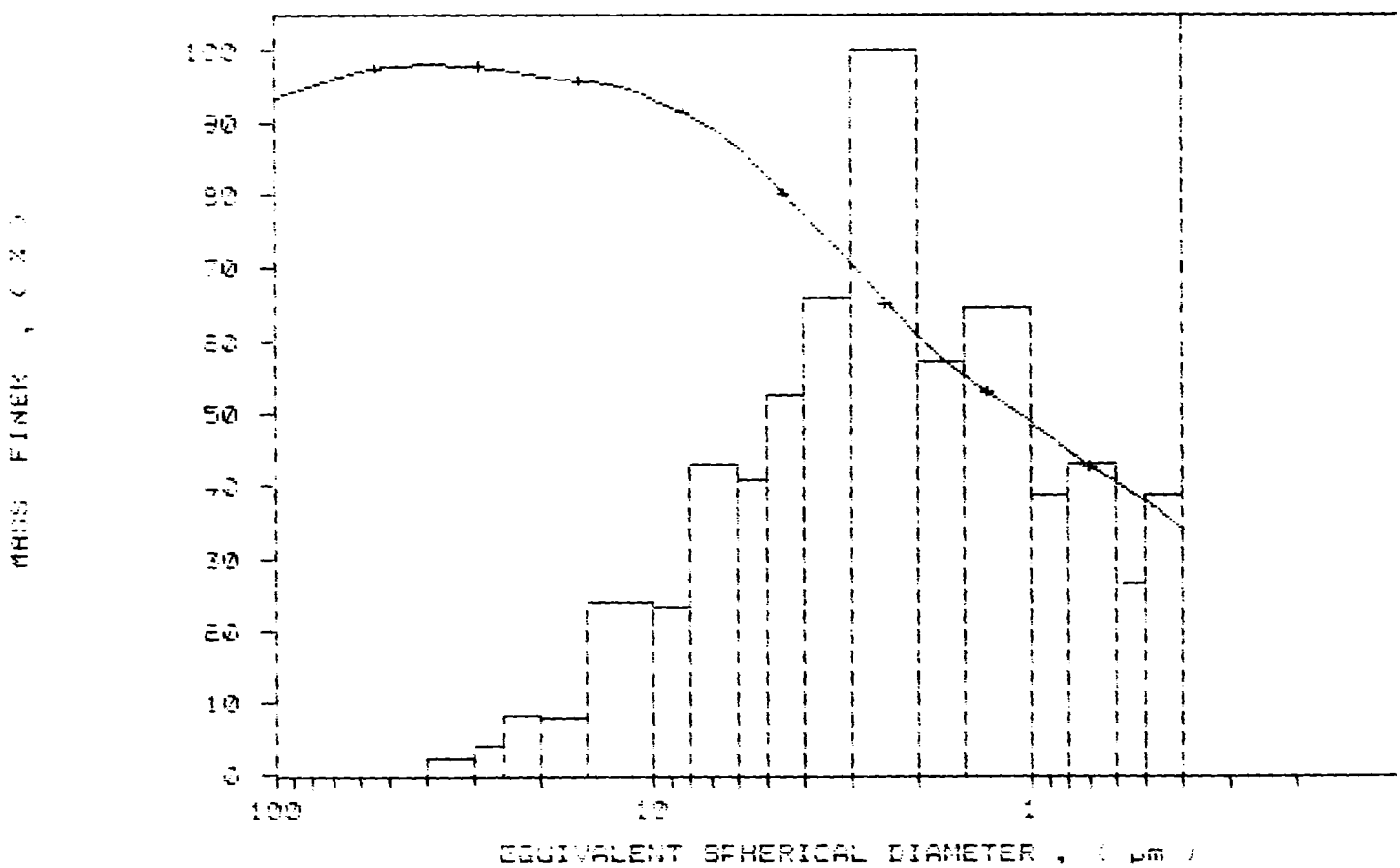
SAMPLE DIRECTORY/NUMBER: DATA7 /289
SAMPLE ID: Hole 92-11 # 16765
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 109 kilocounts/sec

UNIT NUMBER: 1
START 11:15:51 10/28/9
REPRT 11:28:23 10/28/9
TOT RUN TIME 0:08:0
SAM DENS: 2.6000 g/c
LIQ DENS: 0.9950 g/c
LIQ VISC: 0.7639 cp
RUN TYPE: High Speed

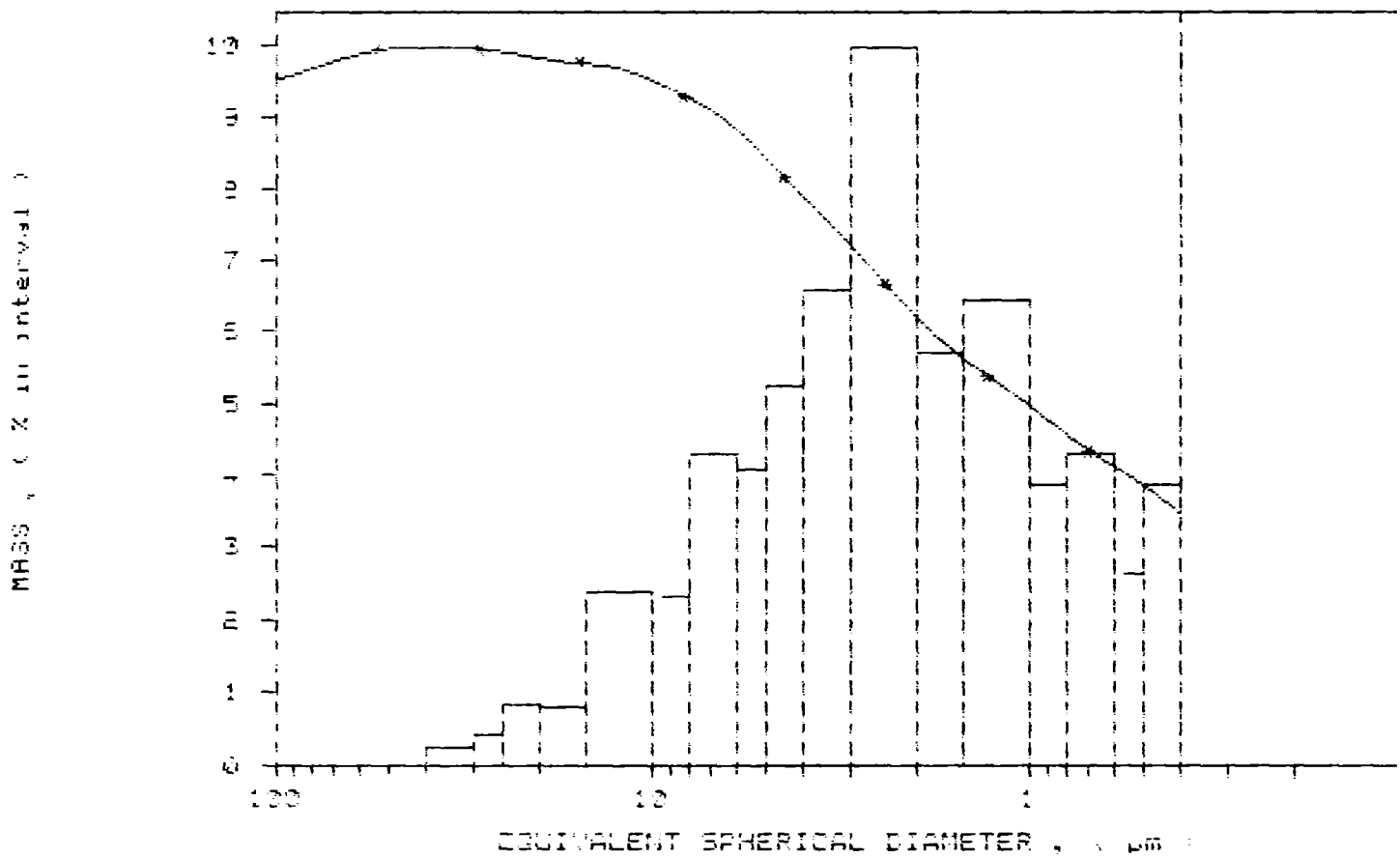
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /289
SAMPLE ID: Hole 92-11 # 16765
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 109 kilocounts/sec

UNIT NUMBER: 1
START 11:15:51 10/28/9
REPRT 11:28:23 10/28/9
TOT RUN TIME 0:08:0
SAM DENS: 2.6000 g/c
LIQ DENS: 0.9950 g/c
LIQ VISC: 0.7639 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /290
SAMPLE ID: Hole 92-11 # 16766
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 106 kilocounts/sec

UNIT NUMBER: 1
START 11:36:22 10/28/9
REPRT 11:44:03 10/28/9
TOT RUN TIME 0:07:2
SAM DENS: 2.6000 g/c
LIQ DENS: 0.9950 g/c
LIQ VISC: 0.7638 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.4
FULL SCALE MASS %: 10

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.32 µm MODAL DIAMETER: 1.35 µm

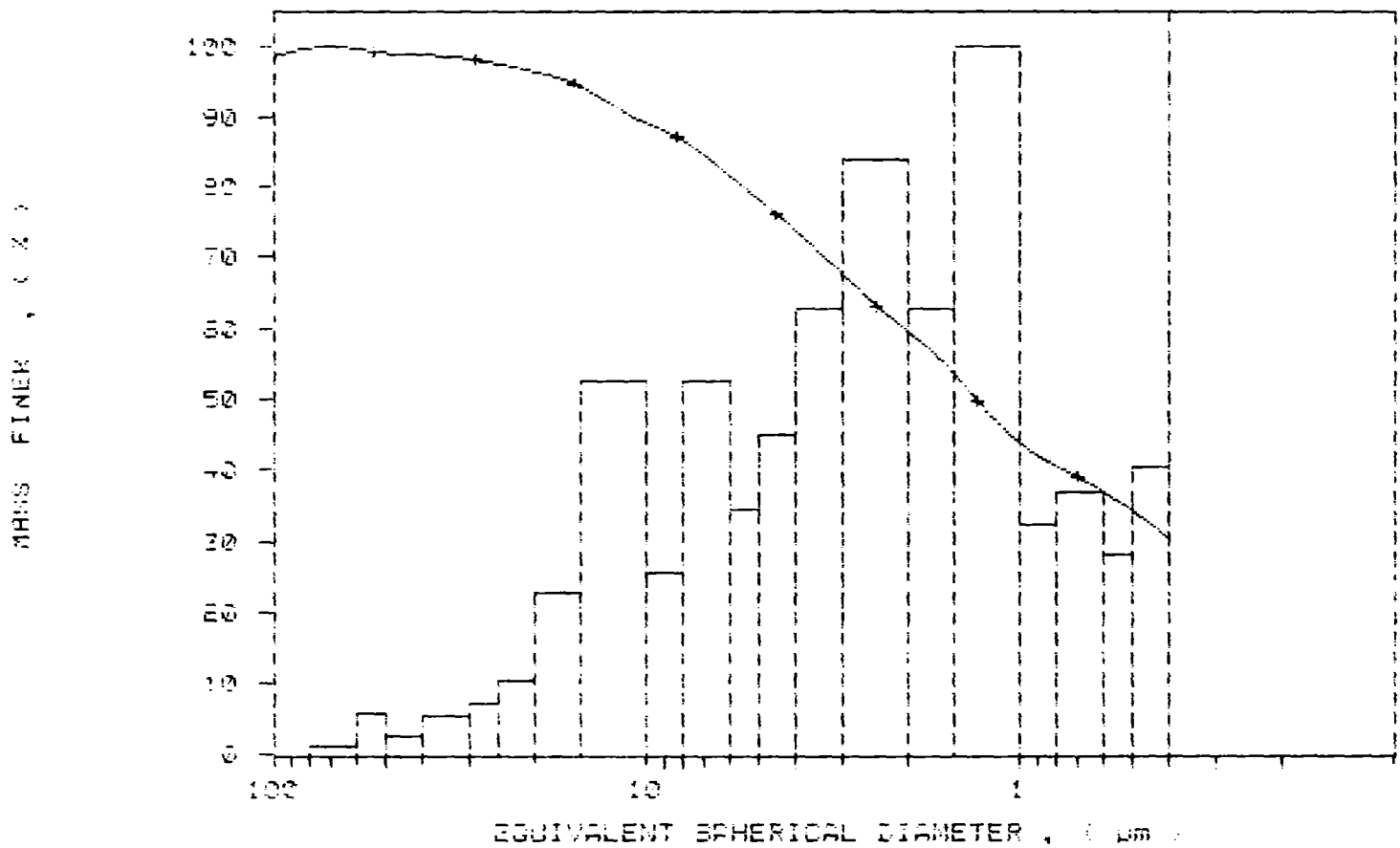
DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	98.6	1.4
80.00	99.7	-1.1
60.00	99.5	0.1
50.00	99.0	0.6
40.00	98.7	0.3
30.00	98.2	0.5
25.00	97.4	0.7
20.00	96.4	1.0
15.00	94.2	2.2
10.00	89.1	5.1
8.00	86.6	2.5
6.00	81.5	5.1
5.00	78.1	3.3
4.00	73.7	4.4
3.00	67.6	6.1
2.00	59.5	8.1
1.50	53.4	6.1
1.00	43.7	9.7
0.80	40.5	3.1
0.60	36.9	3.6
0.50	34.2	2.7
0.40	30.3	3.9

K. Melinstrom

SAMPLE DIRECTORY/NUMBER: DATA7 /290
SAMPLE ID: Hole 92-11 # 16766
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 106 kilocounts/sec

UNIT NUMBER: 1
START 11:36:22 10/28/94
REPRT 11:44:03 10/28/94
TOT RUN TIME 0:07:22
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7638 cp
RUN TYPE: High Speed

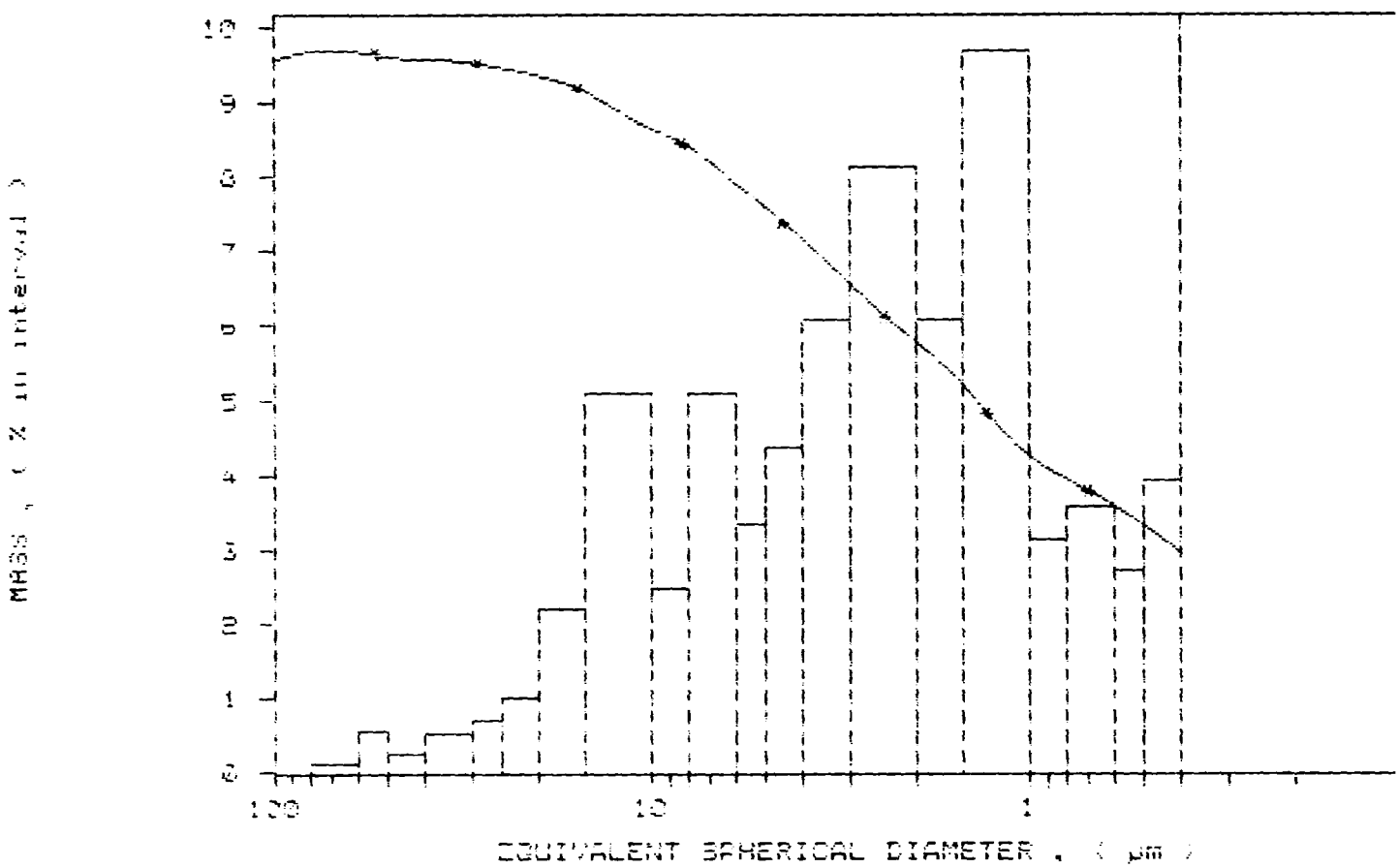
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /290
SAMPLE ID: Hole 92-11 # 16766
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 106 kilocounts/sec

UNIT NUMBER: 1
START 11:36:22 10/28/9
REPRT 11:44:03 10/28/9
TOT RUN TIME 0:07:2
SAM DENS: 2.6000 g/c
LIQ DENS: 0.9950 g/c
LIQ VISC: 0.7638 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /291
SAMPLE ID: Hole 92-11 # 16767
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.2 deg C
BASELINE/FULL SCALE: 130/ 102 kilocounts/sec

UNIT NUMBER: 1
START 12:40:09 10/28/94
REPRT 12:52:01 10/28/94
TOT RUN TIME 0:07:19
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7641 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.97 µm
MODAL DIAMETER: 4.40 µm

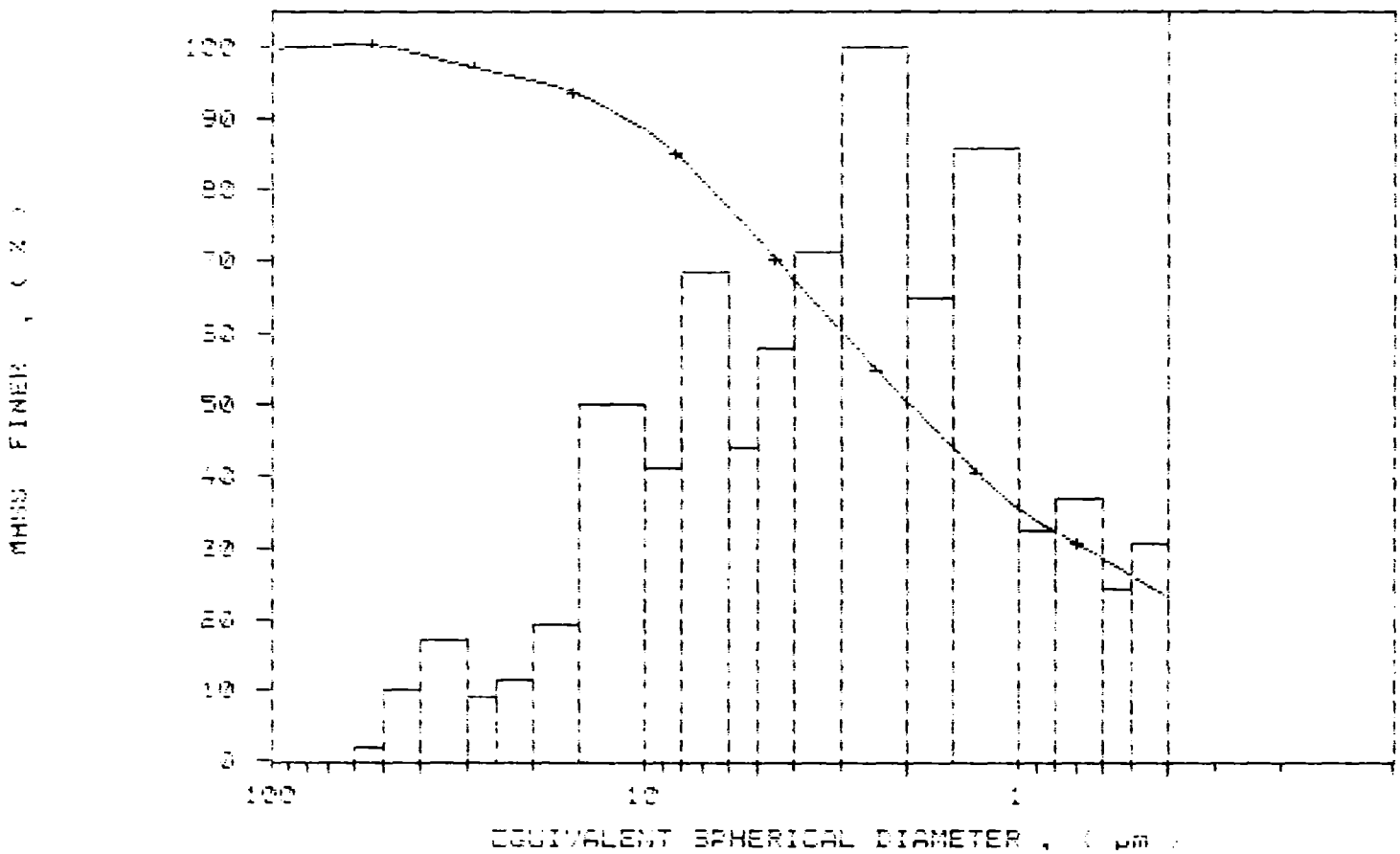
DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	99.7	0.3
80.00	99.8	-0.2
60.00	100.2	-0.3
50.00	100.0	0.2
40.00	98.9	1.0
30.00	97.2	1.7
25.00	96.3	0.9
20.00	95.2	1.1
15.00	93.2	1.9
10.00	88.3	5.0
8.00	84.2	4.1
6.00	77.4	6.8
5.00	73.0	4.4
4.00	67.3	5.7
3.00	60.2	7.1
2.00	50.3	9.9
1.50	43.8	6.4
1.00	35.3	8.5
0.80	32.1	3.2
0.60	28.5	3.7
0.50	26.0	2.4
0.40	23.0	3.0

K. Malmstrom

SAMPLE DIRECTORY/NUMBER: DATA7 /291
SAMPLE ID: Hole 92-11 # 16767
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.2 deg C
BASELINE/FULL SCALE: 130/ 102 kilocounts/sec

UNIT NUMBER: 1
START 12:40:09 10/28/94
REPRT 12:52:01 10/28/94
TOT RUN TIME 0:07:19
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7641 cp
RUN TYPE: High Speed

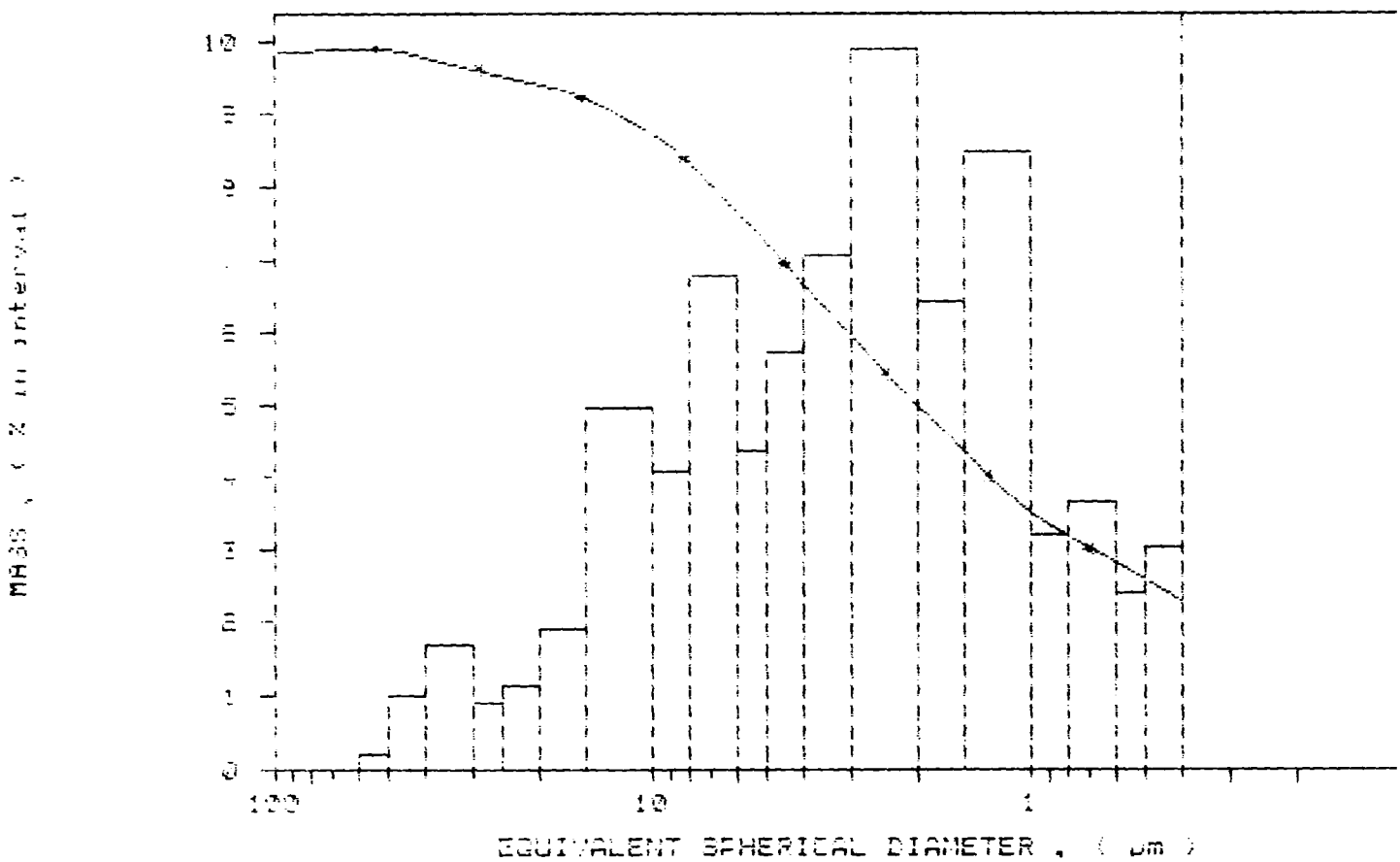
- CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /291
SAMPLE ID: Hole 92-11 # 16767
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.2 deg C
BASELINE/FULL SCALE: 130/ 102 kilocounts/sec

UNIT NUMBER: 1
START 12:40:09 10/28/9
REPRT 12:52:01 10/28/9
TOT RUN TIME 0:07:1
SAM DENS: 2.6000 g/c
LIQ DENS: 0.9950 g/c
LIQ VISC: 0.7641 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /292
SAMPLE ID: Hole 92-11 # 16768
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 109 kilocounts/sec

UNIT NUMBER: 1
START 13:29:56 10/28/94
REPRT 13:41:50 10/28/94
TOT RUN TIME 0:07:17
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7640 cp
RUN TYPE: High Speed

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.49 µm
MODAL DIAMETER: 1.80 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	97.5	2.5
80.00	97.7	-0.2
60.00	98.3	-0.6
50.00	98.5	-0.2
40.00	98.1	0.4
30.00	96.5	1.5
25.00	95.6	0.9
20.00	94.9	0.8
15.00	93.1	1.8
10.00	88.6	4.5
8.00	85.2	3.4
6.00	80.6	4.6
5.00	77.0	3.6
4.00	71.9	5.1
3.00	66.0	5.8
2.00	57.2	8.8
1.50	50.2	7.1
1.00	40.9	9.3
0.80	36.6	4.3
0.60	31.8	4.8
0.50	29.1	2.7
0.40	26.4	2.7

DATE K. Malmström

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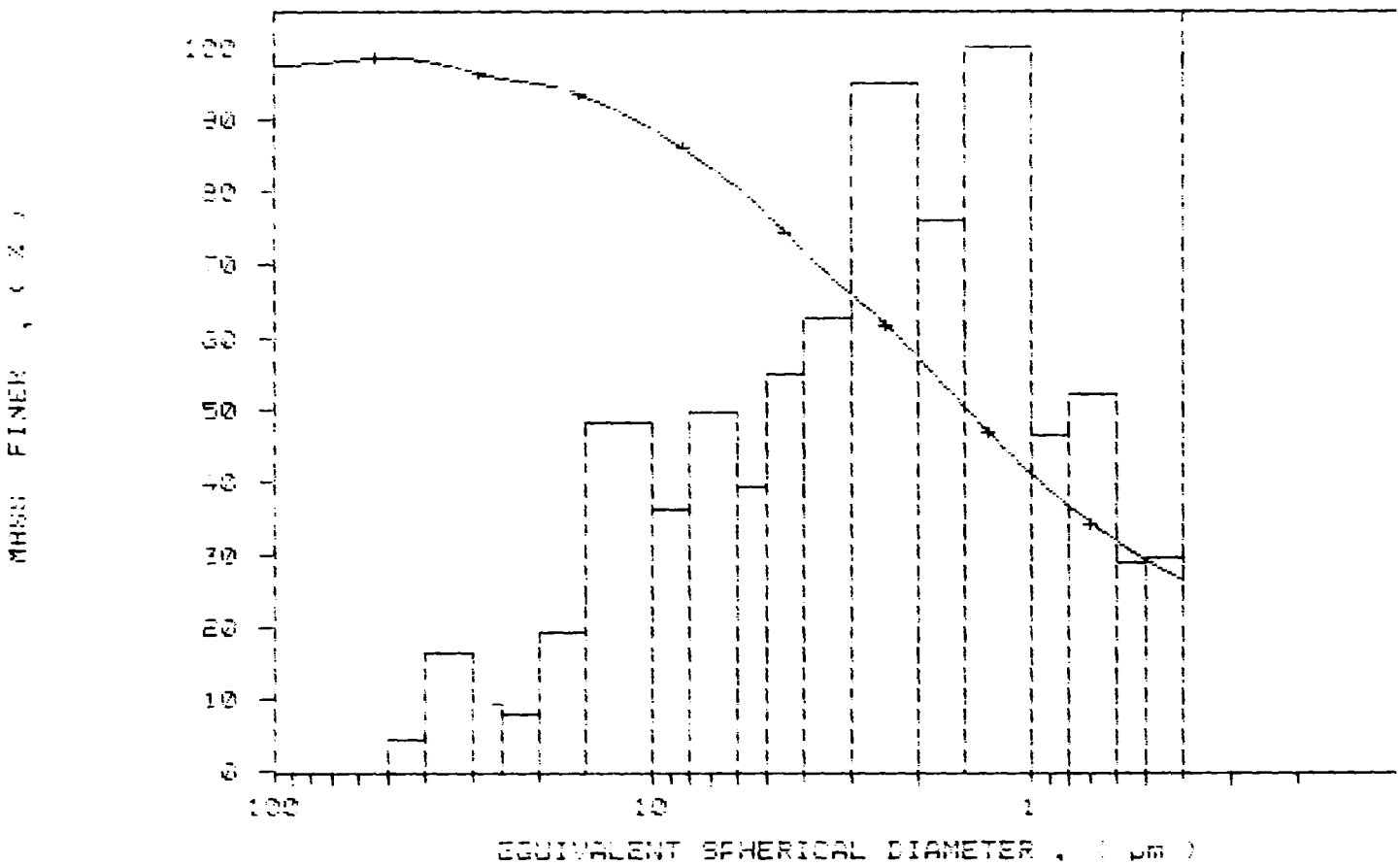
SAMPLE DIRECTORY/NUMBER: DATA7 /292
SAMPLE ID: Hole 92-11 # 16768
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 109 kilocounts/sec

UNIT NUMBER: 1
START 13:29:56 10/28/9
REPRT 13:41:50 10/28/9
TOT RUN TIME 0:07:1
SAM DENS: 2.6000 g/c
LIQ DENS: 0.9950 g/c
LIQ VISC: 0.7640 cp
RUN TYPE: High Speed

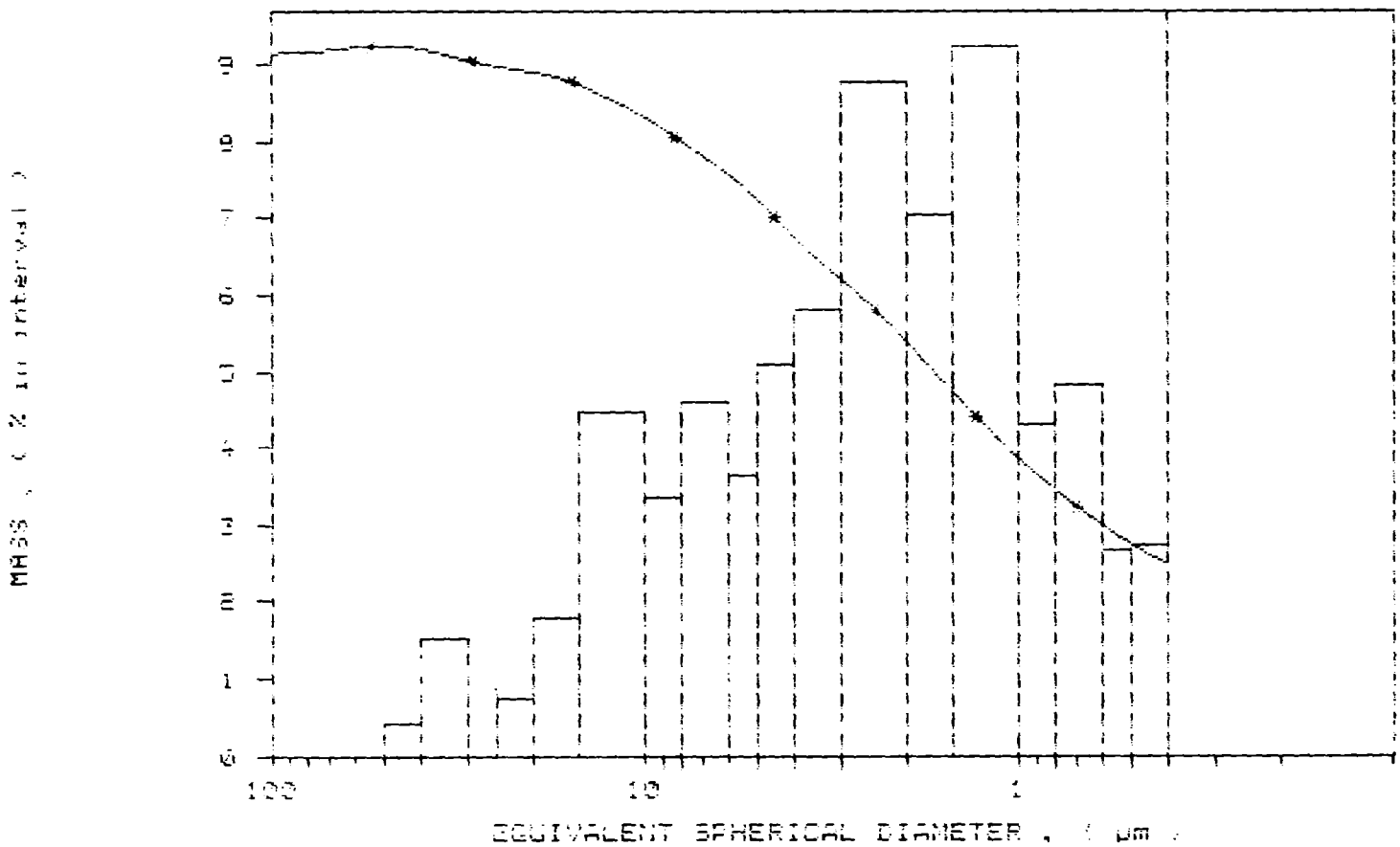
- CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /292
SAMPLE ID: Hole 92-11 # 16768
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 109 kilocounts/sec

UNIT NUMBER: 1
START 13:29:56 10/28/94
REPRT 13:41:50 10/28/94
TOT RUN TIME 0:07:17
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7640 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SediGraph 5100 V3.02 Hole 92-11 # 16769

SAMPLE DIRECTORY/NUMBER: DATA7 /293
SAMPLE ID: Hole 92-11 # 16769
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 100 kilocounts/sec

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

UNIT NUMBER: 1
START 13:49:19 10/28/9
REPRT 13:57:00 10/28/9
TOT RUN TIME 0:07:1
SAM DENS: 2.6000 g/c
LIQ DENS: 0.9950 g/c
LIQ VISC: 0.7638 cp
RUN TYPE: High Speed

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MEDIAN DIAMETER: 1.97 µm

MASS DISTRIBUTION

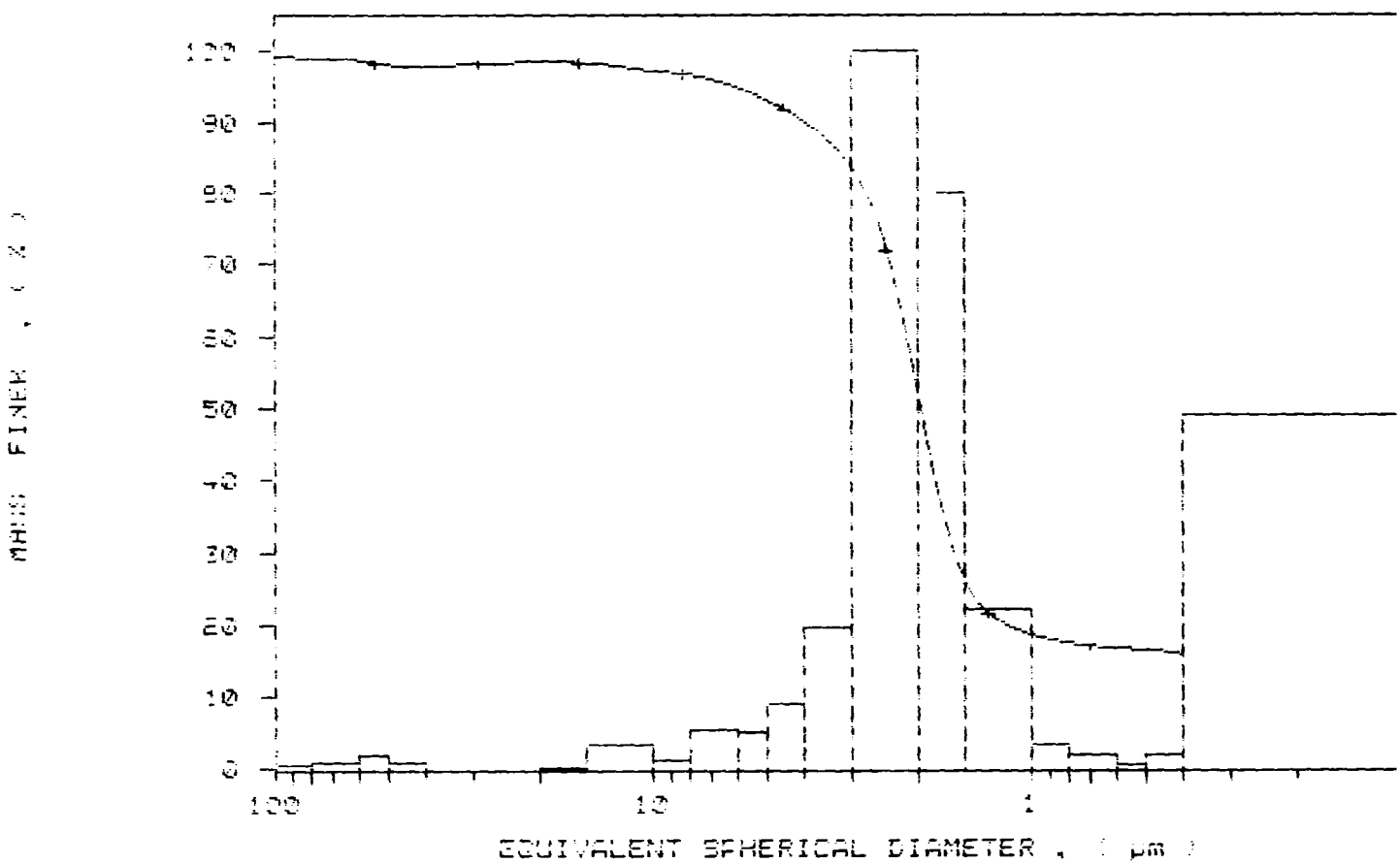
MODAL DIAMETER: 2.01 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	99.1	0.9
80.00	99.0	0.2
60.00	98.6	0.3
50.00	98.0	0.6
40.00	97.6	0.4
30.00	98.1	-0.5
25.00	98.3	-0.1
20.00	98.3	-0.1
15.00	98.2	0.1
10.00	97.1	1.1
8.00	96.6	0.5
6.00	94.8	1.8
5.00	93.0	1.7
4.00	90.1	2.9
3.00	83.7	6.4
2.00	51.5	32.2
1.50	25.7	25.8
1.00	18.5	7.2
0.80	17.4	1.1
0.60	16.7	0.7
0.50	16.5	0.3
0.40	15.8	0.7

SAMPLE DIRECTORY/NUMBER: DATA7 /293
SAMPLE ID: Hole 92-11 # 16769
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 100 kilocounts/sec

UNIT NUMBER: 1
START 13:49:19 10/28/9
REPRT 13:57:00 10/28/9
TOT RUN TIME 0:07:1
SAM DENS: 2.6000 g/c
LIQ DENS: 0.9950 g/c
LIQ VISC: 0.7638 cp
RUN TYPE: High Speed

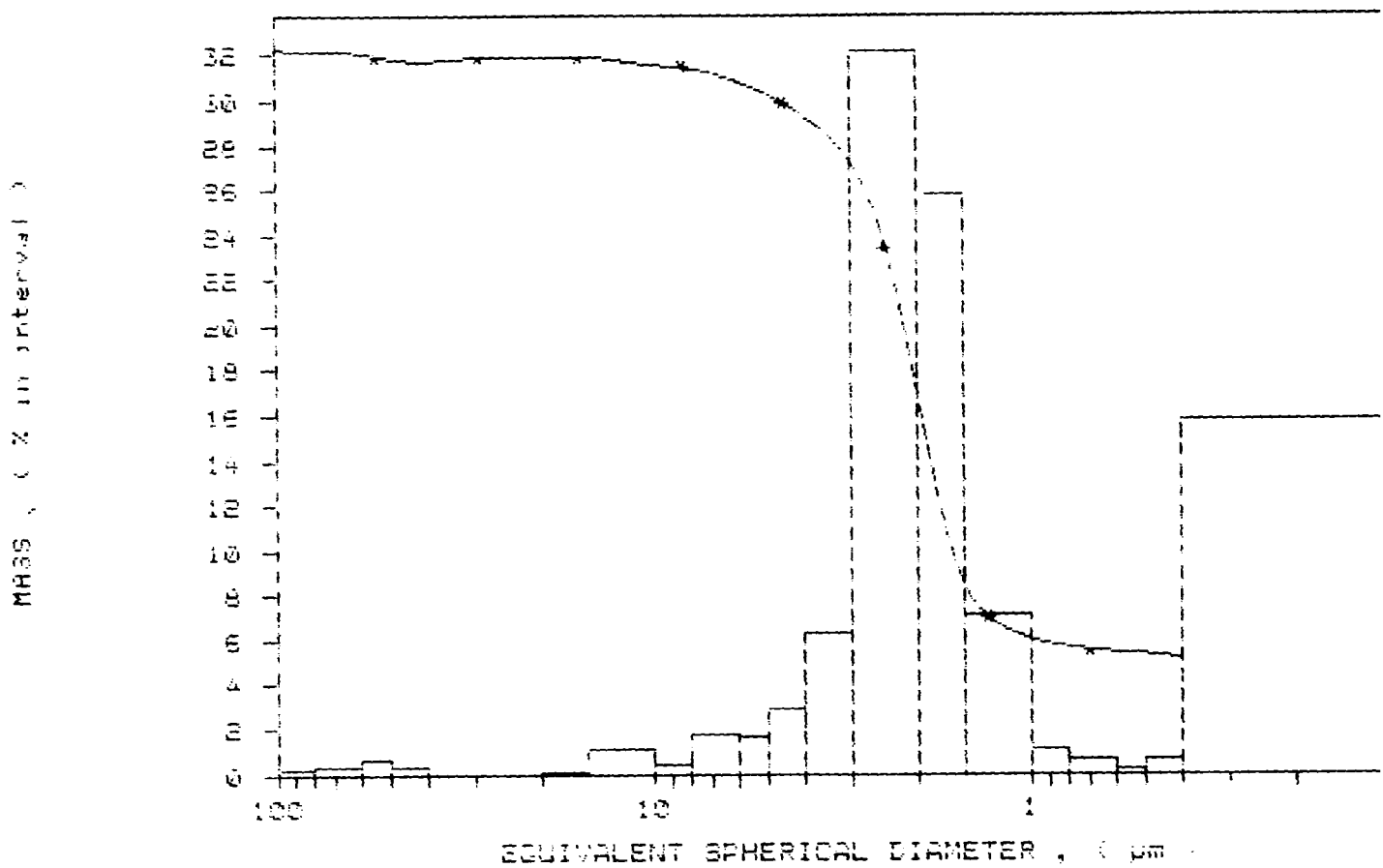
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /293
SAMPLE ID: Hole 92-11 # 16769
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 100 kilocounts/sec

UNIT NUMBER: 1
START 13:49:19 10/28/9
REPRT 13:57:00 10/28/9
TOT RUN TIME 0:07:1
SAM DENS: 2.6000 g/c
LIQ DENS: 0.9950 g/c
LIQ VISC: 0.7638 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /294
SAMPLE ID: Hole 92-11 # 16770
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 103 kilocounts/sec

UNIT NUMBER: 1
START 14:13:41 10/28/94
REPRT 14:25:34 10/28/94
TOT RUN TIME 0:07:18
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7638 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.72 µm
MODAL DIAMETER: 1.27 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	96.6	3.4
80.00	97.3	-0.7
60.00	98.4	-1.1
50.00	98.9	-0.5
40.00	98.6	0.2
30.00	97.4	1.2
25.00	96.4	1.1
20.00	95.0	1.4
15.00	93.0	2.0
10.00	87.8	5.2
8.00	84.0	3.8
6.00	77.4	6.6
5.00	72.8	4.6
4.00	67.3	5.5
3.00	60.7	6.6
2.00	53.1	7.6
1.50	46.8	6.3
1.00	36.7	10.0
0.80	31.8	5.0
0.60	26.4	5.4
0.50	23.9	2.4
0.40	21.4	2.5

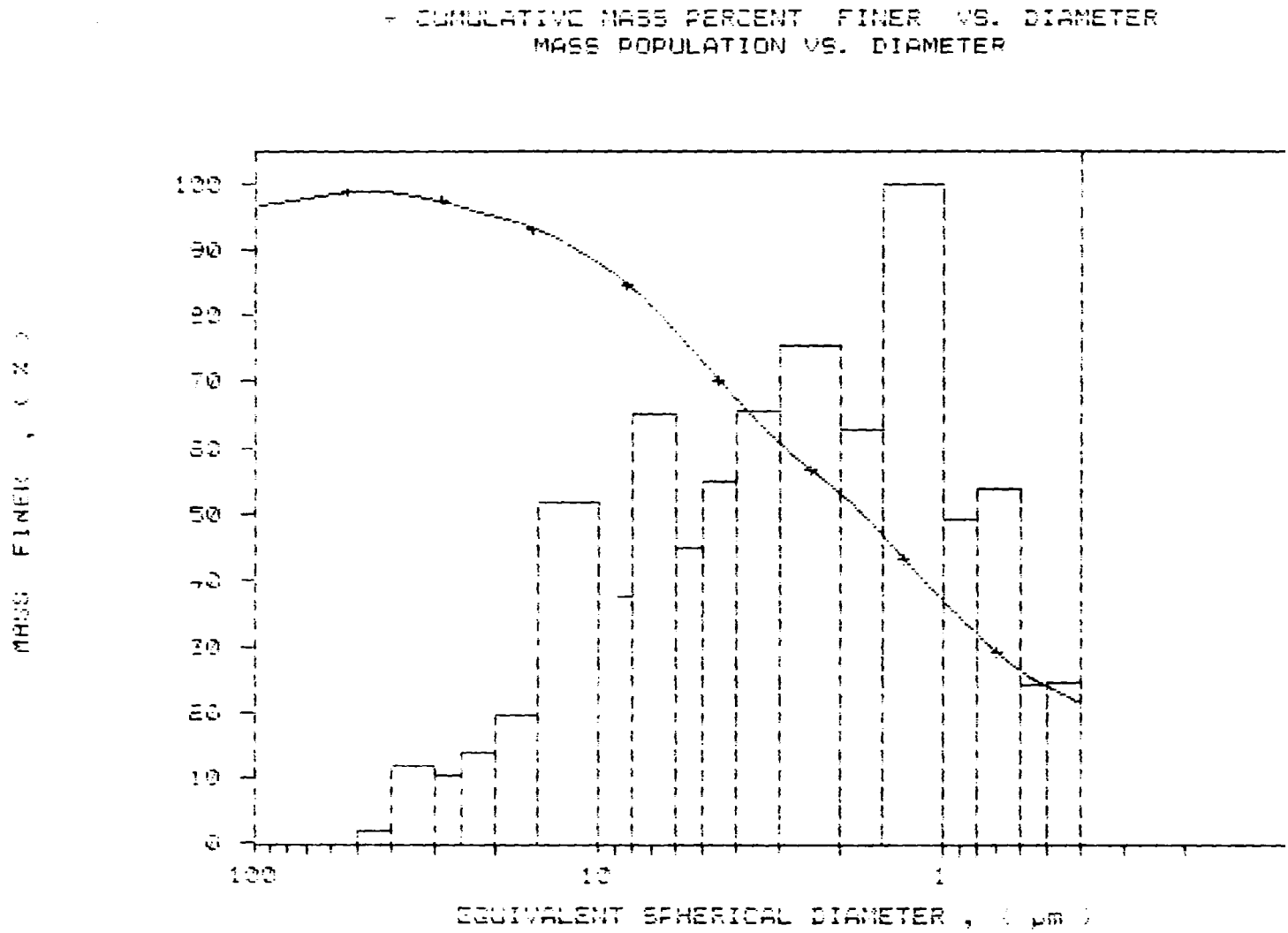
K. Malmstrom

Hole 92-11 # 16770

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /294
SAMPLE ID: Hole 92-11 # 16770
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 103 kilocounts/sec

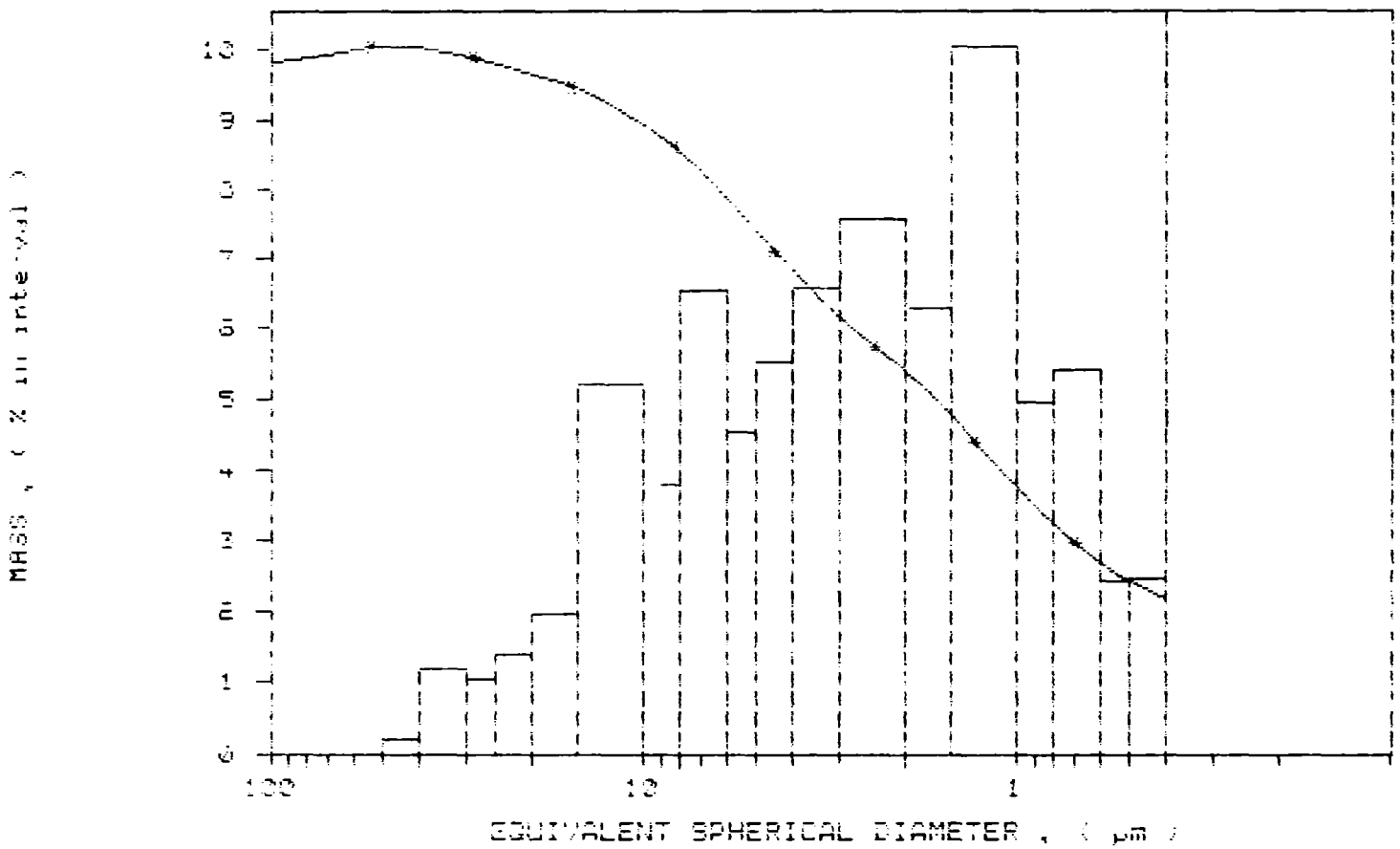
UNIT NUMBER: 1
START 14:13:41 10/28/94
REPRT 14:25:34 10/28/94
TOT RUN TIME 0:07:18
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7638 cp
RUN TYPE: High Speed



SAMPLE DIRECTORY/NUMBER: DATA7 /294
SAMPLE ID: Hole 92-11 # 16770
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 103 kilocounts/sec

UNIT NUMBER: 1
START 14:13:41 10/28/94
REPRT 14:25:34 10/28/94
TOT RUN TIME 0:07:18
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7638 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole 92-11 # 16771

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /295
SAMPLE ID: Hole92-11 # 16771
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 98 kilocounts/sec

UNIT NUMBER: 1
START 14:34:14 10/28/94
REPRT 14:46:11 10/28/94
TOT RUN TIME 0:07:24
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7636 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.93 µm

MODAL DIAMETER: 6.30 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	97.7	2.3
80.00	98.0	-0.3
60.00	98.3	-0.3
50.00	98.2	0.1
40.00	97.8	0.4
30.00	97.3	0.5
25.00	96.7	0.6
20.00	94.7	1.9
15.00	90.8	4.0
10.00	84.2	6.5
8.00	80.4	3.9
6.00	73.8	6.6
5.00	69.6	4.2
4.00	64.5	5.1
3.00	58.5	6.0
2.00	50.7	7.8
1.50	45.3	5.4
1.00	37.3	8.0
0.80	33.4	3.9
0.60	28.8	4.6
0.50	26.2	2.6
0.40	23.0	3.2

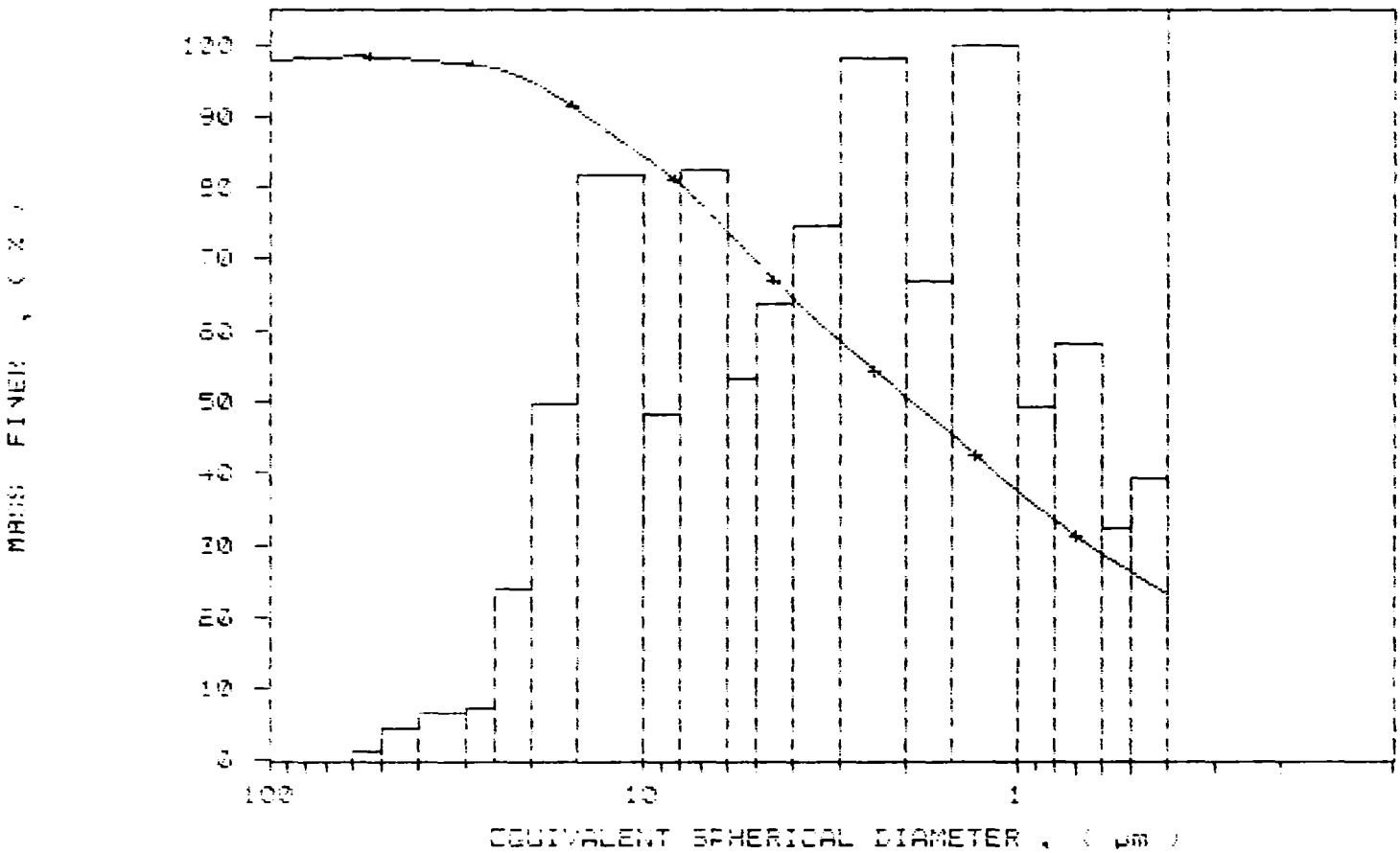
Hole 92-11 # 16771

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /295
SAMPLE ID: Hole92-11 # 16771
SUBMITTER: MRO Int.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 98 kilocounts/sec

UNIT NUMBER: 1
START 14:34:14 10/28/94
REPRT 14:46:11 10/28/94
TOT RUN TIME 0:07:24
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7636 cp
RUN TYPE: High Speed

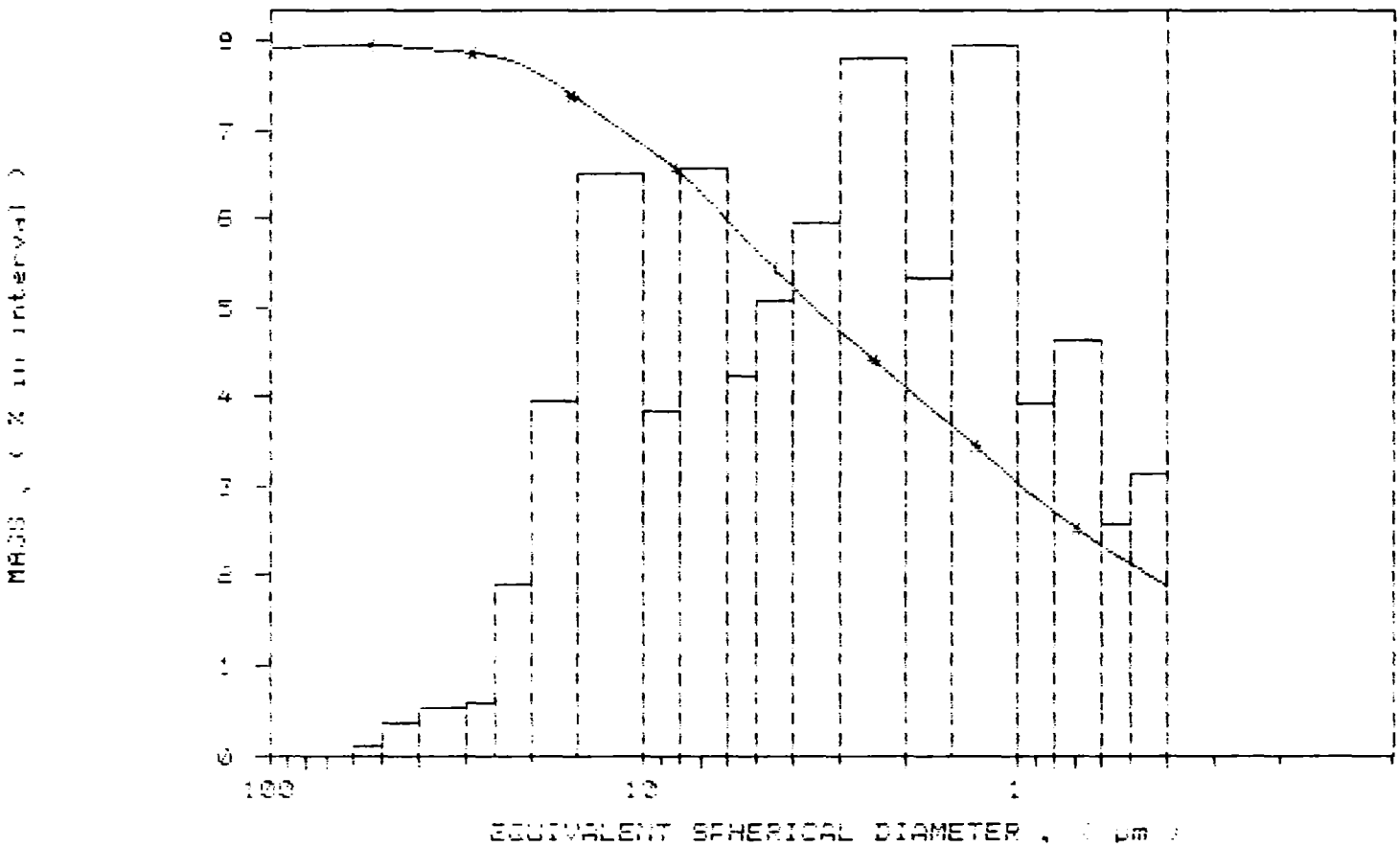
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /295
SAMPLE ID: Hole92-11 # 16771
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 98 kilocounts/sec

UNIT NUMBER: 1
START 14:34:14 10/28/94
REPRT 14:46:11 10/28/94
TOT RUN TIME 0:07:24
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7636 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole 92-11 # 16772

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /296
SAMPLE ID: Hole 92-11 # 16772
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 97 kilocounts/sec

UNIT NUMBER: 1
START 14:53:32 10/28/94
REPRT 15:01:20 10/28/94
TOT RUN TIME 0:07:26
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7636 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.29 µm

MODAL DIAMETER: 0.48 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	98.1	1.9
80.00	98.6	-0.5
60.00	99.1	-0.5
50.00	98.7	0.3
40.00	98.0	0.8
30.00	97.3	0.7
25.00	96.5	0.8
20.00	94.8	1.7
15.00	91.8	3.0
10.00	87.0	4.8
8.00	84.1	2.9
6.00	79.9	4.2
5.00	76.7	3.2
4.00	72.2	4.5
3.00	66.5	5.7
2.00	59.1	7.4
1.50	53.2	5.8
1.00	44.5	8.7
0.80	39.8	4.7
0.60	33.1	6.7
0.50	28.1	5.0
0.40	21.9	6.2

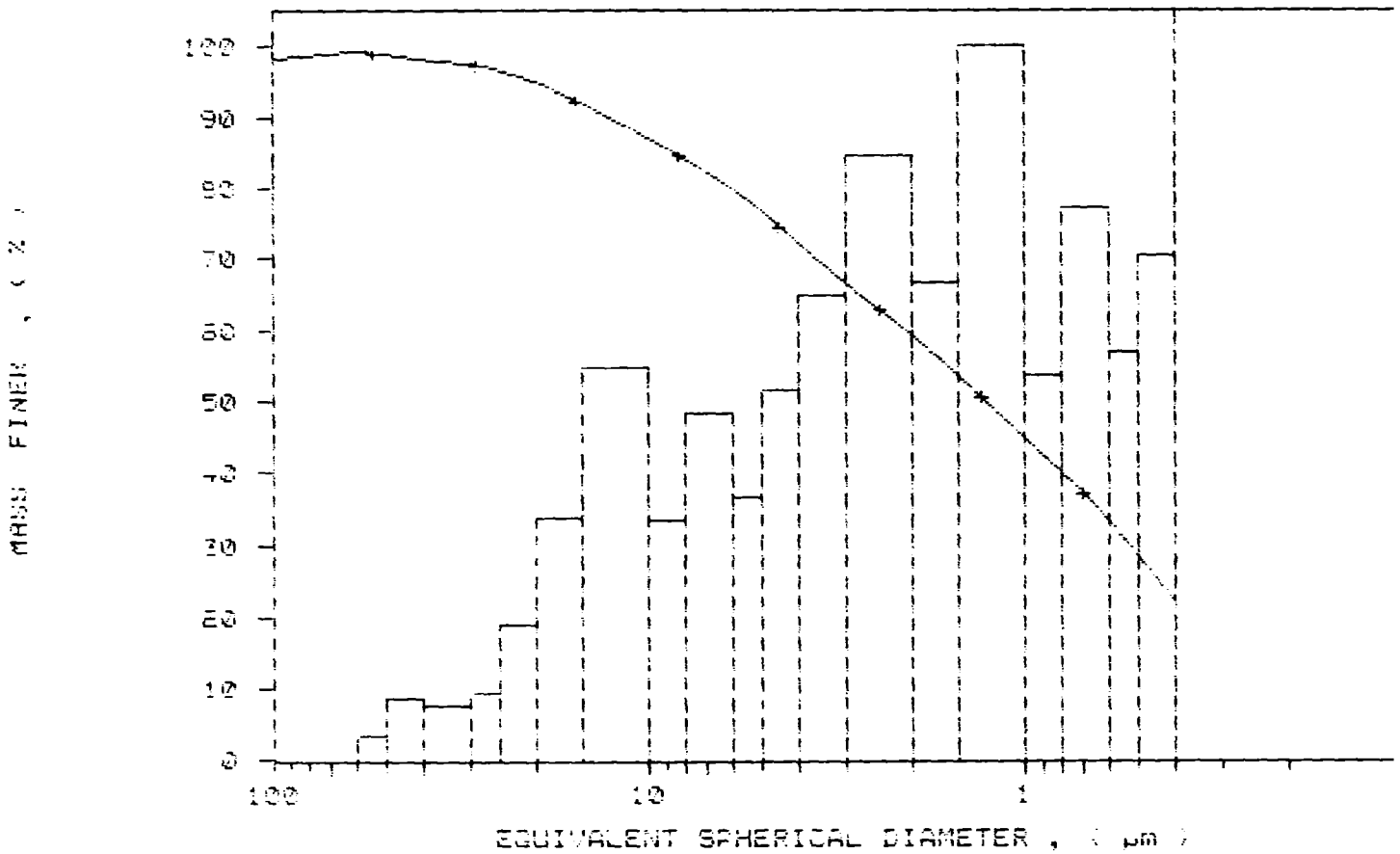
L. Malinskow

000078

SAMPLE DIRECTORY/NUMBER: DATA7 /296
SAMPLE ID: Hole 92-11 # 16772
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 97 kilocounts/sec

UNIT NUMBER: 1
START 14:53:32 10/28/9
REPRT 15:01:20 10/28/9
TOT RUN TIME 0:07:2
SAM DENS: 2.6000 g/c
LIQ DENS: 0.9950 g/c
LIQ VISC: 0.7636 cp
RUN TYPE: High Speed

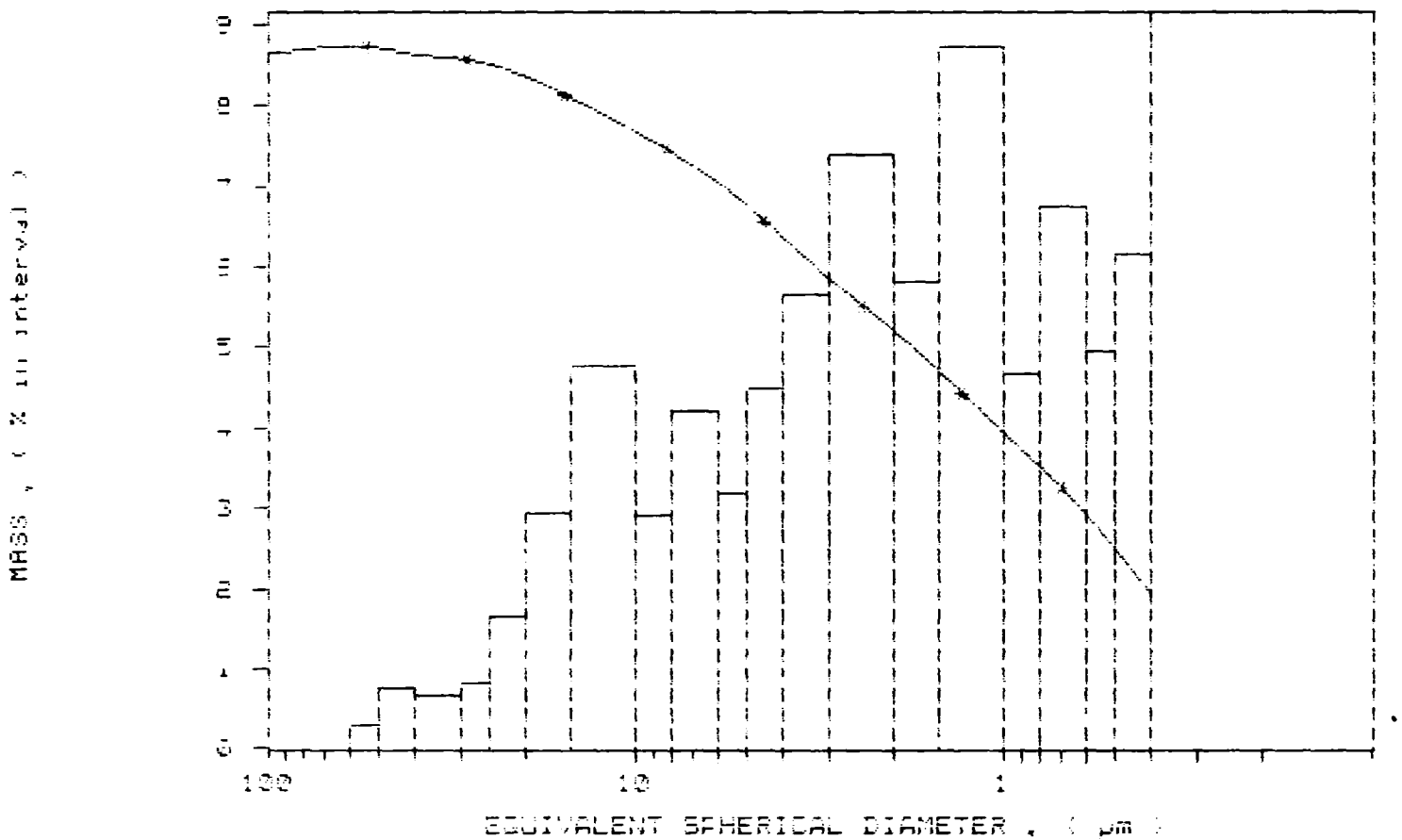
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /296
SAMPLE ID: Hole 92-11 # 16772
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 97 kilocounts/sec

UNIT NUMBER: 1
START 14:53:32 10/28/94
REPRT 15:01:20 10/28/94
TOT RUN TIME 0:07:26
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7636 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole 92-11 # 16773

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /297
SAMPLE ID: Hole 92-11 # 16773
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 103 kilocounts/sec

UNIT NUMBER: 1
START 15:15:33 10/28/94
REPRT 15:27:36 10/28/94
TOT RUN TIME 0:07:30
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7636 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.40 µm

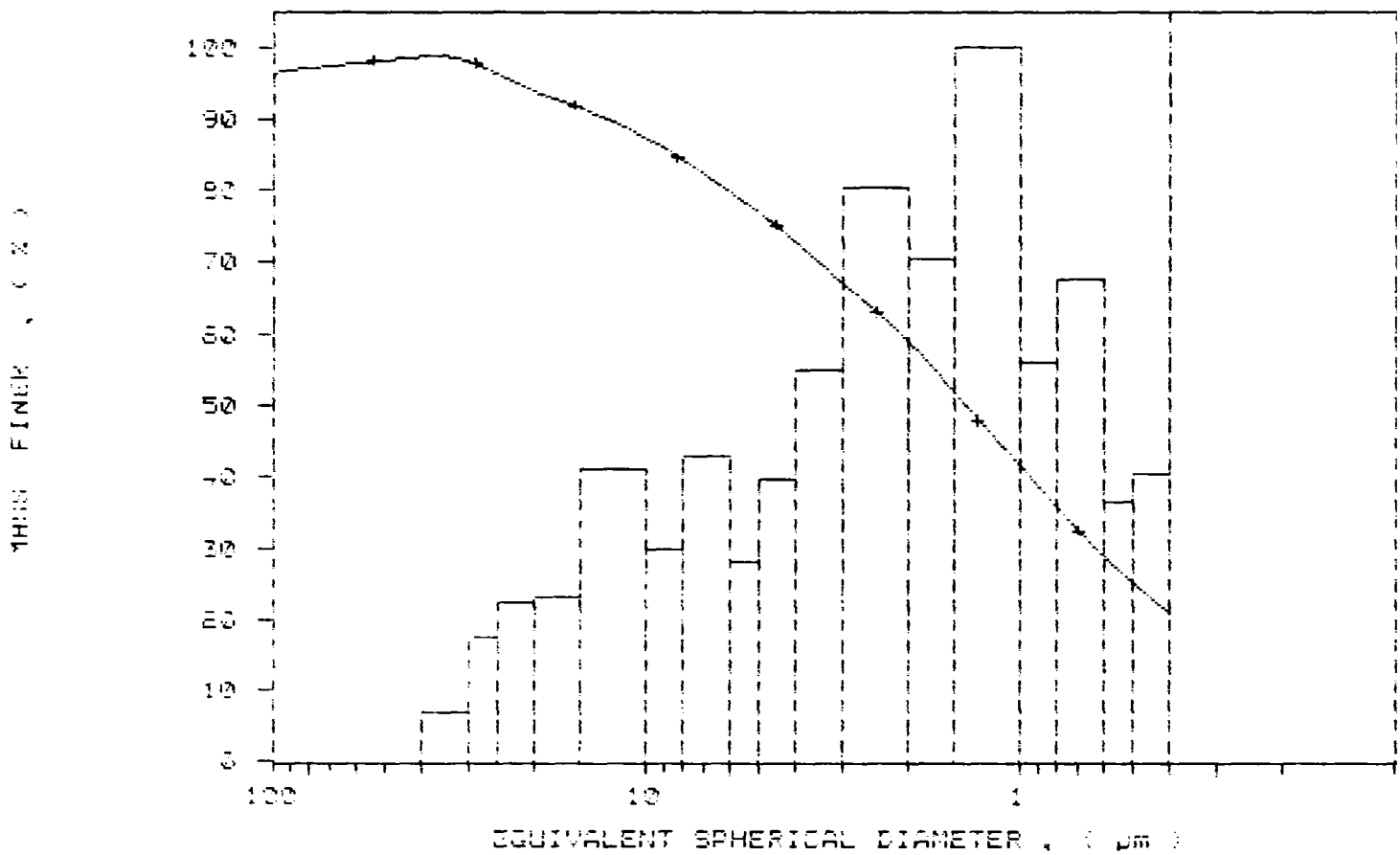
MODAL DIAMETER: 1.55 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	96.4	3.6
80.00	97.1	-0.6
60.00	97.7	-0.6
50.00	98.2	-0.4
40.00	98.7	-0.5
30.00	98.0	0.7
25.00	96.1	1.8
20.00	93.8	2.3
15.00	91.4	2.4
10.00	87.2	4.2
8.00	84.1	3.1
6.00	79.7	4.4
5.00	76.8	2.9
4.00	72.8	4.1
3.00	67.1	5.6
2.00	58.9	8.2
1.50	51.7	7.2
1.00	41.5	10.2
0.80	35.7	5.7
0.60	28.8	6.9
0.50	25.1	3.7
0.40	20.9	4.2

SAMPLE DIRECTORY/NUMBER: DATA7 /297
SAMPLE ID: Hole 92-11 # 16773
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 103 kilocounts/sec

UNIT NUMBER: 1
START 15:15:33 10/28/94
REPRT 15:27:36 10/28/94
TOT RUN TIME 0:07:30
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7636 cp
RUN TYPE: High Speed

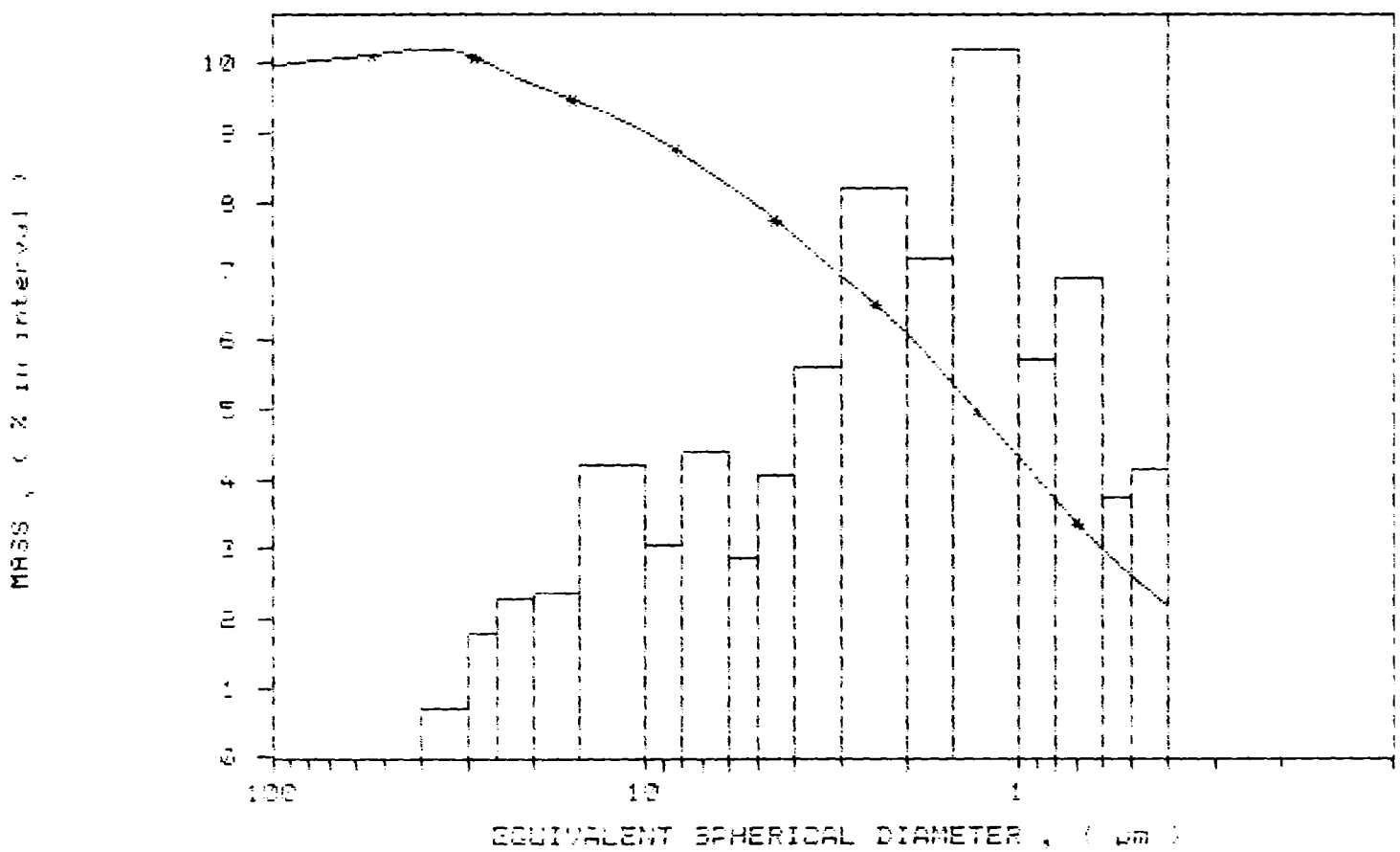
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /297
SAMPLE ID: Hole 92-11 # 16773
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 103 kilocounts/sec

UNIT NUMBER: 1
START 15:15:33 10/28/94
REPRT 15:27:36 10/28/94
TOT RUN TIME 0:07:30
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7636 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole 92- 11 # 16774

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /298
SAMPLE ID: Hole 92-11 # 16774
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 96 kilocounts/sec

UNIT NUMBER: 1
START 15:35:03 10/28/94
REPRT 15:47:08 10/28/94
TOT RUN TIME 0:07:32
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7635 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.25 µm
MODAL DIAMETER: 1.69 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	101.9	-1.9
80.00	100.8	1.1
60.00	99.5	1.3
50.00	99.0	0.5
40.00	98.9	0.2
30.00	98.8	0.1
25.00	98.4	0.4
20.00	97.3	1.1
15.00	95.3	2.0
10.00	89.1	6.2
8.00	84.3	4.8
6.00	76.8	7.5
5.00	71.5	5.3
4.00	65.2	6.3
3.00	57.4	7.8
2.00	46.8	10.6
1.50	37.9	8.9
1.00	28.6	9.3
0.80	25.6	3.0
0.60	22.4	3.2
0.50	20.4	2.0
0.40	17.6	2.8

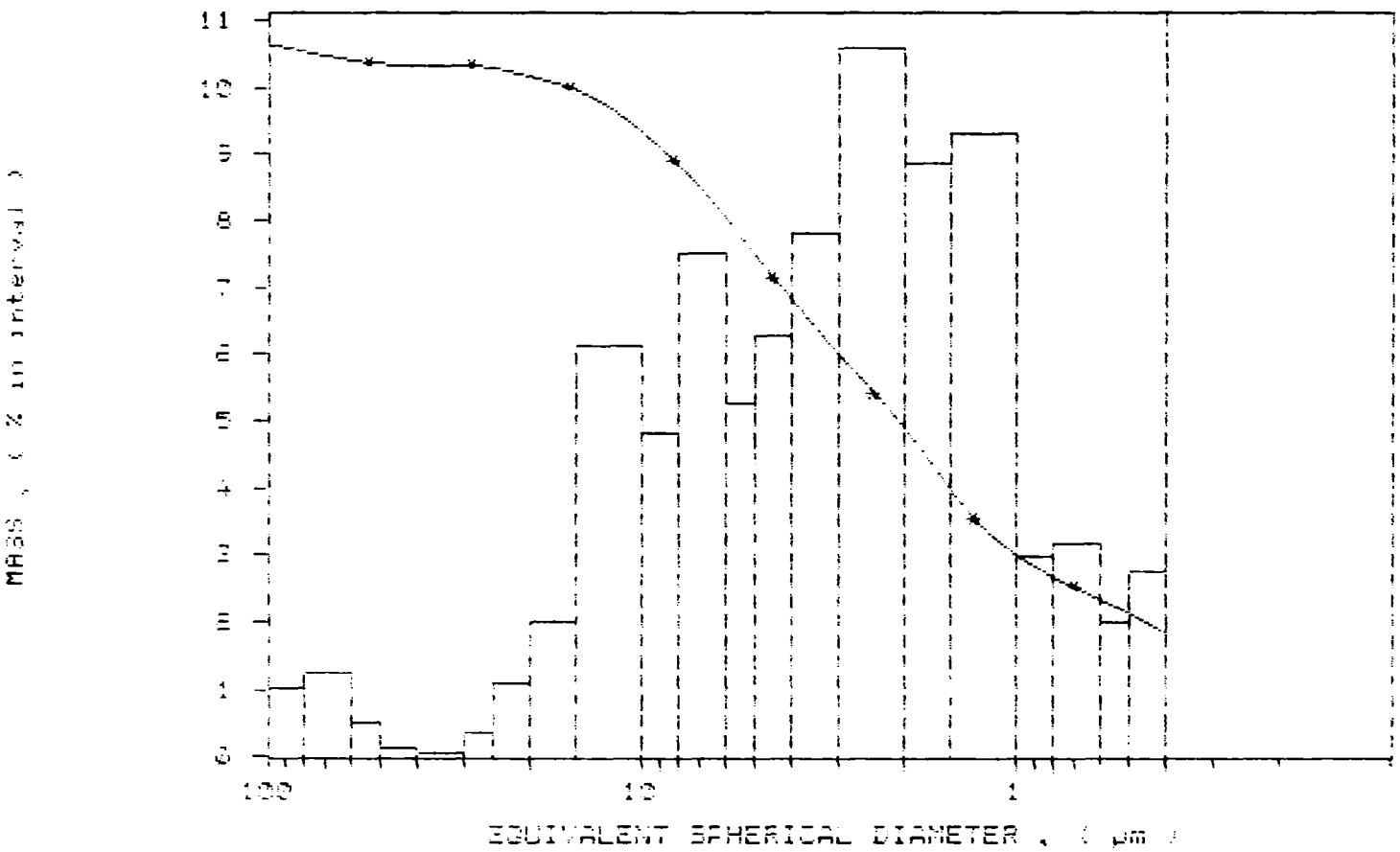
H. Malmstrom

000078

SAMPLE DIRECTORY/NUMBER: DATA7 /298
SAMPLE ID: Hole 92-11 # 16774
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 96 kilocounts/sec

UNIT NUMBER: 1
START 15:35:03 10/28/94
REPRT 15:47:08 10/28/94
TOT RUN TIME 0:07:32
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7635 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /299
SAMPLE ID: Hole 92-11 # 16775
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 111 kilocounts/sec

UNIT NUMBER: 1
START 10:32:42 11/01/94
REPRT 10:40:31 11/01/94
TOT RUN TIME 0:07:28
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7638 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 um
ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.23 um
MODAL DIAMETER: 2.75 um

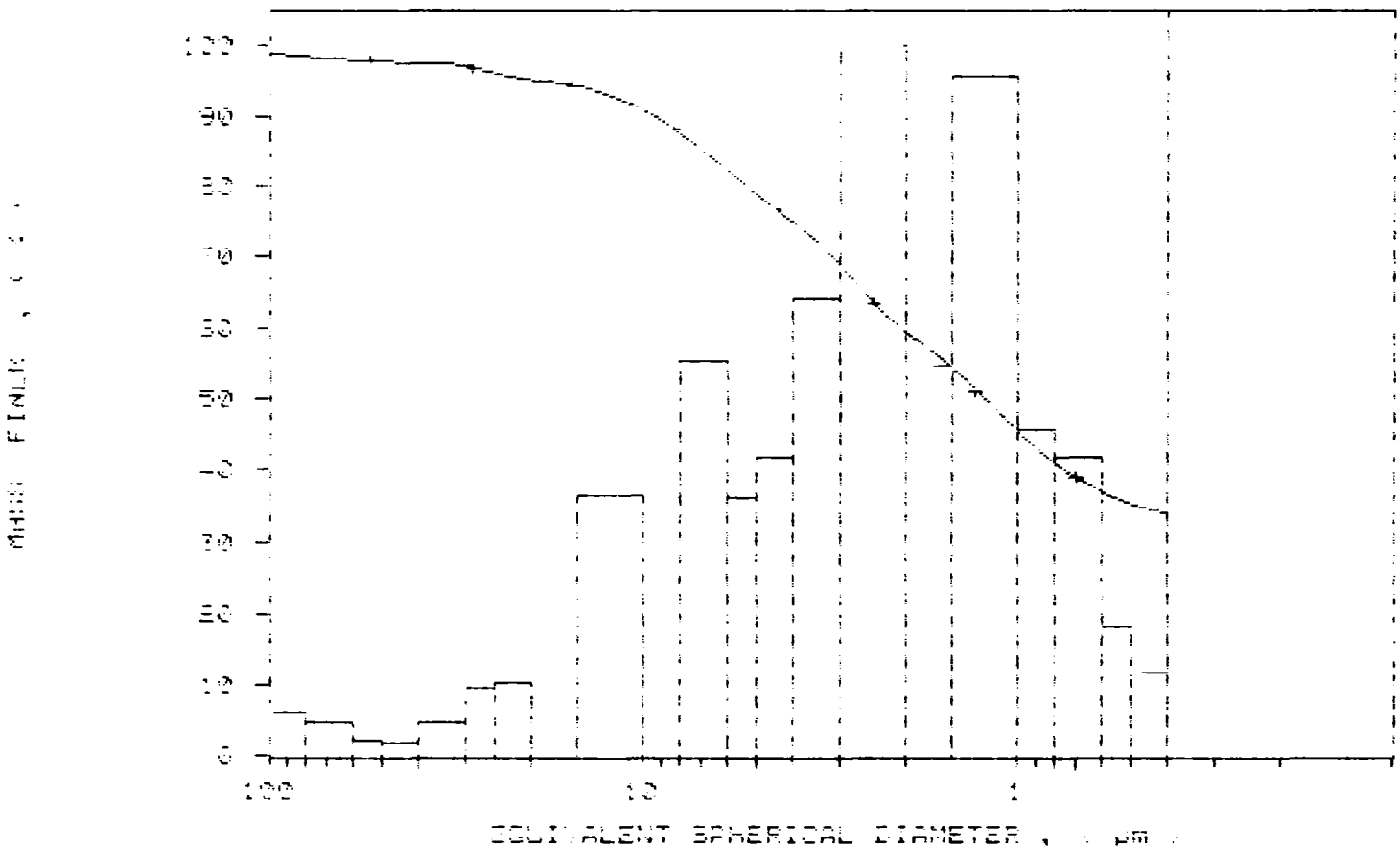
DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	98.9	1.1
80.00	98.3	0.6
60.00	97.9	0.5
50.00	97.6	0.2
40.00	97.5	0.2
30.00	97.0	0.5
25.00	96.1	0.9
20.00	95.1	1.0
15.00	94.2	0.9
10.00	90.8	3.5
8.00	87.5	3.3
6.00	82.3	5.2
5.00	78.8	3.4
4.00	74.9	4.0
3.00	68.8	6.0
2.00	59.4	9.4
1.50	54.3	5.1
1.00	45.3	9.0
0.80	41.0	4.3
0.60	37.0	4.0
0.50	35.3	1.7
0.40	34.2	1.1

DATE L. Malm Stoen

SAMPLE DIRECTORY/NUMBER: DATA7 /299
SAMPLE ID: Hole 92-11 # 16775
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 111 kilocounts/sec

UNIT NUMBER: 1
START 10:32:42 11/01/94
REPRT 10:40:31 11/01/94
TOT RUN TIME 0:07:28
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7638 cp
RUN TYPE: High Speed

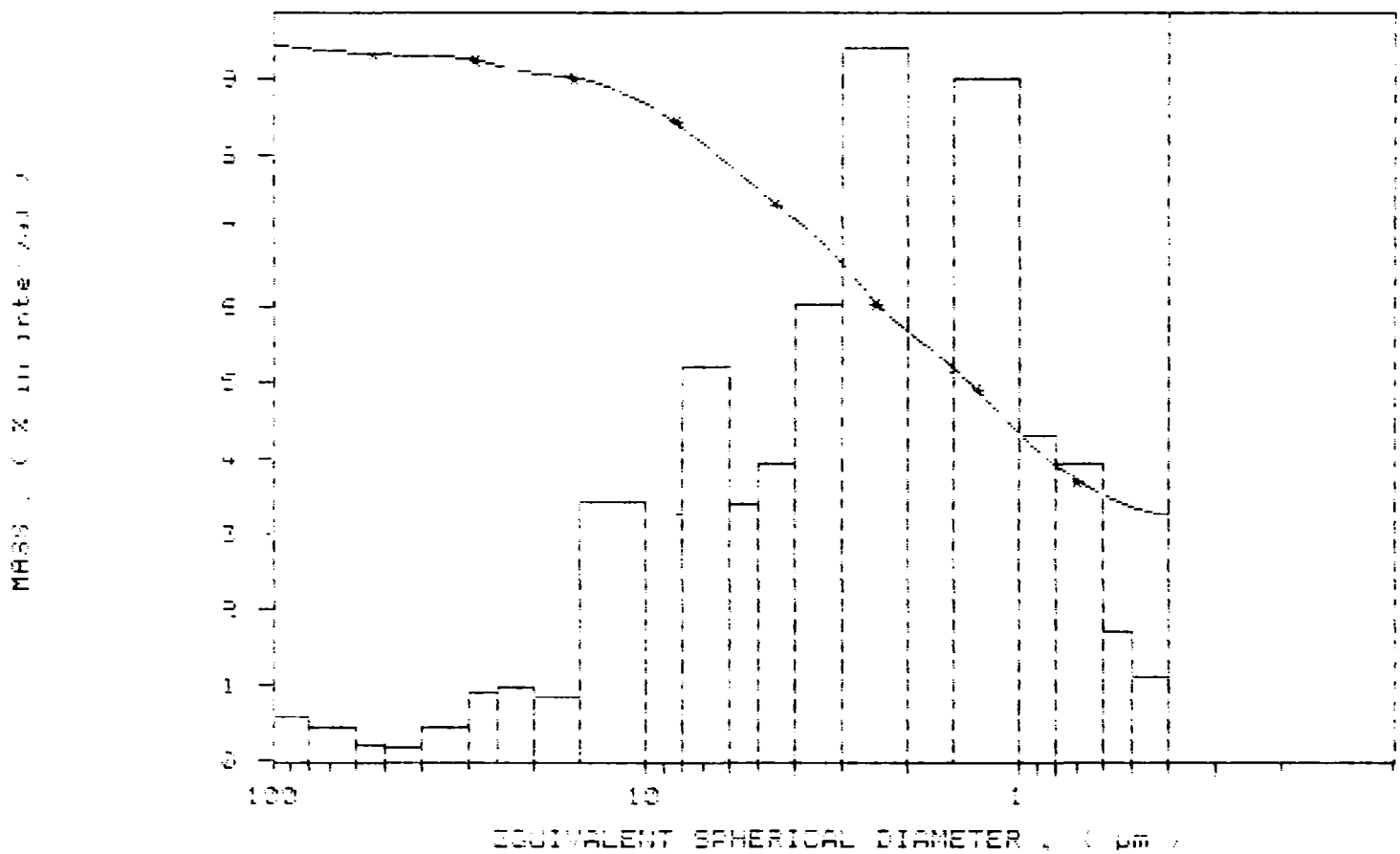
- CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /299
SAMPLE ID: Hole 92-11 # 16775
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 111 kilocounts/sec

UNIT NUMBER: 1
START 10:32:42 11/01/94
REPRT 10:40:31 11/01/94
TOT RUN TIME 0:07:28
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7638 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole 92-11 # 16776

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /300
SAMPLE ID: Hole 92-11 # 16776
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 110 kilocounts/sec

UNIT NUMBER: 1
START 11:01:23 11/01/94
REPRT 11:13:23 11/01/94
TOT RUN TIME 0:07:28
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7632 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 0.65 µm

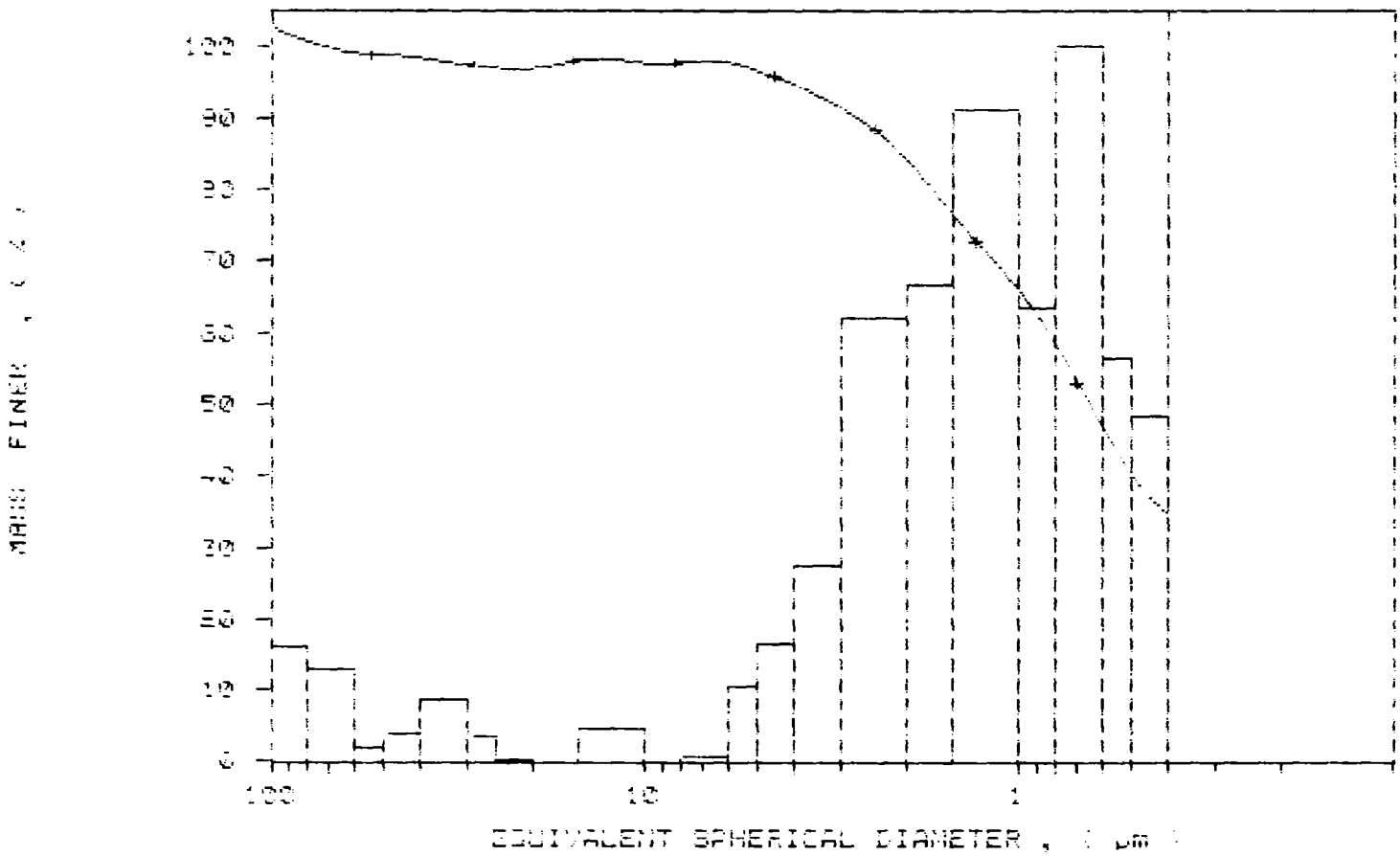
MODAL DIAMETER: 0.67 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	102.5	-2.5
80.00	100.6	1.9
60.00	99.0	1.5
50.00	98.8	0.3
40.00	98.3	0.5
30.00	97.3	1.0
25.00	96.9	0.4
20.00	96.9	0.0
15.00	98.0	-1.2
10.00	97.5	0.5
8.00	97.7	-0.2
6.00	97.6	0.1
5.00	96.4	1.2
4.00	94.5	1.9
3.00	91.3	3.2
2.00	84.0	7.2
1.50	76.3	7.8
1.00	65.7	10.6
0.80	58.3	7.4
0.60	46.7	11.6
0.50	40.1	6.6
0.40	34.4	5.6

SAMPLE DIRECTORY/NUMBER: DATA7 /300
SAMPLE ID: Hole 92-11 # 16776
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 110 kilocounts/sec

UNIT NUMBER: 1
START 11:01:23 11/01/94
REPRT 11:13:23 11/01/94
TOT RUN TIME 0:07:28
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7632 cp
RUN TYPE: High Speed

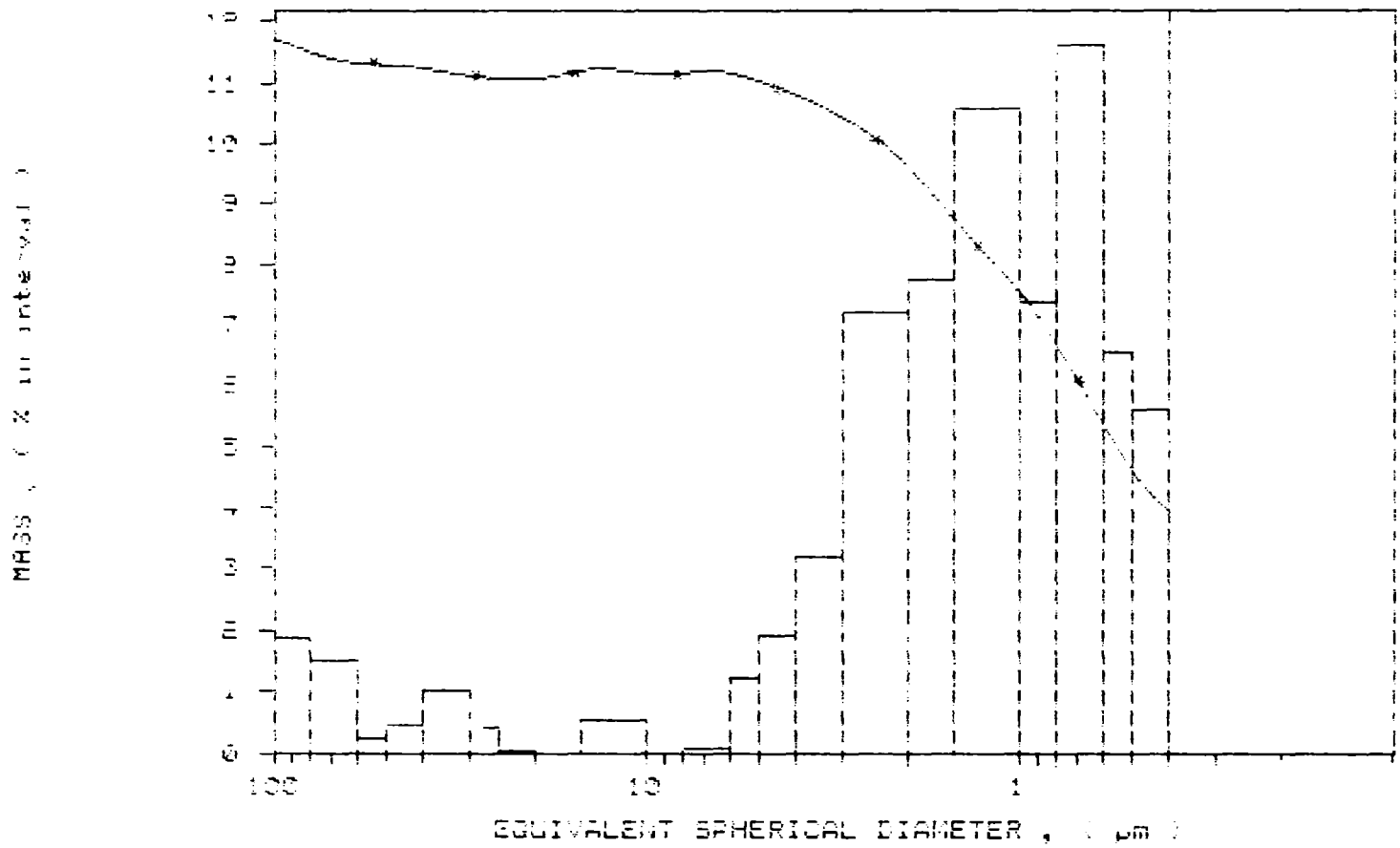
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /300
SAMPLE ID: Hole 92-11 # 16776
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 110 kilocounts/sec

UNIT NUMBER: 1
START 11:01:23 11/01/94
REPRT 11:13:23 11/01/94
TOT RUN TIME 0:07:28
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7632 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /301
SAMPLE ID: Hole 92-11 # 16777
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 94 kilocounts/sec

UNIT NUMBER: 1
START 13:23:34 11/02/94
REPRT 13:31:33 11/02/94
TOT RUN TIME 0:07:39
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7632 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 um
ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.04 um
MODAL DIAMETER: 3.14 um

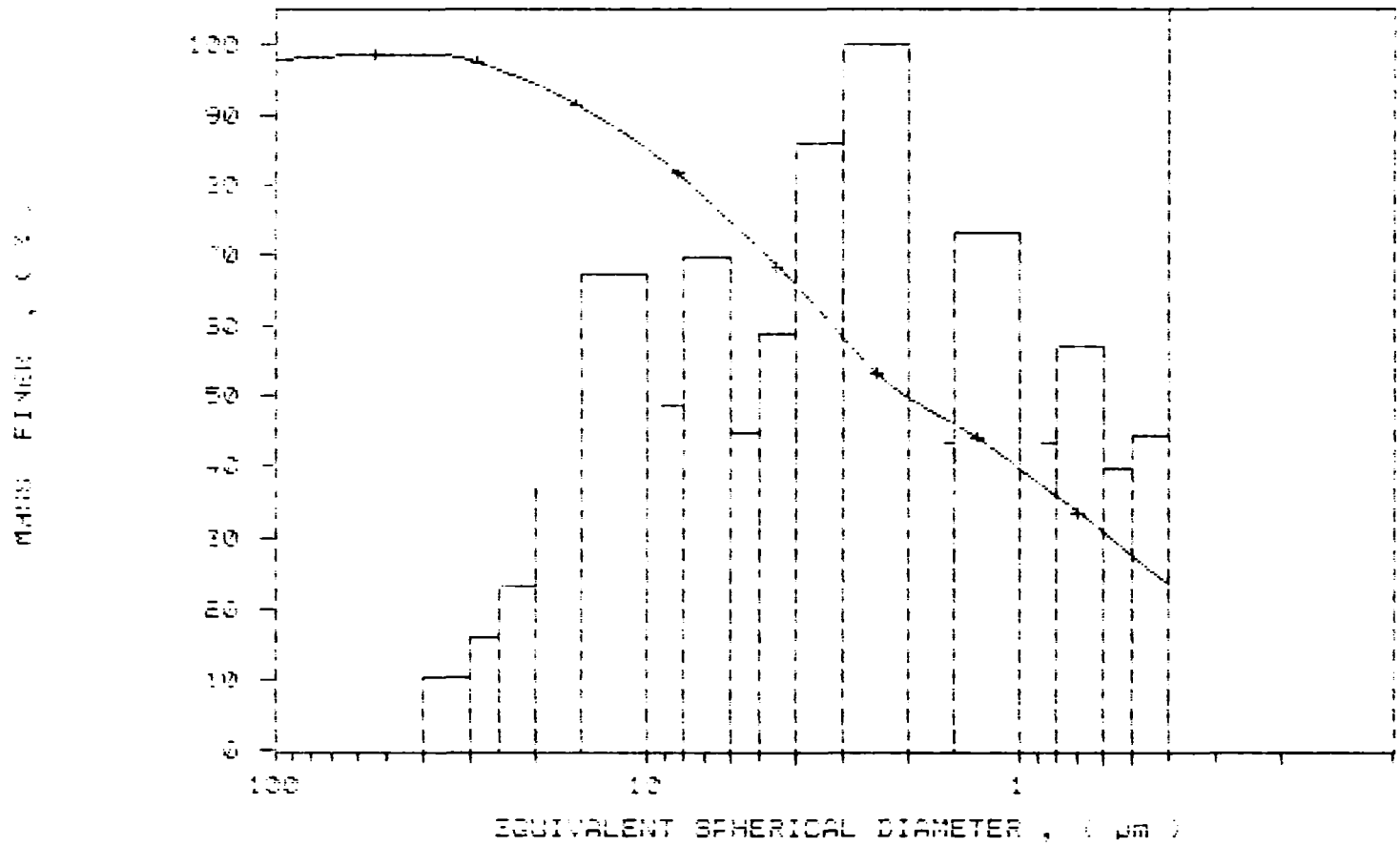
DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	97.8	2.2
80.00	98.1	-0.3
60.00	98.4	-0.3
50.00	98.6	-0.1
40.00	98.6	-0.0
30.00	97.7	0.9
25.00	96.3	1.4
20.00	94.2	2.0
15.00	91.0	3.3
10.00	85.1	5.8
8.00	80.9	4.2
6.00	74.8	6.1
5.00	70.9	3.9
4.00	65.8	5.1
3.00	58.4	7.5
2.00	49.7	8.7
1.50	45.9	3.8
1.00	39.6	6.4
0.80	35.8	3.8
0.60	30.8	5.0
0.50	27.4	3.5
0.40	23.5	3.9

L. Malmstrom

SAMPLE DIRECTORY/NUMBER: DATA7 /301
SAMPLE ID: Hole 92-11 # 16777
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 94 kilocounts/sec

UNIT NUMBER: 1
START 13:23:34 11/02/94
REPRT 13:31:33 11/02/94
TOT RUN TIME 0:07:39
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7632 cp
RUN TYPE: High Speed

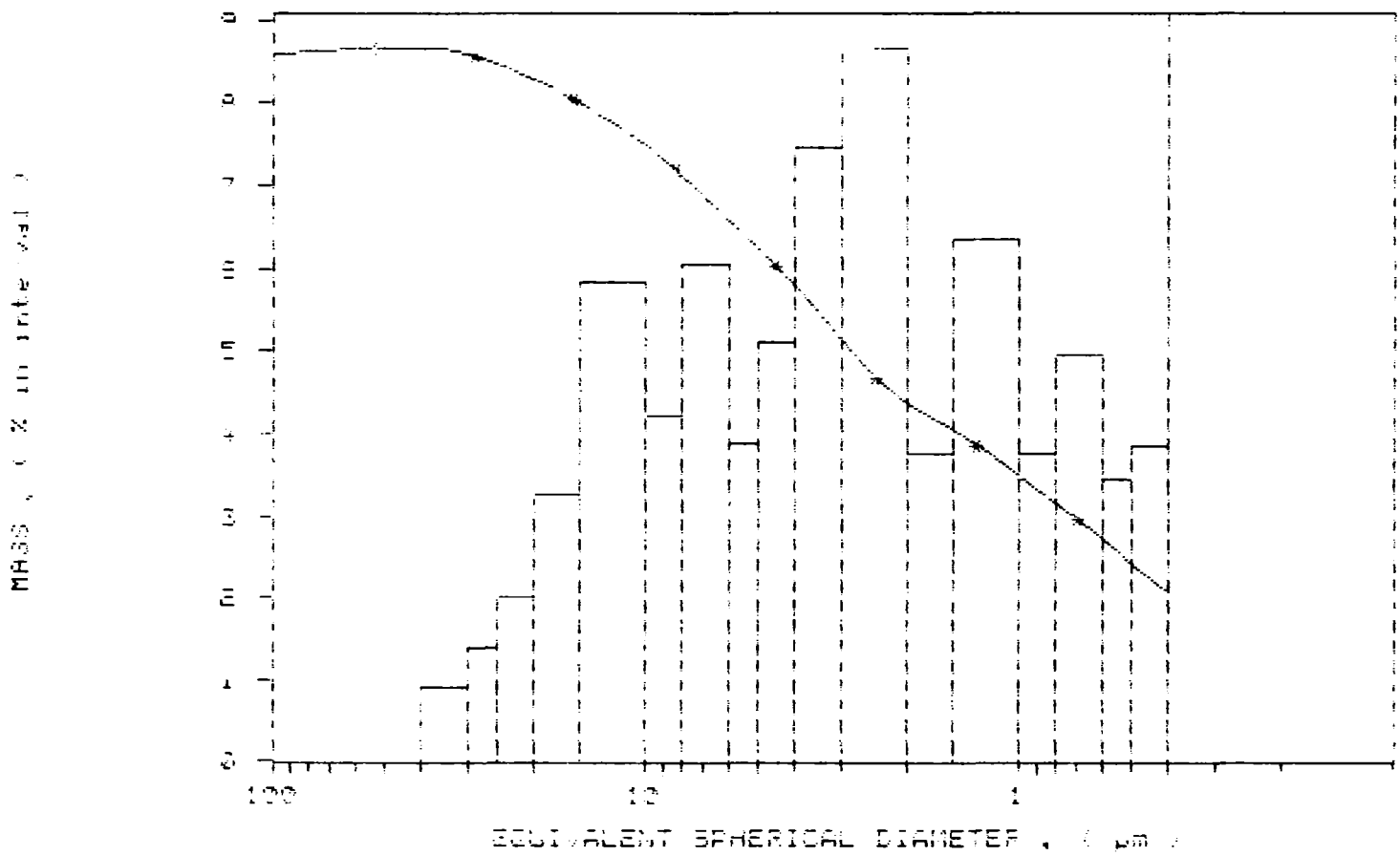
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /301
SAMPLE ID: Hole 92-11 # 16777
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 94 kilocounts/sec

UNIT NUMBER: 1
START 13:23:34 11/02/94
REPRT 13:31:33 11/02/94
TOT RUN TIME 0:07:39
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7632 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /302
SAMPLE ID: Hole 92-11 # 16778
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 105 kilocounts/sec

UNIT NUMBER: 1
START 13:44:09 11/02/94
REPRT 13:51:57 11/02/94
TOT RUN TIME 0:07:27
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7634 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.28 µm
MODAL DIAMETER: 1.16 µm

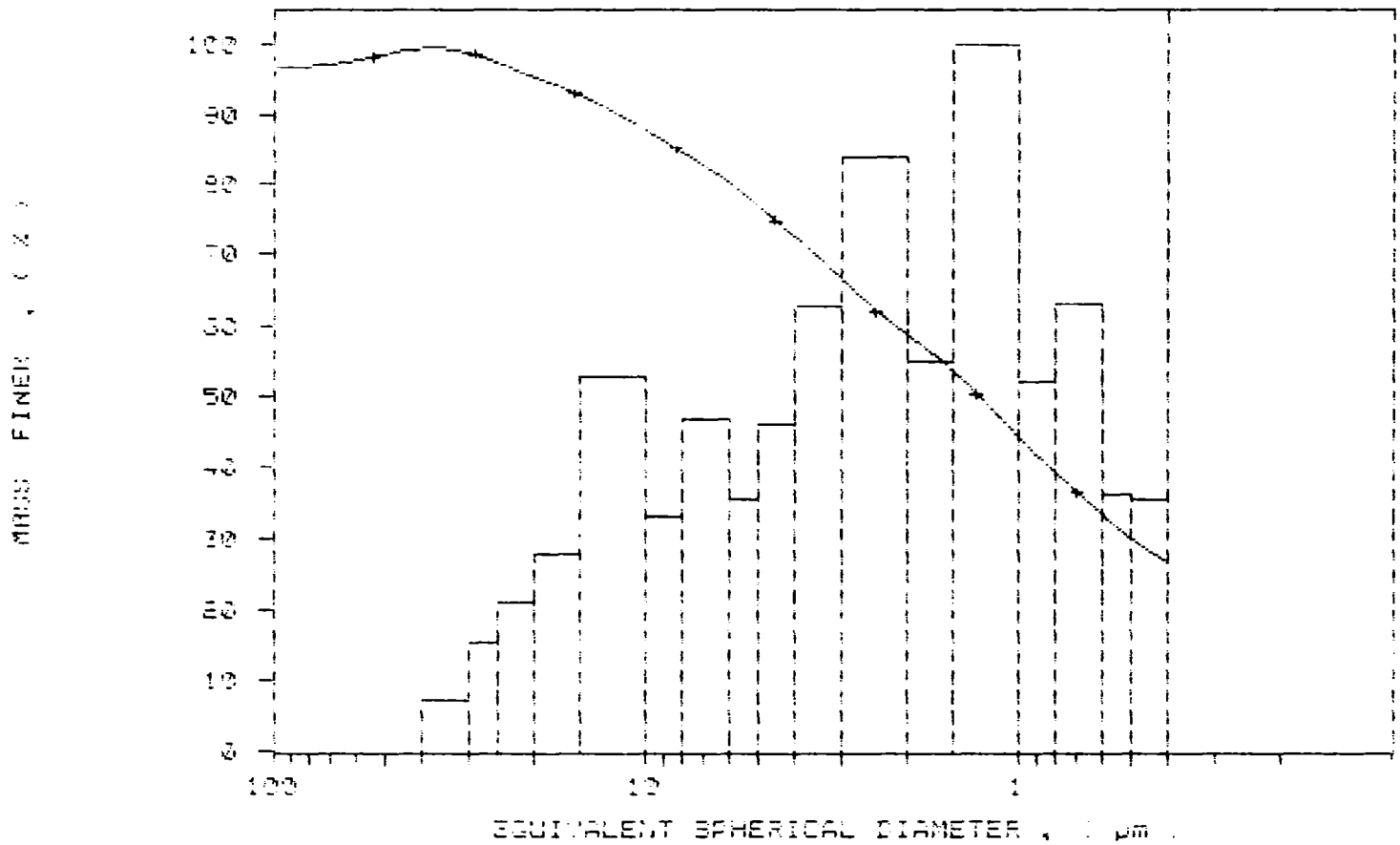
DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	96.8	3.2
80.00	96.9	-0.1
60.00	97.7	-0.8
50.00	98.6	-0.9
40.00	99.4	-0.8
30.00	98.7	0.7
25.00	97.3	1.5
20.00	95.3	2.0
15.00	92.7	2.6
10.00	87.7	5.0
8.00	84.6	3.1
6.00	80.2	4.4
5.00	76.8	3.3
4.00	72.5	4.3
3.00	66.6	5.9
2.00	58.7	7.9
1.50	53.6	5.2
1.00	44.2	9.4
0.80	39.3	4.9
0.60	33.4	5.9
0.50	29.9	3.4
0.40	26.6	3.4

L. Malmstrom

SAMPLE DIRECTORY/NUMBER: DATA7 /302
SAMPLE ID: Hole 92-11 # 16778
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 105 kilocounts/sec

UNIT NUMBER: 1
START 13:44:09 11/02/94
REPRT 13:51:57 11/02/94
TOT RUN TIME 0:07:27
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7634 cp
RUN TYPE: High Speed

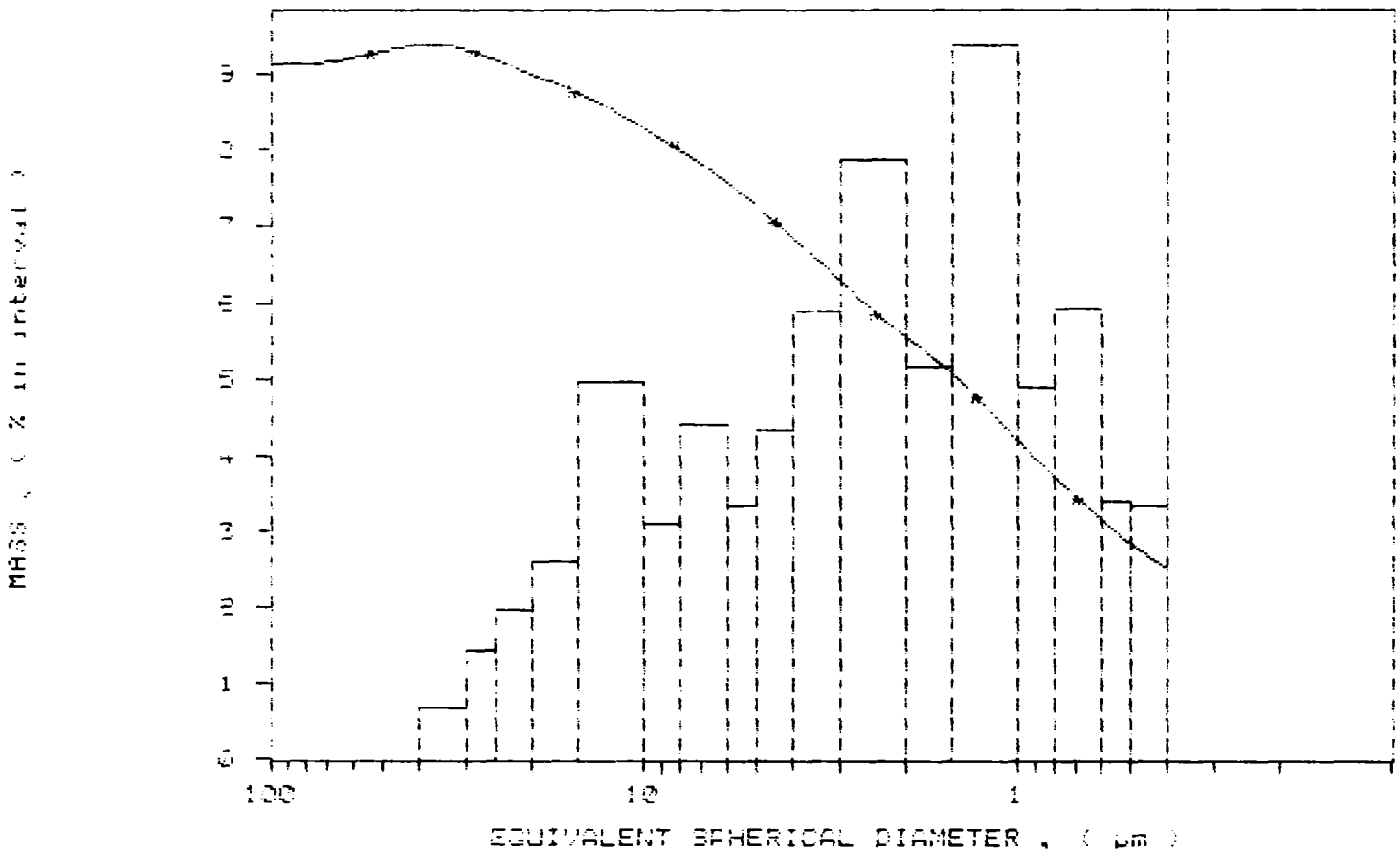
- CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /302
SAMPLE ID: Hole 92-11 # 16778
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 105 kilocounts/sec

UNIT NUMBER: 1
START 13:44:09 11/02/94
REPRT 13:51:57 11/02/94
TOT RUN TIME 0:07:27
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7634 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /303
SAMPLE ID: Hole 92-11 # 16779
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 104 kilocounts/sec

UNIT NUMBER: 1
START 14:24:39 11/02/94
REPRT 14:32:23 11/02/94
TOT RUN TIME 0:07:25
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7636 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.26 µm
MODAL DIAMETER: 0.75 µm

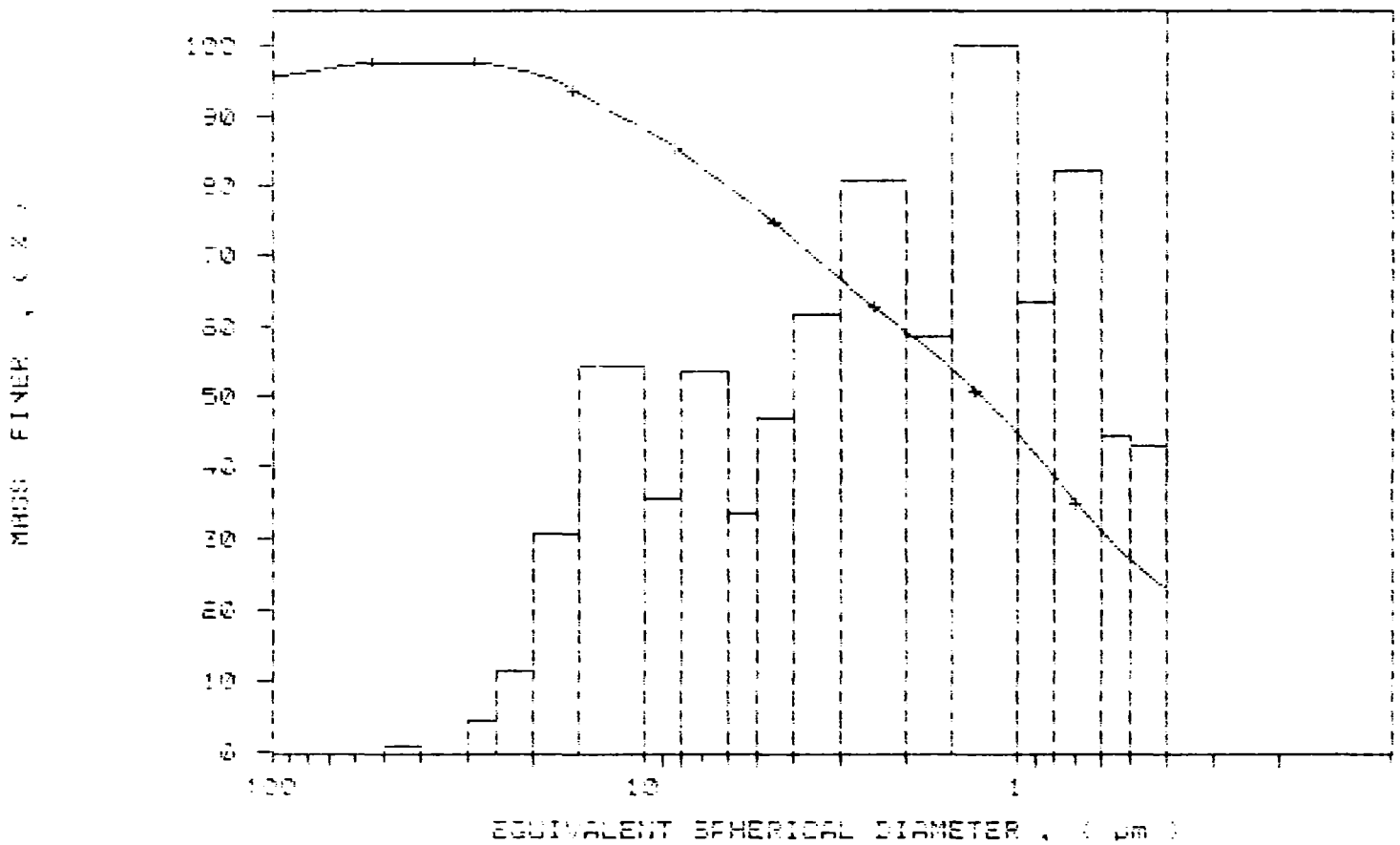
DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	95.5	4.5
80.00	96.2	-0.7
60.00	97.2	-1.0
50.00	97.4	-0.2
40.00	97.3	0.1
30.00	97.5	-0.2
25.00	97.1	0.4
20.00	96.0	1.1
15.00	93.1	2.8
10.00	88.1	5.0
8.00	84.8	3.3
6.00	79.8	5.0
5.00	76.7	3.1
4.00	72.4	4.4
3.00	66.6	5.7
2.00	59.1	7.5
1.50	53.7	5.4
1.00	44.5	9.3
0.80	38.5	5.9
0.60	30.9	7.6
0.50	26.8	4.1
0.40	22.8	4.0

D.V. K. Malmstrom

SAMPLE DIRECTORY/NUMBER: DATA7 /303
SAMPLE ID: Hole 92-11 # 16779
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 104 kilocounts/sec

UNIT NUMBER: 1
START 14:24:39 11/02/94
REPRT 14:32:23 11/02/94
TOT RUN TIME 0:07:25
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7636 cp
RUN TYPE: High Speed

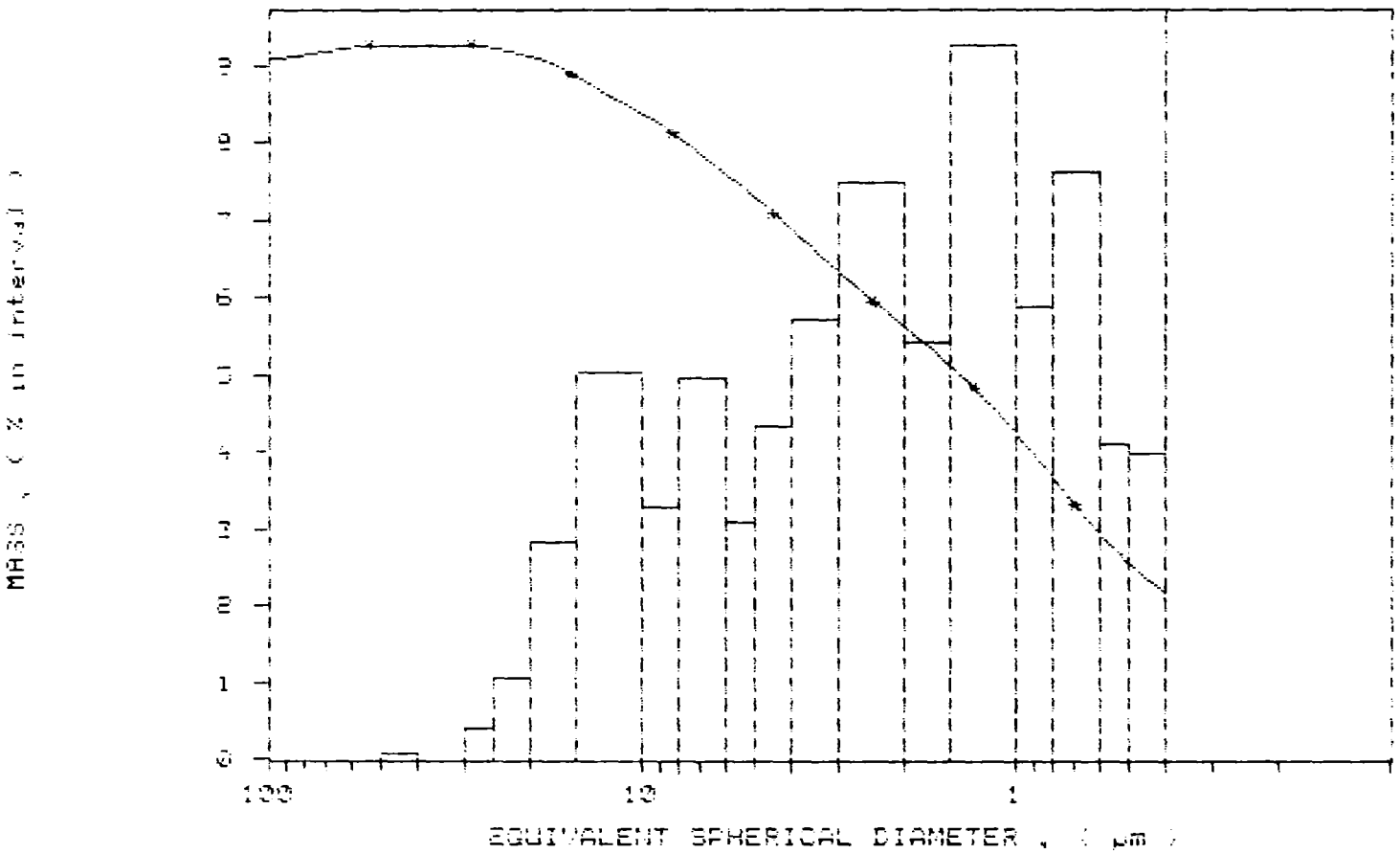
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /303
SAMPLE ID: Hole 92-11 # 16779
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 104 kilocounts/sec

UNIT NUMBER: 1
START 14:24:39 11/02/94
REPRT 14:32:23 11/02/94
TOT RUN TIME 0:07:25
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7636 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole 92-11 # 16780

SediGraph 5100 V3.02 PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA7 /304
SAMPLE ID: Hole 92-11 # 16780
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.0 deg C
BASELINE/FULL SCALE: 130/ 102 kilocounts/sec

UNIT NUMBER: 1
START 08:34:06 11/03/94
REPRT 08:46:12 11/03/94
TOT RUN TIME 0:07:35
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9951 g/cc
LIQ VISC: 0.7674 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.48
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.46 µm MODAL DIAMETER: 1.30 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	97.5	2.5
80.00	97.8	-0.3
60.00	98.7	-0.9
50.00	99.3	-0.6
40.00	99.2	0.0
30.00	97.8	1.4
25.00	96.6	1.2
20.00	94.9	1.7
15.00	92.0	2.9
10.00	89.0	3.0
8.00	86.6	2.3
6.00	82.5	4.2
5.00	78.9	3.5
4.00	74.2	4.7
3.00	67.9	6.3
2.00	58.4	9.5
1.50	50.7	7.7
1.00	38.9	11.8
0.80	32.8	6.1
0.60	25.8	7.0
0.50	22.3	3.5
0.40	20.0	2.3

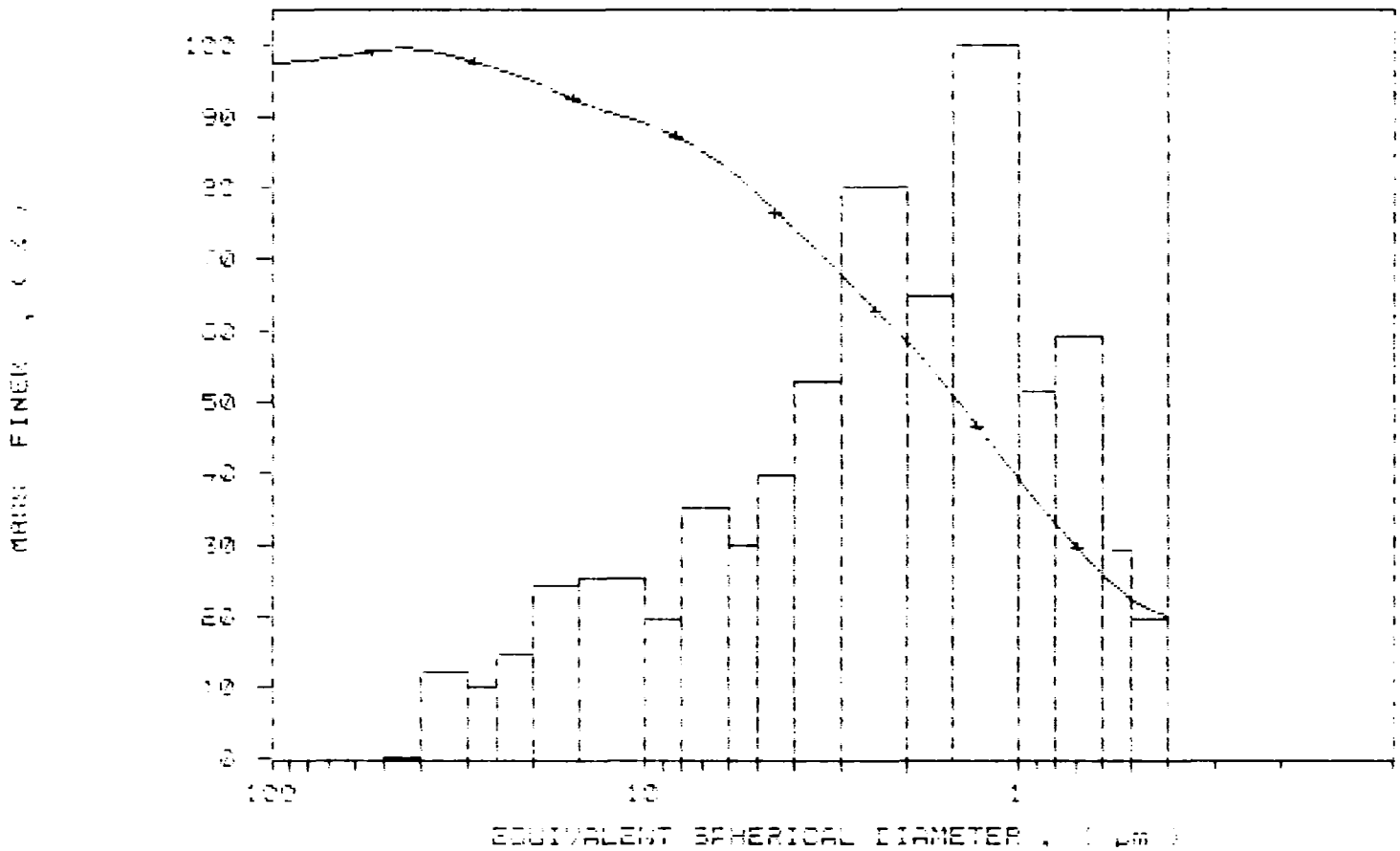
K. Malmstrom

000078

SAMPLE DIRECTORY/NUMBER: DATA7 /304
SAMPLE ID: Hole 92-11 # 16780
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.0 deg C
BASELINE/FULL SCALE: 130/ 102 kilocounts/sec

UNIT NUMBER: 1
START 08:34:06 11/03/94
REPRT 08:46:12 11/03/94
TOT RUN TIME 0:07:35
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9951 g/cc
LIQ VISC: 0.7674 cp
RUN TYPE: High Speed

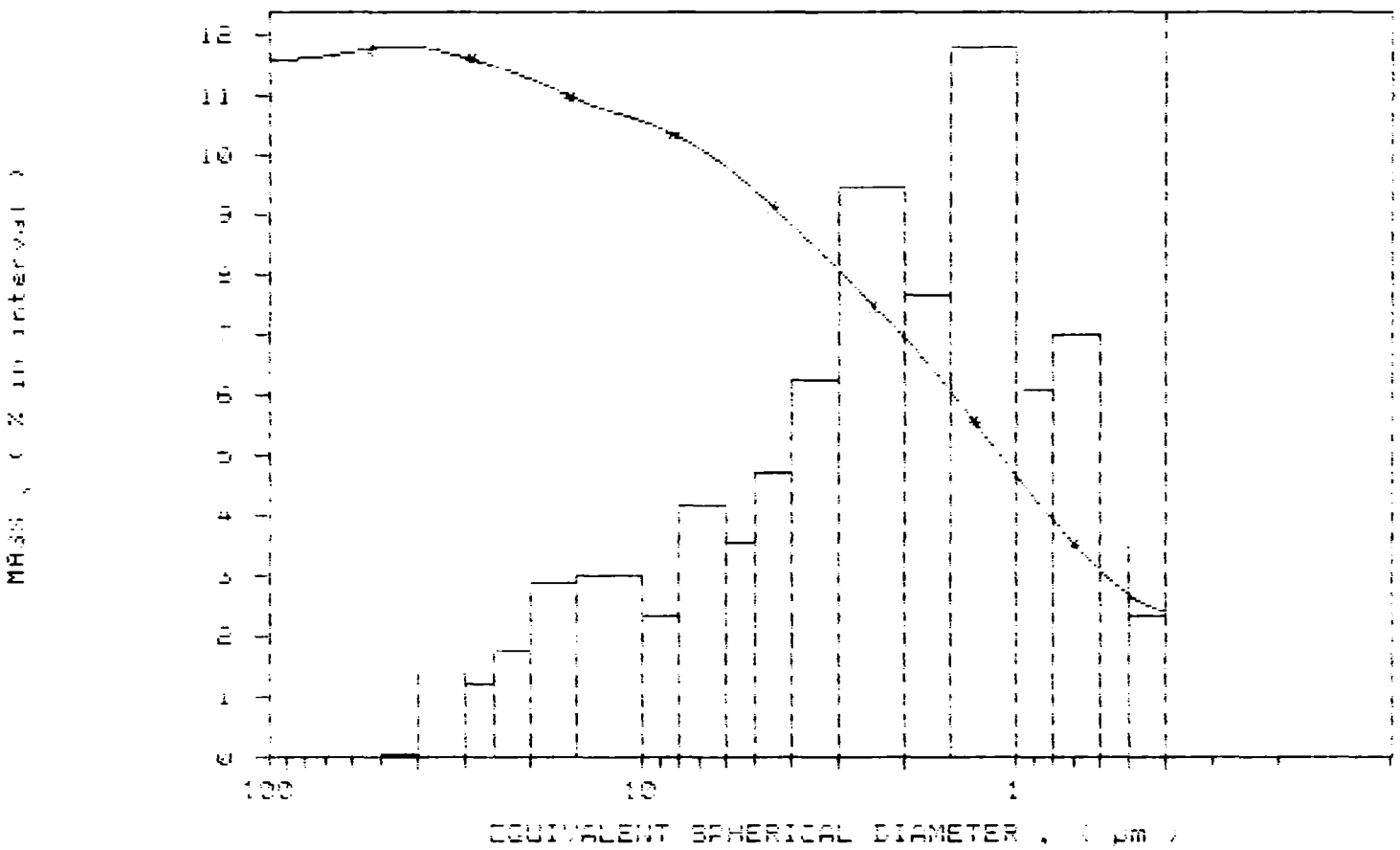
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /304
SAMPLE ID: Hole 92-11 # 16780
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.0 deg C
BASELINE/FULL SCALE: 130/ 102 kilocounts/sec

UNIT NUMBER: 1
START 08:34:06 11/03/94
REPRT 08:46:12 11/03/94
TOT RUN TIME 0:07:35
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9951 g/cc
LIQ VISC: 0.7674 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole 92-11 # 16781

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /305
SAMPLE ID: Hole 92-11 # 16781
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 92 kilocounts/sec

UNIT NUMBER: 1
START 08:54:11 11/03/94
REPRT 09:06:52 11/03/94
TOT RUN TIME 0:07:59
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7638 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.10 µm

MODAL DIAMETER: 0.40 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	98.0	2.0
80.00	98.4	-0.4
60.00	98.9	-0.5
50.00	99.1	-0.2
40.00	99.2	-0.0
30.00	98.2	1.0
25.00	97.0	1.2
20.00	95.9	1.1
15.00	94.2	1.7
10.00	90.5	3.6
8.00	88.4	2.1
6.00	83.9	4.6
5.00	80.6	3.2
4.00	76.6	4.0
3.00	71.0	5.6
2.00	62.1	9.0
1.50	56.0	6.1
1.00	48.0	8.0
0.80	43.2	4.8
0.60	35.9	7.3
0.50	29.8	6.1
0.40	20.8	9.0

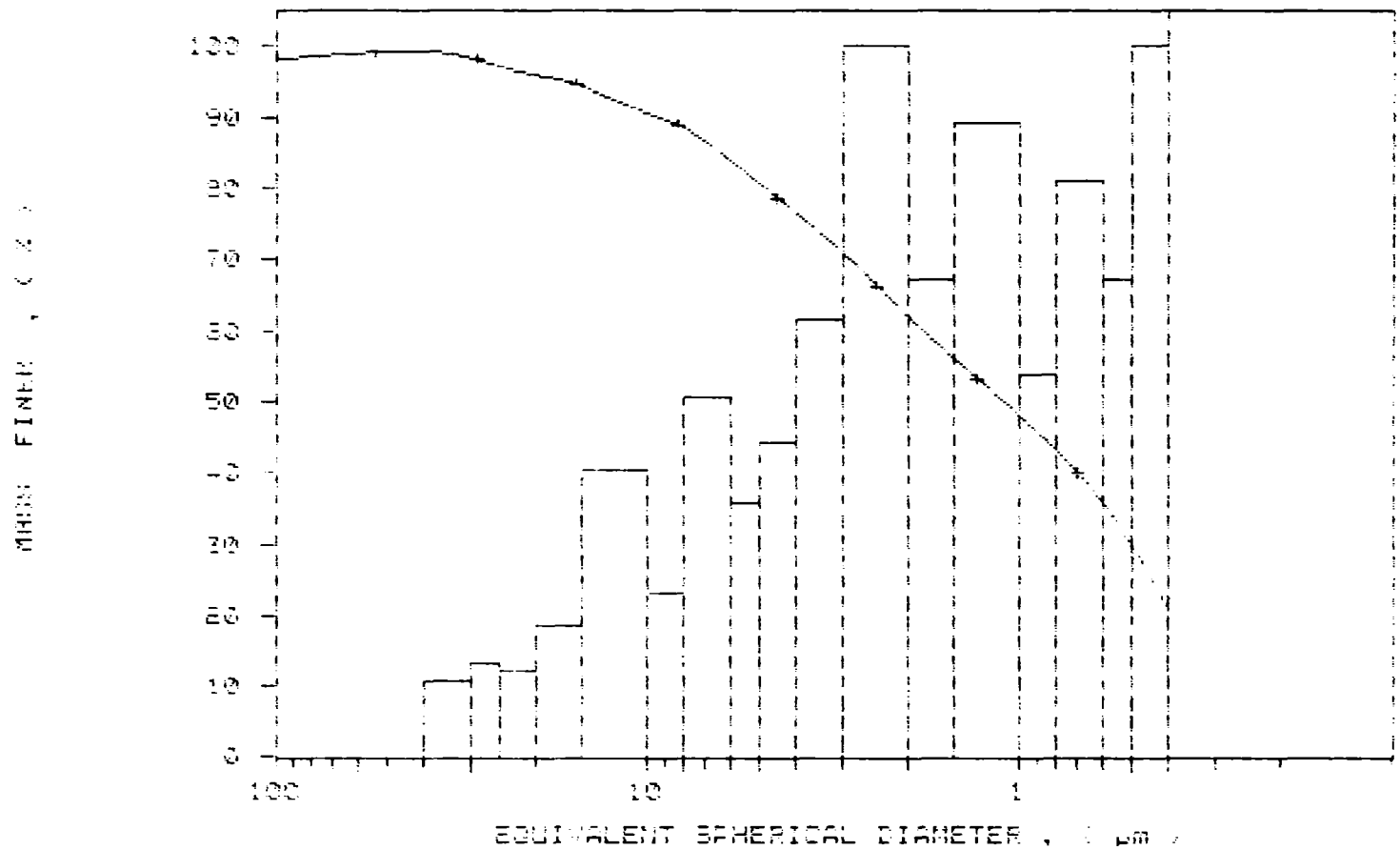
K. Malmstrom

000078

SAMPLE DIRECTORY/NUMBER: DATA7 /305
SAMPLE ID: Hole 92-11 # 16781
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 92 kilocounts/sec

UNIT NUMBER: 1
START 08:54:11 11/03/94
REPRT 09:06:52 11/03/94
TOT RUN TIME 0:07:59
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7638 cp
RUN TYPE: High Speed

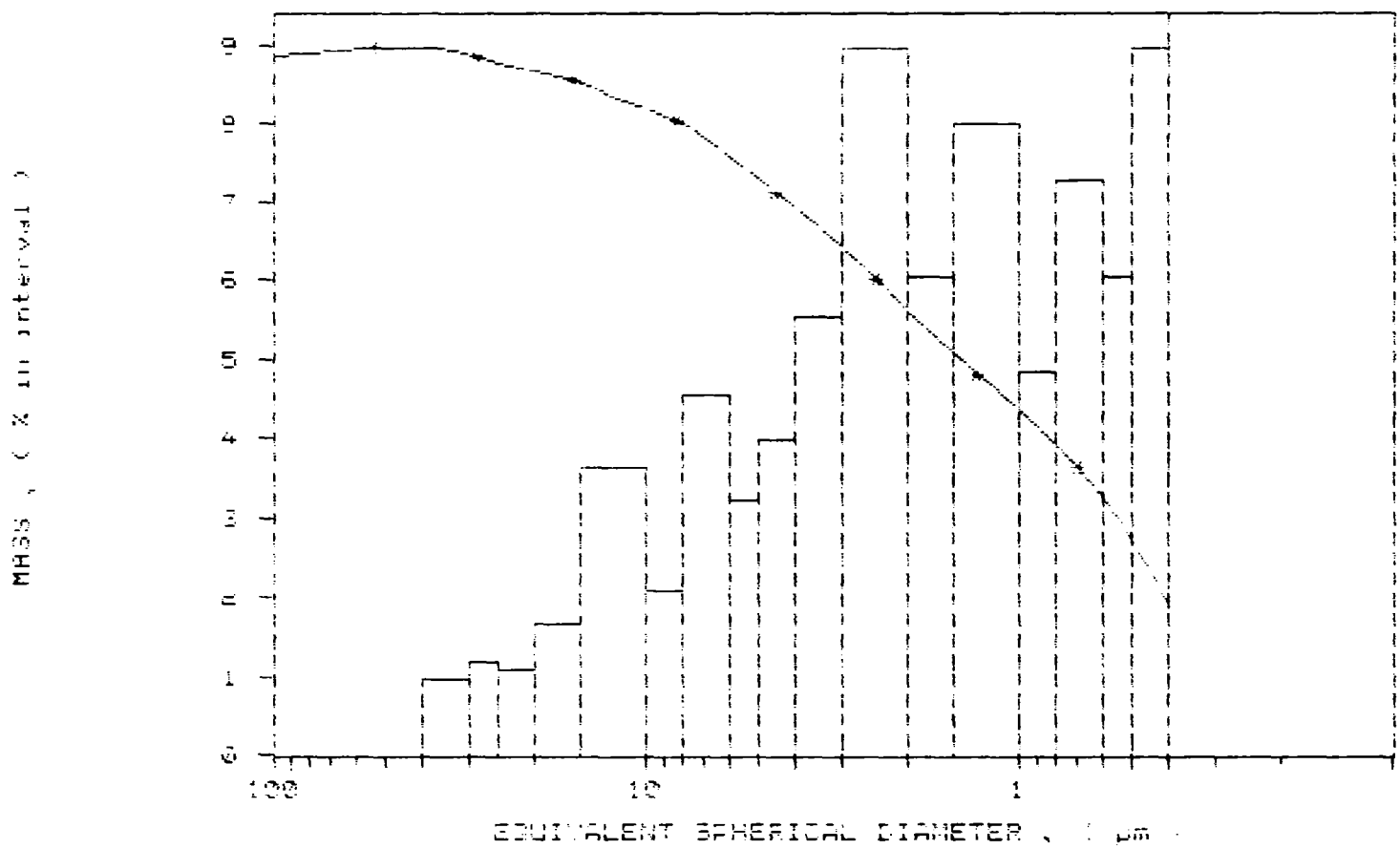
- CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /305
SAMPLE ID: Hole 92-11 # 16781
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 92 kilocounts/sec

UNIT NUMBER: 1
START 08:54:11 11/03/94
REPRT 09:06:52 11/03/94
TOT RUN TIME 0:07:59
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7638 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /306
SAMPLE ID: Hole 92-11 # 16782
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 101 kilocounts/sec

UNIT NUMBER: 1
START 09:14:24 11/03/94
REPRT 09:22:05 11/03/94
TOT RUN TIME 0:07:19
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7636 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.08 µm
MODAL DIAMETER: 1.13 µm

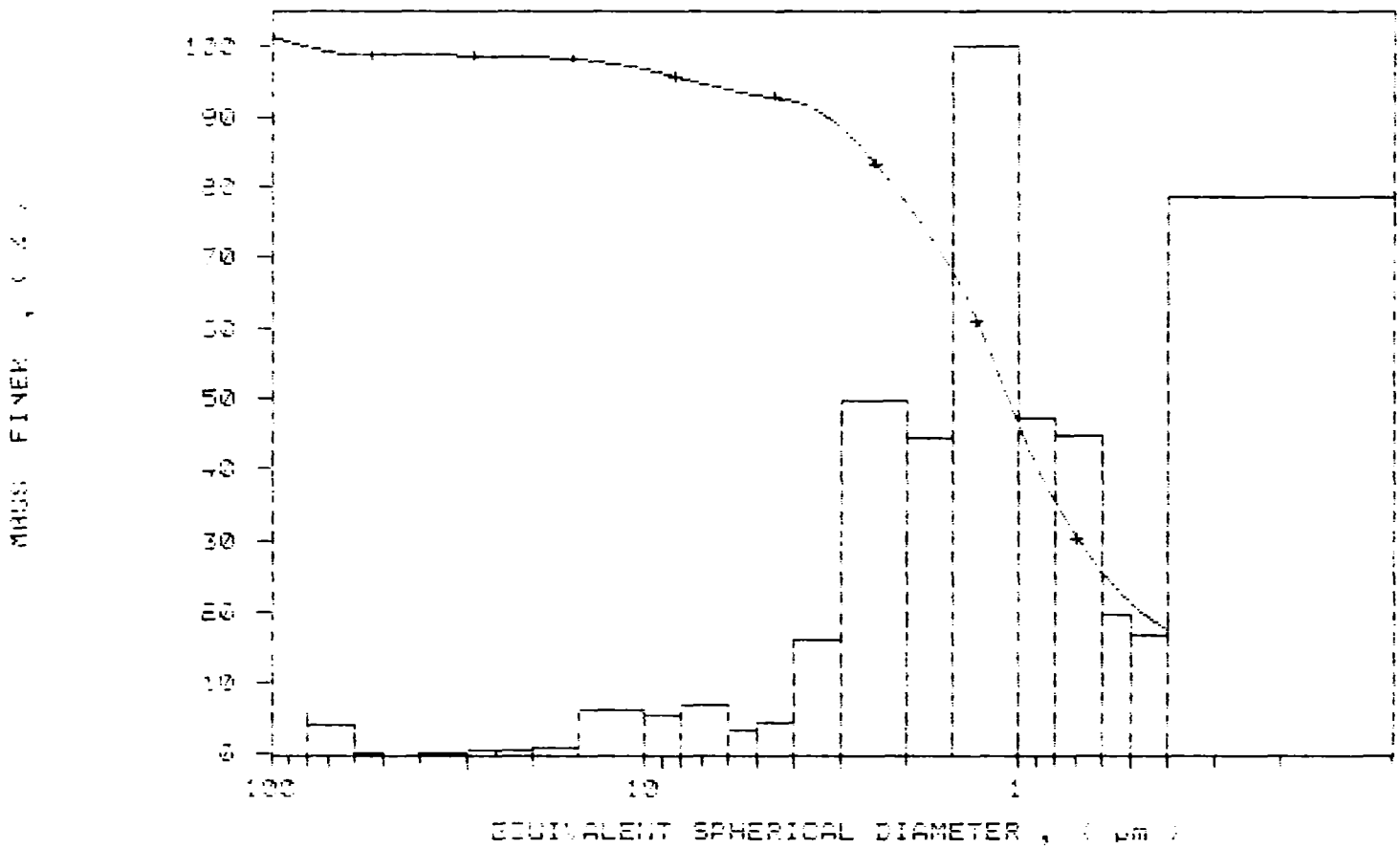
DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	101.2	-1.2
80.00	99.7	1.5
60.00	98.8	0.9
50.00	98.7	0.0
40.00	98.7	0.0
30.00	98.6	0.1
25.00	98.4	0.2
20.00	98.3	0.1
15.00	98.0	0.2
10.00	96.6	1.4
8.00	95.4	1.3
6.00	93.8	1.6
5.00	93.1	0.7
4.00	92.1	1.0
3.00	88.5	3.6
2.00	77.5	11.0
1.50	67.7	9.8
1.00	45.7	22.0
0.80	35.3	10.4
0.60	25.4	9.8
0.50	21.1	4.4
0.40	17.3	3.7

K. Malmstrom

SAMPLE DIRECTORY/NUMBER: DATA7 /306
SAMPLE ID: Hole 92-11 # 16782
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 101 kilocounts/sec

UNIT NUMBER: 1
START 09:14:24 11/03/94
REPRT 09:22:05 11/03/94
TOT RUN TIME 0:07:19
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7636 cp
RUN TYPE: High Speed

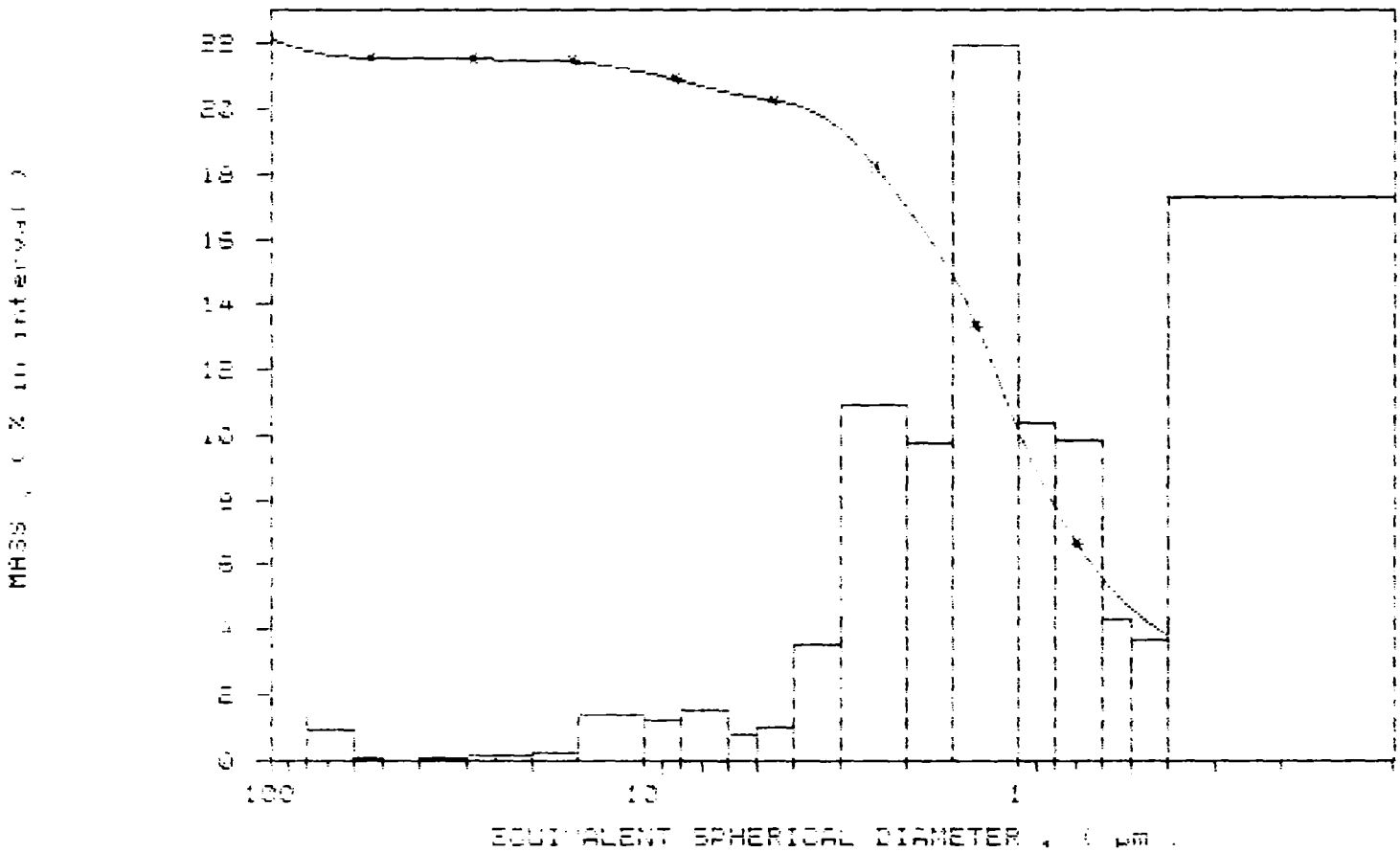
- CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /306
SAMPLE ID: Hole 92-11 # 16782
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 101 kilocounts/sec

UNIT NUMBER: 1
START 09:14:24 11/03/94
REPRT 09:22:05 11/03/94
TOT RUN TIME 0:07:19
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7636 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole 92-11 # 16783

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /307
SAMPLE ID: Hole 92-11 # 16783
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 107 kilocounts/sec

UNIT NUMBER: 1
START 09:41:05 11/03/94
REPRT 09:52:58 11/03/94
TOT RUN TIME 0:07:20
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7635 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 0.64 µm
MODAL DIAMETER: 0.56 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	99.5	0.5
80.00	99.2	0.3
60.00	99.1	0.1
50.00	98.7	0.4
40.00	98.1	0.6
30.00	98.1	0.1
25.00	98.1	0.0
20.00	97.8	0.2
15.00	97.9	-0.1
10.00	97.2	0.8
8.00	96.1	1.1
6.00	94.2	1.8
5.00	92.7	1.5
4.00	90.1	2.6
3.00	86.7	3.4
2.00	80.5	6.3
1.50	74.6	5.9
1.00	65.1	9.5
0.80	58.7	6.4
0.60	46.9	11.8
0.50	38.1	8.8
0.40	28.3	9.7

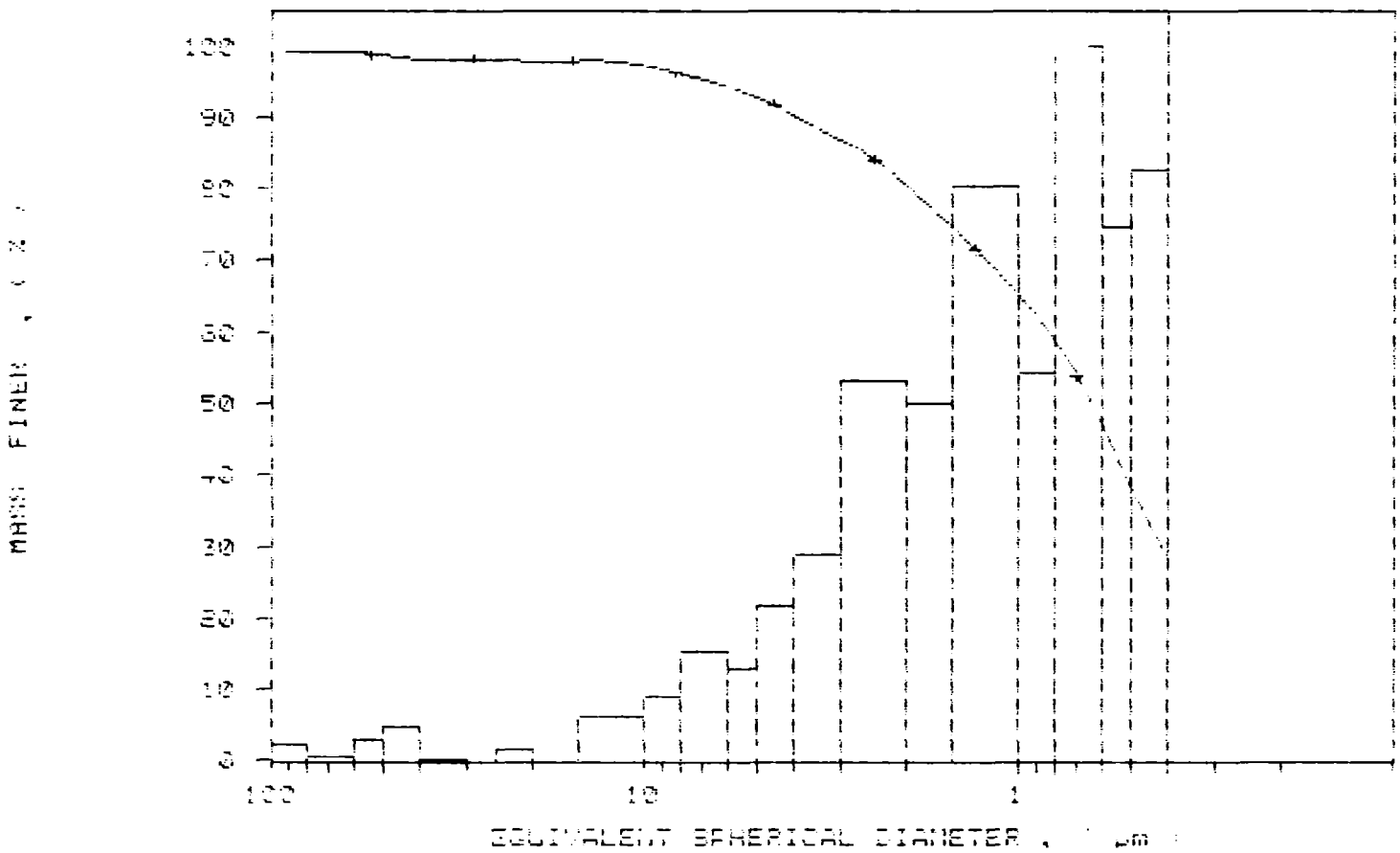
K. Matinstian

000078

SAMPLE DIRECTORY/NUMBER: DATA7 /307
SAMPLE ID: Hole 92-11 # 16783
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 107 kilocounts/sec

UNIT NUMBER: 1
START 09:41:05 11/03/94
REPRT 09:52:58 11/03/94
TOT RUN TIME 0:07:20
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7635 cp
RUN TYPE: High Speed

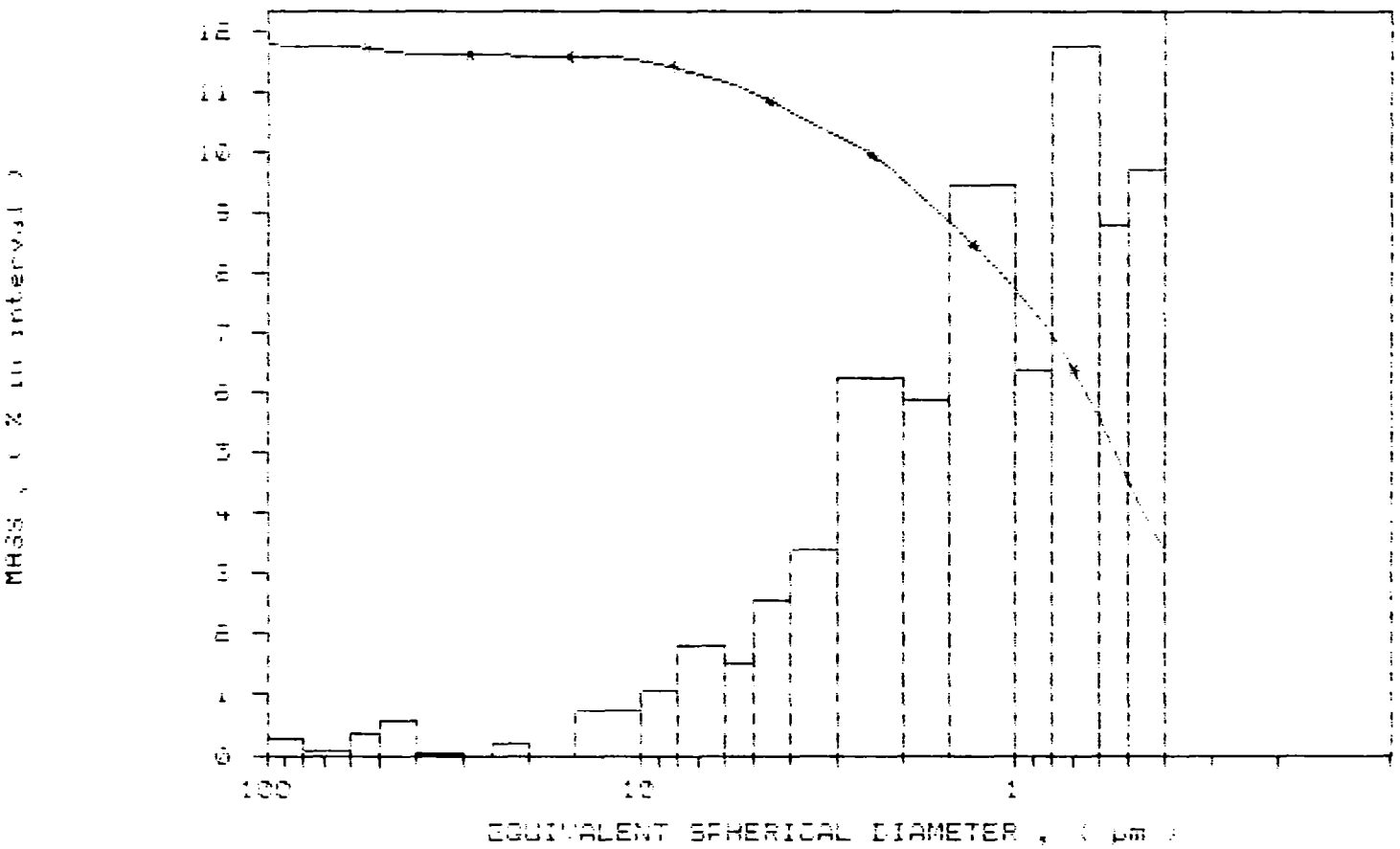
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /307
SAMPLE ID: Hole 92-11 # 16783
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 107 kilocounts/sec

UNIT NUMBER: 1
START 09:41:05 11/03/94
REPRT 09:52:58 11/03/94
TOT RUN TIME 0:07:20
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7635 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole 92-11 # 16784

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /308
SAMPLE ID: Hole 92-11 # 16784
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 99 kilocounts/sec

UNIT NUMBER: 1
START 10:11:40 11/03/94
REPRT 10:23:39 11/03/94
TOT RUN TIME 0:07:27
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7635 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.90 µm

MODAL DIAMETER: 5.72 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	99.7	0.3
80.00	99.3	0.3
60.00	98.8	0.5
50.00	98.7	0.1
40.00	98.8	-0.1
30.00	97.8	1.0
25.00	96.4	1.4
20.00	94.4	1.9
15.00	91.6	2.9
10.00	85.8	5.7
8.00	81.7	4.1
6.00	75.4	6.4
5.00	71.1	4.3
4.00	66.0	5.1
3.00	59.9	6.1
2.00	51.1	8.8
1.50	45.0	6.1
1.00	36.8	8.2
0.80	33.2	3.6
0.60	28.9	4.4
0.50	26.3	2.6
0.40	23.2	3.0

L. Malmstrom

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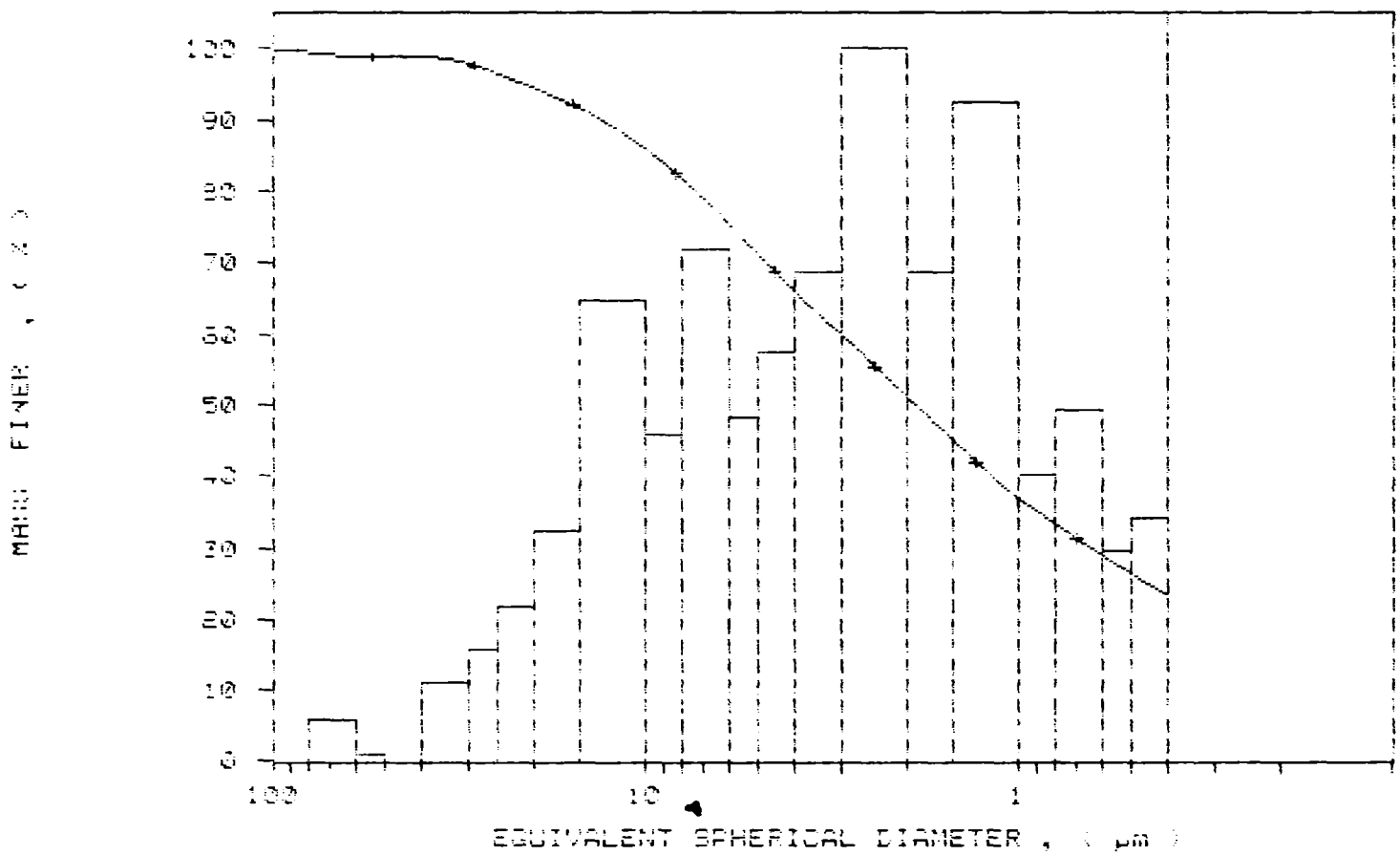
Hole 92-11 # 16784

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /308
SAMPLE ID: Hole 92-11 # 16784
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 99 kilocounts/sec

UNIT NUMBER: 1
START 10:11:40 11/03/94
REPRT 10:23:39 11/03/94
TOT RUN TIME 0:07:27
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7635 cp
RUN TYPE: High Speed

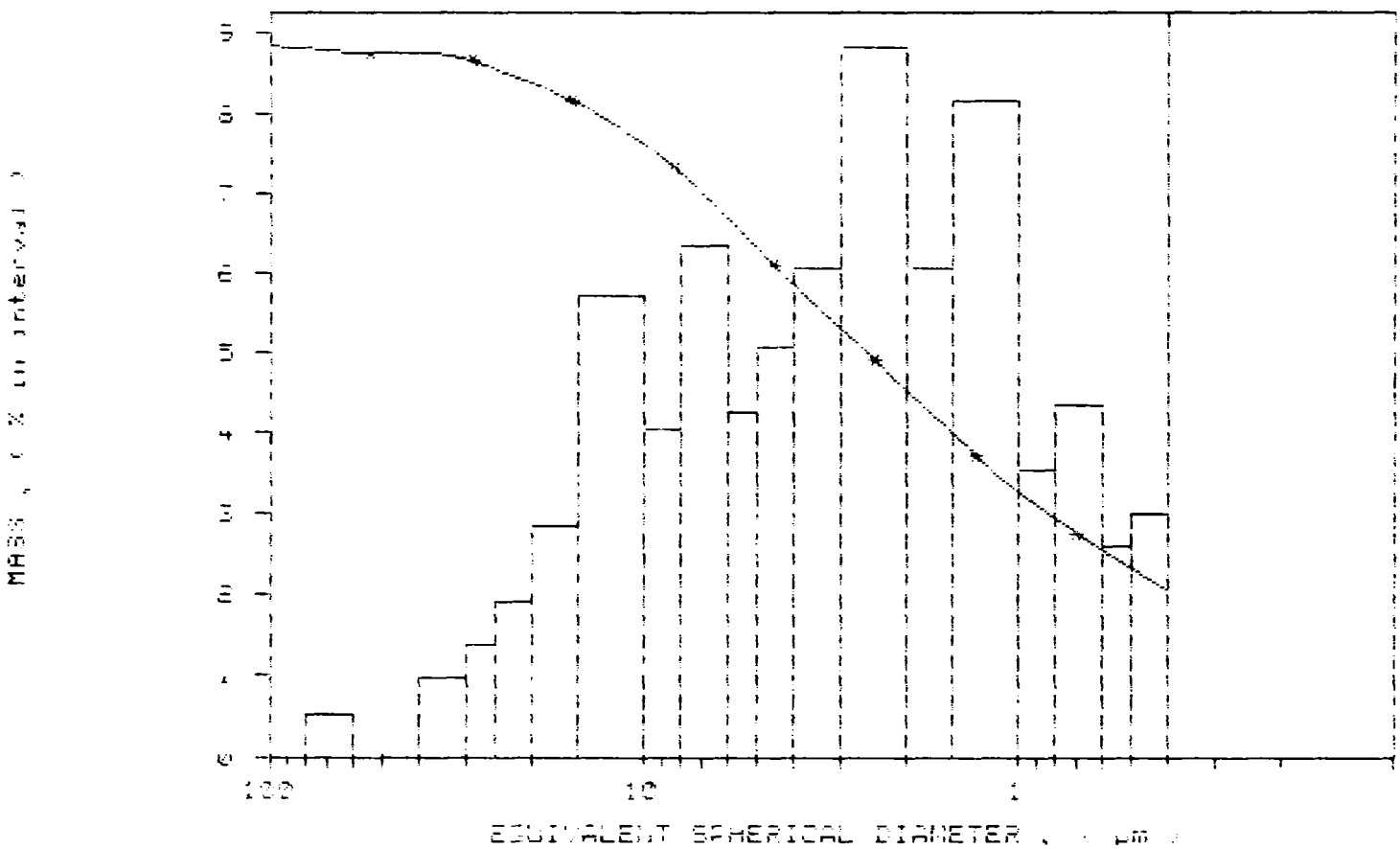
- CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /308
SAMPLE ID: Hole 92-11 # 16784
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 99 kilocounts/sec

UNIT NUMBER: 1
START 10:11:40 11/03/94
REPRT 10:23:39 11/03/94
TOT RUN TIME 0:07:27
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7635 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole 92-11 # 16785

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /309
SAMPLE ID: Hole 92-11 # 16785
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 82 kilocounts/sec

UNIT NUMBER: 1
START 13:08:59 11/03/94
REPRT 13:21:11 11/03/94
TOT RUN TIME 0:07:38
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7634 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 3.30 µm

MODAL DIAMETER: 5.12 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	99.3	0.7
80.00	99.6	-0.2
60.00	99.7	-0.2
50.00	99.5	0.2
40.00	98.9	0.6
30.00	97.8	1.1
25.00	96.4	1.4
20.00	93.5	2.9
15.00	88.1	5.4
10.00	78.8	9.3
8.00	73.3	5.5
6.00	65.9	7.4
5.00	60.8	5.0
4.00	54.8	6.1
3.00	47.8	7.0
2.00	38.3	9.5
1.50	32.2	6.1
1.00	25.5	6.6
0.80	23.0	2.5
0.60	20.1	2.9
0.50	18.1	2.0
0.40	15.9	2.2

K. Malmstrom

000078

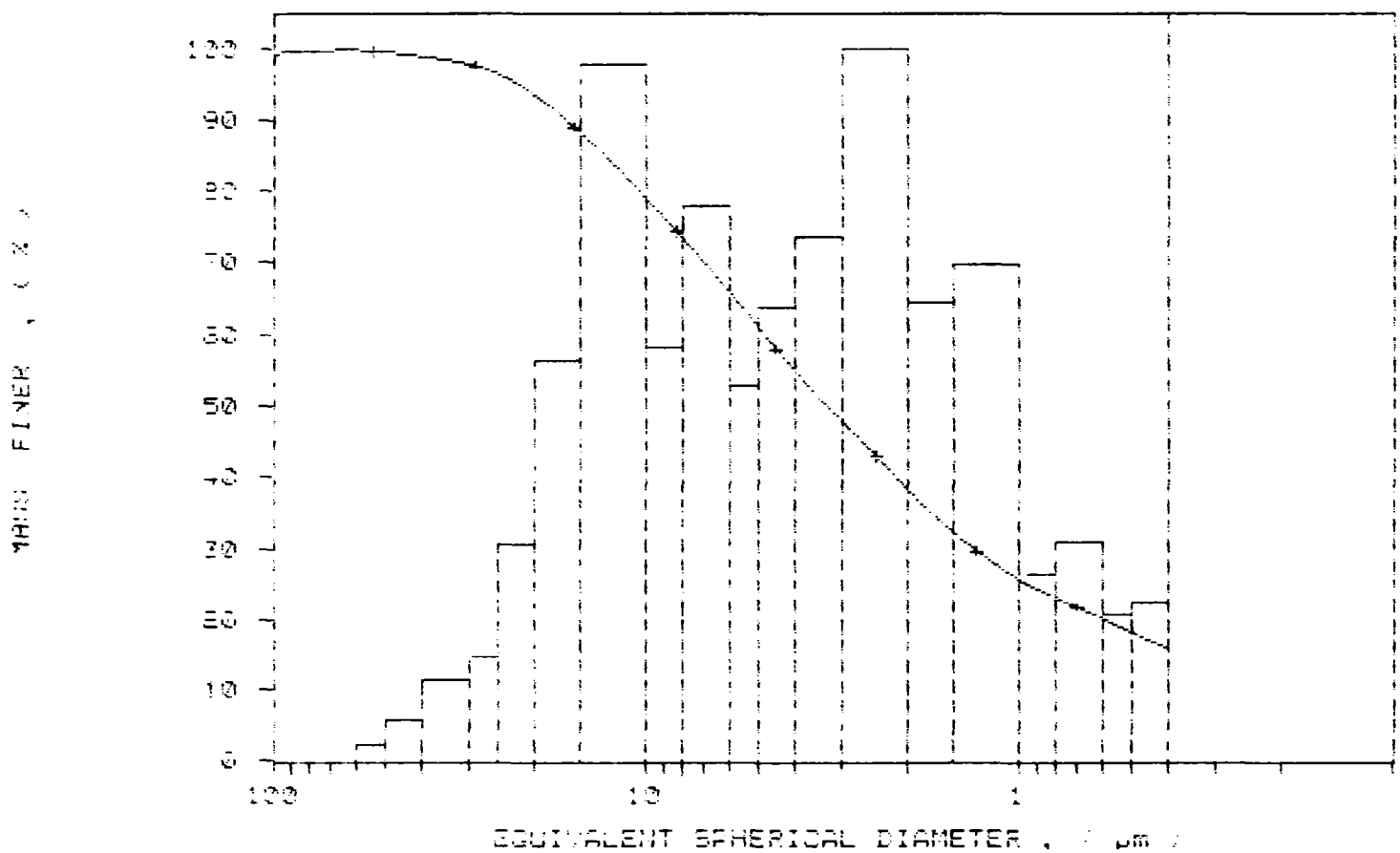
Hole 92-11 # 16785

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /309
SAMPLE ID: Hole 92-11 # 16785
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 82 kilocounts/sec

UNIT NUMBER: 1
START 13:08:59 11/03/94
REPRT 13:21:11 11/03/94
TOT RUN TIME 0:07:38
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7634 cp
RUN TYPE: High Speed

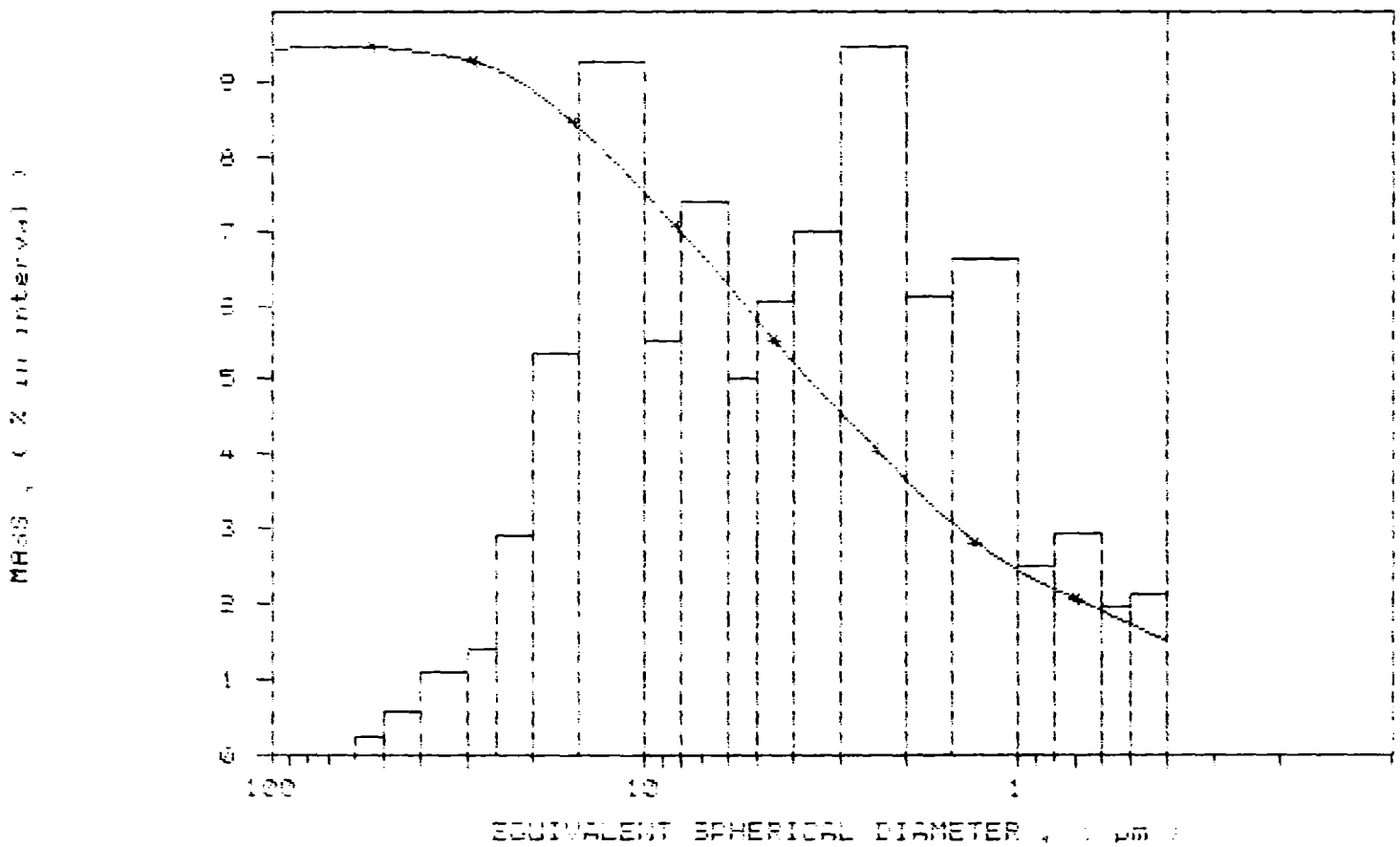
- CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /309
SAMPLE ID: Hole 92-11 # 16785
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 82 kilocounts/sec

UNIT NUMBER: 1
START 13:08:59 11/03/94
REPRT 13:21:11 11/03/94
TOT RUN TIME 0:07:38
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7634 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole 92-11 # 16786

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /310
SAMPLE ID: Hole 92-11 # 16786
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 109 kilocounts/sec

UNIT NUMBER: 1
START 13:50:43 11/03/94
REPRT 14:02:38 11/03/94
TOT RUN TIME 0:07:22
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7634 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.56 µm

MODAL DIAMETER: 1.51 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	95.2	4.8
80.00	94.5	0.7
60.00	94.7	-0.2
50.00	95.8	-1.1
40.00	97.2	-1.3
30.00	97.1	0.0
25.00	96.0	1.1
20.00	94.2	1.8
15.00	92.2	2.0
10.00	87.5	4.7
8.00	84.3	3.2
6.00	79.8	4.5
5.00	76.4	3.5
4.00	72.1	4.3
3.00	66.3	5.8
2.00	57.1	9.2
1.50	49.0	8.1
1.00	38.6	10.4
0.80	34.5	4.0
0.60	30.2	4.3
0.50	27.8	2.5
0.40	23.7	4.1

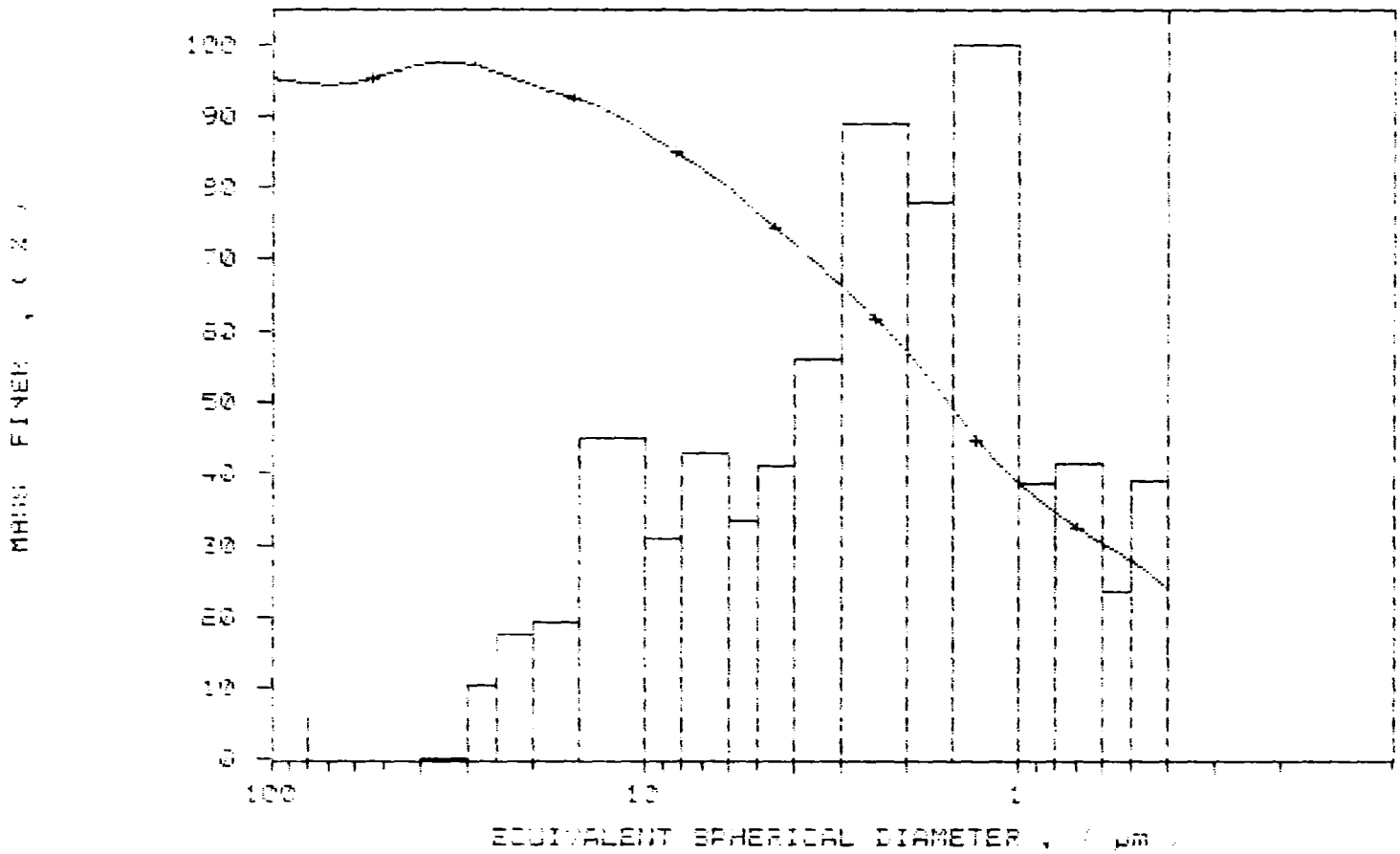
K. Malmstrom

000078

SAMPLE DIRECTORY/NUMBER: DATA7 /310
SAMPLE ID: Hole 92-11 # 16786
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 109 kilocounts/sec

UNIT NUMBER: 1
START 13:50:43 11/03/94
REPRT 14:02:38 11/03/94
TOT RUN TIME 0:07:22
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7634 cp
RUN TYPE: High Speed

+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



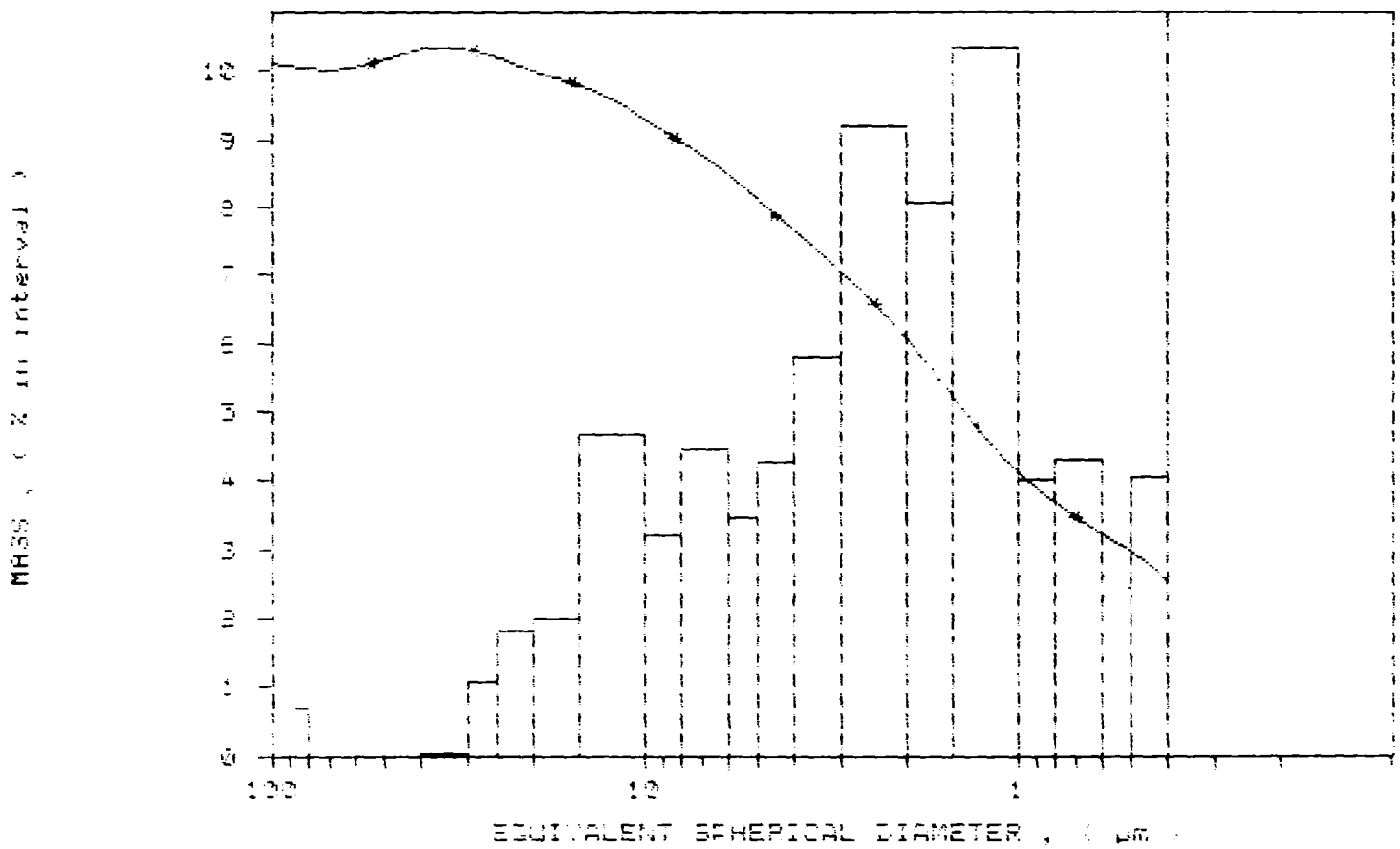
Hole 92-11 # 16786

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /310
SAMPLE ID: Hole 92-11 # 16786
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 109 kilocounts/sec

UNIT NUMBER: 1
START 13:50:43 11/03/94
REPRT 14:02:38 11/03/94
TOT RUN TIME 0:07:22
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7634 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole 92-11 # 16787

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /311
SAMPLE ID: Hole 92-11 # 16787
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 103 kilocounts/sec

UNIT NUMBER: 1
START 14:09:54 11/03/94
REPRT 14:21:48 11/03/94
TOT RUN TIME 0:07:22
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7632 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.64 µm

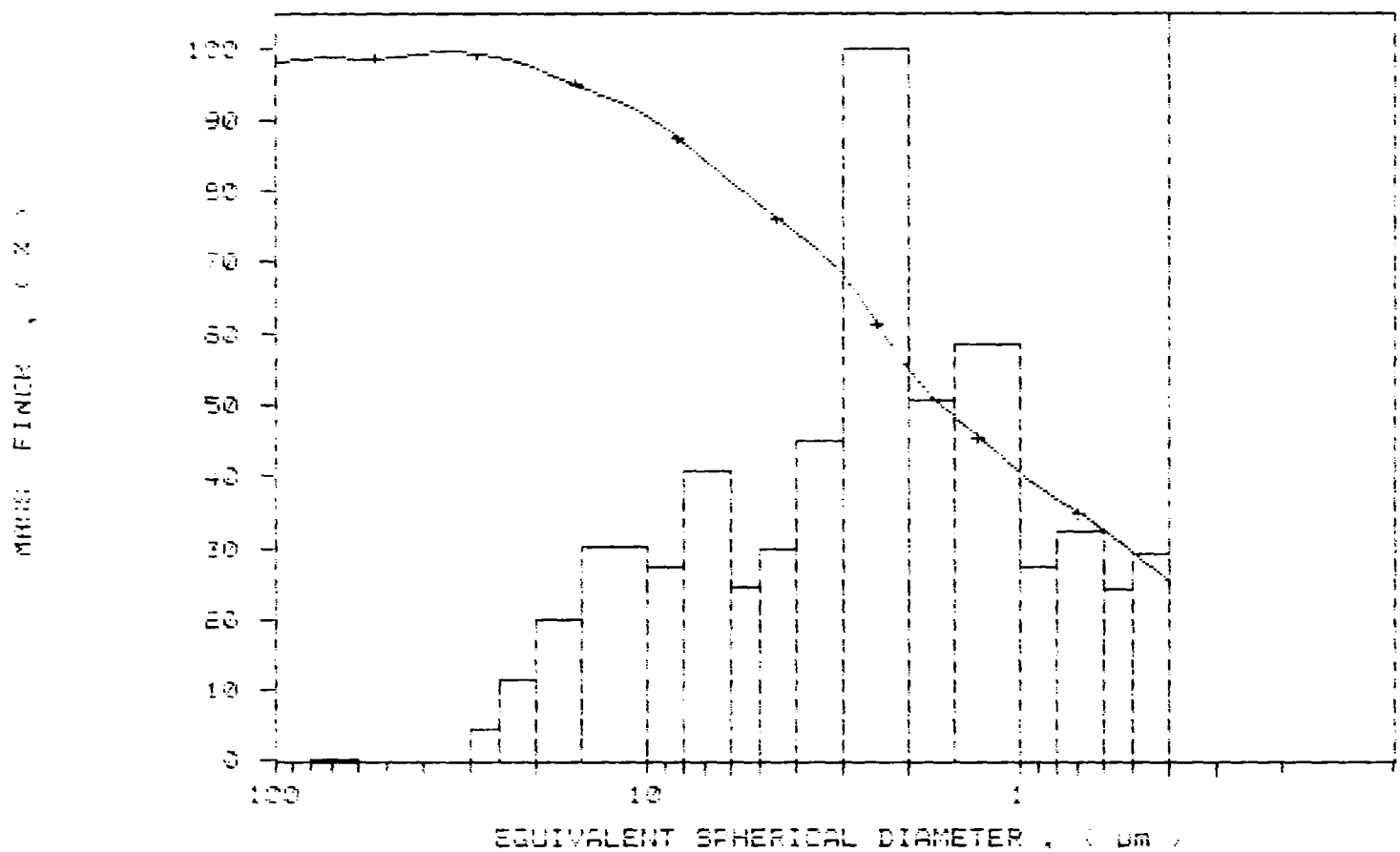
MODAL DIAMETER: 2.40 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	97.9	2.1
80.00	98.6	-0.7
60.00	98.6	0.1
50.00	98.7	-0.1
40.00	99.3	-0.6
30.00	99.3	-0.0
25.00	98.7	0.6
20.00	97.2	1.5
15.00	94.5	2.7
10.00	90.4	4.0
8.00	86.8	3.7
6.00	81.4	5.4
5.00	78.1	3.3
4.00	74.1	4.0
3.00	68.2	6.0
2.00	54.9	13.2
1.50	48.2	6.7
1.00	40.4	7.8
0.80	36.8	3.6
0.60	32.5	4.3
0.50	29.3	3.2
0.40	25.4	3.9

SAMPLE DIRECTORY/NUMBER: DATA7 /311
SAMPLE ID: Hole 92-11 # 16787
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 103 kilocounts/sec

UNIT NUMBER: 1
START 14:09:54 11/03/94
REPRT 14:21:48 11/03/94
TOT RUN TIME 0:07:22
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7632 cp
RUN TYPE: High Speed

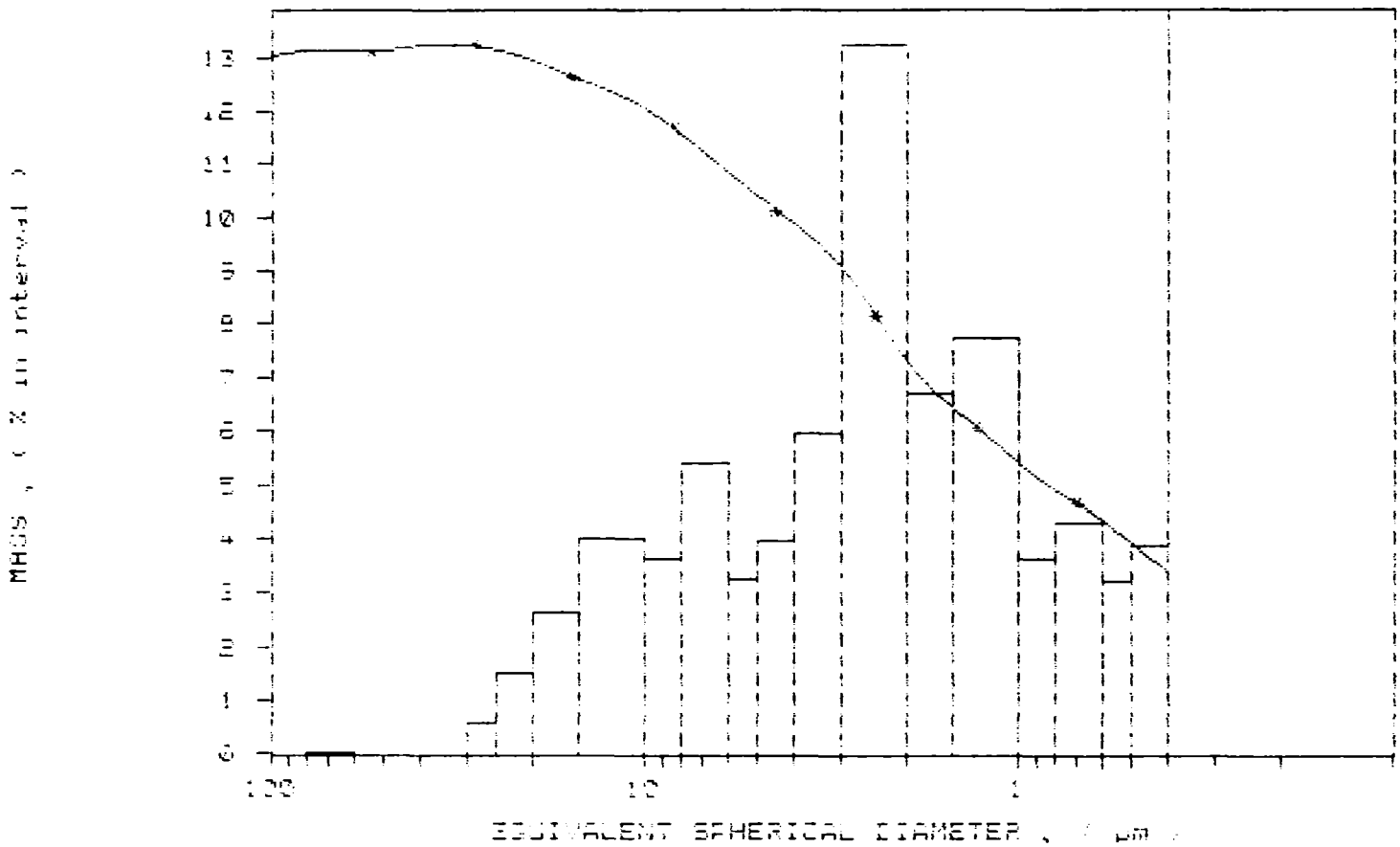
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /311
SAMPLE ID: Hole 92-11 # 16787
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 103 kilocounts/sec

UNIT NUMBER: 1
START 14:09:54 11/03/94
REPRT 14:21:48 11/03/94
TOT RUN TIME 0:07:22
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7632 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole 92-11 # 16788

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /312
SAMPLE ID: Hole 92-11 # 16788
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 101 kilocounts/sec

UNIT NUMBER: 1
START 15:48:55 11/03/94
REPRT 16:01:26 11/03/94
TOT RUN TIME 0:07:58
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7637 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.32 µm

MODAL DIAMETER: 1.32 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	100.3	-0.3
80.00	100.6	-0.3
60.00	100.2	0.4
50.00	99.4	0.8
40.00	98.8	0.7
30.00	98.6	0.2
25.00	98.4	0.2
20.00	98.0	0.4
15.00	96.7	1.3
10.00	91.0	5.7
8.00	87.6	3.4
6.00	83.0	4.6
5.00	79.3	3.7
4.00	74.5	4.8
3.00	68.6	5.9
2.00	59.6	9.0
1.50	53.0	6.6
1.00	43.6	9.5
0.80	39.5	4.1
0.60	34.1	5.4
0.50	30.5	3.5
0.40	25.8	4.7

DATE L. Malmstrom

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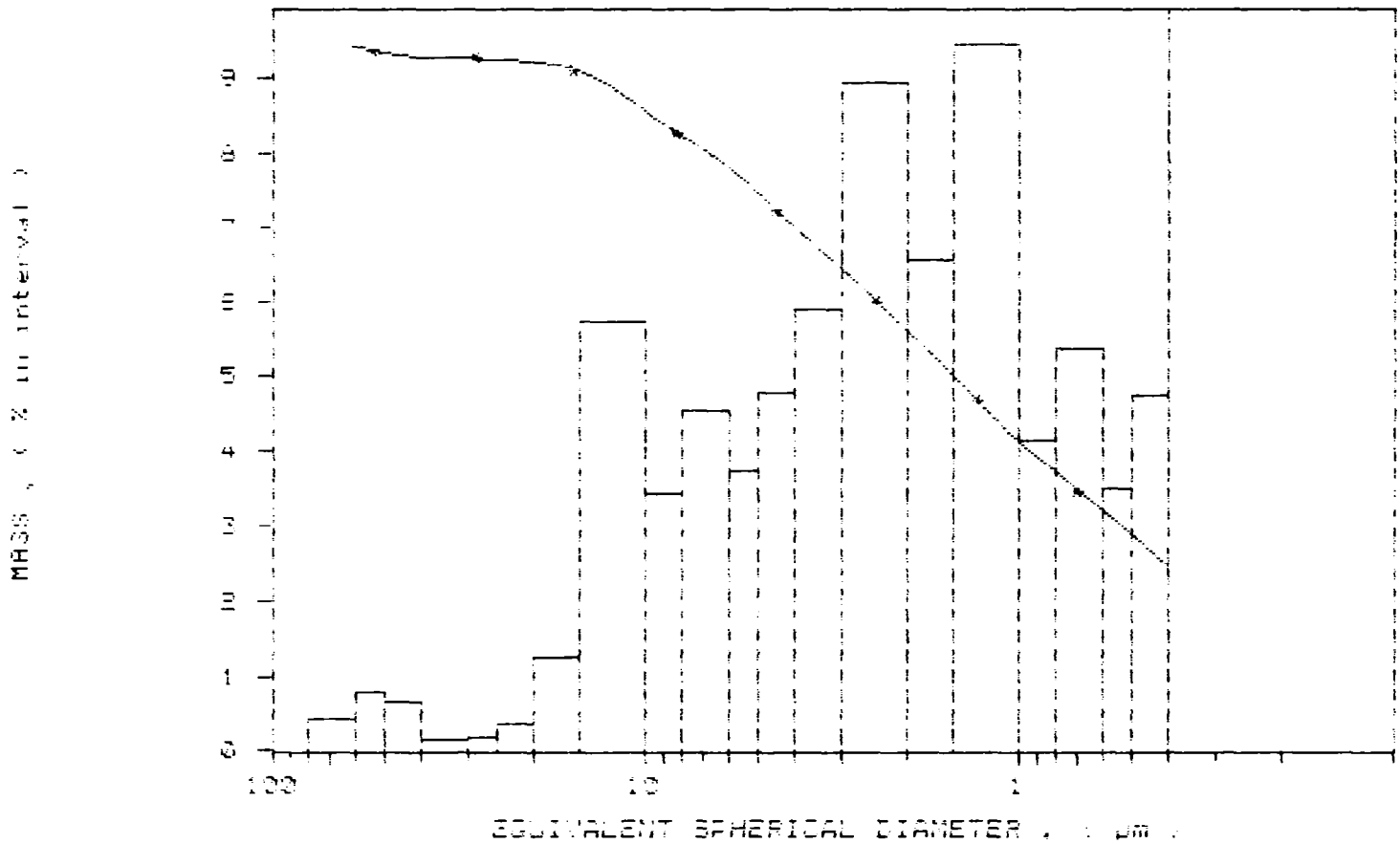
SAMPLE DIRECTORY/NUMBER: DATA7 /312
SAMPLE ID: Hole 92-11 # 16788
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 101 kilocounts/sec

UNIT NUMBER: 1
START 15:48:55 11/03/94
REPRT 16:01:26 11/03/94
TOT RUN TIME 0:07:58
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7637 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole 92-11 # 16789

SediGraph 5100 V3.02 PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA7 /313
SAMPLE ID: Hole 92-11 # 16789
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 96 kilocounts/sec

UNIT NUMBER: 1
START 08:57:25 11/08/94
REPRT 09:09:18 11/08/94
TOT RUN TIME 0:07:21
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7637 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.63 µm MODAL DIAMETER: 1.64 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	102.0	-2.0
80.00	100.5	1.5
60.00	99.2	1.2
50.00	98.9	0.3
40.00	98.6	0.3
30.00	98.4	0.3
25.00	98.1	0.3
20.00	98.1	-0.1
15.00	98.8	-0.6
10.00	98.7	0.1
8.00	98.8	-0.2
6.00	98.5	0.3
5.00	98.3	0.2
4.00	98.1	0.2
3.00	96.5	1.6
2.00	76.9	19.6
1.50	37.6	39.3
1.00	7.8	29.7
0.80	7.4	0.5
0.60	8.7	-1.3
0.50	9.1	-0.4
0.40	9.5	-0.5

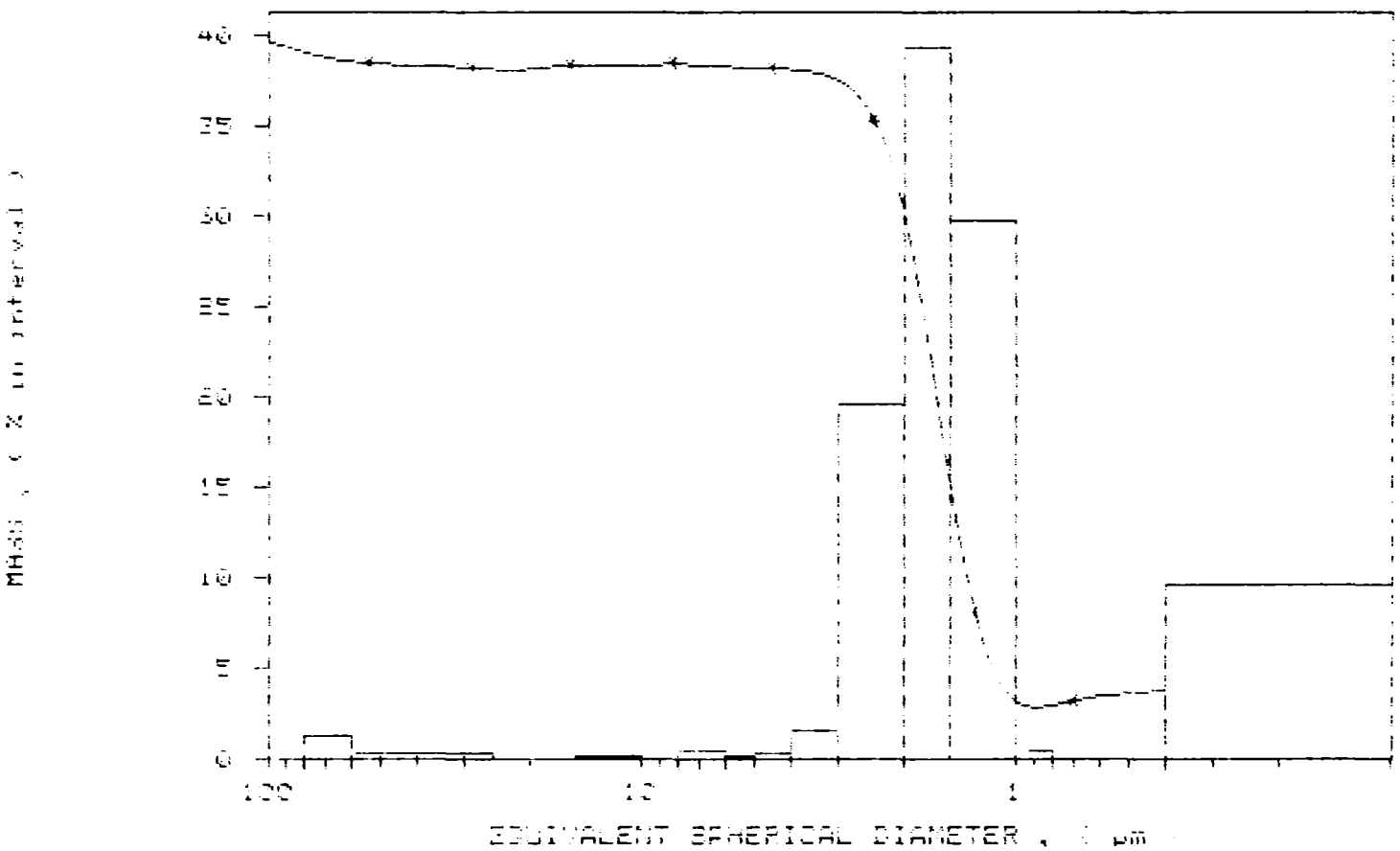
L. Malmstrom

000078

SAMPLE DIRECTORY/NUMBER: DATA7 /313
SAMPLE ID: Hole 92-11 # 16789
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 130/ 96 kilocounts/sec

UNIT NUMBER: 1
START 08:57:25 11/08/94
REPRT 09:09:18 11/08/94
TOT RUN TIME 0:07:21
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7637 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



42J01NE0015 2.15956 KIPLING

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MINERAL RESEARCH CANADA

TEL:(705) 378-2416
FAX:(705) 378-5123

1 INDUSTRIAL BLVD.,RR2
PARRY SOUND, ON. CANADA
P2A 2W8

ANALYSIS REPORT

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SAMPLE #	SCREEN	%	MOISTURE %
Hole 88-4 17151	+ 4	28.0	
	+ 40	34.3	
	+100	12.1	0.8
	+200	4.6	
	+325	3.4	
	-325	17.6	
17152	+ 4	1.5	
	+ 40	60.6	
	+100	14.7	0.3
	+200	4.8	
	+325	2.9	
	-325	15.5	
17153	+ 4	1.2	
	+ 40	60.2	
	+100	12.3	0.2
	+200	5.5	
	+325	2.5	
	-325	18.3	
17154	+ 4	0.1	
	+ 40	59.6	
	+100	18.9	0.2
	+200	7.2	
	+325	2.7	
	-325	17.5	
17155	+ 4	1.1	
	+ 40	45.3	
	+100	14.8	0.3
	+200	6.8	
	+325	4.3	
	-325	17.7	

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MINERAL RESEARCH CANADA

TEL:(705) 378-2416
FAX:(705) 378-5123

1 INDUSTRIAL BLVD.,RR2
PARRY SOUND, ON. CANADA
P2A 2W8

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %
Hole 88-4 17156	+ 4	1.0	
	+ 40	56.6	
	+100	16.8	0.2
	+200	6.2	
	+325	1.8	
	-325	17.6	
17157	+ 4	6.4	
	+ 40	56.4	
	+100	9.4	0.3
	+200	5.1	
	+325	2.0	
	-325	20.7	
17158	+ 4	0	
	+ 40	34.9	
	+100	33.6	0.3
	+200	5.4	
	+325	2.0	
	-325	24.7	
17159	+ 4	0	
	+ 40	20.3	
	+100	58.0	0.2
	+200	3.6	
	+325	1.1	
	-325	17.0	
17160	+ 4	0	
	+ 40	0	
	+100	0	1.5
	+200	0	
	+325	0.1	
	-325	49.9	

DATE

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FAX:(705) 378-5123

1 INDUSTRIAL BLVD.,RR2
PARRY SOUND, ON. CANADA
P2A 2W8

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %
Hole 88-4 17161	+ 4	0	
	+ 40	25.0	
	+100	50.4	1.5
	+200	3.9	
	+325	1.6	
	-325	19.1	
17162	+ 4	0	
	+ 40	0	
	+100	0	1.7
	+200	2.2	
	+325	1.1	
	-325	96.7	
17163	+ 4	0.1	
	+ 40	43.5	
	+100	30.5	0.2
	+200	4.4	
	+325	1.8	
	-325	19.7	
17164	+ 4	0.2	
	+ 40	62.7	
	+100	18.5	0.1
	+200	4.5	
	+325	1.8	
	-325	12.3	
17165	+ 4	0	
	+ 40	51.7	
	+100	21.3	0.3
	+200	5.1	
	+325	2.6	
	-325	19.9	

DATE T. Metmstrom

MINERAL RESEARCH CANADA

TEL:(705) 378-2416
FAX:(705) 378-5123

1 INDUSTRIAL BLVD.,RR2
PARRY SOUND, ON. CANADA
P2A 2W8

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %
Hole 88-4			
17166	+ 4	0	
	+ 40	52.3	
	+100	17.9	0.2
	+200	4.0	
	+325	3.0	
	-325	21.7	
17167	+ 4	0.3	
	+ 40	57.3	
	+100	13.8	0.2
	+200	5.9	
	+325	2.6	
	-325	20.1	
17168	+ 4	0.4	
	+ 40	66.5	
	+100	9.7	
	+200	3.6	0.4
	+325	1.7	
	-325	18.1	
17169	+ 4	0	
	+ 40	0	
	+100	0.7	
	+200	2.5	1.6
	+325	7.1	
	-325	89.7	
17170	+ 4	0.9	
	+ 40	70.9	
	+100	7.0	
	+200	2.4	0.4
	+325	1.2	
	-325	17.6	

MINERAL RESEARCH
DATE K. Melmstrom

MINERAL RESEARCH CANADA

TEL:(705) 378-2416
FAX:(705) 378-5123

1 INDUSTRIAL BLVD.,RR2
PARRY SOUND, ON. CANADA
P2A 2W8

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %
Hole 88-4	+ 4	0	
	+ 40	2.5	
17171	+100	0.7	1.7
	+200	3.2	
	+325	4.7	
	-325	88.9	
	+ 4		
	+ 40		
	+100		
	+200		
	+325		
	-325		
	+ 4		
	+ 40		
	+100		
	+200		
	+325		
	-325		
	+ 4		
	+ 40		
	+100		
	+200		
	+325		
	-325		
	+ 4		
	+ 40		
	+100		
	+200		
	+325		
	-325		

DATE H. Melnstrow

178

SAMPLE DIRECTORY/NUMBER: DATA7 /369
SAMPLE ID: Hole 88-4 # 17151
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.2 deg C
BASELINE/FULL SCALE: 124/ 89 kilocounts/sec

UNIT NUMBER: 1
START 08:41:58 12/07/94
REPRT 08:50:08 12/07/94
TOT RUN TIME 0:07:48
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7643 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 um
ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 8.23 um

MODAL DIAMETER: 15.45 um

DIAMETER (um)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	98.9	1.1
80.00	98.4	0.5
60.00	97.8	0.6
50.00	97.6	0.3
40.00	96.7	0.9
30.00	92.9	3.8
25.00	88.8	4.2
20.00	81.8	6.9
15.00	71.2	10.7
10.00	56.3	14.9
8.00	49.1	7.2
6.00	41.0	8.2
5.00	36.2	4.8
4.00	30.9	5.3
3.00	24.6	6.2
2.00	18.0	6.6
1.50	14.0	4.0
1.00	7.0	7.0
0.80	1.6	5.4
0.60	-7.7	9.3
0.50	-13.4	5.7
0.40	-17.8	4.4

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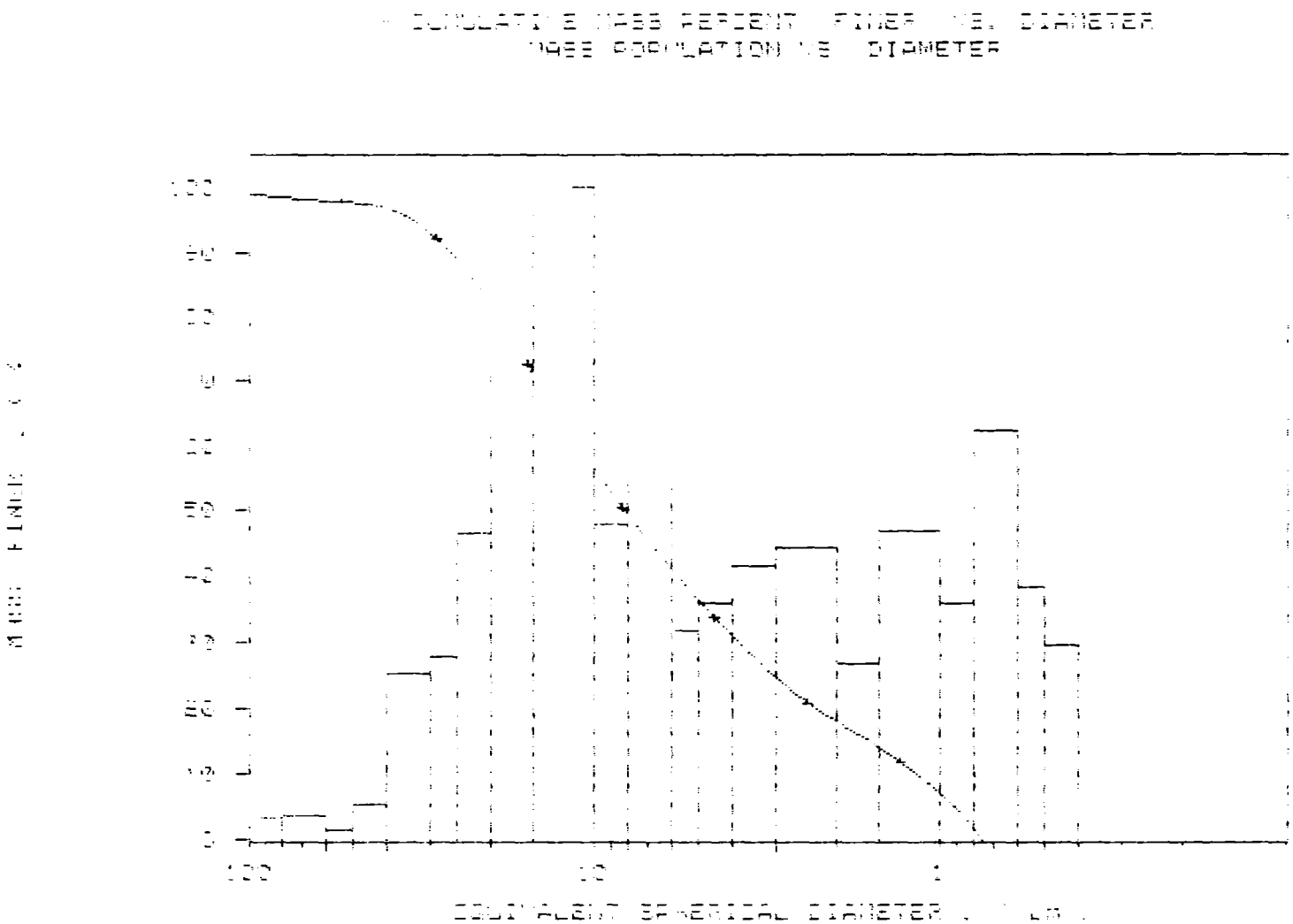
L. Malmstrom

SAMPLE DIRECTORY/NUMBER: DATA7 /369
SAMPLE ID: Hole 88-4 # 17151
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.2 deg C
BASELINE/FULL SCALE: 124/ 89 kilocounts/sec

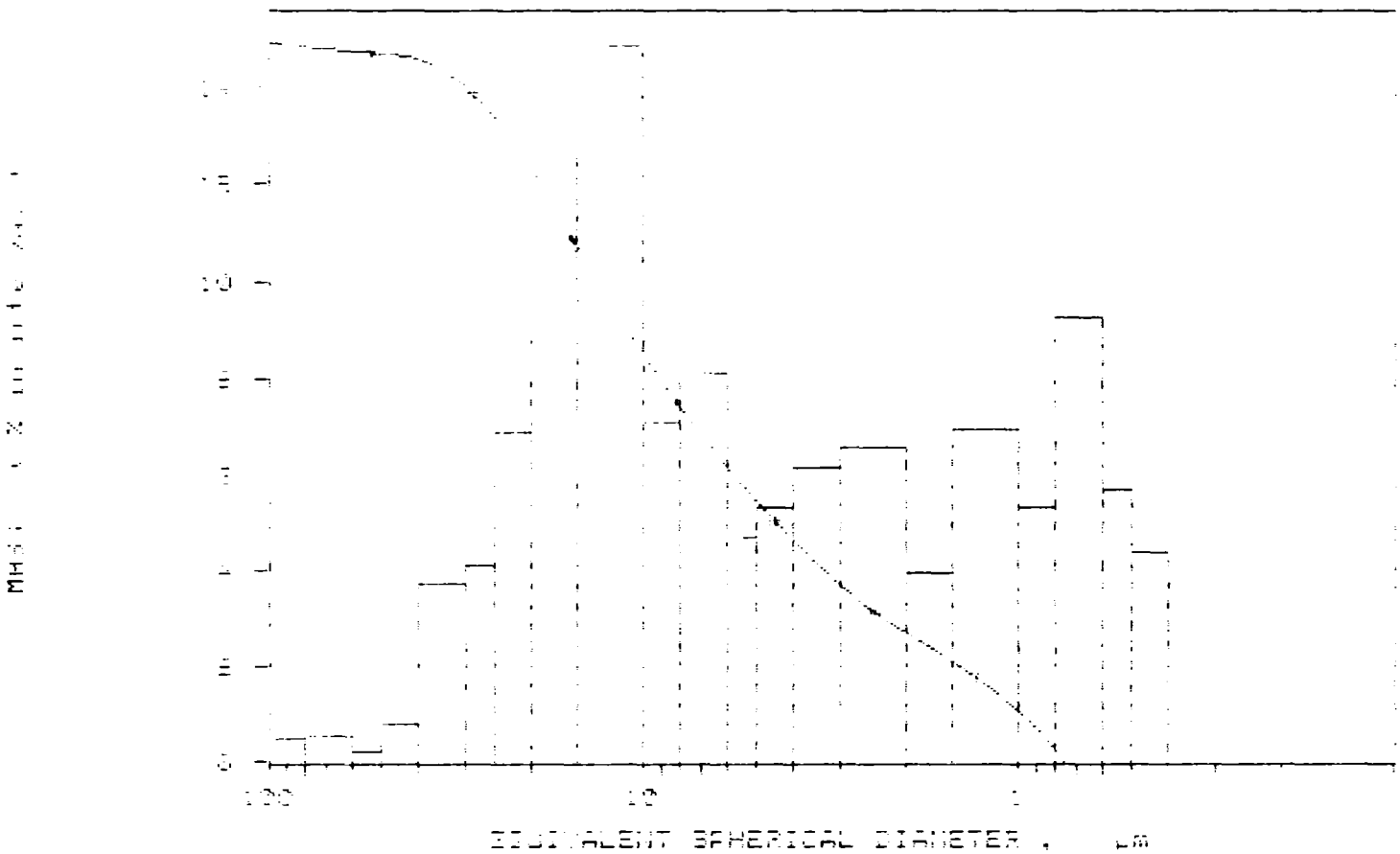
UNIT NUMBER: 1
START 08:41:58 12/07/94
REPRT 08:50:08 12/07/94
TOT RUN TIME 0:07:48
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7643 cp
RUN TYPE: High Speed



SAMPLE DIRECTORY/NUMBER: DATA7 /369
SAMPLE ID: Hole 88-4 # 17151
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.2 deg C
BASELINE/FULL SCALE: 124/ 89 kilocounts/sec

UNIT NUMBER: 1
START 08:41:58 12/07/94
REPRT 08:50:08 12/07/94
TOT RUN TIME 0:07:48
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7643 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
CUMULATIVE MASS PERCENT FINER VS DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /370
SAMPLE ID: Hole 88-4 # 17152
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.2 deg C
BASELINE/FULL SCALE: 124/ 93 kilocounts/sec

UNIT NUMBER: 1
START 09:01:53 12/07/94
REPRT 09:05:07 12/07/94
TOT RUN TIME 0:02:58
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7641 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 um
ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 10.09 um
MODAL DIAMETER: 3.43 um

DIAMETER (um)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	96.9	3.1
80.00	97.3	-0.3
60.00	97.4	-0.1
50.00	97.1	0.3
40.00	95.9	1.2
30.00	90.8	5.2
25.00	84.9	5.9
20.00	75.8	9.1
15.00	63.4	12.4
10.00	49.7	13.7
8.00	43.6	6.1
6.00	37.2	6.5
5.00	31.6	5.6
4.00	15.6	16.0
3.00	-17.6	33.2
2.00	-42.9	25.3
1.50	-44.6	1.7
1.00	-43.6	-0.9

K. Malmstrom

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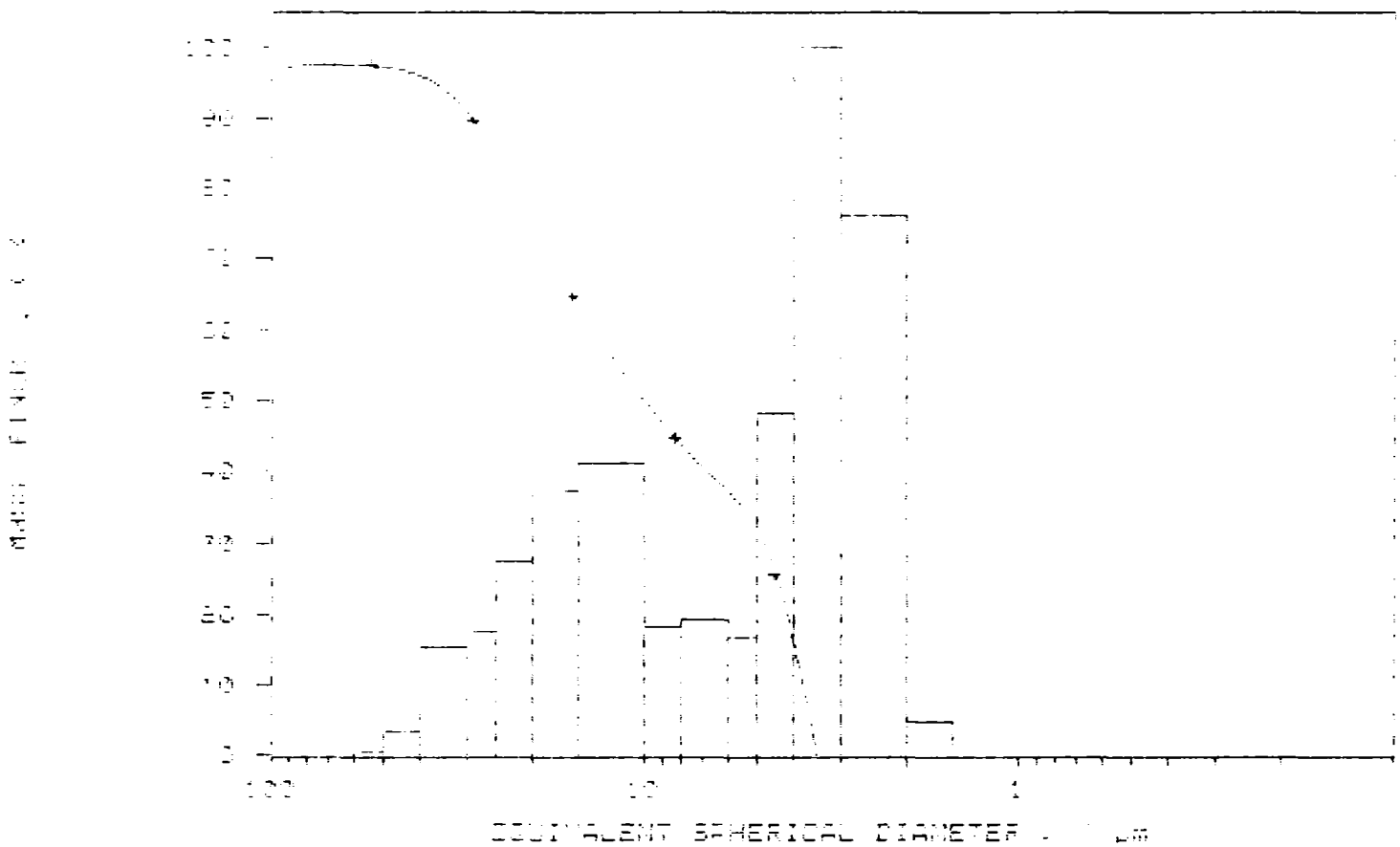
Hole 88-4 # 17152

SediGraph 5100 V3.02 PAGE 2

SAMPLE DIRECTORY/NUMBER: DATA7 /370
SAMPLE ID: Hole 88-4 # 17152
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.2 deg C
BASELINE/FULL SCALE: 124/ 93 kilocounts/sec

UNIT NUMBER: 1
START 09:01:53 12/07/94
REPRT 09:05:07 12/07/94
TOT RUN TIME 0:02:58
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7641 cp
RUN TYPE: High Speed

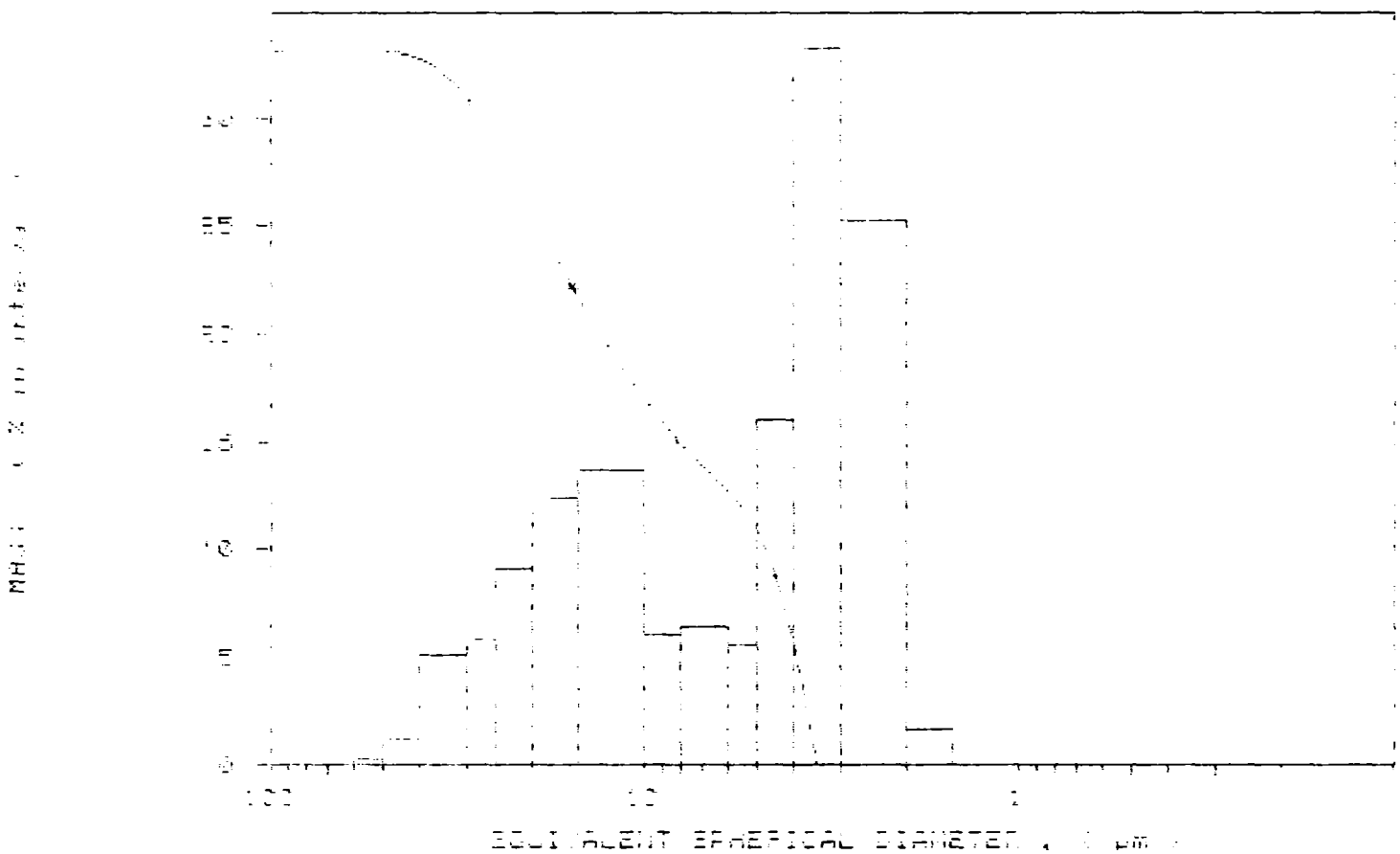
CUMULATIVE MASS PERCENT FINER EQ. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /370
SAMPLE ID: Hole 88-4 # 17152
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.2 deg C
BASELINE/FULL SCALE: 124/ 93 kilocounts/sec

UNIT NUMBER: 1
START 09:01:53 12/07/94
REPRT 09:05:07 12/07/94
TOT RUN TIME 0:02:58
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7641 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
& CUMULATIVE MASS PERCENT FINER VS DIAMETER



Hole 88-4 # 17153

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /371
SAMPLE ID: Hole 88-4 # 17153
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 93 kilocounts/sec

UNIT NUMBER: 1
START 10:20:28 12/07/94
REPRT 10:32:26 12/07/94
TOT RUN TIME 0:07:26
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7636 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 um
ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 10.90 um

MODAL DIAMETER: 15.27 um

DIAMETER (um)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	99.1	0.9
80.00	99.1	0.0
60.00	98.6	0.4
50.00	97.9	0.7
40.00	96.5	1.5
30.00	92.7	3.8
25.00	88.3	4.4
20.00	79.9	8.4
15.00	65.3	14.6
10.00	46.8	18.5
8.00	40.2	6.6
6.00	33.1	7.1
5.00	29.0	4.0
4.00	24.6	4.4
3.00	19.5	5.2
2.00	12.5	7.0
1.50	8.6	3.9
1.00	3.2	5.3
0.80	0.8	2.5
0.60	-1.8	2.5
0.50	-2.8	1.0
0.40	-3.2	0.4

K. Malmstrom

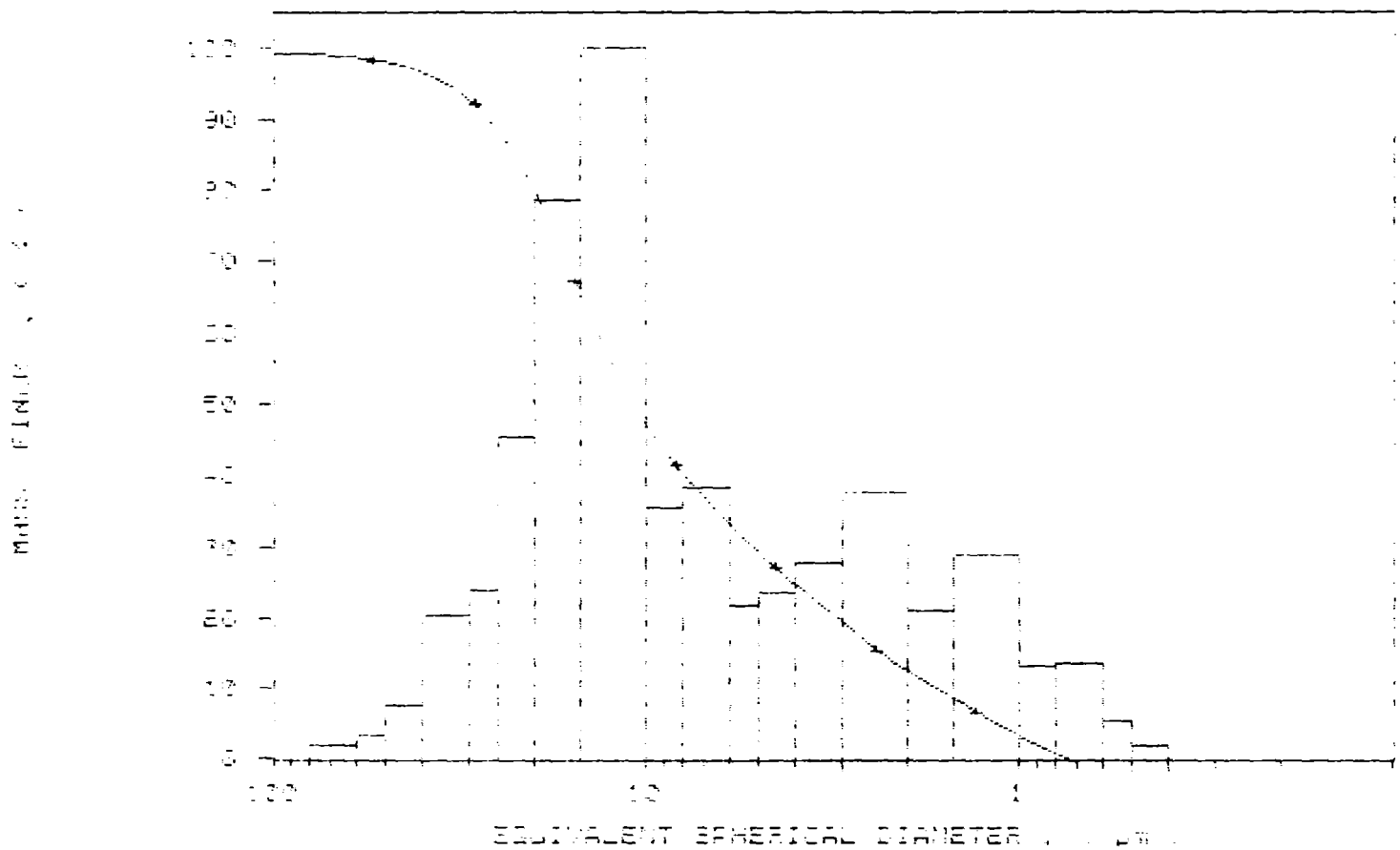
DATE

000078

SAMPLE DIRECTORY/NUMBER: DATA7 /371
SAMPLE ID: Hole 88-4 # 17153
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 93 kilocounts/sec

UNIT NUMBER: 1
START 10:20:28 12/07/94
REPRT 10:32:26 12/07/94
TOT RUN TIME 0:07:26
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7636 cp
RUN TYPE: High Speed

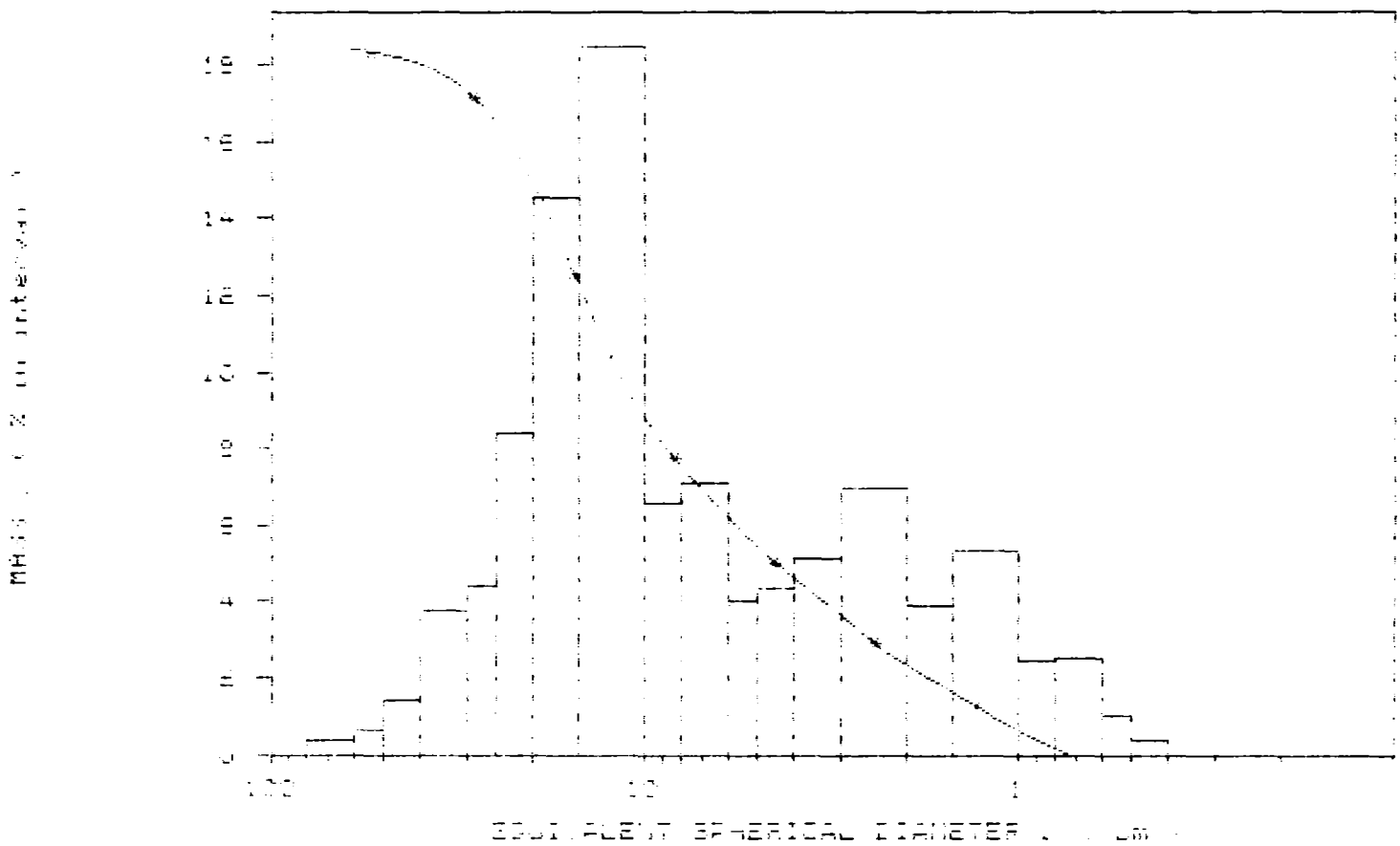
CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /371
SAMPLE ID: Hole 88-4 # 17153
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 93 kilocounts/sec

UNIT NUMBER: 1
START 10:20:28 12/07/94
REPRT 10:32:26 12/07/94
TOT RUN TIME 0:07:26
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7636 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /372
SAMPLE ID: Hole 88-4 # 17154
SUBMITTER: MRC Incc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 98 kilocounts/sec

UNIT NUMBER: 1
START 10:40:07 12/07/94
REPRT 10:48:24 12/07/94
TOT RUN TIME 0:07:56
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7638 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 9.11 µm
MODAL DIAMETER: 16.88 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	98.2	1.8
80.00	97.6	0.6
60.00	97.7	-0.2
50.00	98.0	-0.3
40.00	97.3	0.7
30.00	93.1	4.2
25.00	88.5	4.6
20.00	80.6	7.8
15.00	68.0	12.6
10.00	53.0	15.0
8.00	45.9	7.2
6.00	37.3	8.6
5.00	32.2	5.1
4.00	27.0	5.2
3.00	21.2	5.8
2.00	14.8	6.4
1.50	10.9	4.0
1.00	6.9	4.0
0.80	5.0	1.9
0.60	1.7	3.2
0.50	-0.1	1.8
0.40	-1.4	1.3

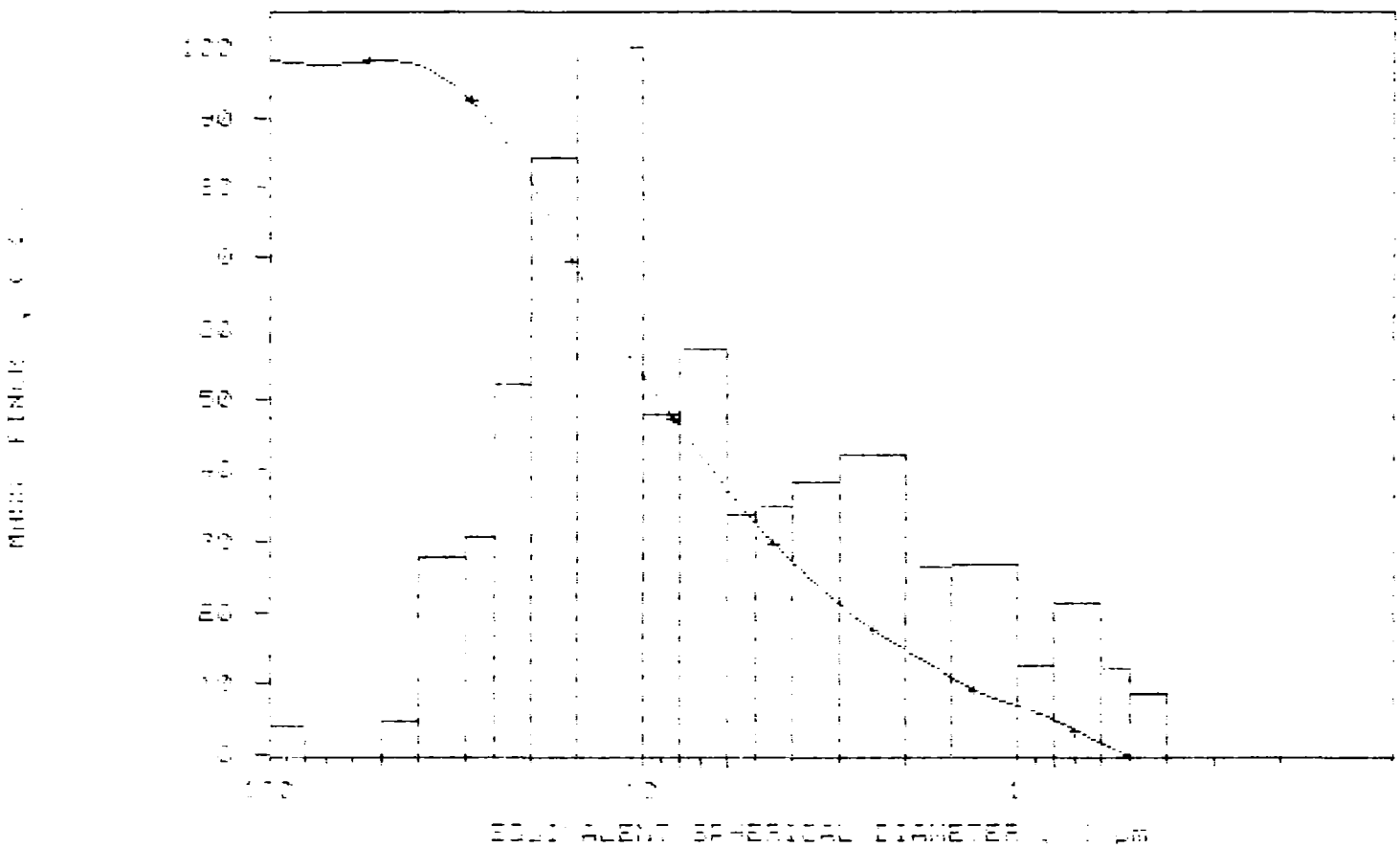
Hole 88-4 # 17154

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /372
SAMPLE ID: Hole 88-4 # 17154
SUBMITTER: MRC Incc[illegible]
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 98 kilocounts/sec

UNIT NUMBER: 1
START 10:40:07 12/07/94
REPRT 10:48:24 12/07/94
TOT RUN TIME 0:07:56
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7638 cp
RUN TYPE: High Speed

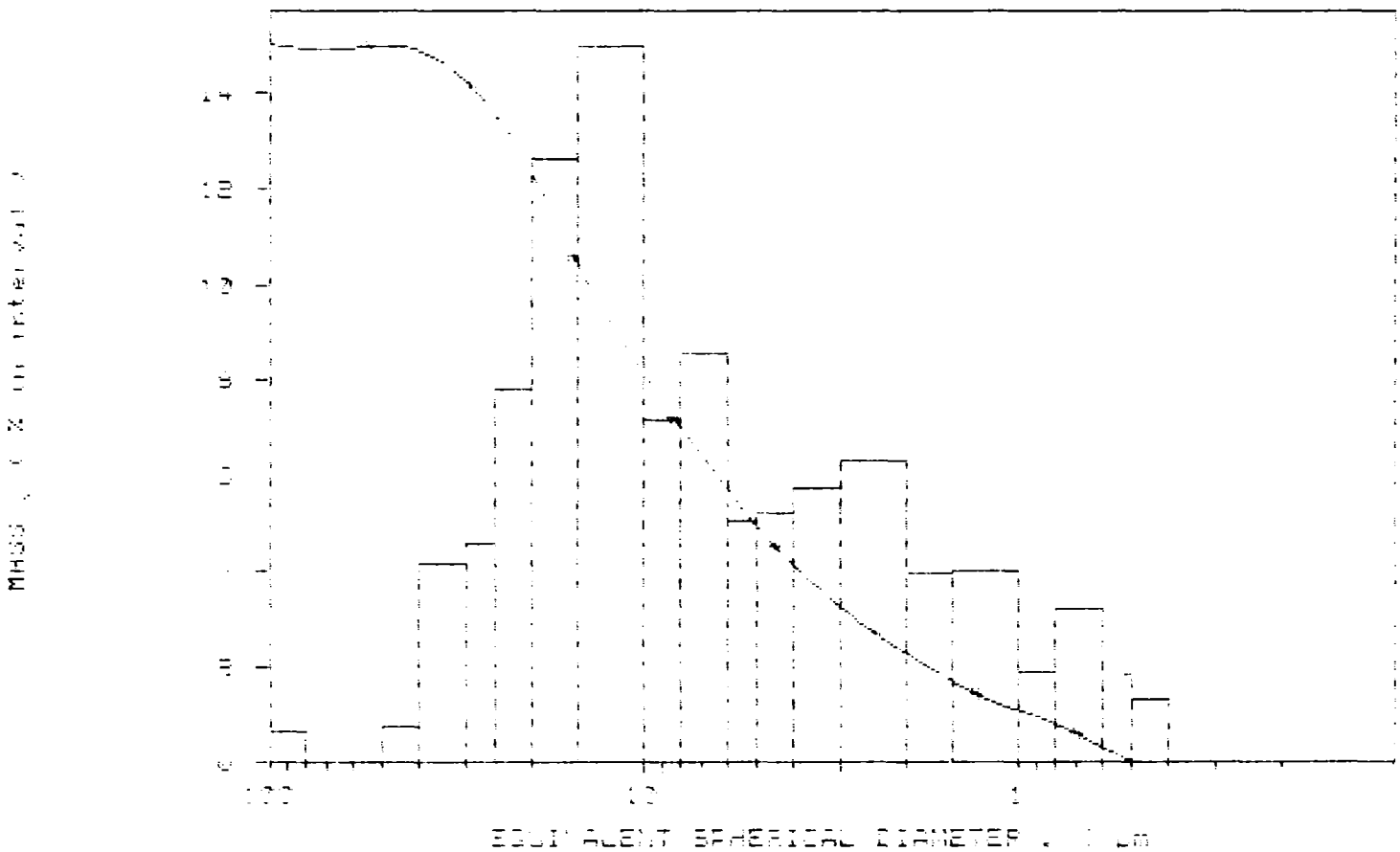
- CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /372
SAMPLE ID: Hole 88-4 # 17154
SUBMITTER: MRC Incc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 98 kilocounts/sec

UNIT NUMBER: 1
START 10:40:07 12/07/94
REPRT 10:48:24 12/07/94
TOT RUN TIME 0:07:56
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7638 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /374
SAMPLE ID: Hole 88-4 # 17155
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 90 kilocounts/sec

UNIT NUMBER: 1
START 13:24:11 12/07/94
REPRT 13:32:26 12/07/94
TOT RUN TIME 0:07:55
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7638 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 um
ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 6.37 um
MODAL DIAMETER: 14.14 um

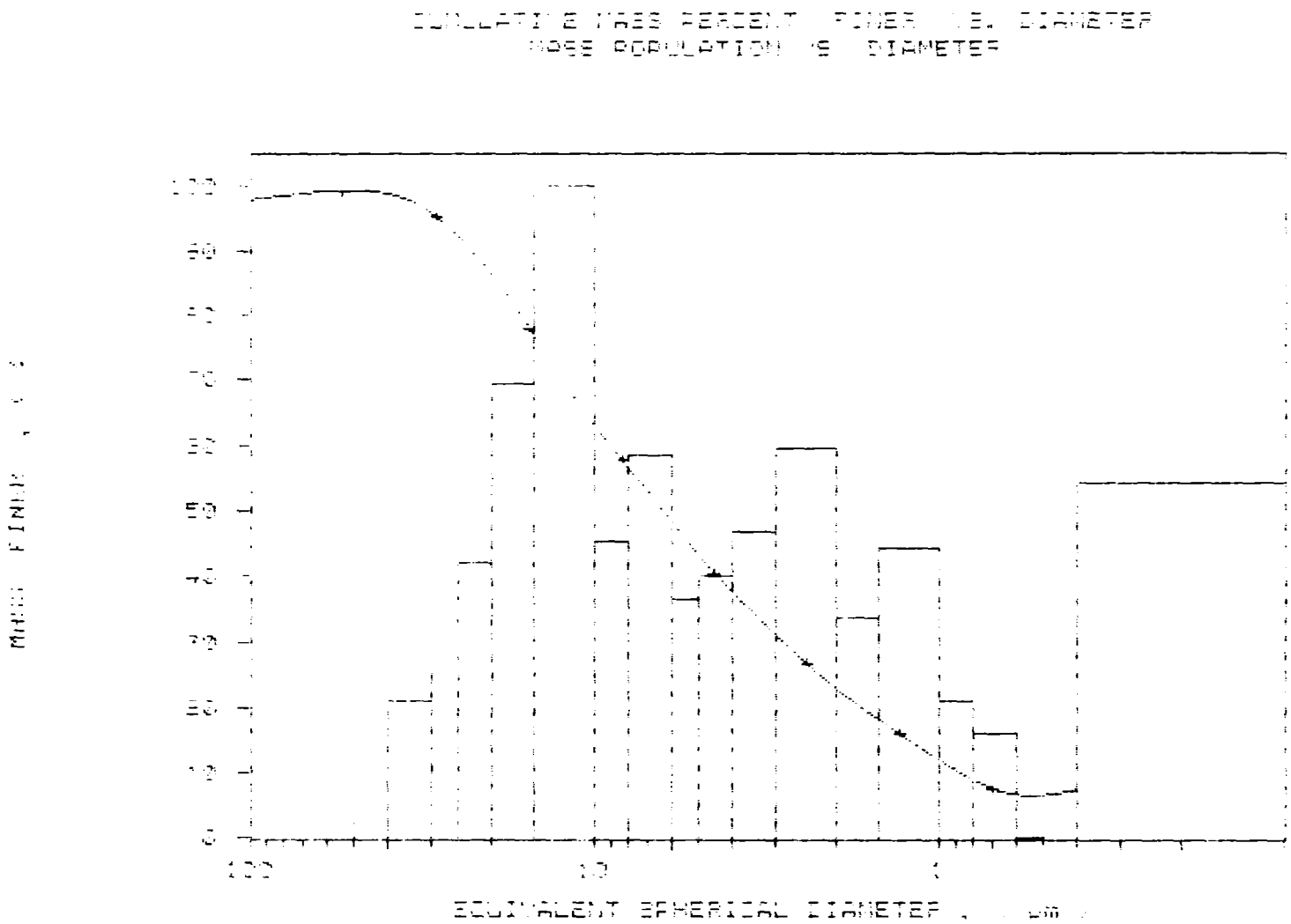
DIAMETER (um)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	97.9	2.1
80.00	98.5	-0.6
60.00	99.2	-0.7
50.00	99.3	-0.1
40.00	98.8	0.6
30.00	95.8	2.9
25.00	92.2	3.7
20.00	86.3	5.9
15.00	76.6	9.6
10.00	62.8	13.9
8.00	56.4	6.3
6.00	48.3	8.2
5.00	43.2	5.1
4.00	37.6	5.6
3.00	31.1	6.5
2.00	22.8	8.3
1.50	18.1	4.7
1.00	11.9	6.2
0.80	9.0	3.0
0.60	6.7	2.2
0.50	6.7	0.0
0.40	7.5	-0.8

DATE L. Malmstrom

000078

SAMPLE DIRECTORY/NUMBER: DATA7 /374
SAMPLE ID: Hole 88-4 # 17155
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 90 kilocounts/sec

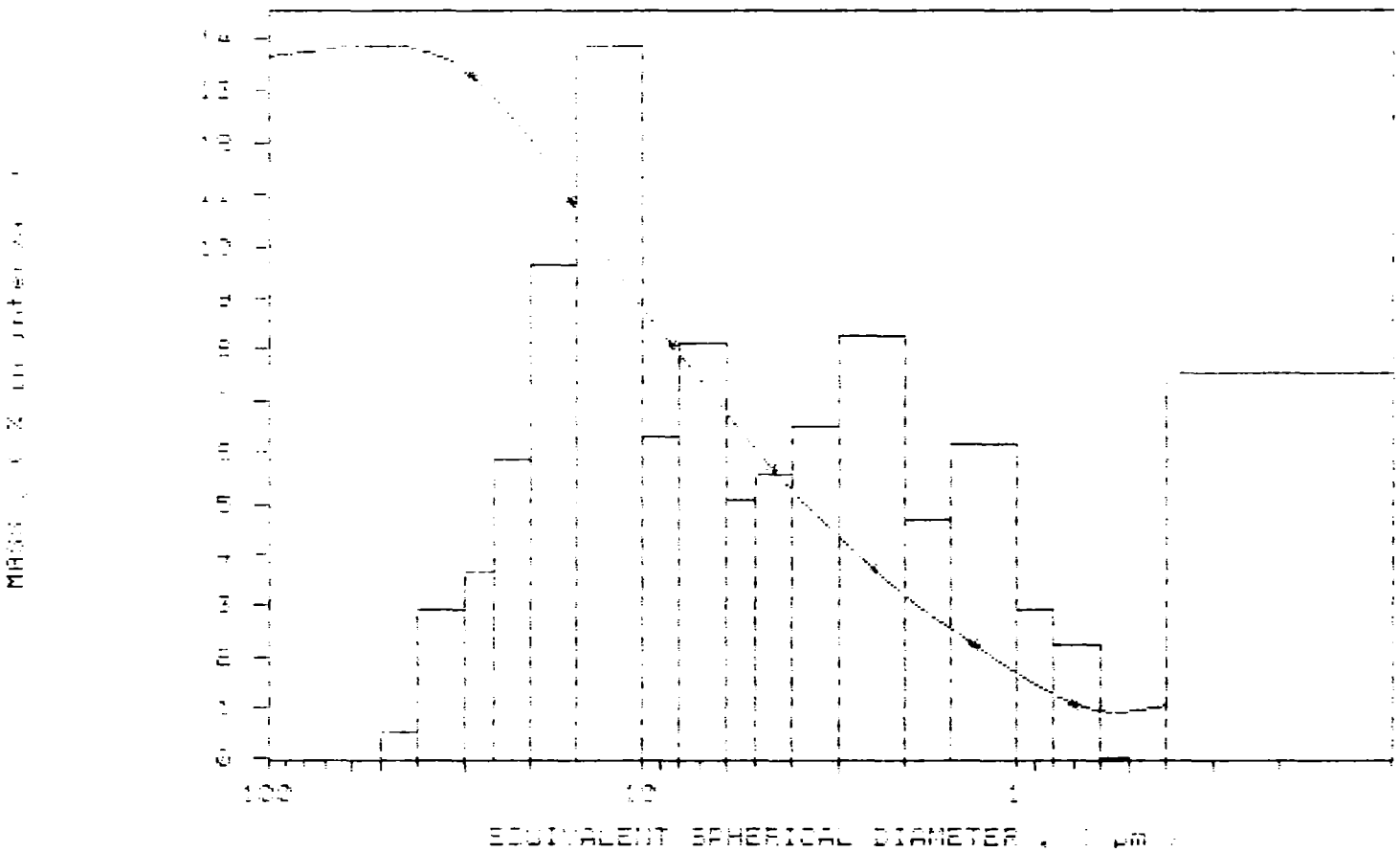
UNIT NUMBER: 1
START 13:24:11 12/07/94
REPRT 13:32:26 12/07/94
TOT RUN TIME 0:07:55
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7638 cp
RUN TYPE: High Speed



SAMPLE DIRECTORY/NUMBER: DATA7 /374
SAMPLE ID: Hole 88-4 # 17155
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 90 kilocounts/sec

UNIT NUMBER: 1
START 13:24:11 12/07/94
REPRT 13:32:26 12/07/94
TOT RUN TIME 0:07:55
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7638 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole 88-4 # 17156

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /375
SAMPLE ID: Hole 88-4 # 17156
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 98 kilocounts/sec

UNIT NUMBER: 1
START 13:45:14 12/07/94
REPRT 13:57:46 12/07/94
TOT RUN TIME 0:07:58
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7638 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 6.22 µm

MODAL DIAMETER: 13.63 µm

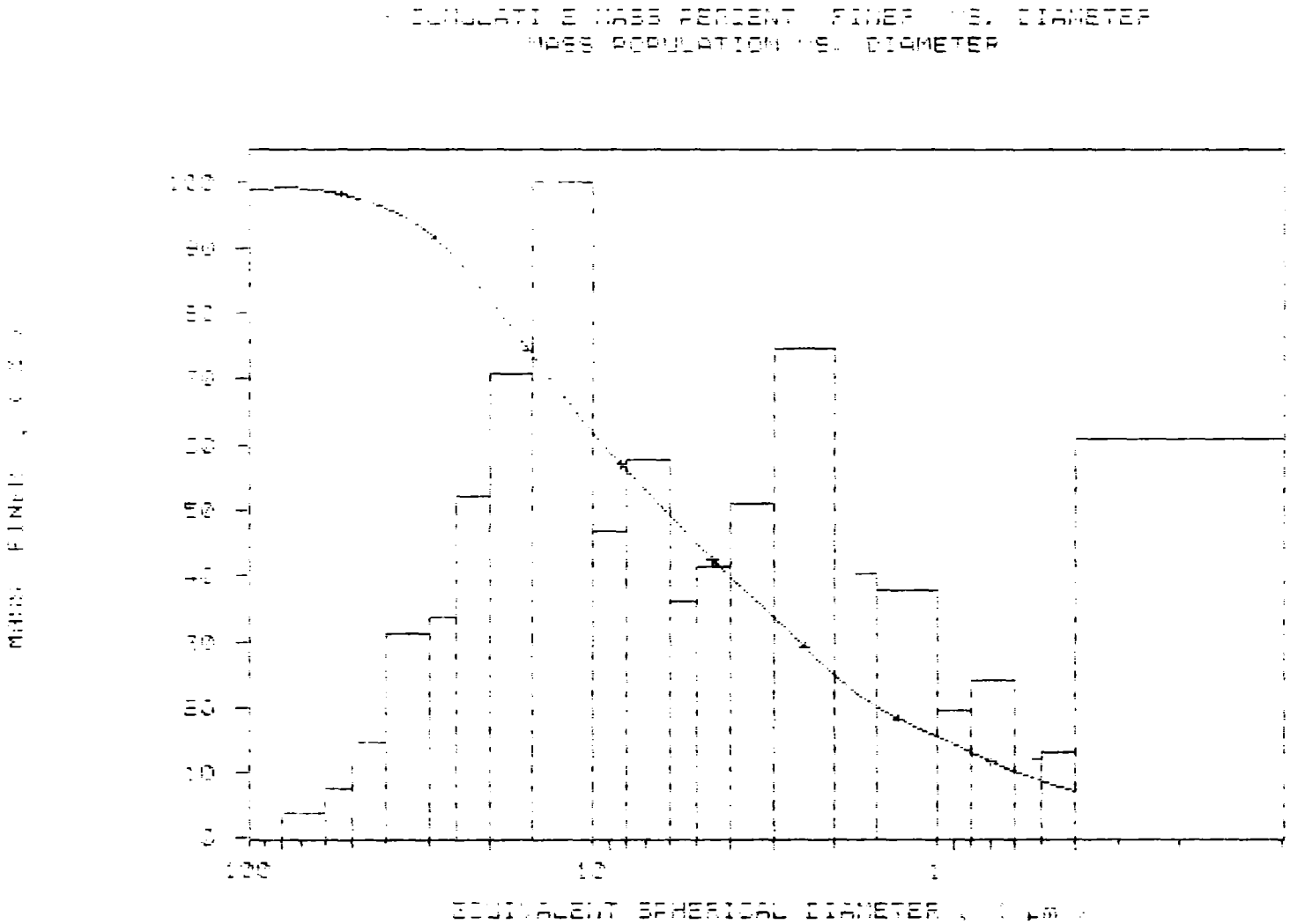
DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	98.8	1.2
80.00	99.0	-0.2
60.00	98.6	0.5
50.00	97.6	0.9
40.00	95.9	1.8
30.00	92.1	3.7
25.00	88.1	4.0
20.00	81.9	6.2
15.00	73.5	8.4
10.00	61.6	11.9
8.00	56.0	5.6
6.00	49.1	6.9
5.00	44.8	4.3
4.00	39.9	5.0
3.00	33.8	6.1
2.00	24.9	8.9
1.50	20.1	4.8
1.00	15.6	4.5
0.80	13.2	2.4
0.60	10.3	2.9
0.50	8.8	1.5
0.40	7.2	1.6

DATE L. Malmstrom

000078

SAMPLE DIRECTORY/NUMBER: DATA7 /375
SAMPLE ID: Hole 88-4 # 17156
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 98 kilocounts/sec

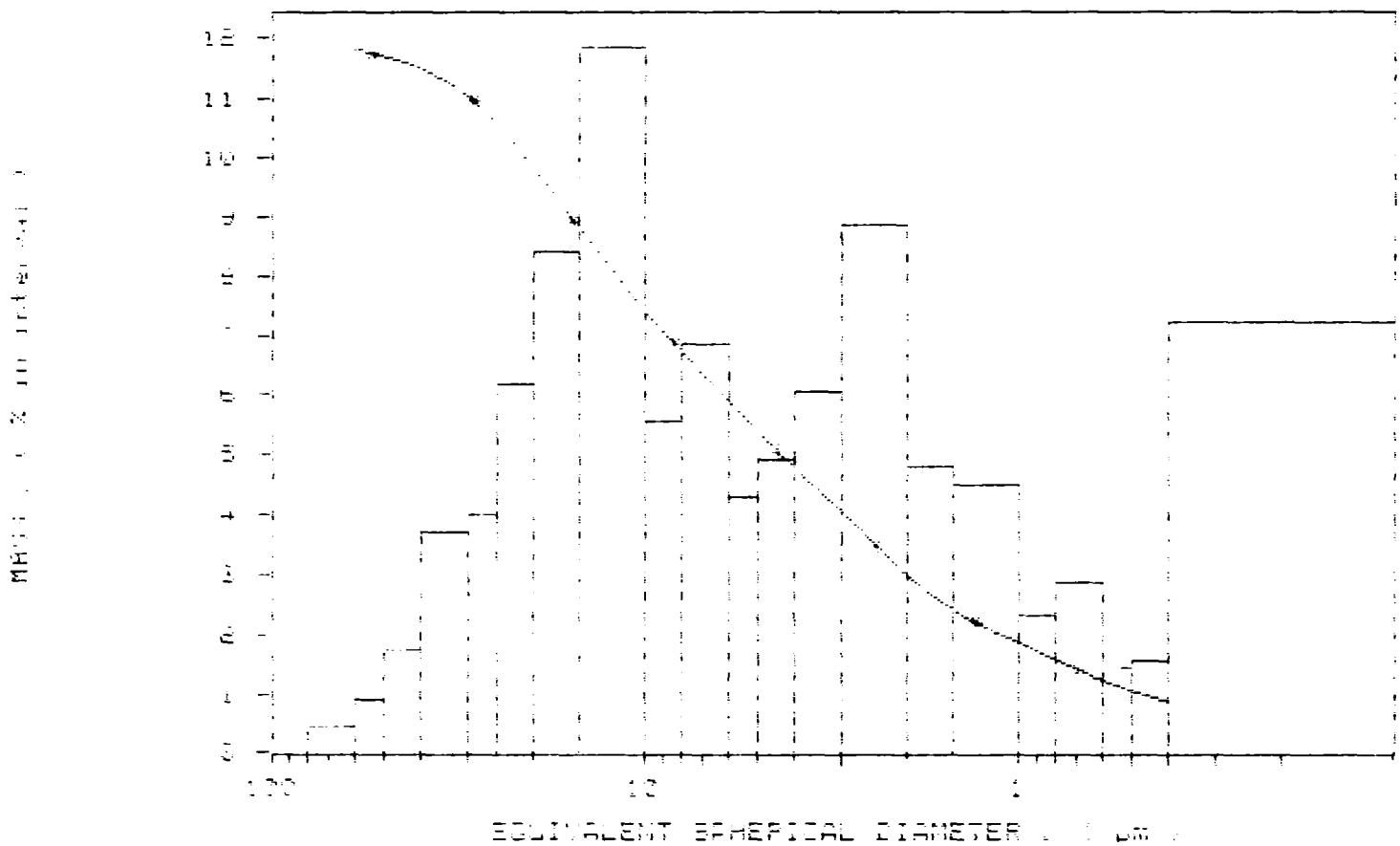
UNIT NUMBER: 1
START 13:45:14 12/07/94
REPRT 13:57:46 12/07/94
TOT RUN TIME 0:07:58
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7638 cp
RUN TYPE: High Speed



SAMPLE DIRECTORY/NUMBER: DATA7 /375
SAMPLE ID: Hole 88-4 # 17156
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 98 kilocounts/sec

UNIT NUMBER: 1
START 13:45:14 12/07/94
REPRT 13:57:46 12/07/94
TOT RUN TIME 0:07:58
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7638 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole 88-4 # 17157

SediGraph 5100 V3.02 PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA7 /376
SAMPLE ID: Hole 88-4 # 17157
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 105 kilocounts/sec

UNIT NUMBER: 1
START 14:10:05 12/07/94
REPRT 14:22:25 12/07/94
TOT RUN TIME 0:07:48
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7637 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 4.08 µm
MODAL DIAMETER: 4.66 µm

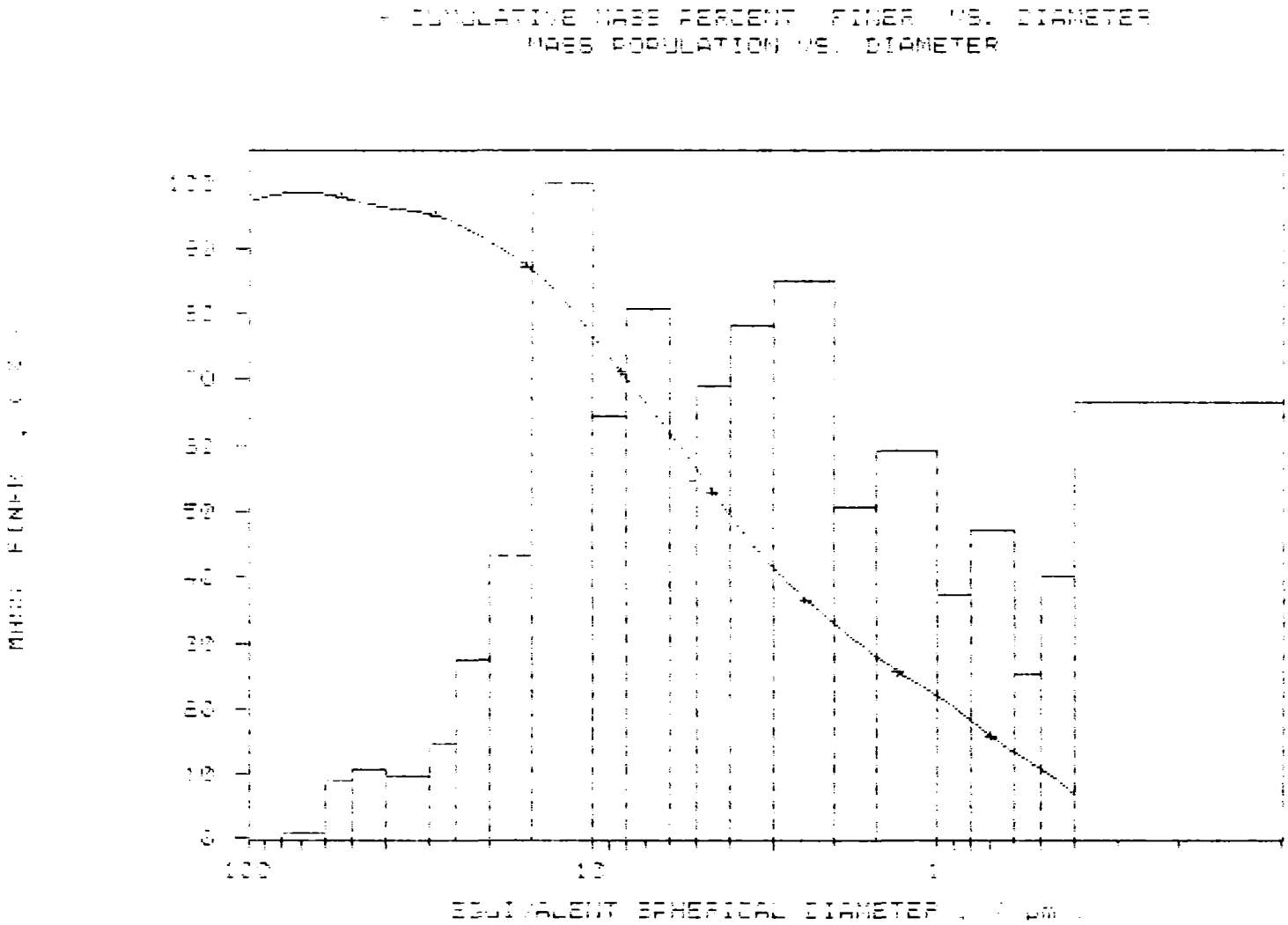
DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	97.1	2.9
80.00	98.3	-1.2
60.00	98.2	0.1
50.00	97.3	0.9
40.00	96.2	1.1
30.00	95.2	1.0
25.00	93.7	1.5
20.00	90.9	2.8
15.00	86.6	4.4
10.00	76.5	10.1
8.00	70.0	6.5
6.00	61.8	8.1
5.00	56.3	5.5
4.00	49.4	7.0
3.00	41.5	7.9
2.00	32.9	8.6
1.50	27.8	5.1
1.00	21.8	6.0
0.80	18.1	3.8
0.60	13.3	4.8
0.50	10.7	2.6
0.40	6.7	4.0

L. Malmstrom

000078

SAMPLE DIRECTORY/NUMBER: DATA7 /376
SAMPLE ID: Hole 88-4 # 17157
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 105 kilocounts/sec

UNIT NUMBER: 1
START 14:10:05 12/07/94
REPRT 14:22:25 12/07/94
TOT RUN TIME 0:07:48
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7637 cp
RUN TYPE: High Speed



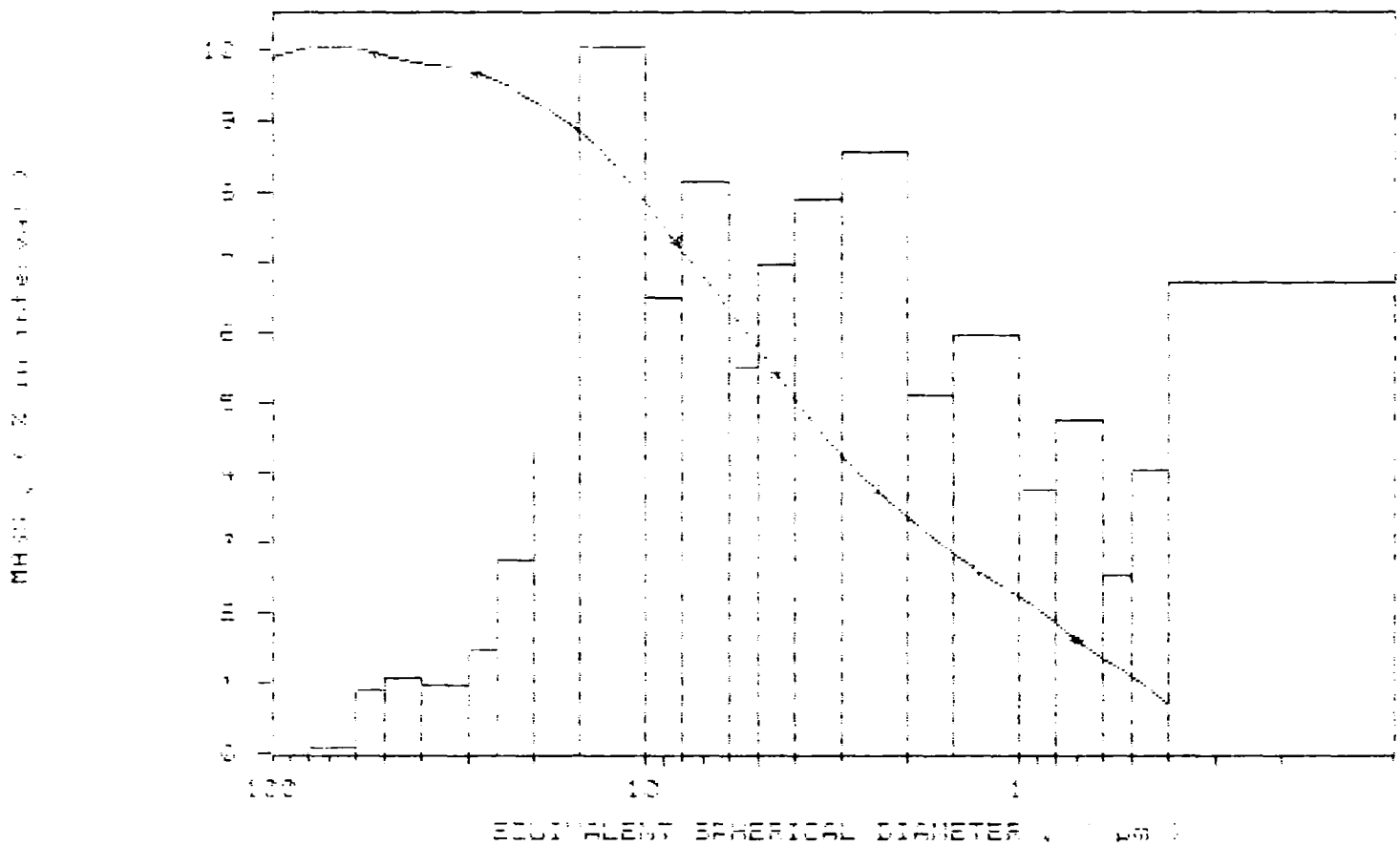
Hole 88-4 # 17157

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /376
SAMPLE ID: Hole 88-4 # 17157
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 105 kilocounts/sec

UNIT NUMBER: 1
START 14:10:05 12/07/94
REPRT 14:22:25 12/07/94
TOT RUN TIME 0:07:48
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7637 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole 88-4 # 17158

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /377
SAMPLE ID: Hole 88-4 # 17158
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 95 kilocounts/sec

UNIT NUMBER: 1
START 14:35:57 12/07/94
REPRT 14:43:57 12/07/94
TOT RUN TIME 0:07:40
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7635 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 3.76 µm

MODAL DIAMETER: 5.84 µm

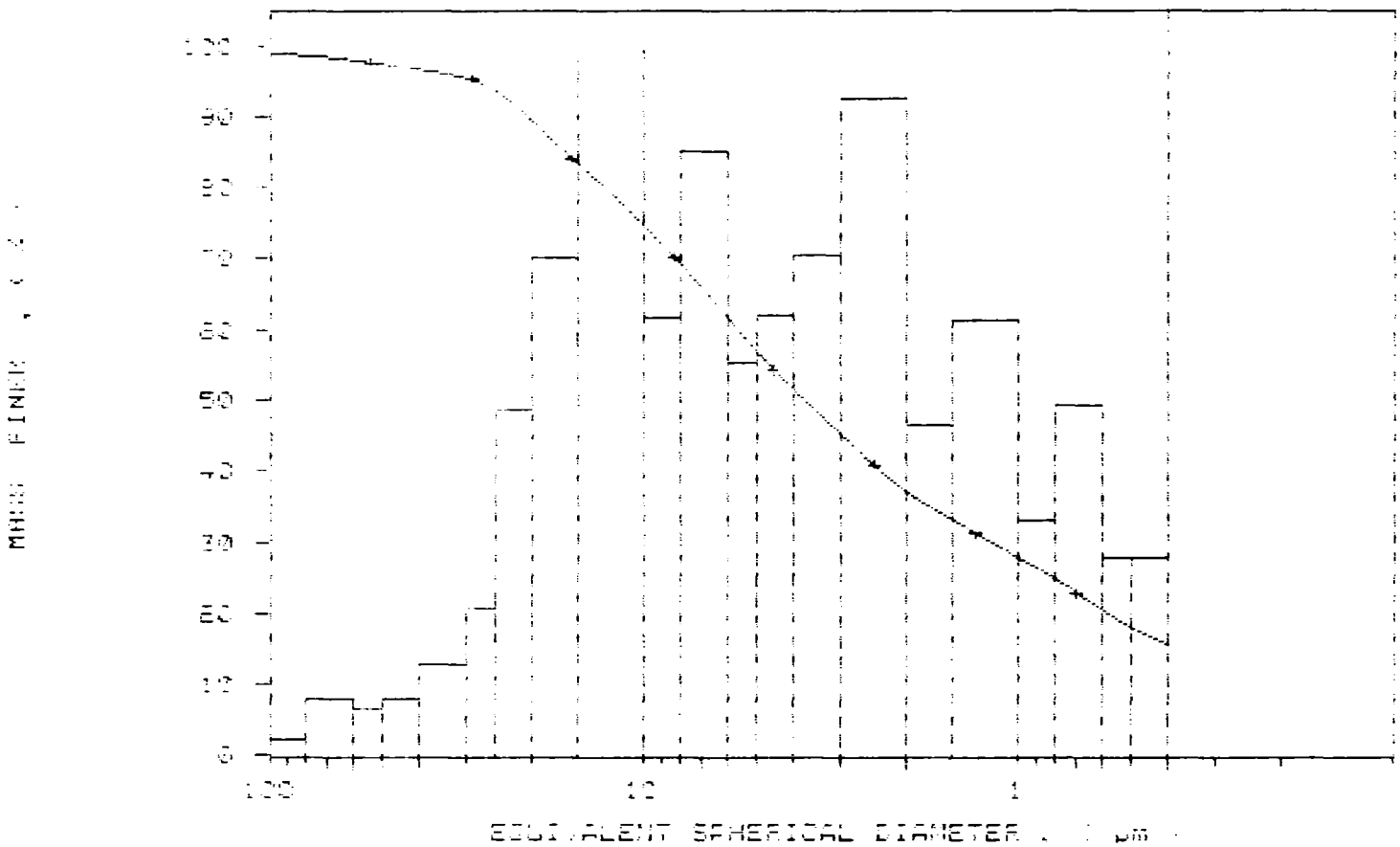
DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	98.8	1.2
80.00	98.5	0.2
60.00	97.8	0.7
50.00	97.2	0.6
40.00	96.5	0.7
30.00	95.4	1.1
25.00	93.6	1.8
20.00	89.3	4.3
15.00	83.2	6.1
10.00	74.5	8.7
8.00	69.1	5.4
6.00	61.6	7.4
5.00	56.8	4.8
4.00	51.4	5.4
3.00	45.2	6.2
2.00	37.1	8.1
1.50	33.1	4.1
1.00	27.7	5.4
0.80	24.8	2.9
0.60	20.5	4.3
0.50	18.0	2.4
0.40	15.6	2.4

L. Malmstrom

SAMPLE DIRECTORY/NUMBER: DATA7 /377
SAMPLE ID: Hole 88-4 # 17158
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 95 kilocounts/sec

UNIT NUMBER: 1
START 14:35:57 12/07/94
REPRT 14:43:57 12/07/94
TOT RUN TIME 0:07:40
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7635 cp
RUN TYPE: High Speed

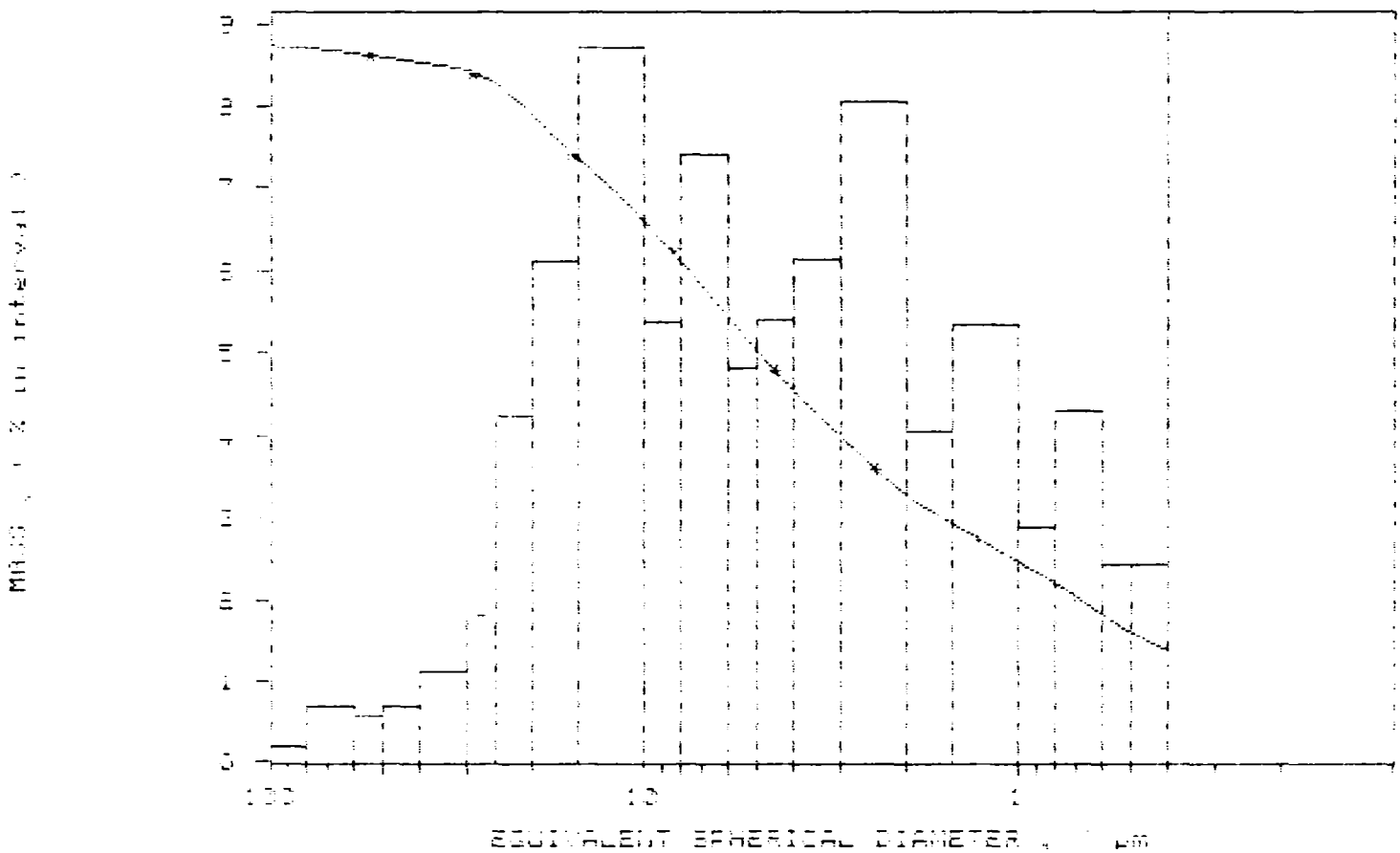
- CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /377
SAMPLE ID: Hole 88-4 # 17158
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 95 kilocounts/sec

UNIT NUMBER: 1
START 14:35:57 12/07/94
REPRT 14:43:57 12/07/94
TOT RUN TIME 0:07:40
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7635 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /378
SAMPLE ID: Hole 88-4 # 17159
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 101 kilocounts/sec

UNIT NUMBER: 1
START 14:56:13 12/07/94
REPRT 15:04:15 12/07/94
TOT RUN TIME 0:07:42
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7636 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.67 µm
MODAL DIAMETER: 3.25 µm

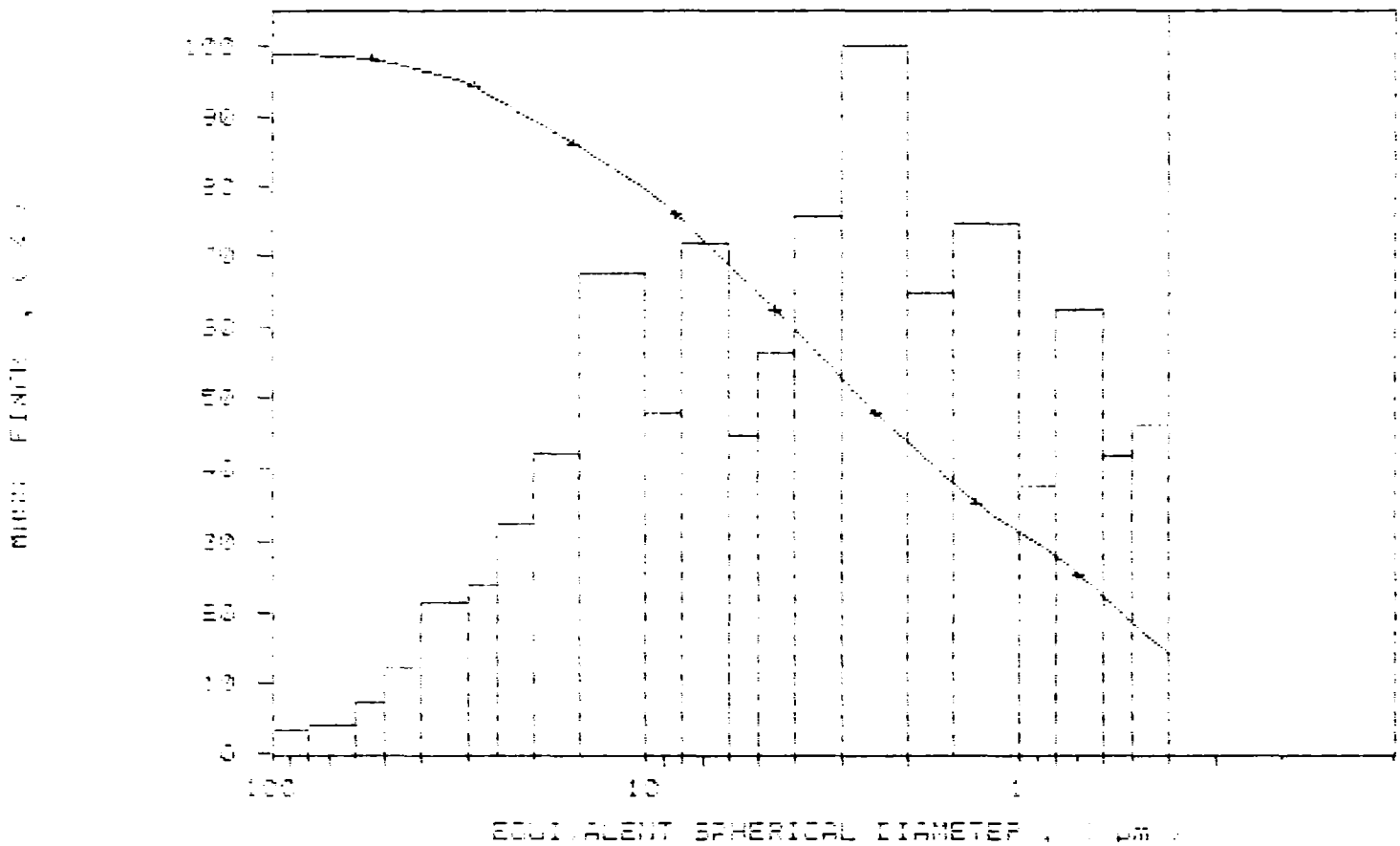
DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	99.0	1.0
80.00	98.7	0.3
60.00	98.3	0.4
50.00	97.6	0.7
40.00	96.5	1.1
30.00	94.6	1.9
25.00	92.4	2.2
20.00	89.5	2.9
15.00	85.7	3.8
10.00	79.6	6.1
8.00	75.2	4.3
6.00	68.7	6.5
5.00	64.7	4.1
4.00	59.6	5.1
3.00	52.8	6.8
2.00	43.8	9.0
1.50	37.9	5.9
1.00	31.2	6.7
0.80	27.8	3.4
0.60	22.1	5.6
0.50	18.4	3.8
0.40	14.2	4.2

DATE L. Malmstrom

SAMPLE DIRECTORY/NUMBER: DATA7 /378
SAMPLE ID: Hole 88-4 # 17159
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 101 kilocounts/sec

UNIT NUMBER: 1
START 14:56:13 12/07/94
REPRT 15:04:15 12/07/94
TOT RUN TIME 0:07:42
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7636 cp
RUN TYPE: High Speed

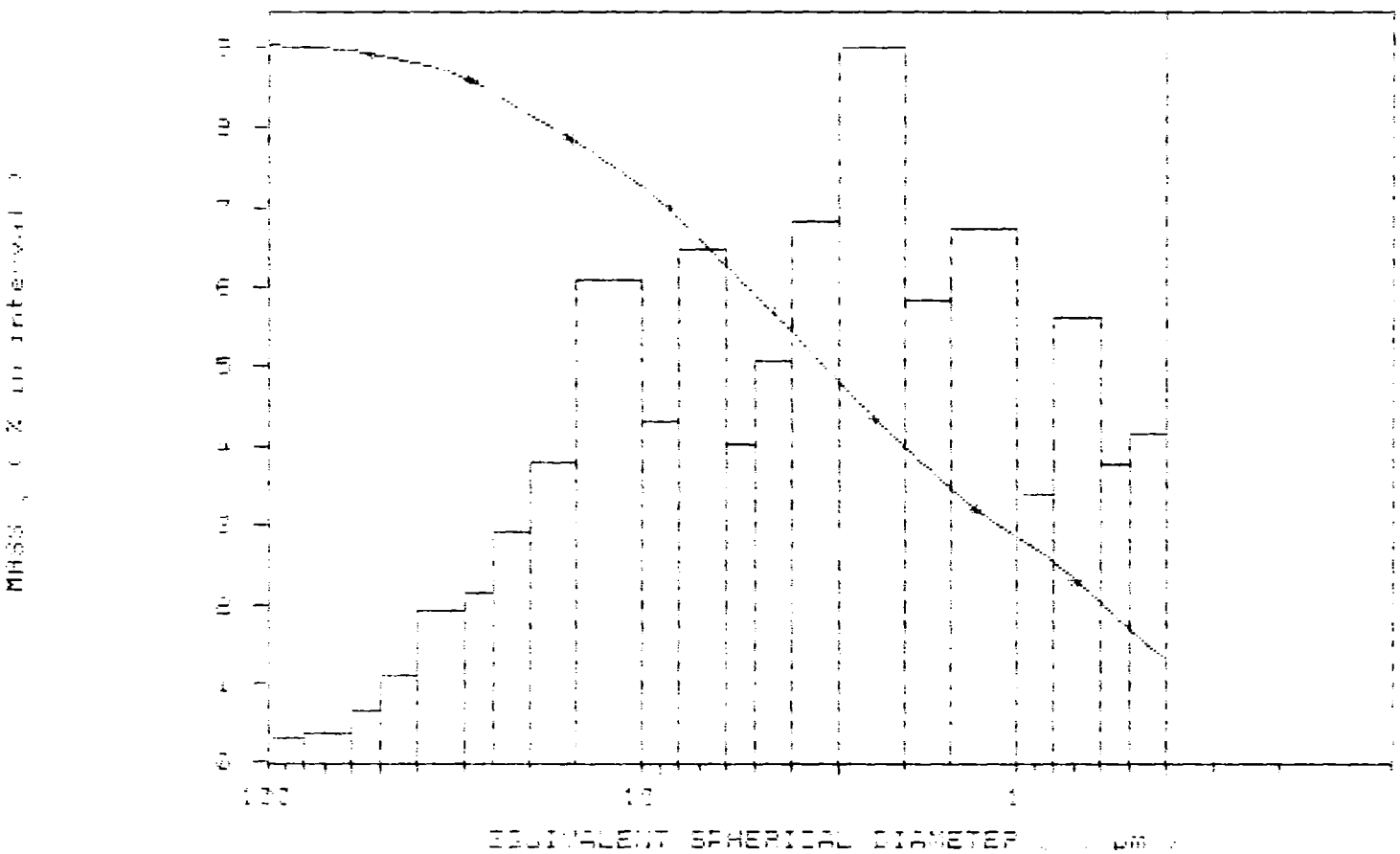
- CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /378
SAMPLE ID: Hole 88-4 # 17159
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 101 kilocounts/sec

UNIT NUMBER: 1
START 14:56:13 12/07/94
REPRT 15:04:15 12/07/94
TOT RUN TIME 0:07:42
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7636 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole 88-4 # 17160

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /379
SAMPLE ID: Hole 88-4 # 17160
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.0 deg C
BASELINE/FULL SCALE: 124/ 79 kilocounts/sec

UNIT NUMBER: 1
START 08:31:54 12/09/94
REPRT 08:43:49 12/09/94
TOT RUN TIME 0:07:24
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9951 g/cc
LIQ VISC: 0.7673 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 um
ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 1.48
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.59 um

MODAL DIAMETER: 4.02 um

DIAMETER (um)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	100.1	-0.1
80.00	100.0	0.1
60.00	99.9	0.1
50.00	99.8	0.1
40.00	99.4	0.4
30.00	98.3	1.2
25.00	97.3	1.0
20.00	96.4	0.9
15.00	95.4	1.1
10.00	92.8	2.5
8.00	90.1	2.8
6.00	84.5	5.5
5.00	79.9	4.6
4.00	73.3	6.6
3.00	64.8	8.5
2.00	54.7	10.1
1.50	48.8	5.9
1.00	41.1	7.7
0.80	36.8	4.4
0.60	30.8	6.0
0.50	26.5	4.2
0.40	20.5	6.0

DATE K. Malmstrom

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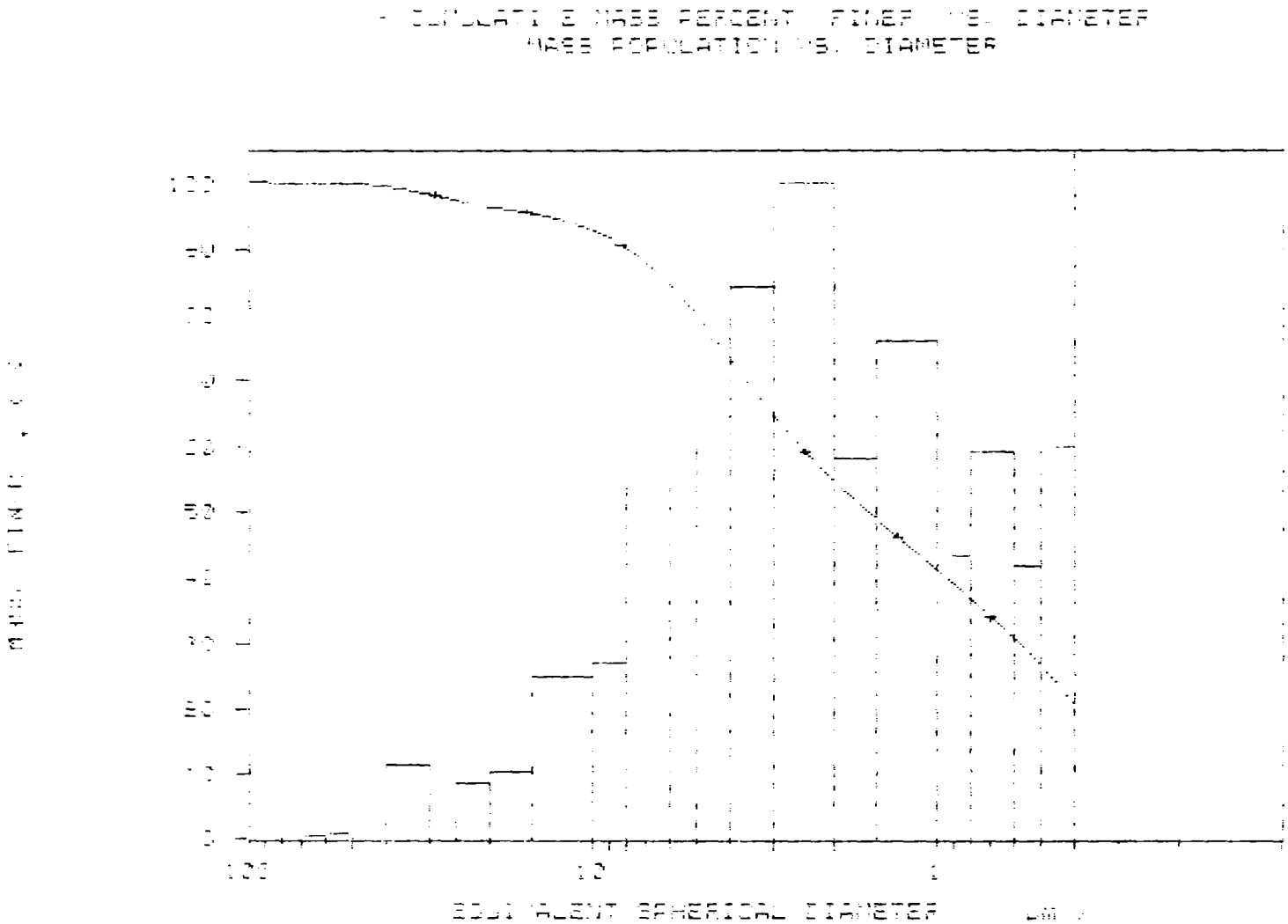
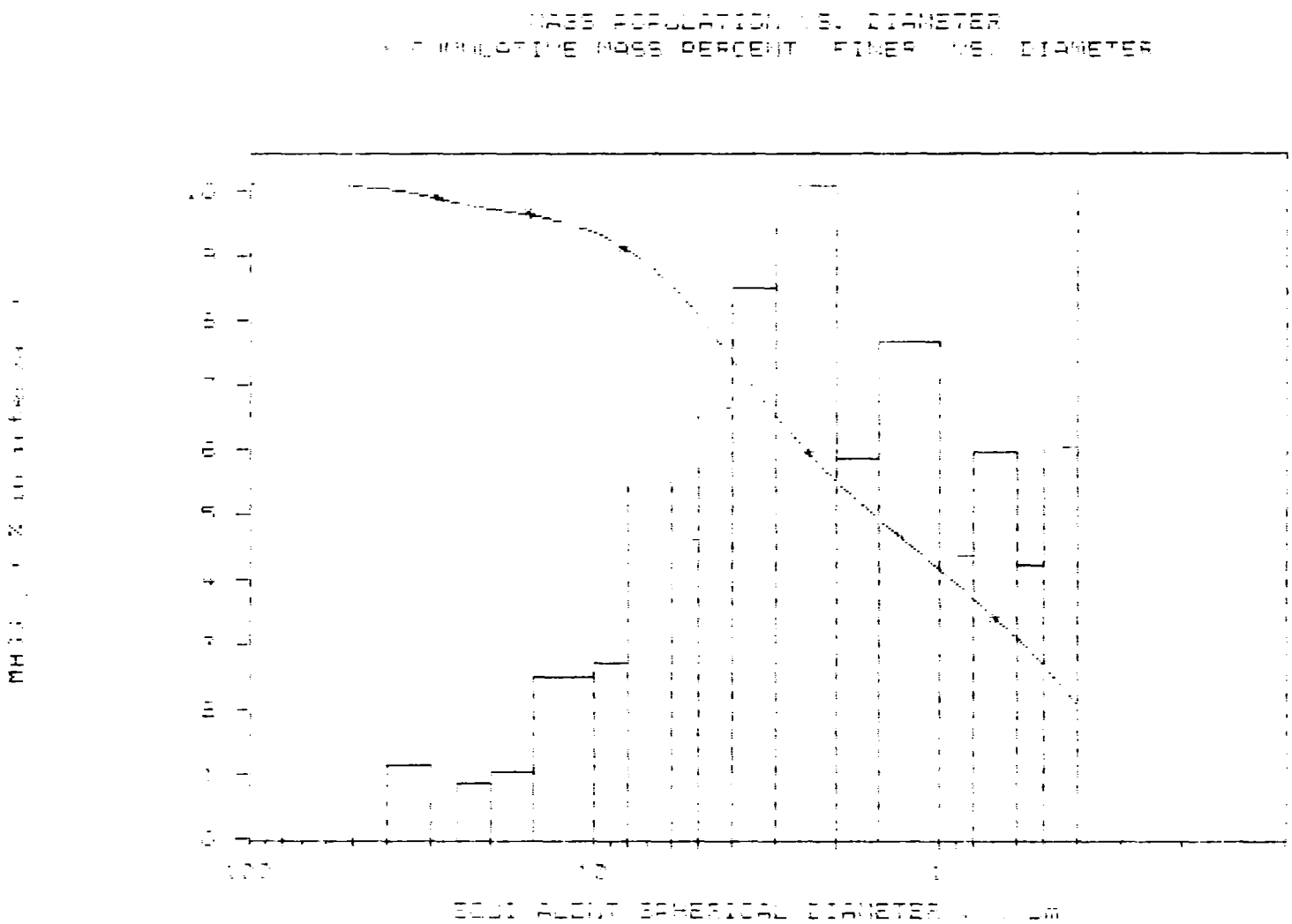
SAMPLE DIRECTORY/NUMBER: DATA7 /379
SAMPLE ID: Hole 88-4 # 17160
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.0 deg C
BASELINE/FULL SCALE: 124/ 79 kilocounts/sec

UNIT NUMBER: 1
START 08:31:54 12/09/94
REPRT 08:43:49 12/09/94
TOT RUN TIME 0:07:24
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9951 g/cc
LIQ VISC: 0.7673 cp
RUN TYPE: High Speed



SAMPLE DIRECTORY/NUMBER: DATA7 /379
SAMPLE ID: Hole 88-4 # 17160
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.0 deg C
BASELINE/FULL SCALE: 124/ 79 kilocounts/sec

UNIT NUMBER: 1
START 08:31:54 12/09/94
REPRT 08:43:49 12/09/94
TOT RUN TIME 0:07:24
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9951 g/cc
LIQ VISC: 0.7673 cp
RUN TYPE: High Speed



Hole 88-4 # 17161

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /380
SAMPLE ID: Hole 88-4 # 17161
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.2 deg C
BASELINE/FULL SCALE: 124/ 97 kilocounts/sec

UNIT NUMBER: 1
START 09:13:08 12/09/94
REPRT 09:25:38 12/09/94
TOT RUN TIME 0:07:56
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7646 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 um
ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 4.35 um
MODAL DIAMETER: 5.60 um

DIAMETER (um)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	97.4	2.6
80.00	97.2	0.2
60.00	97.2	-0.0
50.00	97.0	0.2
40.00	96.3	0.7
30.00	93.9	2.3
25.00	90.8	3.1
20.00	86.3	4.5
15.00	80.2	6.1
10.00	70.7	9.5
8.00	65.5	5.2
6.00	58.4	7.2
5.00	53.6	4.8
4.00	47.8	5.7
3.00	40.6	7.2
2.00	31.2	9.4
1.50	24.7	6.5
1.00	16.3	8.4
0.80	11.8	4.5
0.60	6.4	5.4
0.50	3.6	2.8
0.40	-0.1	3.7

K. Malmstrøm

DATE

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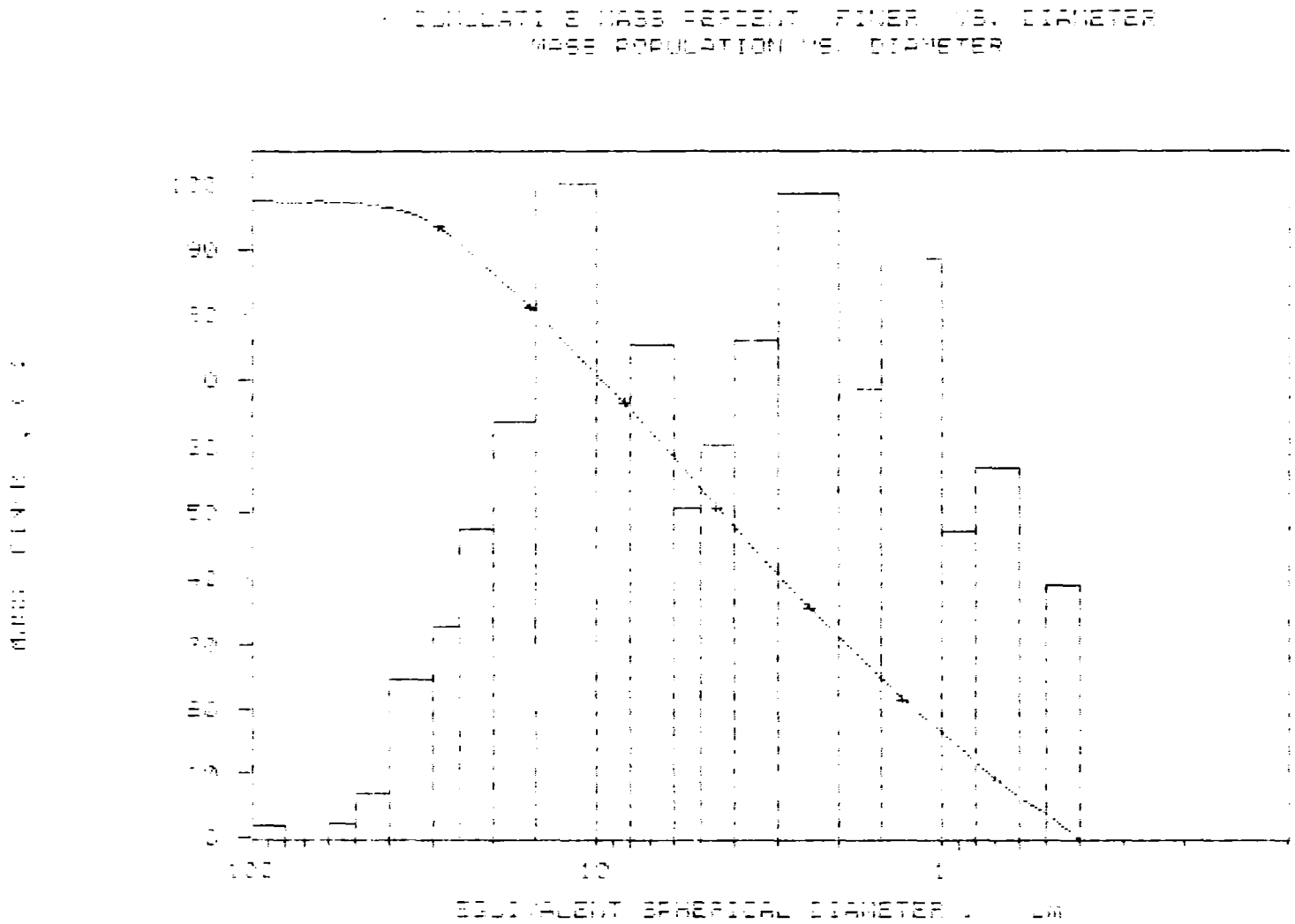
SAMPLE DIRECTORY/NUMBER: DATA7 /380
SAMPLE ID: Hole 88-4 # 17161
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.2 deg C
BASELINE/FULL SCALE: 124/ 97 kilocounts/sec

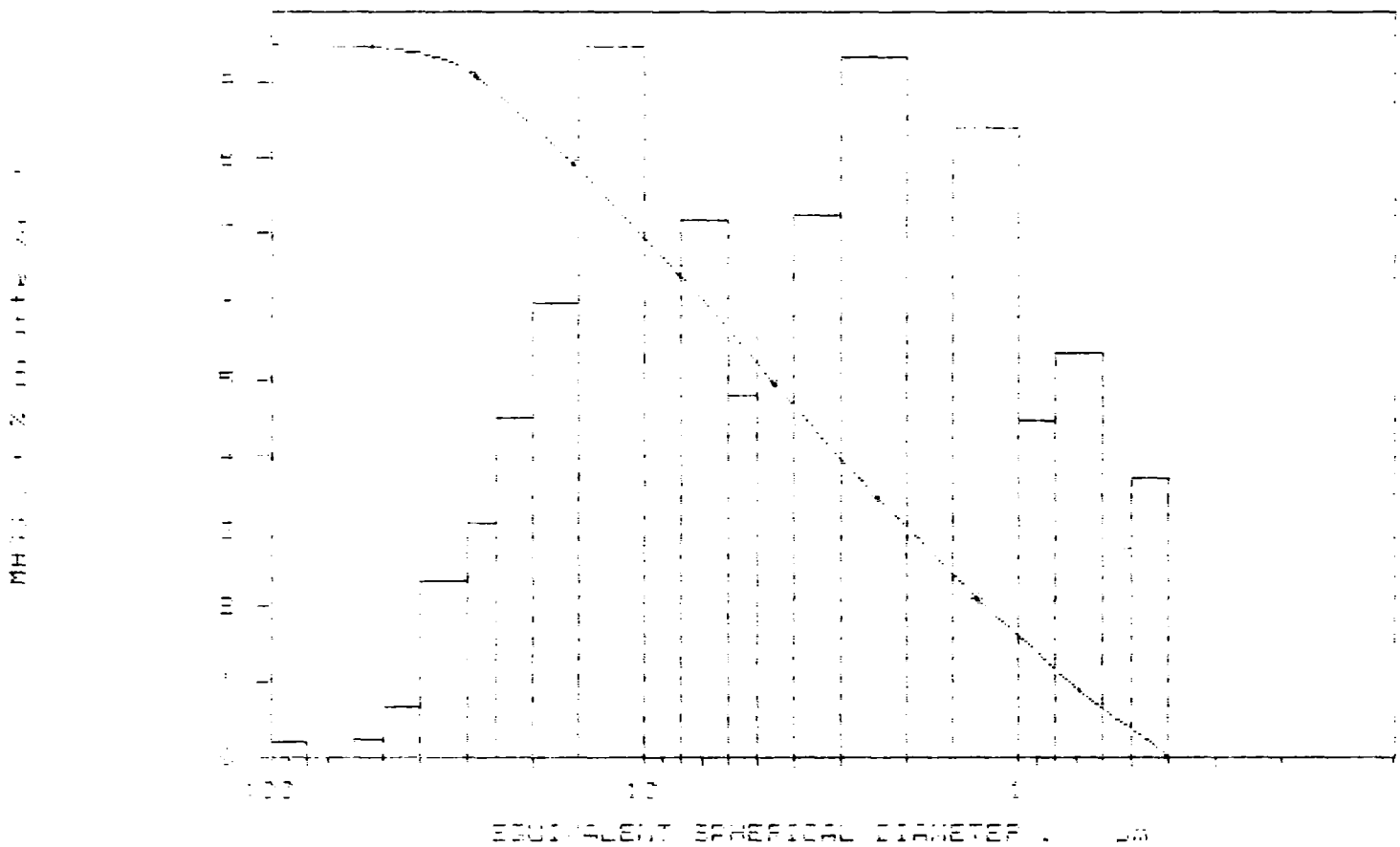
UNIT NUMBER: 1
START 09:13:08 12/09/94
REPRT 09:25:38 12/09/94
TOT RUN TIME 0:07:56
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7646 cp
RUN TYPE: High Speed



SAMPLE DIRECTORY/NUMBER: DATA7 /380
SAMPLE ID: Hole 88-4 # 17161
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.2 deg C
BASELINE/FULL SCALE: 124/ 97 kilocounts/sec

UNIT NUMBER: 1
START 09:13:08 12/09/94
REPRT 09:25:38 12/09/94
TOT RUN TIME 0:07:56
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7646 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
- CUMULATIVE MASS PERCENT FINER VS DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /381
SAMPLE ID: Hole 88-4 # 17162
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.2 deg C
BASELINE/FULL SCALE: 124/ 84 kilocounts/sec

UNIT NUMBER: 1
START 09:33:18 12/09/94
REPRT 09:41:04 12/09/94
TOT RUN TIME 0:07:23
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7643 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 um
ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.50 um
MODAL DIAMETER: 4.89 um

DIAMETER (um)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	98.7	1.3
80.00	98.7	0.0
60.00	98.6	0.1
50.00	98.6	0.0
40.00	98.4	0.2
30.00	97.6	0.8
25.00	96.8	0.8
20.00	95.4	1.4
15.00	92.2	3.2
10.00	85.5	6.7
8.00	81.2	4.3
6.00	74.1	7.1
5.00	68.8	5.4
4.00	62.2	6.6
3.00	54.4	7.7
2.00	45.3	9.1
1.50	39.9	5.4
1.00	32.6	7.3
0.80	28.6	4.1
0.60	22.5	6.0
0.50	18.4	4.1
0.40	17.4	6.1

DATE K. Malmstrom

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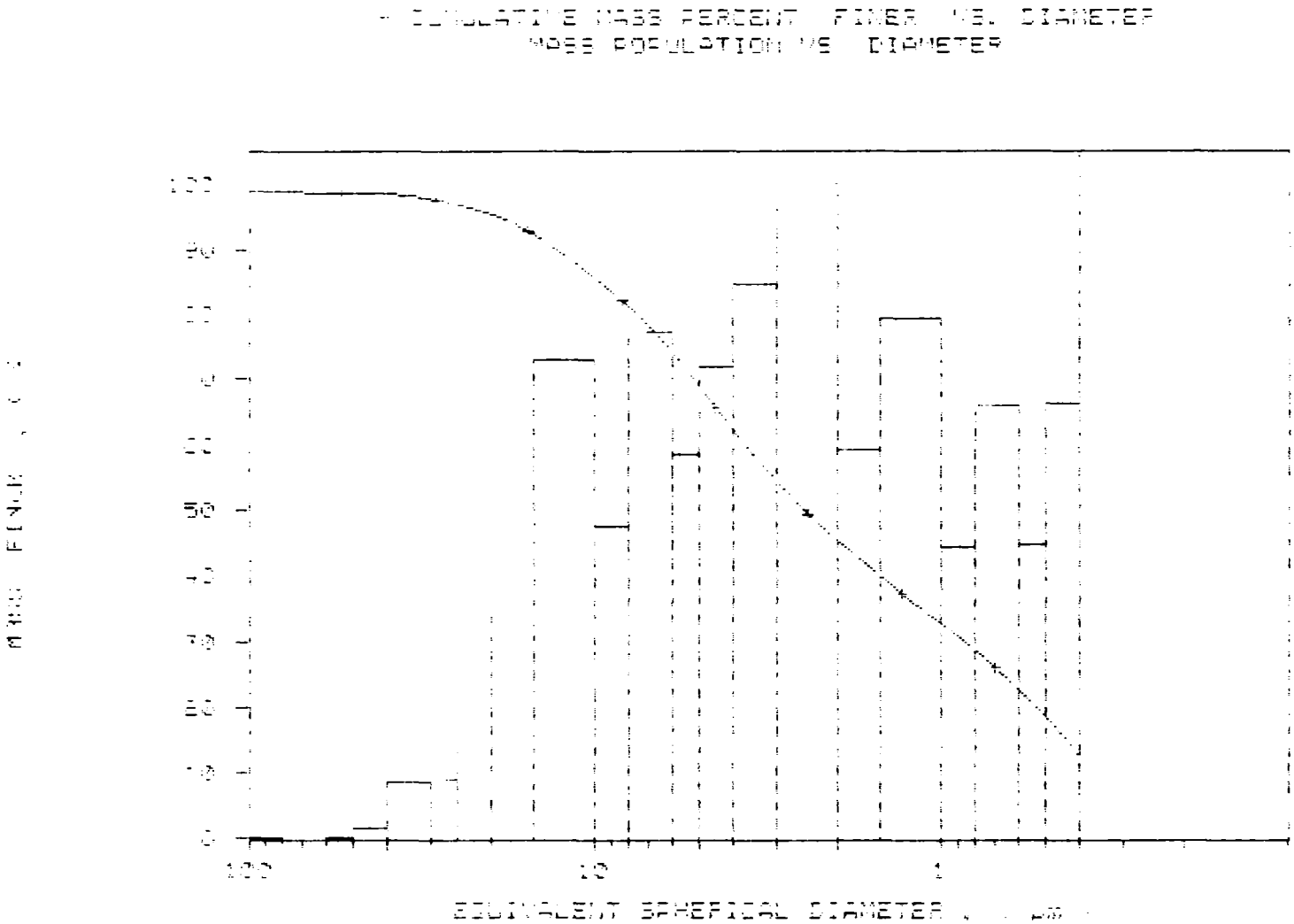
SAMPLE DIRECTORY/NUMBER: DATA7 /381
SAMPLE ID: Hole 88-4 # 17162
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.2 deg C
BASELINE/FULL SCALE: 124/ 84 kilocounts/sec

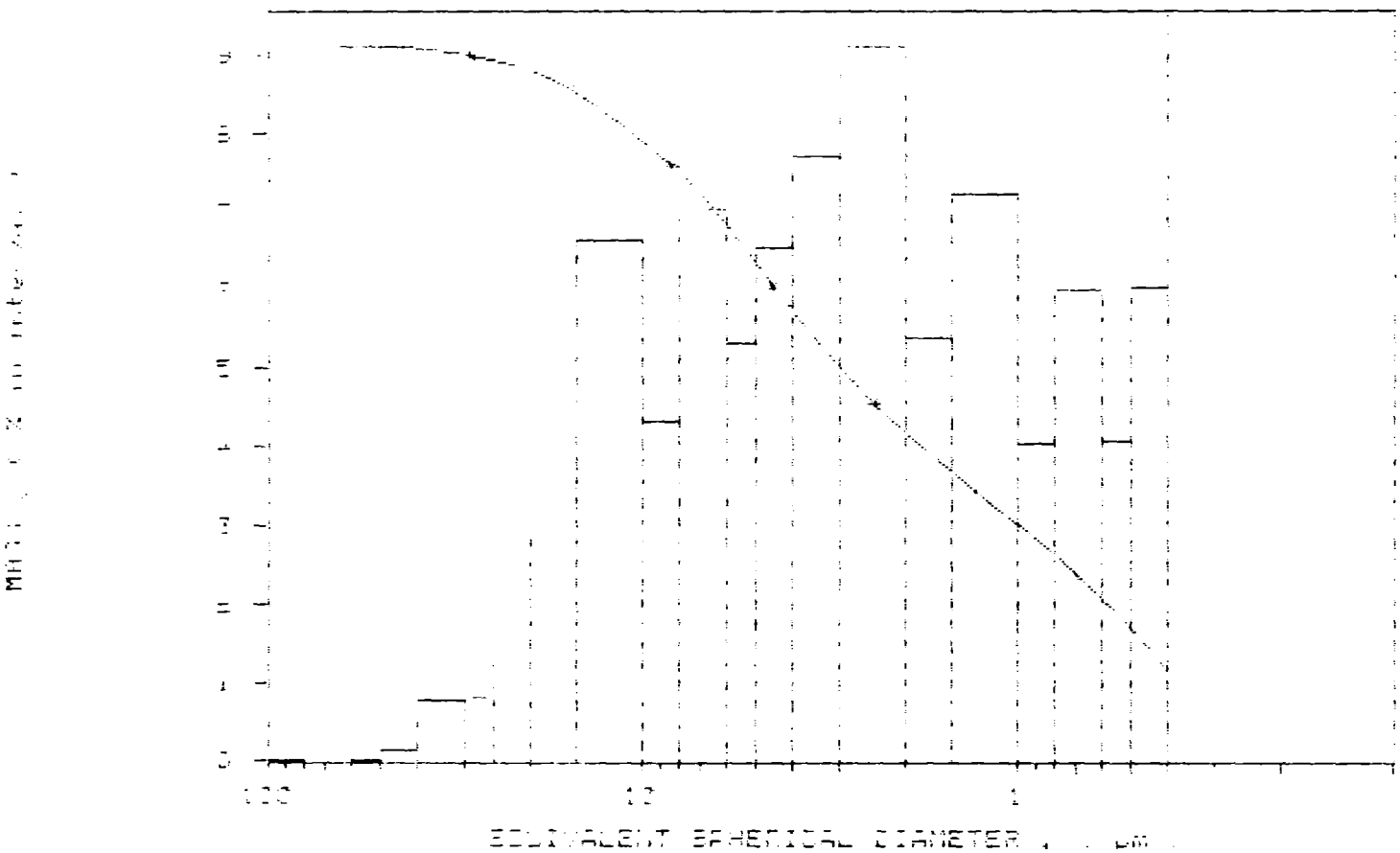
UNIT NUMBER: 1
START 09:33:18 12/09/94
REPRT 09:41:04 12/09/94
TOT RUN TIME 0:07:23
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7643 cp
RUN TYPE: High Speed



SAMPLE DIRECTORY/NUMBER: DATA7 /381
SAMPLE ID: Hole 88-4 # 17162
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.2 deg C
BASELINE/FULL SCALE: 124/ 84 kilocounts/sec

UNIT NUMBER: 1
START 09:33:18 12/09/94
REPRT 09:41:04 12/09/94
TOT RUN TIME 0:07:23
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7643 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /382
SAMPLE ID: Hole 88-4 # 17163
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.2 deg C
BASELINE/FULL SCALE: 124/ 102 kilocounts/sec

UNIT NUMBER: 1
START 09:52:40 12/09/94
REPRT 10:04:36 12/09/94
TOT RUN TIME 0:07:24
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7643 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 um
ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 3.64 um

MODAL DIAMETER: 6.93 um

DIAMETER (um)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	101.3	-1.3
80.00	100.2	1.1
60.00	99.0	1.2
50.00	98.3	0.7
40.00	97.3	1.0
30.00	96.3	1.0
25.00	95.3	1.1
20.00	92.6	2.7
15.00	88.4	4.2
10.00	80.2	8.2
8.00	73.8	6.4
6.00	64.8	9.1
5.00	59.3	5.5
4.00	52.7	6.6
3.00	44.6	8.1
2.00	33.1	11.6
1.50	25.3	7.8
1.00	16.8	8.5
0.80	11.8	5.0
0.60	6.0	5.8
0.50	3.1	2.9
0.40	1.0	2.2

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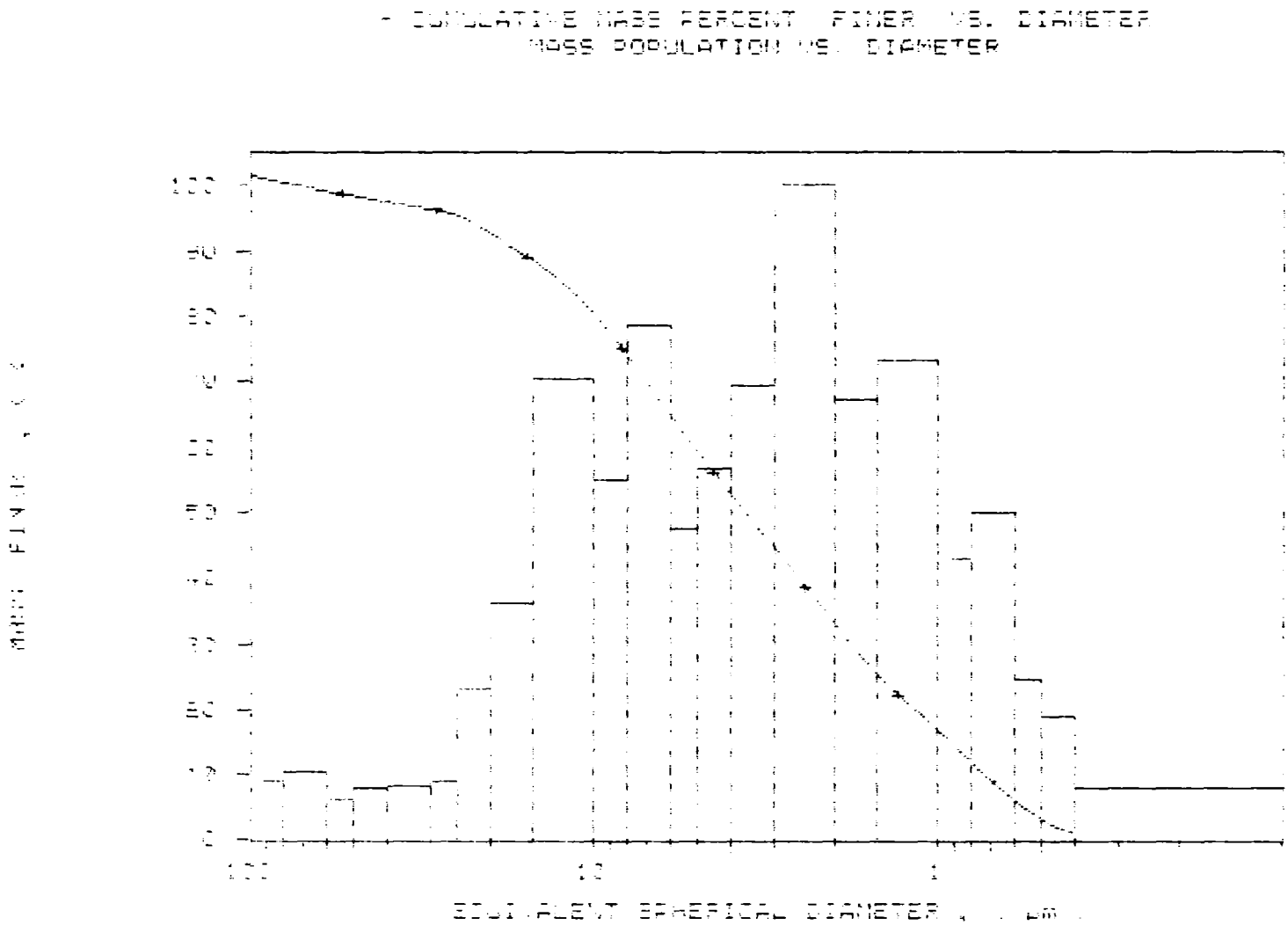
SAMPLE DIRECTORY/NUMBER: DATA7 /382
SAMPLE ID: Hole 88-4 # 17163
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.2 deg C
BASELINE/FULL SCALE: 124/ 102 kilocounts/sec

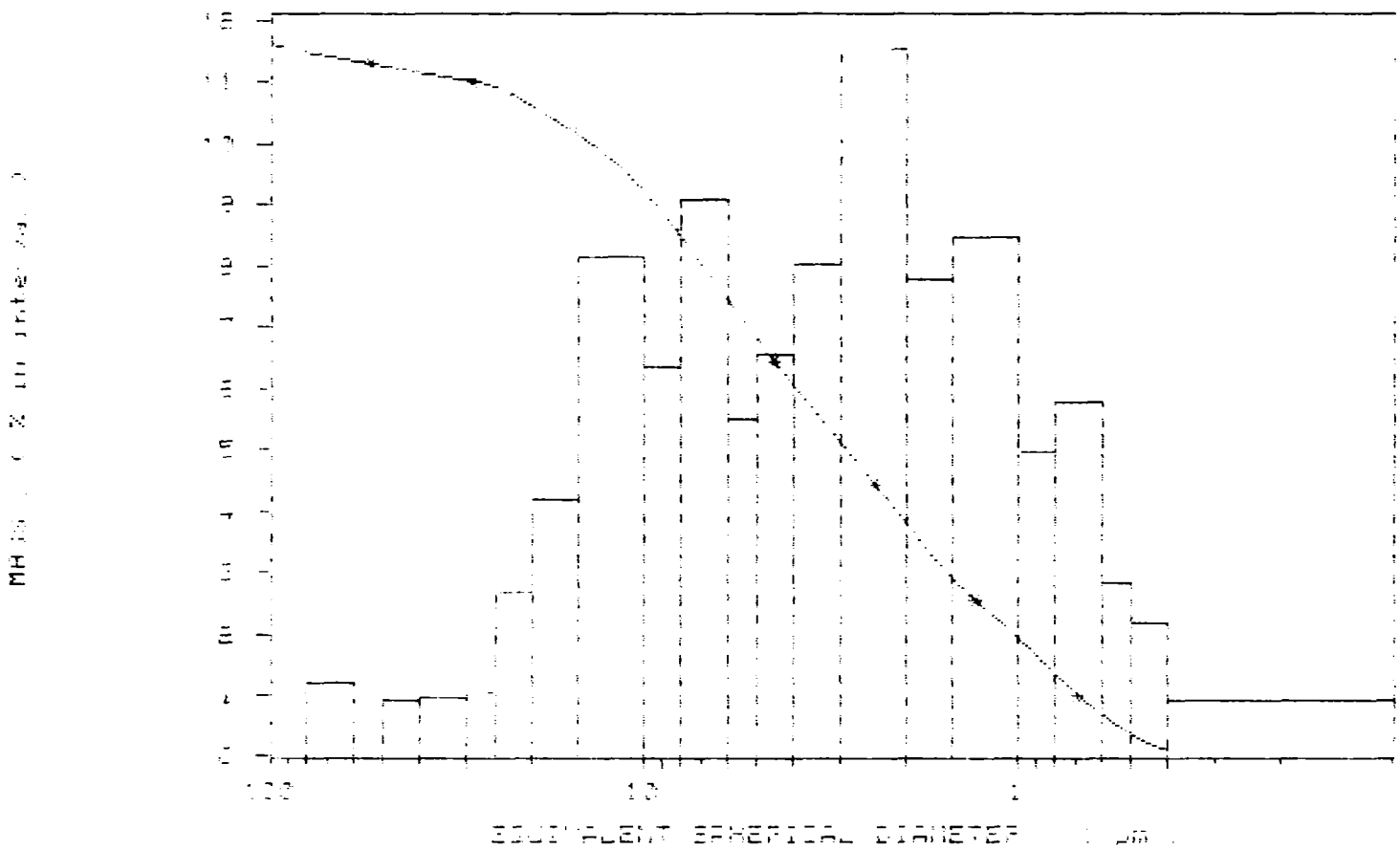
UNIT NUMBER: 1
START 09:52:40 12/09/94
REPRT 10:04:36 12/09/94
TOT RUN TIME 0:07:24
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7643 cp
RUN TYPE: High Speed



SAMPLE DIRECTORY/NUMBER: DATA7 /382
SAMPLE ID: Hole 88-4 # 17163
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.2 deg C
BASELINE/FULL SCALE: 124/ 102 kilocounts/sec

UNIT NUMBER: 1
START 09:52:40 12/09/94
REPRT 10:04:36 12/09/94
TOT RUN TIME 0:07:24
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7643 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /383
SAMPLE ID: Hole 88-4 # 17164
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 105 kilocounts/sec

UNIT NUMBER: 1
START 10:26:00 12/09/94
REPRT 10:38:08 12/09/94
TOT RUN TIME 0:07:26
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7636 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 4.41 µm

MODAL DIAMETER: 4.75 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	96.1	3.9
80.00	96.7	-0.6
60.00	96.4	0.2
50.00	95.8	0.7
40.00	95.2	0.5
30.00	94.3	0.9
25.00	92.1	2.2
20.00	88.1	4.1
15.00	82.4	5.6
10.00	72.9	9.5
8.00	67.0	5.8
6.00	59.3	7.8
5.00	53.9	5.4
4.00	47.1	6.8
3.00	39.5	7.6
2.00	29.8	9.6
1.50	24.0	5.9
1.00	16.7	7.3
0.80	12.3	4.4
0.60	6.1	6.2
0.50	3.2	2.9
0.40	0.4	2.8

DATE

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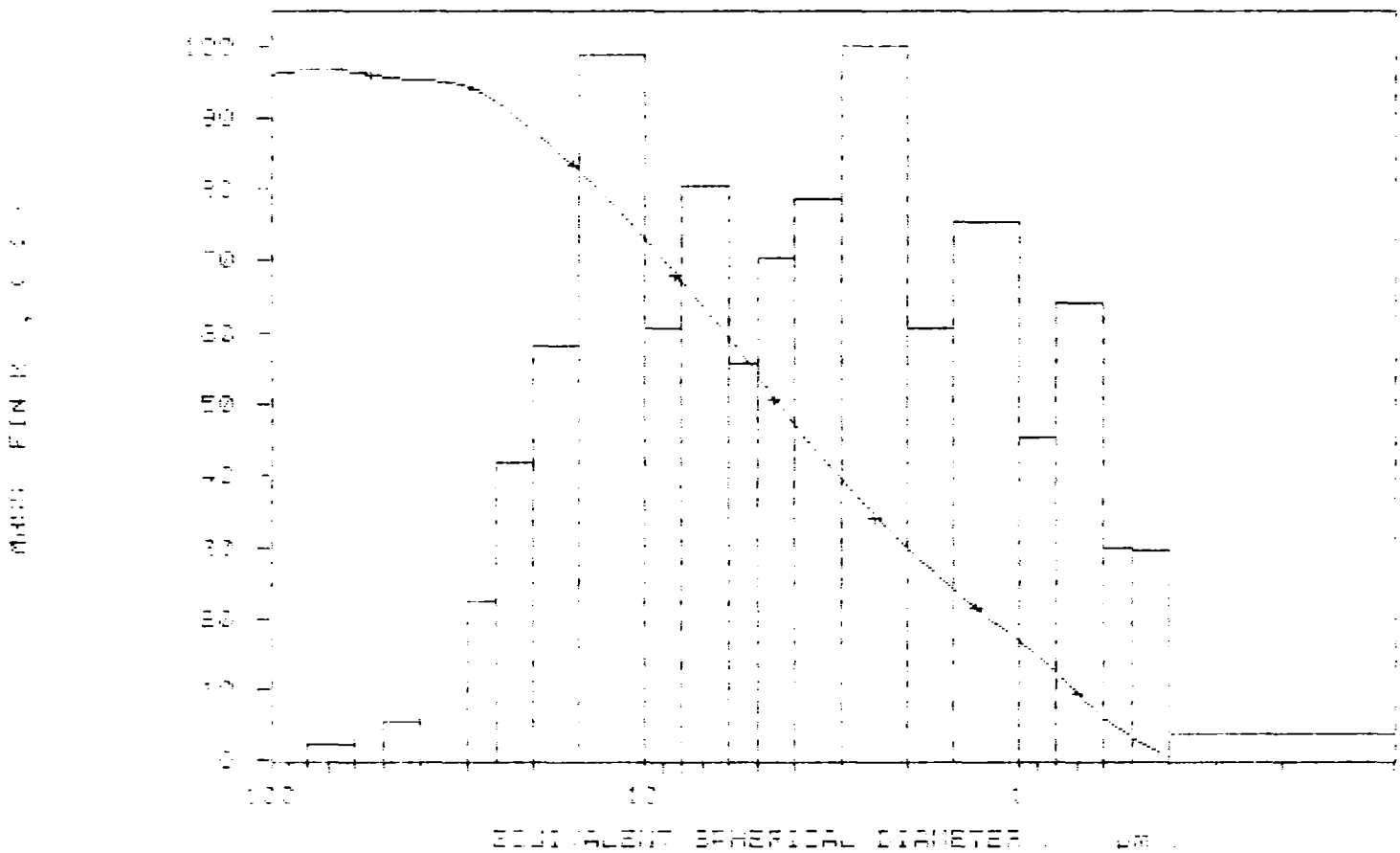
SAMPLE DIRECTORY/NUMBER: DATA7 /383
SAMPLE ID: Hole 88-4 # 17164
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 105 kilocounts/sec

UNIT NUMBER: 1
START 10:26:00 12/09/94
REPRT 10:38:08 12/09/94
TOT RUN TIME 0:07:26
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7636 cp
RUN TYPE: High Speed

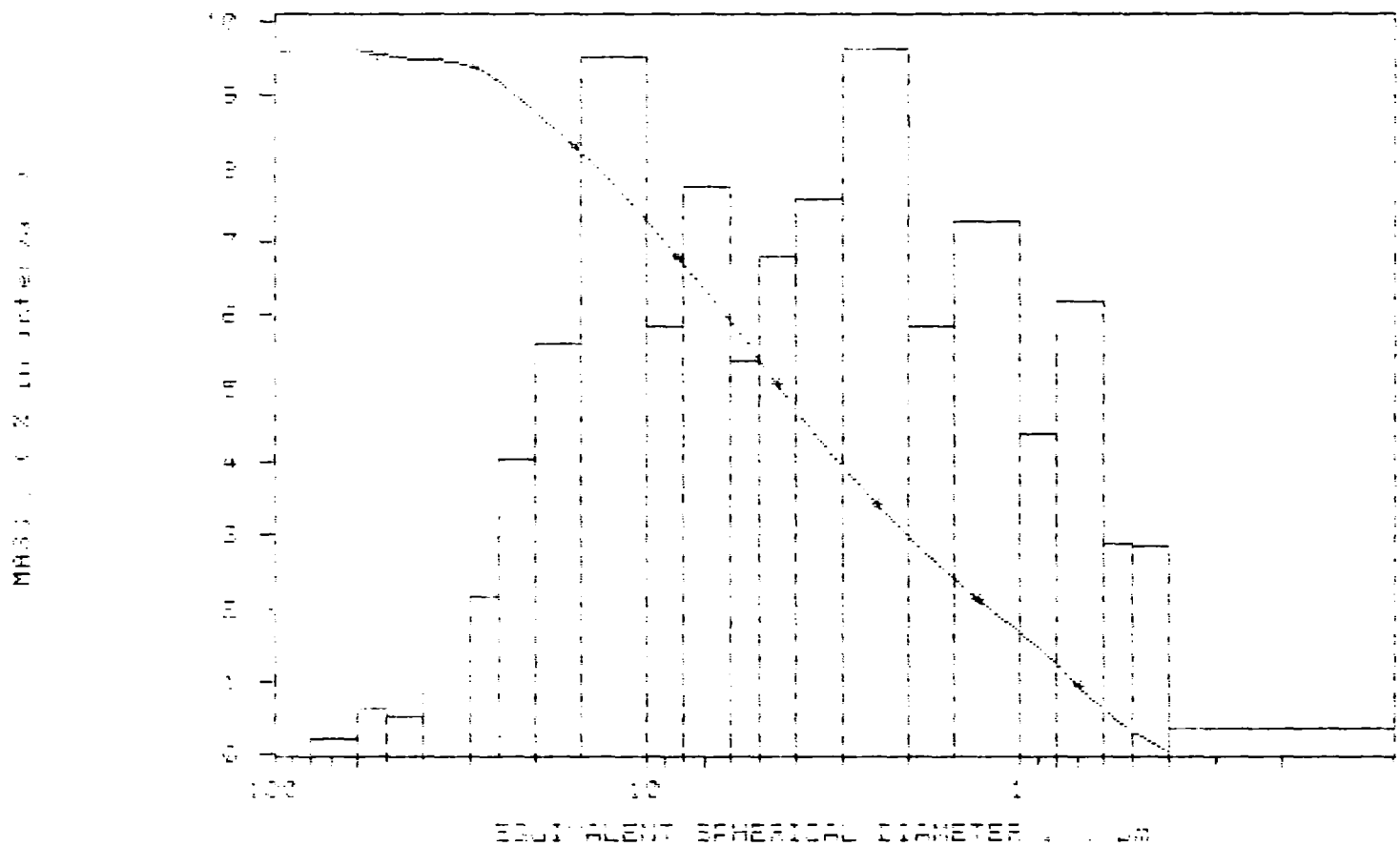
CUMULATIVE MASS PERCENT FINER VS DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /383
SAMPLE ID: Hole 88-4 # 17164
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 105 kilocounts/sec

UNIT NUMBER: 1
START 10:26:00 12/09/94
REPRT 10:38:08 12/09/94
TOT RUN TIME 0:07:26
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7636 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole 88-4 # 17165

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /384
SAMPLE ID: Hole 88-4 # 17165
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 108 kilocounts/sec

UNIT NUMBER: 1
START 10:46:34 12/09/94
REPRT 10:58:38 12/09/94
TOT RUN TIME 0:07:30
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7637 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 um
ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 3.62 um

MODAL DIAMETER: 2.54 um

DIAMETER (um)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	96.2	3.8
80.00	97.3	-1.1
60.00	97.6	-0.3
50.00	97.5	0.1
40.00	97.7	-0.2
30.00	97.7	-0.0
25.00	97.1	0.5
20.00	95.9	1.2
15.00	92.5	3.4
10.00	84.9	7.6
8.00	79.2	5.7
6.00	68.7	10.5
5.00	61.9	6.8
4.00	53.7	8.1
3.00	42.6	11.1
2.00	26.2	16.3
1.50	17.9	8.4
1.00	8.0	9.9
0.80	2.5	5.5
0.60	-4.4	6.9
0.50	-7.9	3.5
0.40	-11.2	3.3

K. Malmstrom

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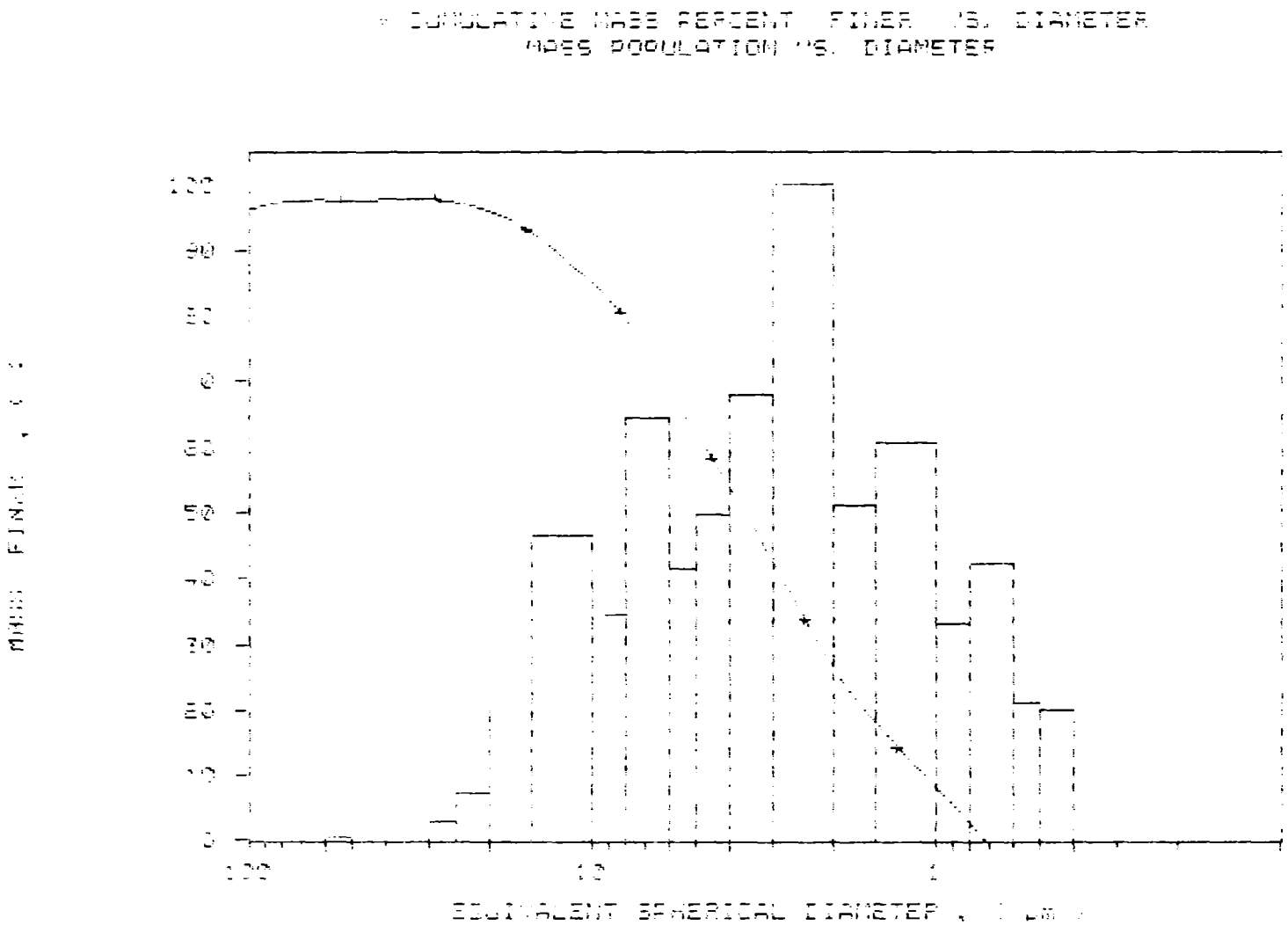
SAMPLE DIRECTORY/NUMBER: DATA7 /384
SAMPLE ID: Hole 88-4 # 17165
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 108 kilocounts/sec

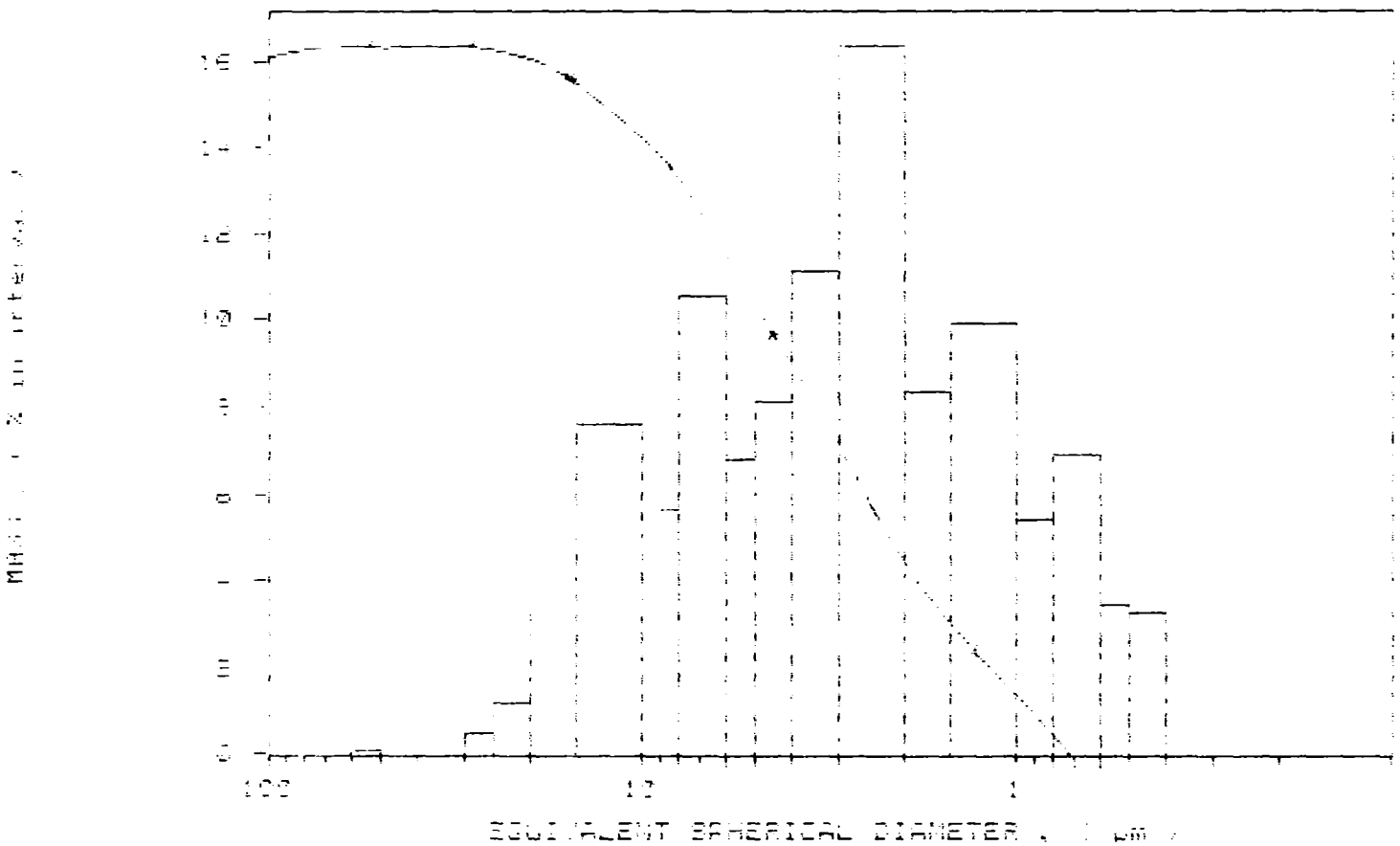
UNIT NUMBER: 1
START 10:46:34 12/09/94
REPRT 10:58:38 12/09/94
TOT RUN TIME 0:07:30
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7637 cp
RUN TYPE: High Speed



SAMPLE DIRECTORY/NUMBER: DATA7 /384
SAMPLE ID: Hole 88-4 # 17165
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 108 kilocounts/sec

UNIT NUMBER: 1
START 10:46:34 12/09/94
REPRT 10:58:38 12/09/94
TOT RUN TIME 0:07:30
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7637 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
- CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole 88-4 # 17166

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /385
SAMPLE ID: Hole 88-4 # 17166
SUBMITTER: MRC inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 93 kilocounts/sec

UNIT NUMBER: 1
START 11:06:04 12/09/94
REPRT 11:18:23 12/09/94
TOT RUN TIME 0:07:42
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7637 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 8.72 µm

MODAL DIAMETER: 17.14 µm

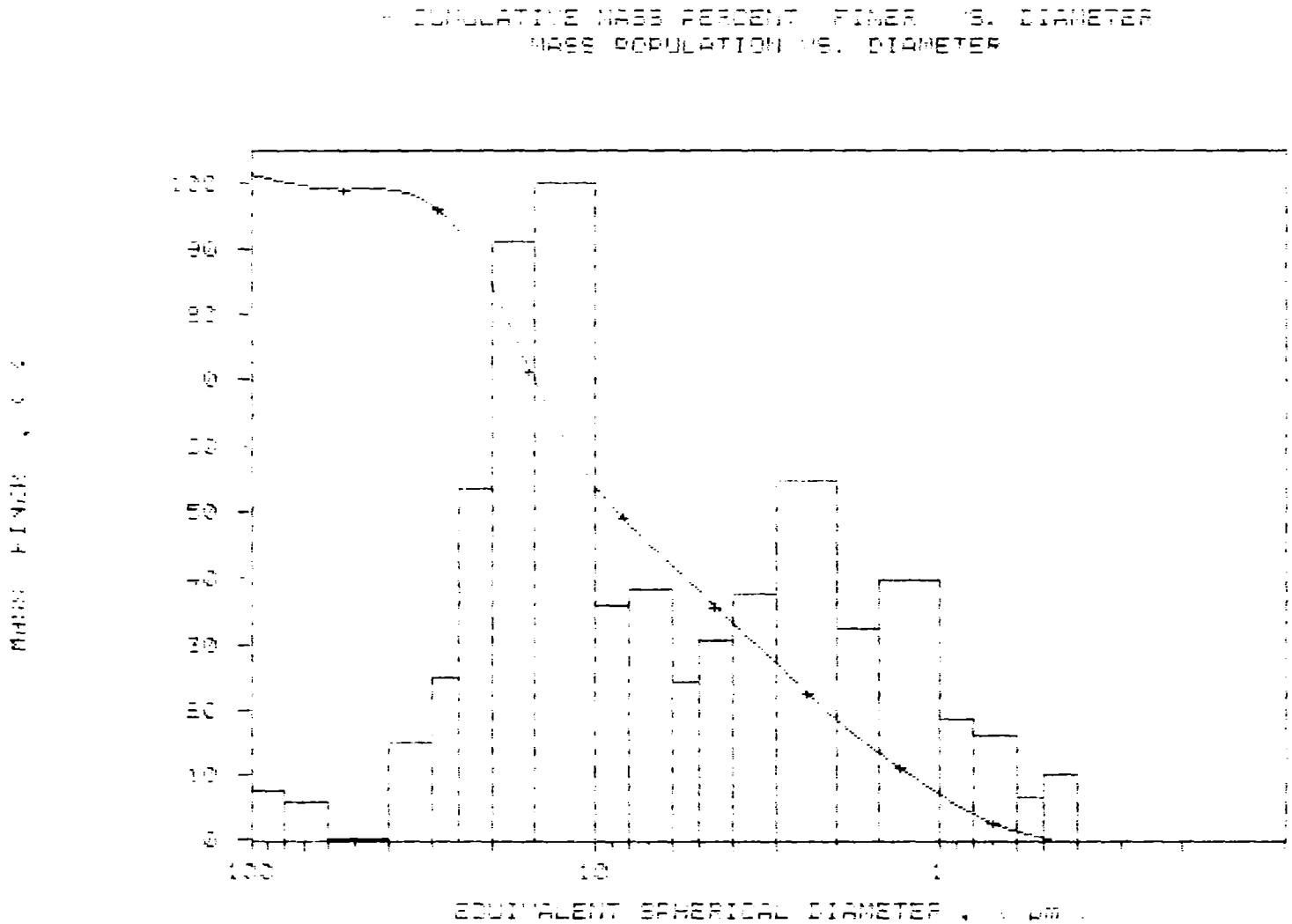
DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	101.2	-1.2
80.00	100.0	1.2
60.00	99.1	0.9
50.00	99.0	0.0
40.00	98.9	0.1
30.00	96.5	2.4
25.00	92.5	4.0
20.00	84.0	8.5
15.00	69.5	14.5
10.00	53.7	15.9
8.00	48.0	5.7
6.00	41.9	6.1
5.00	38.0	3.8
4.00	33.1	4.9
3.00	27.1	6.0
2.00	18.4	8.7
1.50	13.3	5.1
1.00	6.9	6.3
0.80	4.0	3.0
0.60	1.3	2.6
0.50	0.3	1.1
0.40	-1.4	1.6

L. Malmstrom

000078

SAMPLE DIRECTORY/NUMBER: DATA7 /385
SAMPLE ID: Hole 88-4 # 17166
SUBMITTER: MRC inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 93 kilocounts/sec

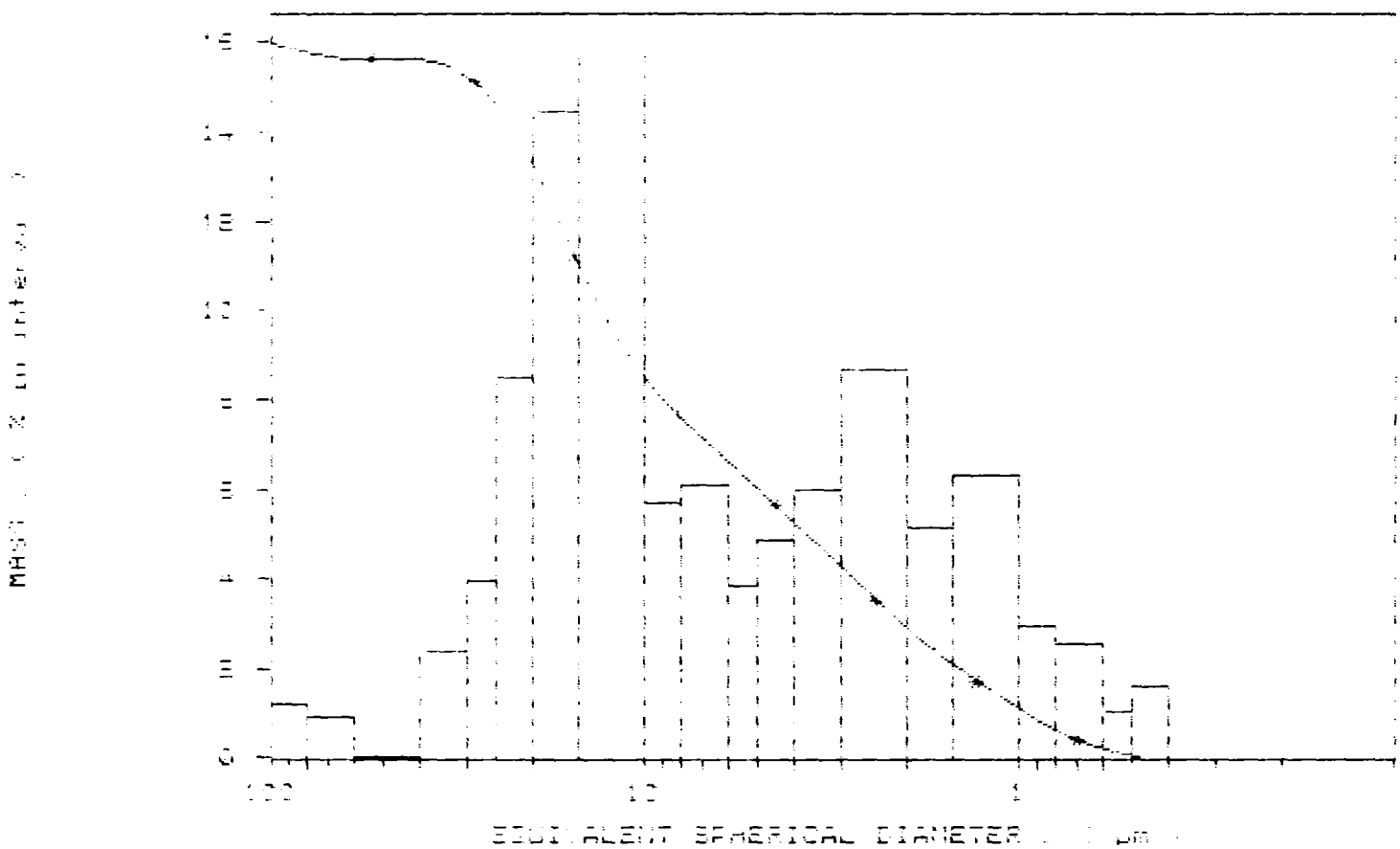
UNIT NUMBER: 1
START 11:06:04 12/09/94
REPRT 11:18:23 12/09/94
TOT RUN TIME 0:07:42
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7637 cp
RUN TYPE: High Speed



SAMPLE DIRECTORY/NUMBER: DATA7 /385
SAMPLE ID: Hole 88-4 # 17166
SUBMITTER: MRC inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 93 kilocounts/sec

UNIT NUMBER: 1
START 11:06:04 12/09/94
REPRT 11:18:23 12/09/94
TOT RUN TIME 0:07:42
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7637 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /386
SAMPLE ID: Hole 88-4 # 17167
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 94 kilocounts/sec

UNIT NUMBER: 1
START 11:25:52 12/09/94
REPRT 11:38:18 12/09/94
TOT RUN TIME 0:07:47
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7635 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

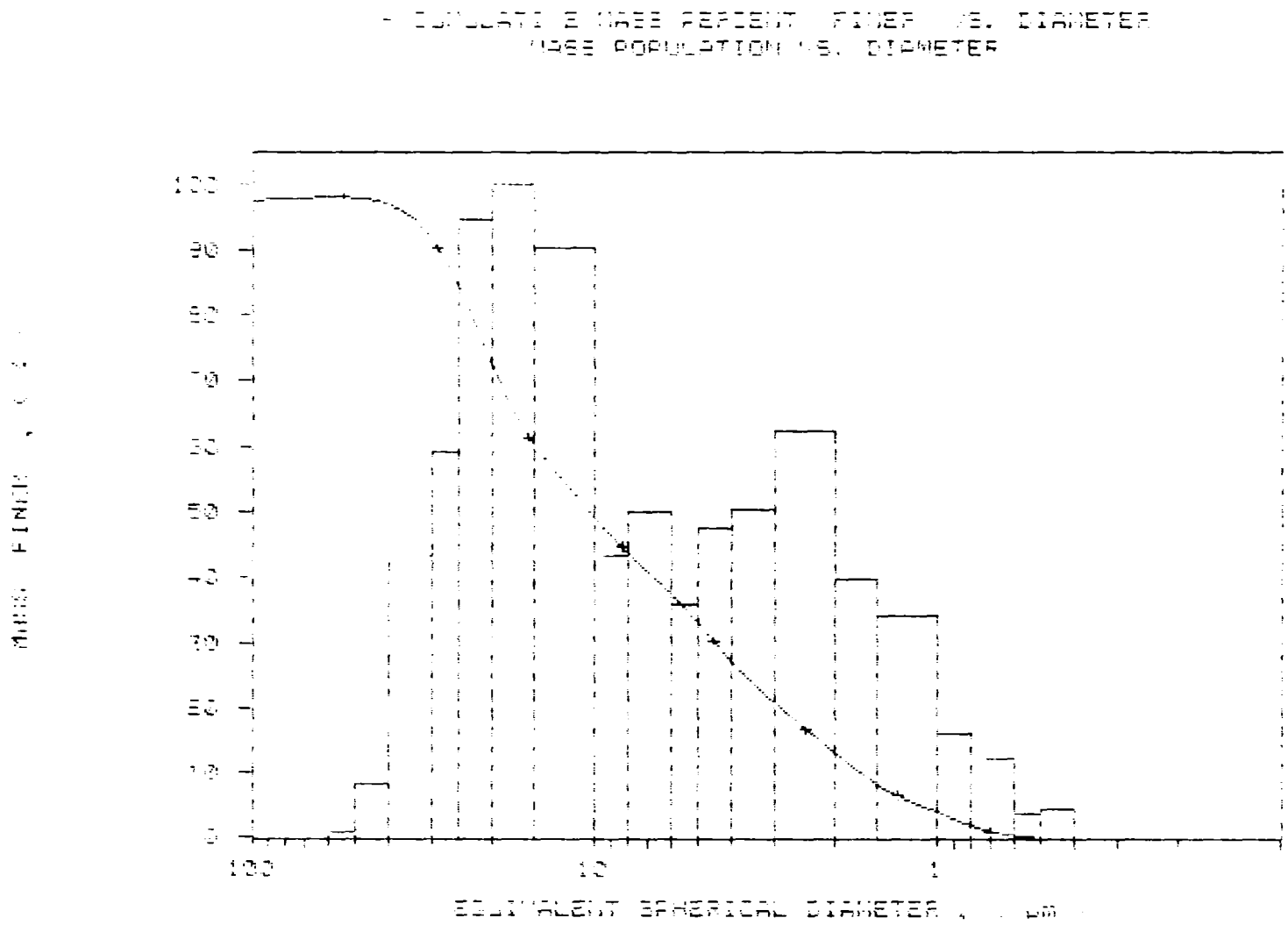
MEDIAN DIAMETER: 10.42 µm

MODAL DIAMETER: 21.44 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	97.5	2.5
80.00	97.7	-0.2
60.00	98.0	-0.3
50.00	97.9	0.1
40.00	96.8	1.0
30.00	91.5	5.4
25.00	84.1	7.3
20.00	72.4	11.7
15.00	60.1	12.3
10.00	48.9	11.2
8.00	43.6	5.4
6.00	37.4	6.2
5.00	32.9	4.5
4.00	27.0	5.9
3.00	20.8	6.3
2.00	13.1	7.7
1.50	8.2	4.9
1.00	3.9	4.2
0.80	1.9	2.0
0.60	0.4	1.5
0.50	-0.1	0.5
0.40	-0.7	0.6

SAMPLE DIRECTORY/NUMBER: DATA7 /386
SAMPLE ID: Hole 88-4 # 17167
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 94 kilocounts/sec

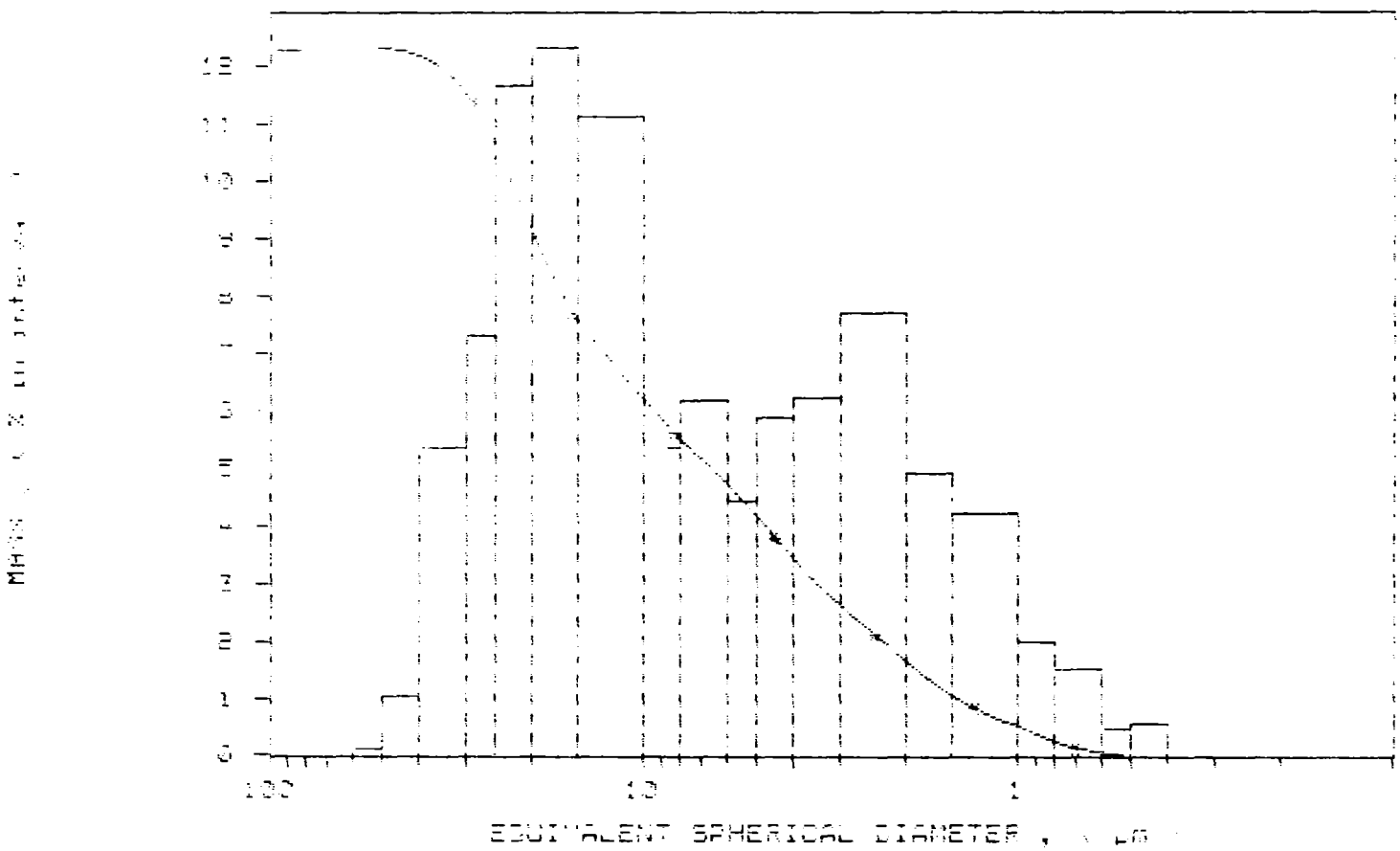
UNIT NUMBER: 1
START 11:25:52 12/09/94
REPRT 11:38:18 12/09/94
TOT RUN TIME 0:07:47
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7635 cp
RUN TYPE: High Speed



SAMPLE DIRECTORY/NUMBER: DATA7 /386
SAMPLE ID: Hole 88-4 # 17167
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 94 kilocounts/sec

UNIT NUMBER: 1
START 11:25:52 12/09/94
REPRT 11:38:18 12/09/94
TOT RUN TIME 0:07:47
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7635 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
- CUMULATIVE MASS PERCENT FINER VS DIAMETER



Hole 88-4 # 17168

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /387
SAMPLE ID: Hole 88-4 # 17168
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 100 kilocounts/sec

UNIT NUMBER: 1
START 11:46:18 12/09/94
REPRT 11:58:35 12/09/94
TOT RUN TIME 0:07:42
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7635 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 6.83 µm

MODAL DIAMETER: 6.17 µm

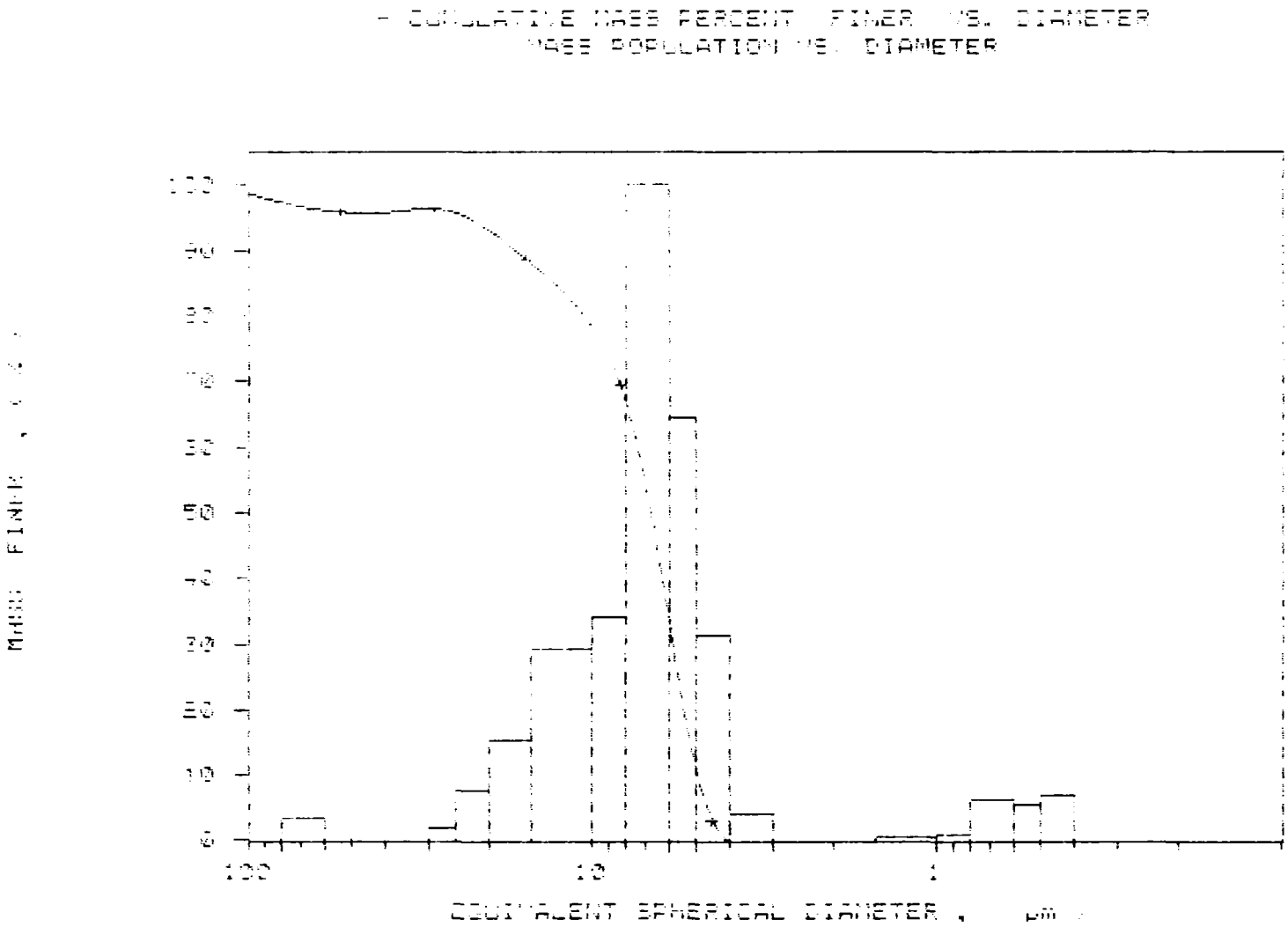
DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	98.6	1.4
80.00	97.2	1.3
60.00	96.1	1.2
50.00	95.8	0.3
40.00	95.8	-0.0
30.00	96.3	-0.6
25.00	95.7	0.7
20.00	93.0	2.6
15.00	87.8	5.2
10.00	77.9	9.9
8.00	66.2	11.7
6.00	32.3	33.9
5.00	10.3	21.9
4.00	-0.4	10.7
3.00	-1.8	1.4
2.00	-1.5	-0.3
1.50	-1.3	-0.3
1.00	-1.5	0.2
0.80	-1.8	0.3
0.60	-4.0	2.2
0.50	-5.9	1.9
0.40	-8.3	2.4

H. Weinstein

000078

SAMPLE DIRECTORY/NUMBER: DATA7 /387
SAMPLE ID: Hole 88-4 # 17168
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 100 kilocounts/sec

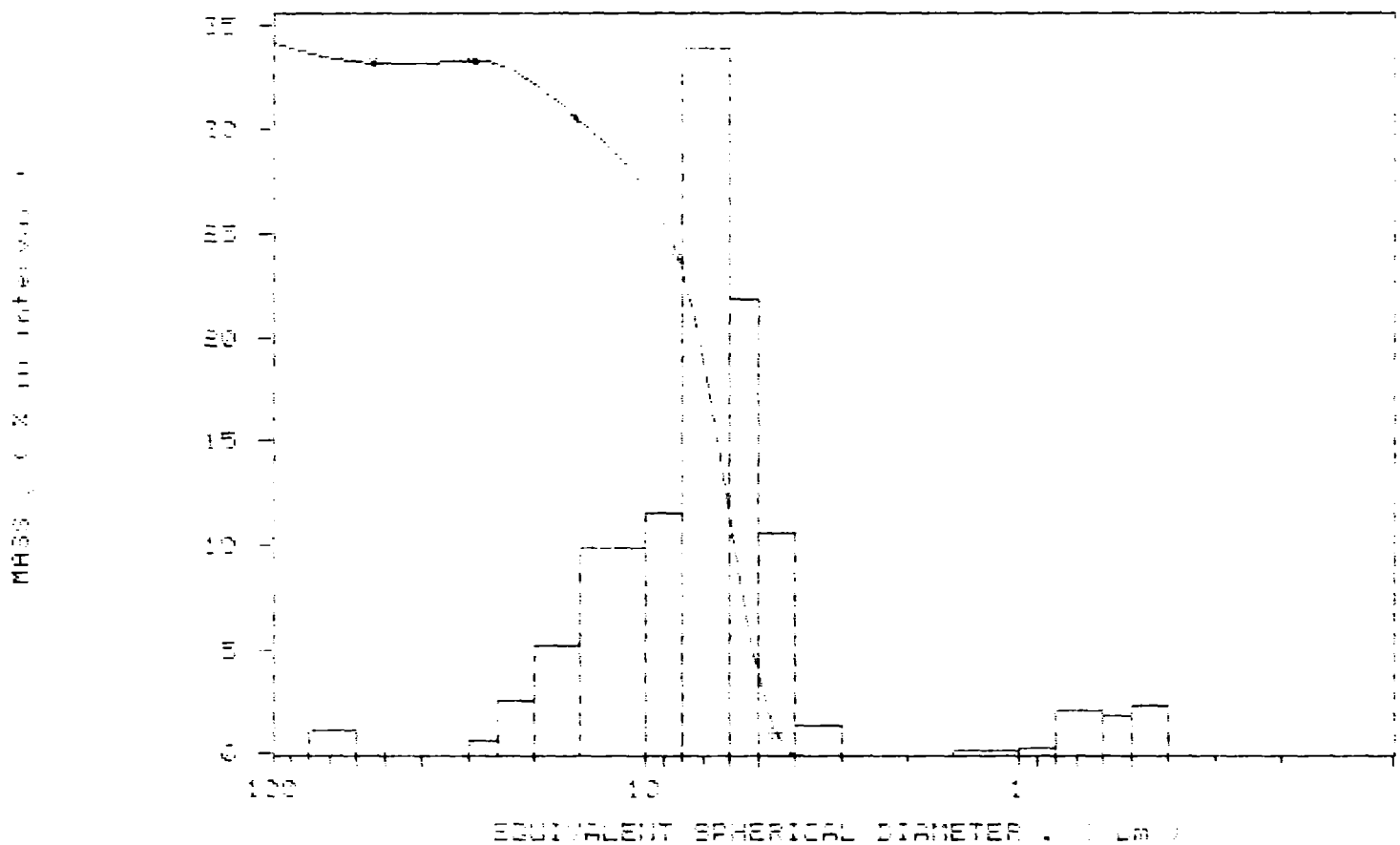
UNIT NUMBER: 1
START 11:46:18 12/09/94
REPRT 11:58:35 12/09/94
TOT RUN TIME 0:07:42
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7635 cp
RUN TYPE: High Speed



SAMPLE DIRECTORY/NUMBER: DATA7 /387
SAMPLE ID: Hole 88-4 # 17168
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 100 kilocounts/sec

UNIT NUMBER: 1
START 11:46:18 12/09/94
REPRT 11:58:35 12/09/94
TOT RUN TIME 0:07:42
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7635 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
% CUMULATIVE MASS PERCENT FINER VS DIAMETER



Hole 88-4 # 17169

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /388
SAMPLE ID: Hole 88-4 # 17169
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 81 kilocounts/sec

UNIT NUMBER: 1
START 12:45:20 12/09/94
REPRT 12:57:11 12/09/94
TOT RUN TIME 0:07:17
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7632 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 5.62 µm
MODAL DIAMETER: 12.23 µm

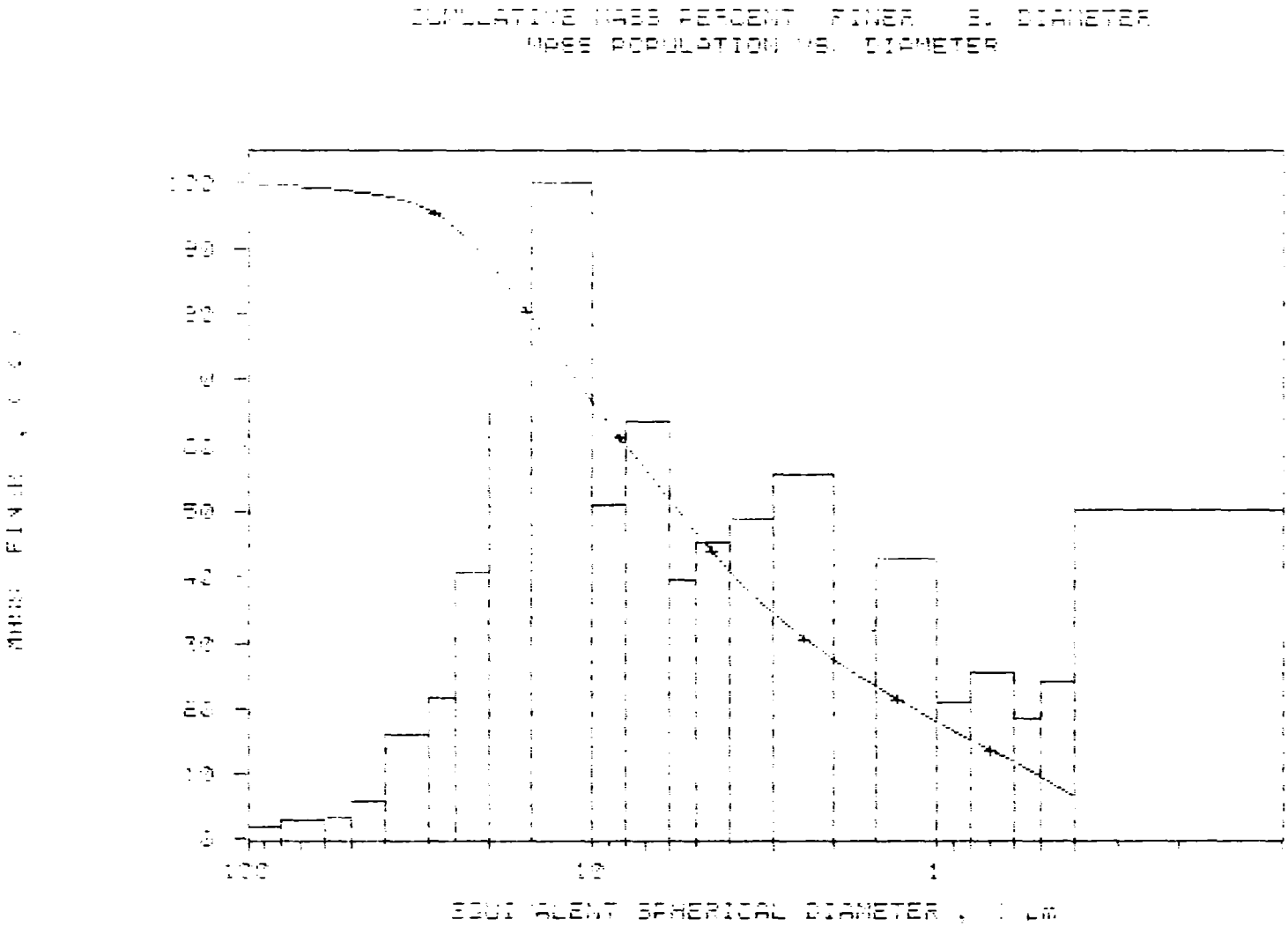
DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	99.8	0.2
80.00	99.5	0.3
60.00	99.1	0.4
50.00	98.7	0.4
40.00	97.9	0.8
30.00	95.8	2.1
25.00	93.0	2.8
20.00	87.8	5.2
15.00	79.3	8.5
10.00	66.6	12.8
8.00	60.0	6.6
6.00	51.8	8.2
5.00	46.7	5.1
4.00	40.9	5.8
3.00	34.7	6.3
2.00	27.6	7.1
1.50	23.4	4.1
1.00	17.9	5.5
0.80	15.2	2.7
0.60	11.9	3.3
0.50	9.6	2.4
0.40	6.4	3.1

K. Omalm Strom

000078

SAMPLE DIRECTORY/NUMBER: DATA7 /388
SAMPLE ID: Hole 88-4 # 17169
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 81 kilocounts/sec

UNIT NUMBER: 1
START 12:45:20 12/09/94
REPRT 12:57:11 12/09/94
TOT RUN TIME 0:07:17
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7632 cp
RUN TYPE: High Speed



MINERAL RESEARCH CANADA
TEL:(705) 378-2416
FAX:(705) 378-5123
1 INDUSTRIAL BLVD.,RR2
PARRY SOUND, ON. CANADA
P2A 2W8

ANALYSIS REPORT

2.15956

SAMPLE #	SCREEN	%	MOISTURE %
Hole 89-12 17301	+ 4	0	
	+ 40	11.9	
	+100	56.2	
	+200	7.9	0.2
	+325	2.2	
	-325	21.8	
17302	+ 4	0	
	+ 40	65.3	
	+100	17.8	
	+200	3.6	0.1
	+325	1.3	
	-325	12.6	
17303	+ 4	0.5	
	+ 40	60.2	
	+100	15.0	
	+200	4.3	0.3
	+325	1.5	
	-325	17.5	
17304	+ 4	0	
	+ 40	66.2	
	+100	13.2	
	+200	5.7	0.1
	+325	2.0	
	-325	12.9	
17305	+ 4	0.3	
	+ 40	51.0	
	+100	17.1	
	+200	6.9	0.1
	+325	3.2	
	-325	21.5	

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H. Malmstrom

078

MINERAL RESEARCH CANADA

TEL:(705) 378-2416
FAX:(705) 378-5123

1 INDUSTRIAL BLVD.,RR2
PARRY SOUND, ON. CANADA
P2A 2W8

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %
Hole S9-12	+ 4	1.5	
	+ 40	63.7	
17306	+100	12.1	0.1
	+200	5.5	
	+325	2.5	
	-325	14.7	
	+ 4	0.2	
17307	+ 40	41.0	
	+100	38.2	
	+200	6.2	0.3
	+325	2.0	
	-325	12.4	
	+ 4	0	
17308	+ 40	30.7	
	+100	26.8	
	+200	9.7	0.4
	+325	2.2	
	-325	30.6	
	+ 4	0.7	
	+ 40	71.4	
17309	+100	11.5	0.1
	+200	2.9	
	+325	0.9	
	-325	12.6	
	+ 4	0	
	+ 40	1.2	
17310	+100	0.3	2.0
	+200	1.7	
	+325	3.2	
	-325	93.6	

L. Malmstrom
178

MINERAL RESEARCH CANADA

TEL:(705) 378-2416
FAX:(705) 378-5123

1 INDUSTRIAL BLVD.,RR2
PARRY SOUND, ON. CANADA
P2A 2W8

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %
Hole 89-12	+ 4	0	
	+ 40	0.1	
17311	+100	0.7	1.9
	+200	8.0	
	+325	6.0	
	-325	85.2	
	+ 4	0	
	+ 40	0.8	
17312	+100	36.6	0.9
	+200	19.9	
	+325	3.4	
	-325	39.3	
	+ 4	0	
	+ 40	0.5	
17313	+100	50.5	0.3
	+200	17.7	
	+325	2.9	
	-325	28.1	
	+ 4		
	+ 40		
	+100		
	+200		
	+325		
	-325		
	+ 4		
	+ 40		
	+100		
	+200		
	+325		
	-325		

K. McIntosh
J.T.S.

SAMPLE DIRECTORY/NUMBER: DATA7 /391
SAMPLE ID: Hole 89-12 # 17301
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 111 kilocounts/sec

UNIT NUMBER: 1
START 08:46:04 12/13/94
REPRT 08:53:47 12/13/94
TOT RUN TIME 0:07:23
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7639 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 um
ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 4.60 um

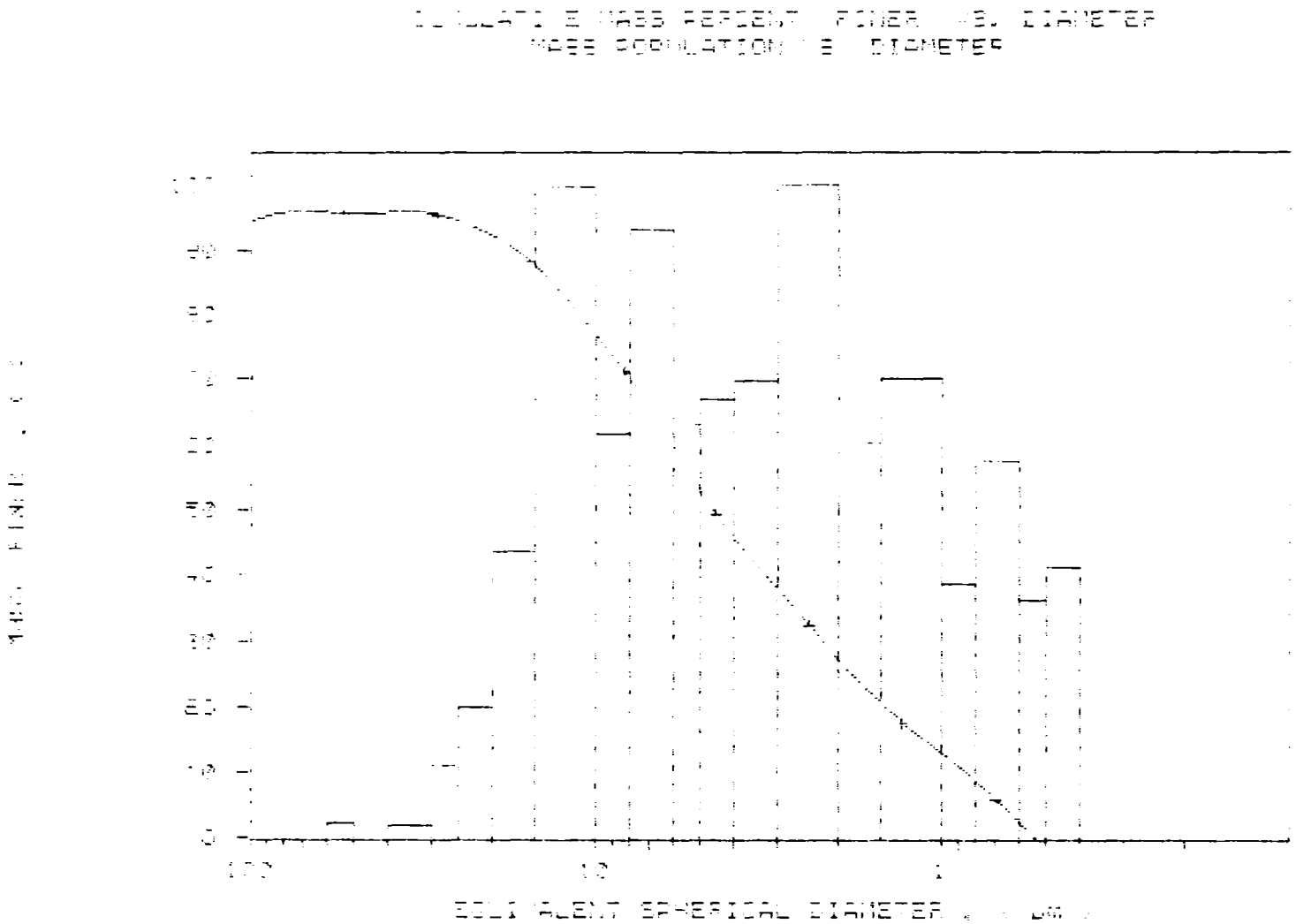
MODAL DIAMETER: 5.74 um

DIAMETER (um)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	94.5	5.5
80.00	95.8	-1.3
60.00	95.8	-0.0
50.00	95.5	0.3
40.00	95.9	-0.3
30.00	95.6	0.2
25.00	94.4	1.2
20.00	92.2	2.2
15.00	87.5	4.7
10.00	76.6	10.9
8.00	69.9	6.7
6.00	59.8	10.1
5.00	52.9	6.9
4.00	45.6	7.3
3.00	38.0	7.6
2.00	27.1	10.9
1.50	20.6	6.6
1.00	12.9	7.7
0.80	8.7	4.2
0.60	2.4	6.3
0.50	-1.6	4.0
0.40	-6.1	4.5

DATE L. Malmstrom

SAMPLE DIRECTORY/NUMBER: DATA7 /391
SAMPLE ID: Hole 89-12 # 17301
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 111 kilocounts/sec

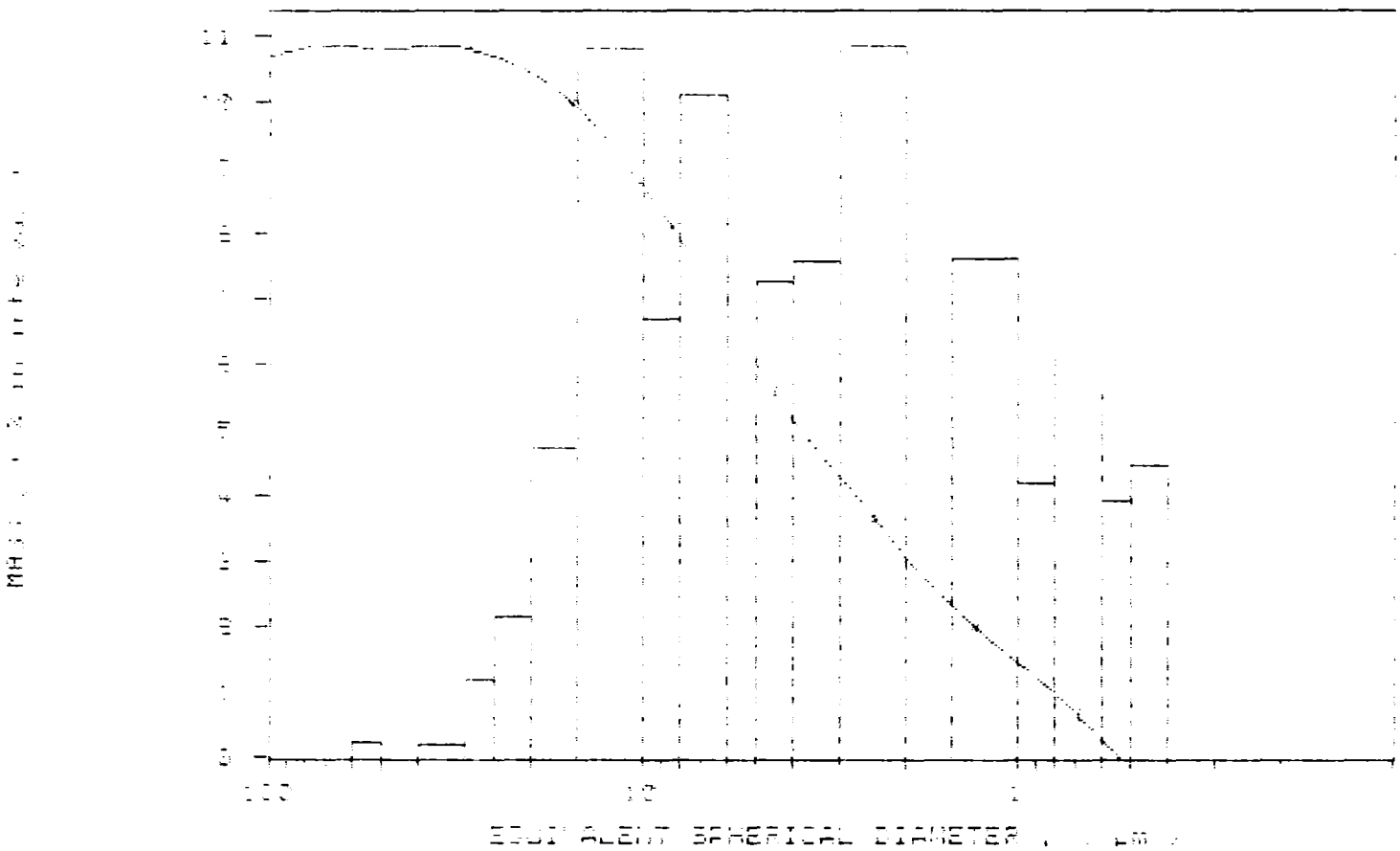
UNIT NUMBER: 1
START 08:46:04 12/13/94
REPRT 08:53:47 12/13/94
TOT RUN TIME 0:07:23
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7639 cp
RUN TYPE: High Speed



SAMPLE DIRECTORY/NUMBER: DATA7 /391
SAMPLE ID: Hole 89-12 # 17301
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 111 kilocounts/sec

UNIT NUMBER: 1
START 08:46:04 12/13/94
REPRT 08:53:47 12/13/94
TOT RUN TIME 0:07:23
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7639 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /392
SAMPLE ID: Hole 89-12 # 17302
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 111 kilocounts/sec

UNIT NUMBER: 1
START 09:07:14 12/13/94
REPRT 09:15:11 12/13/94
TOT RUN TIME 0:07:35
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7633 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 um
ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 3.14 um
MODAL DIAMETER: 2.05 um

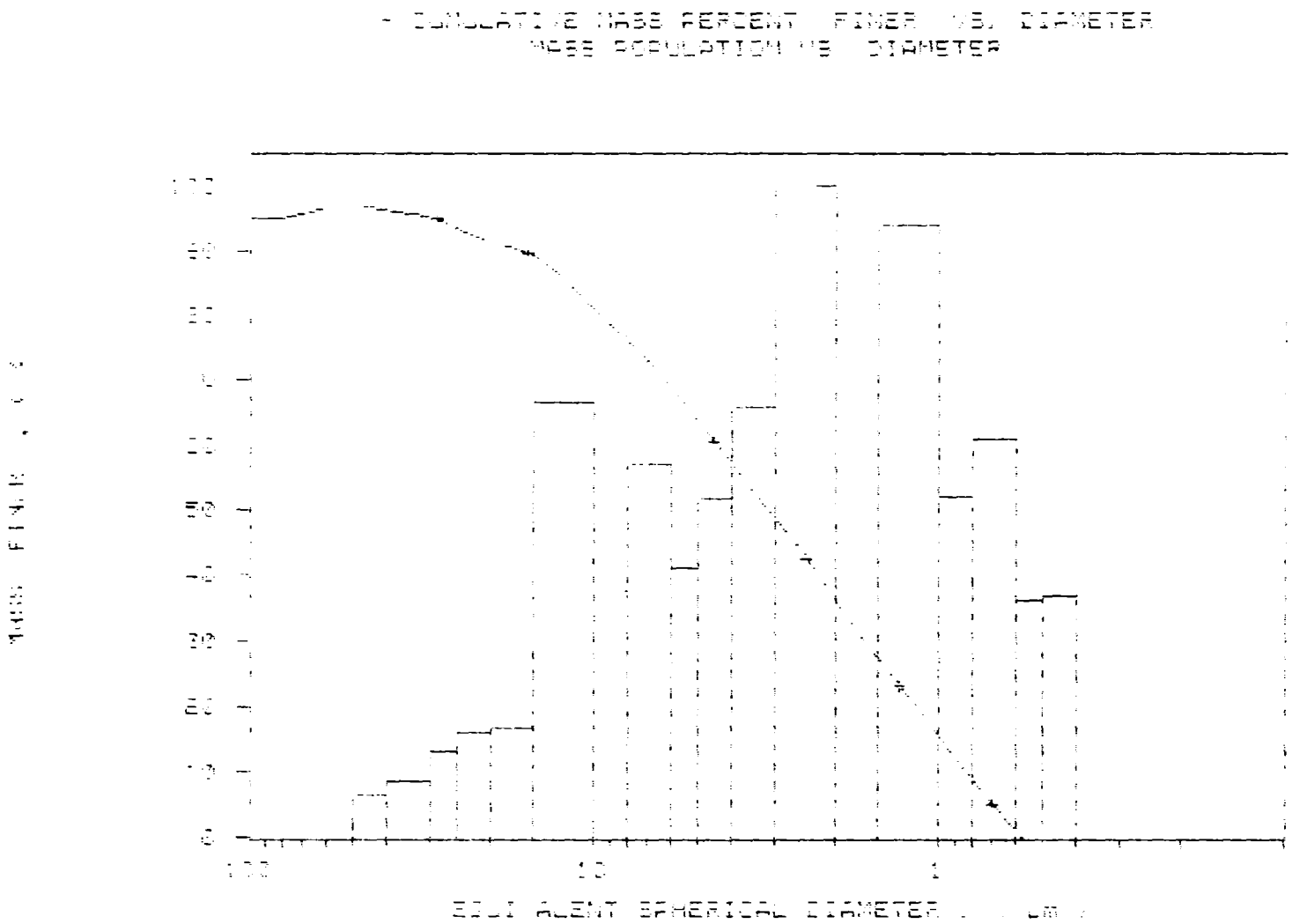
DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	94.9	5.1
80.00	95.1	-0.1
60.00	96.7	-1.6
50.00	97.0	-0.3
40.00	96.1	0.8
30.00	95.0	1.1
25.00	93.3	1.7
20.00	91.3	2.1
15.00	89.1	2.1
10.00	80.8	8.4
8.00	76.0	4.8
6.00	68.8	7.2
5.00	63.6	5.2
4.00	57.1	6.5
3.00	48.8	8.3
2.00	36.2	12.6
1.50	27.2	9.0
1.00	15.4	11.8
0.80	8.8	6.6
0.60	1.1	7.7
0.50	-3.4	4.6
0.40	-8.1	4.7

K. Chalmstrom

000078

SAMPLE DIRECTORY/NUMBER: DATA7 /392
SAMPLE ID: Hole 89-12 # 17302
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 111 kilocounts/sec

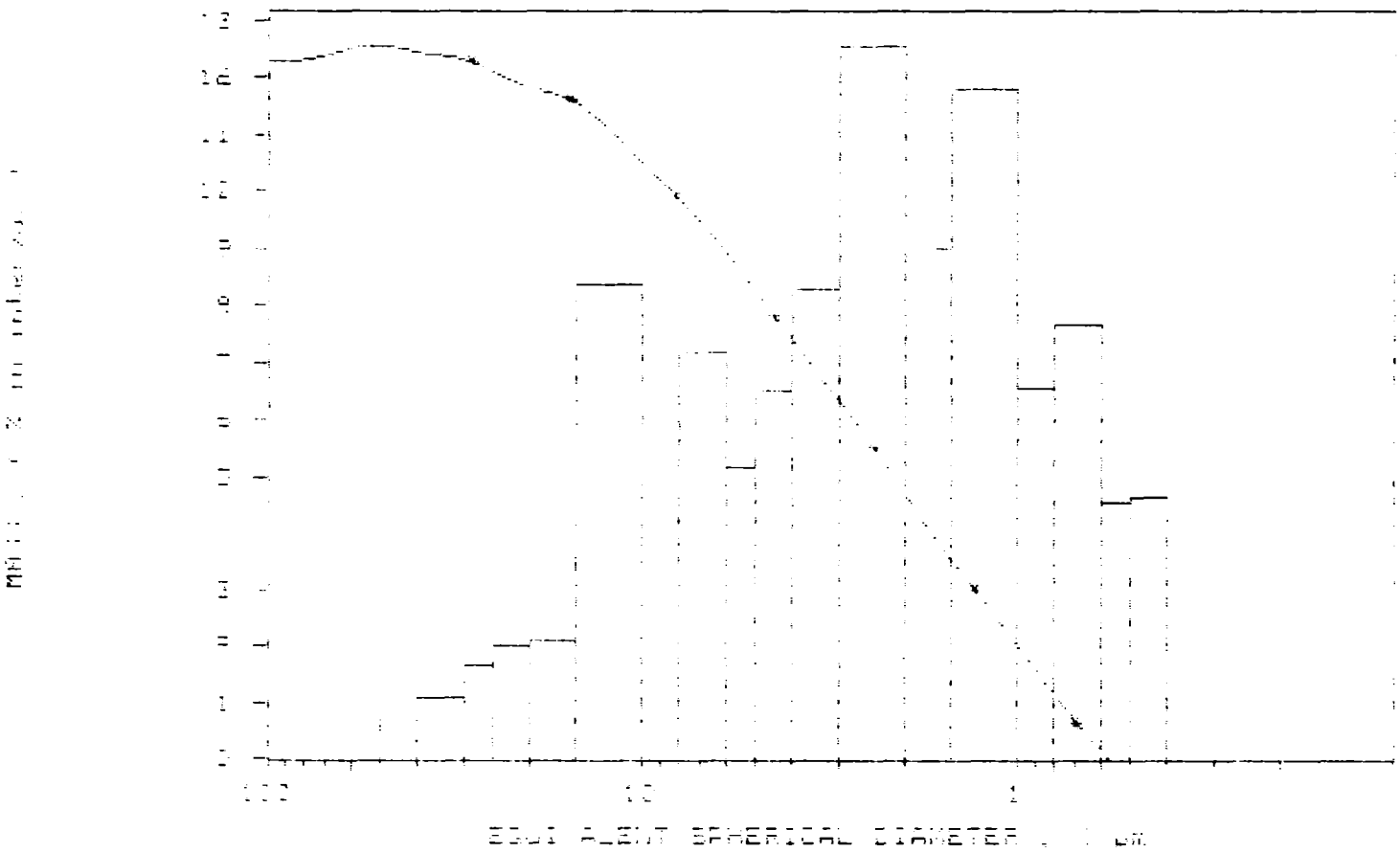
UNIT NUMBER: 1
START 09:07:14 12/13/94
REPRT 09:15:11 12/13/94
TOT RUN TIME 0:07:35
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7633 cp
RUN TYPE: High Speed



SAMPLE DIRECTORY/NUMBER: DATA7 /392
SAMPLE ID: Hole 89-12 # 17302
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 111 kilocounts/sec

UNIT NUMBER: 1
START 09:07:14 12/13/94
REPRT 09:15:11 12/13/94
TOT RUN TIME 0:07:35
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7633 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /393
SAMPLE ID: Hole 89-12 # 17303
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 103 kilocounts/sec

UNIT NUMBER: 1
START 09:51:30 12/13/94
REPRT 09:59:33 12/13/94
TOT RUN TIME 0:07:42
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7635 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 um
ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 4.65 µm
MODAL DIAMETER: 0.40 um

DIAMETER (um)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	102.9	-2.9
80.00	103.0	-0.1
60.00	101.0	1.9
50.00	99.3	1.8
40.00	97.2	2.0
30.00	93.0	4.2
25.00	89.3	3.7
20.00	84.4	4.9
15.00	77.8	6.6
10.00	68.2	9.6
8.00	63.6	4.6
6.00	56.7	6.9
5.00	51.9	4.8
4.00	46.2	5.7
3.00	40.1	6.2
2.00	30.7	9.4
1.50	24.1	6.6
1.00	15.2	8.9
0.80	10.2	5.0
0.60	4.7	5.5
0.50	1.3	3.4
0.40	-4.4	5.8

L. Malmstrom

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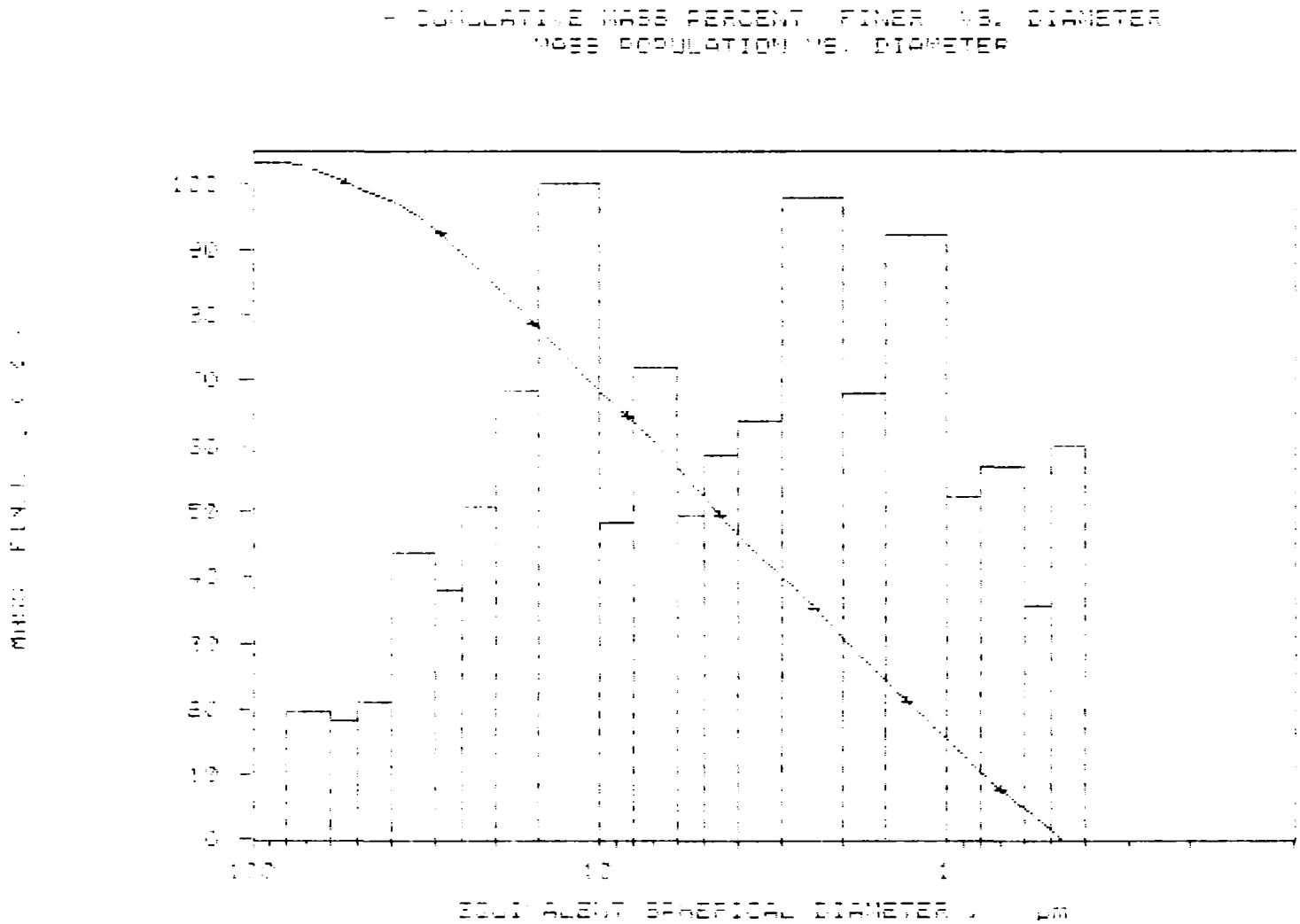
SAMPLE DIRECTORY/NUMBER: DATA7 /393
SAMPLE ID: Hole 89-12 # 17303
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 103 kilocounts/sec

UNIT NUMBER: 1
START 09:51:30 12/13/94
REPRT 09:59:33 12/13/94
TOT RUN TIME 0:07:42
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7635 cp
RUN TYPE: High Speed



Hole 89-12 # 17304

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /394
SAMPLE ID: Hole 89-12 # 17304
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 114 kilocounts/sec

UNIT NUMBER: 1
START 10:10:49 12/13/94
REPRT 10:24:18 12/13/94
TOT RUN TIME 0:07:40
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7634 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 8.79 µm

MODAL DIAMETER: 9.58 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	93.9	6.1
80.00	93.1	0.8
60.00	94.3	-1.2
50.00	94.9	-0.6
40.00	93.3	1.6
30.00	89.4	3.9
25.00	86.4	3.0
20.00	80.6	5.8
15.00	70.5	10.1
10.00	55.1	15.5
8.00	46.4	8.7
6.00	36.4	10.0
5.00	30.4	5.9
4.00	24.3	6.1
3.00	17.4	7.0
2.00	8.3	9.1
1.50	2.9	5.4
1.00	-3.6	6.6
0.80	-6.4	2.7
0.60	-8.2	1.8
0.50	-10.2	2.0
0.40	-11.6	1.5

L. Maim Tsen

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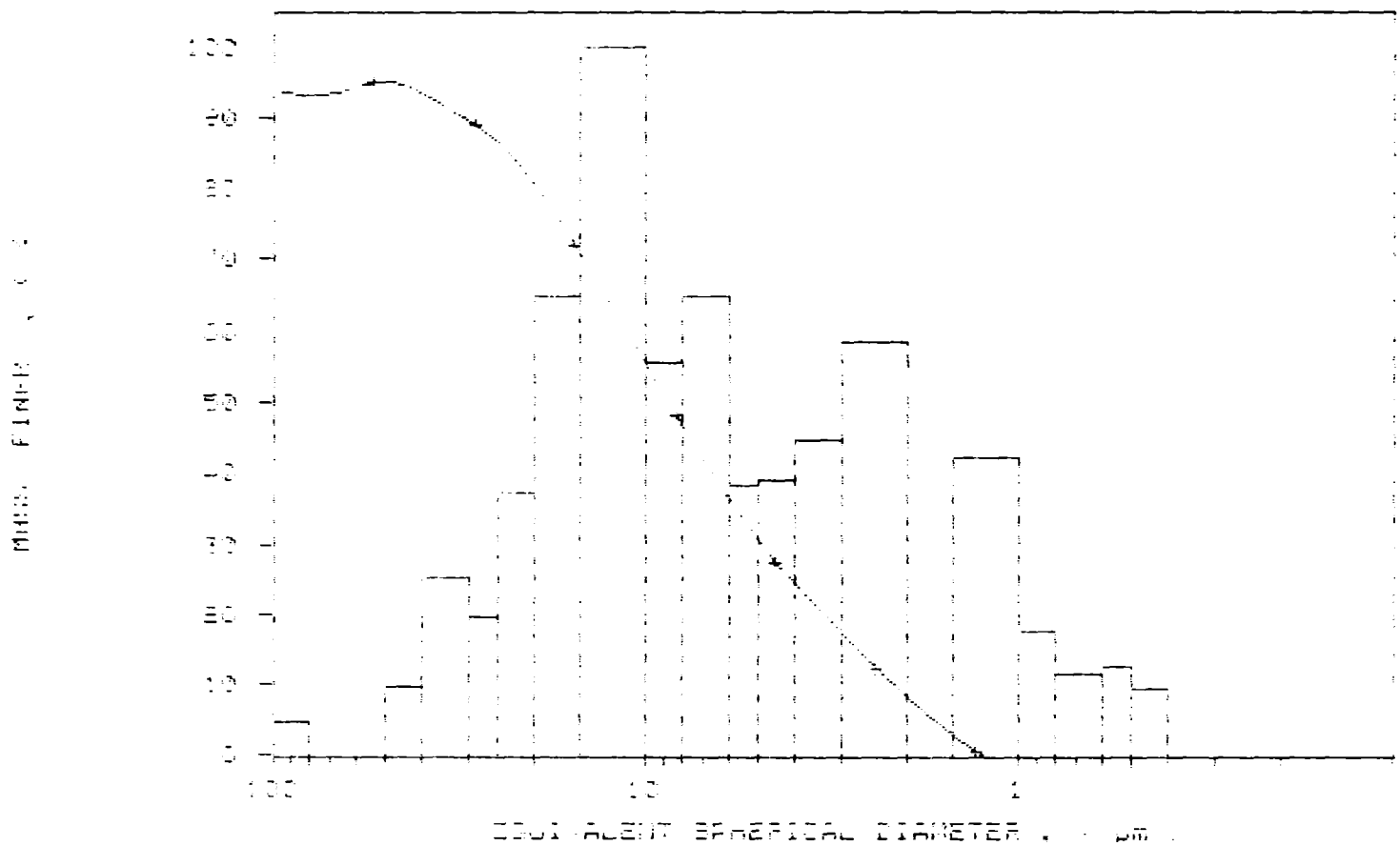
SAMPLE DIRECTORY/NUMBER: DATA7 /394
SAMPLE ID: Hole 89-12 # 17304
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 114 kilocounts/sec

UNIT NUMBER: 1
START 10:10:49 12/13/94
REPRT 10:24:18 12/13/94
TOT RUN TIME 0:07:40
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7634 cp
RUN TYPE: High Speed

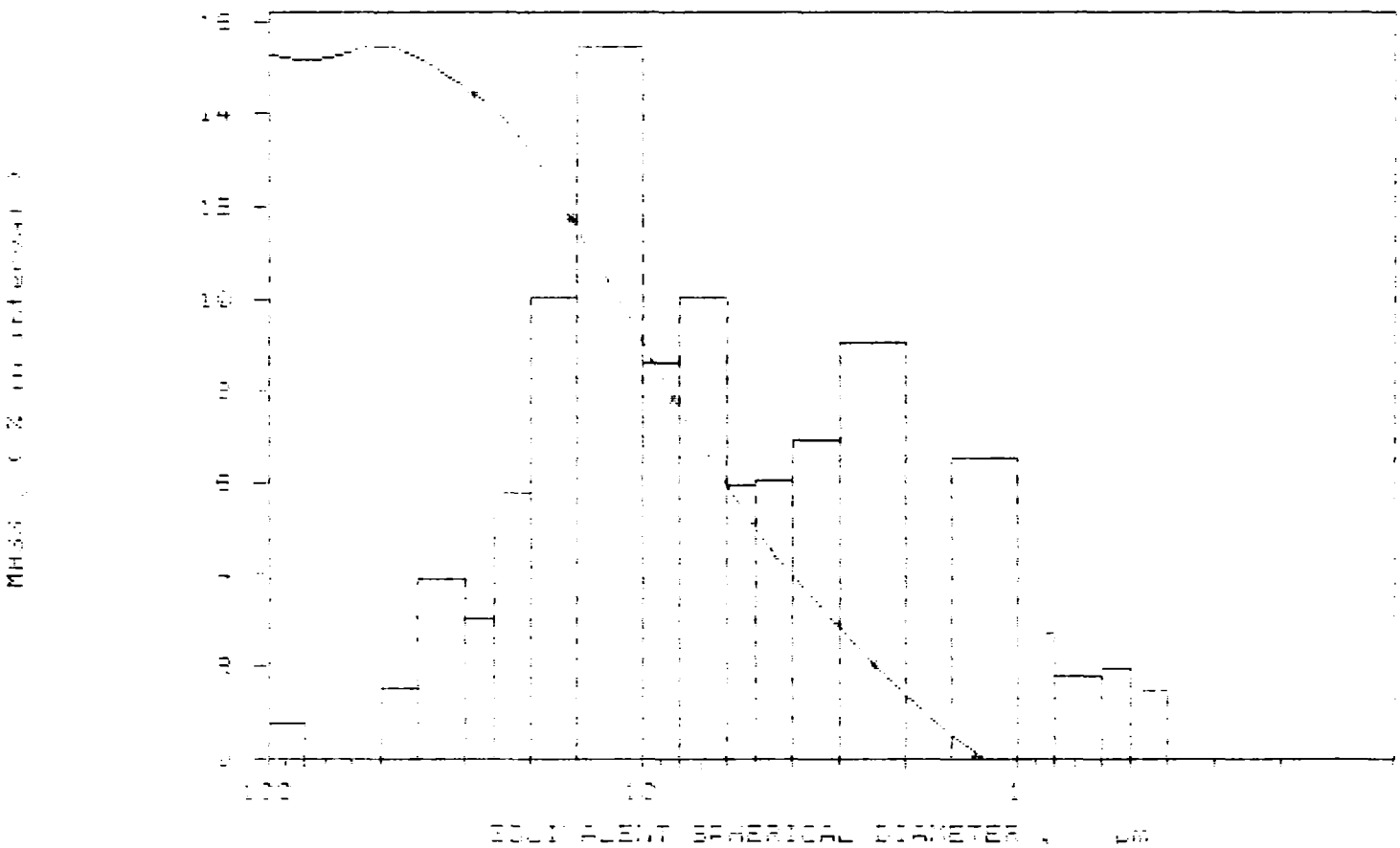
- CUMULATIVE MASS PERCENT FINER VS. DIAMETER
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /394
SAMPLE ID: Hole 89-12 # 17304
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 114 kilocounts/sec

UNIT NUMBER: 1
START 10:10:49 12/13/94
REPRT 10:24:18 12/13/94
TOT RUN TIME 0:07:40
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7634 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole 89-12 # 17305

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /395
SAMPLE ID: Hole 89-12 # 17305
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 107 kilocounts/sec

UNIT NUMBER: 1
START 10:37:09 12/13/94
REPRT 10:49:32 12/13/94
TOT RUN TIME 0:07:48
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7633 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 um
ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

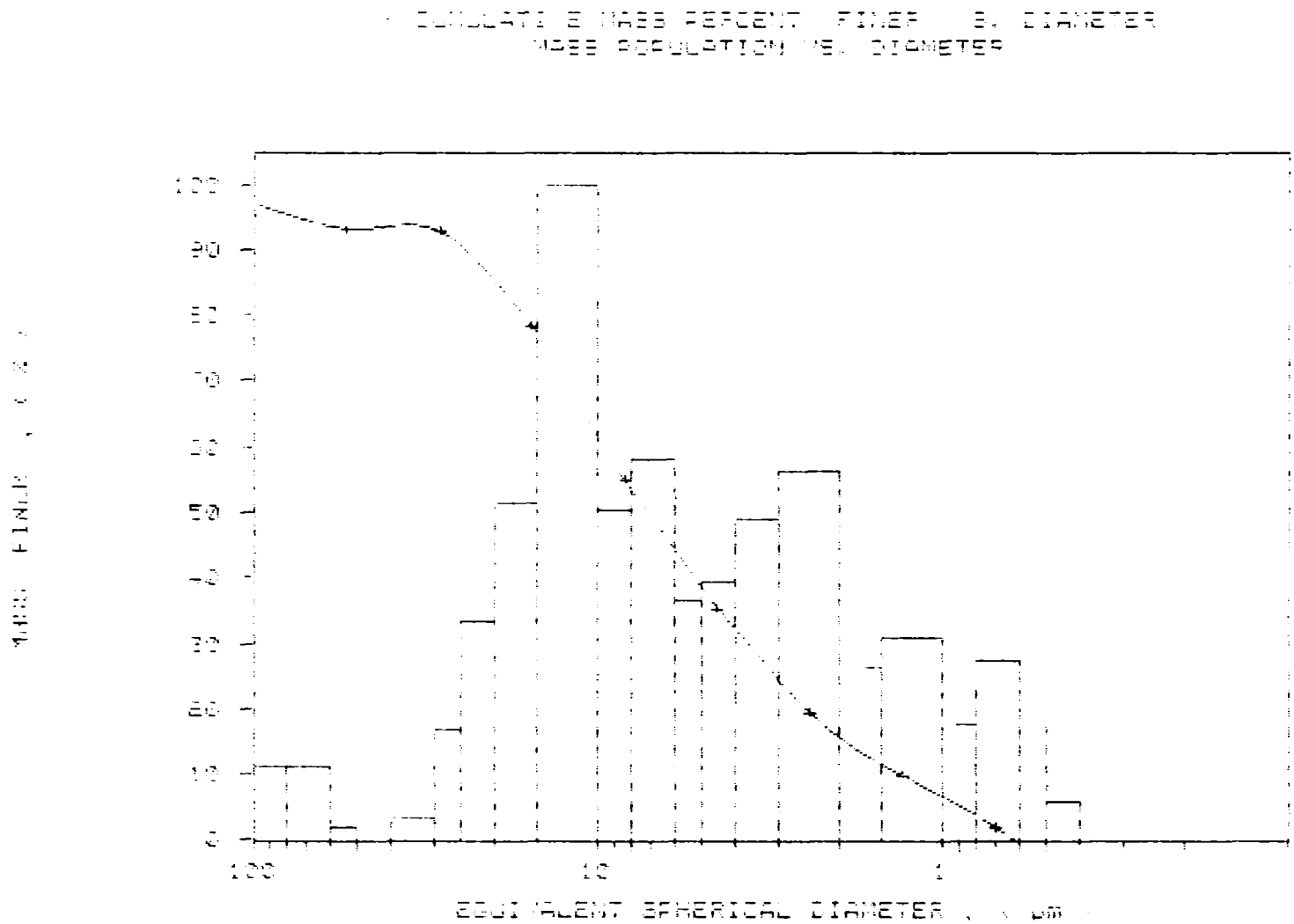
MEDIAN DIAMETER: 7.19 um

MODAL DIAMETER: 11.15 um

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	97.1	2.9
80.00	95.3	1.8
60.00	93.5	1.8
50.00	93.2	0.3
40.00	93.6	-0.4
30.00	93.1	0.6
25.00	90.4	2.6
20.00	85.1	5.3
15.00	77.0	8.1
10.00	61.3	15.7
8.00	53.4	7.9
6.00	44.2	9.2
5.00	38.4	5.8
4.00	32.1	6.2
3.00	24.4	7.7
2.00	15.5	8.9
1.50	11.4	4.2
1.00	6.5	4.9
0.80	3.7	2.8
0.60	-0.7	4.4
0.50	-3.5	2.9
0.40	-4.5	1.0

SAMPLE DIRECTORY/NUMBER: DATA7 /395
SAMPLE ID: Hole 89-12 # 17305
SUBMITTER: MRC Int.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 107 kilocounts/sec

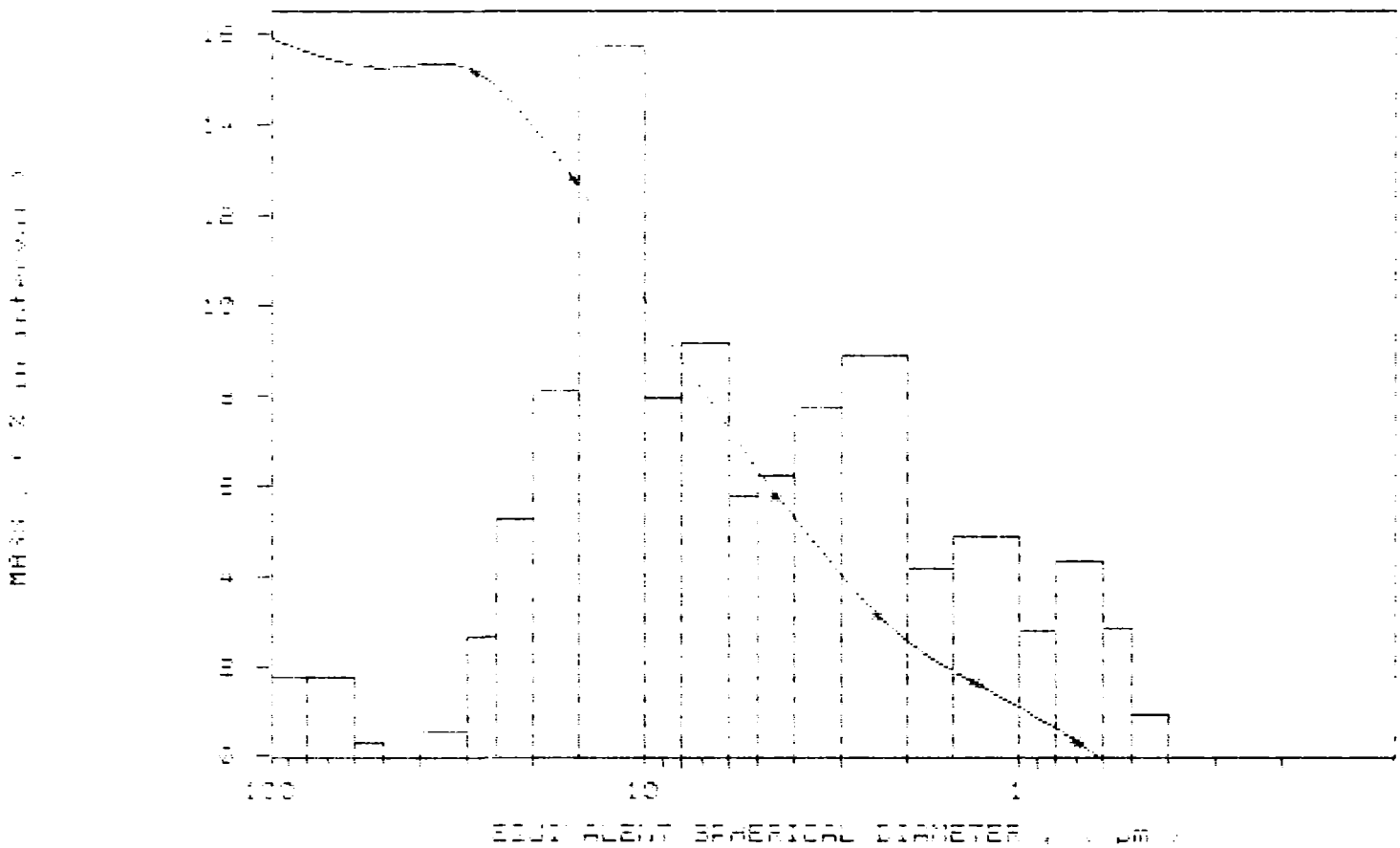
UNIT NUMBER: 1
START 10:37:09 12/13/94
REPRT 10:49:32 12/13/94
TOT RUN TIME 0:07:48
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7633 cp
RUN TYPE: High Speed



SAMPLE DIRECTORY/NUMBER: DATA7 /395
SAMPLE ID: Hole 89-12 # 17305
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 107 kilocounts/sec

UNIT NUMBER: 1
START 10:37:09 12/13/94
REPRT 10:49:32 12/13/94
TOT RUN TIME 0:07:48
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7633 cp
RUN TYPE: High Speed

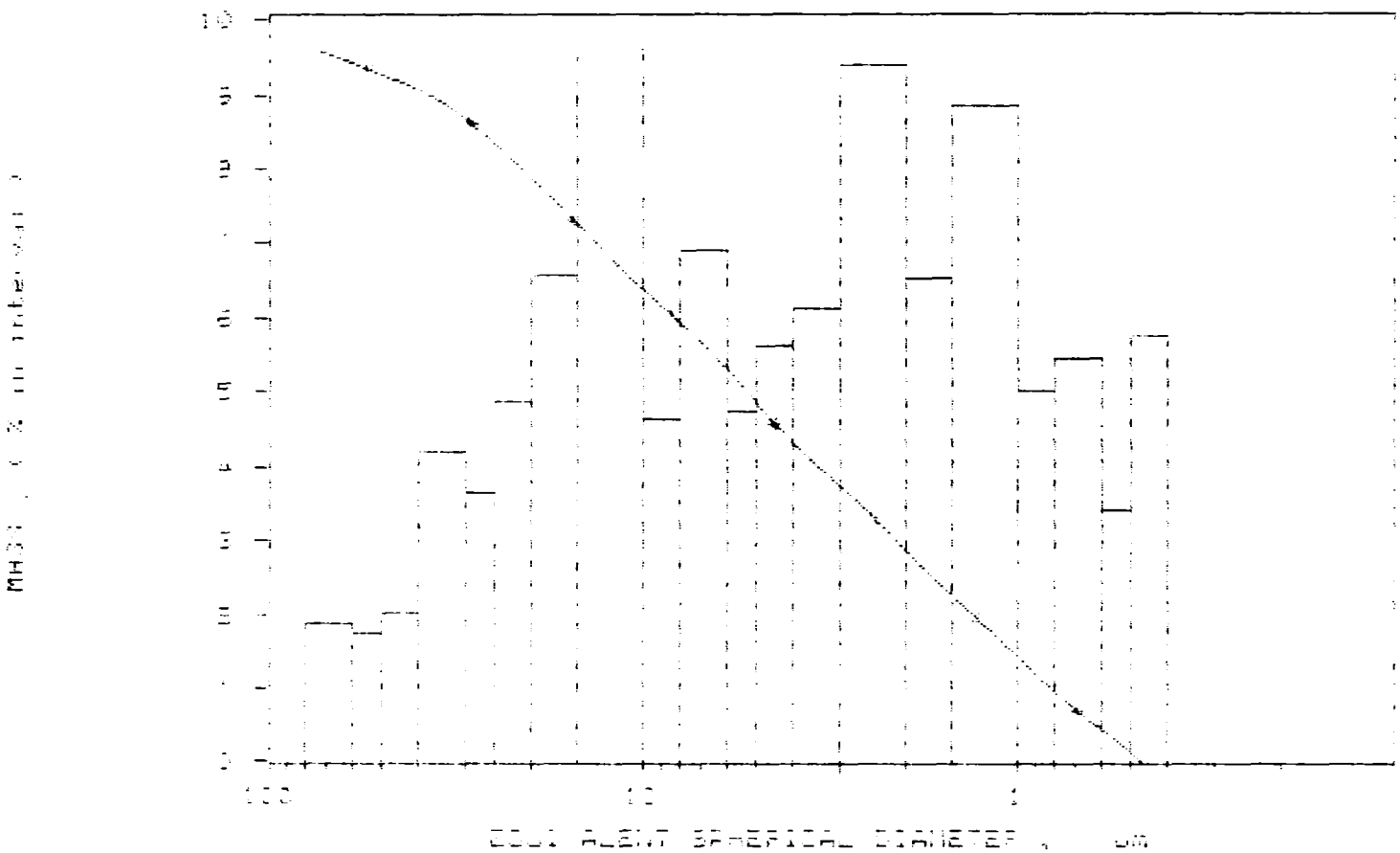
MASS POPULATION VS. DIAMETER
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /393
SAMPLE ID: Hole 89-12 # 17303
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 103 kilocounts/sec

UNIT NUMBER: 1
START 09:51:30 12/13/94
REPRT 09:59:33 12/13/94
TOT RUN TIME 0:07:42
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7635 cp
RUN TYPE: High Speed

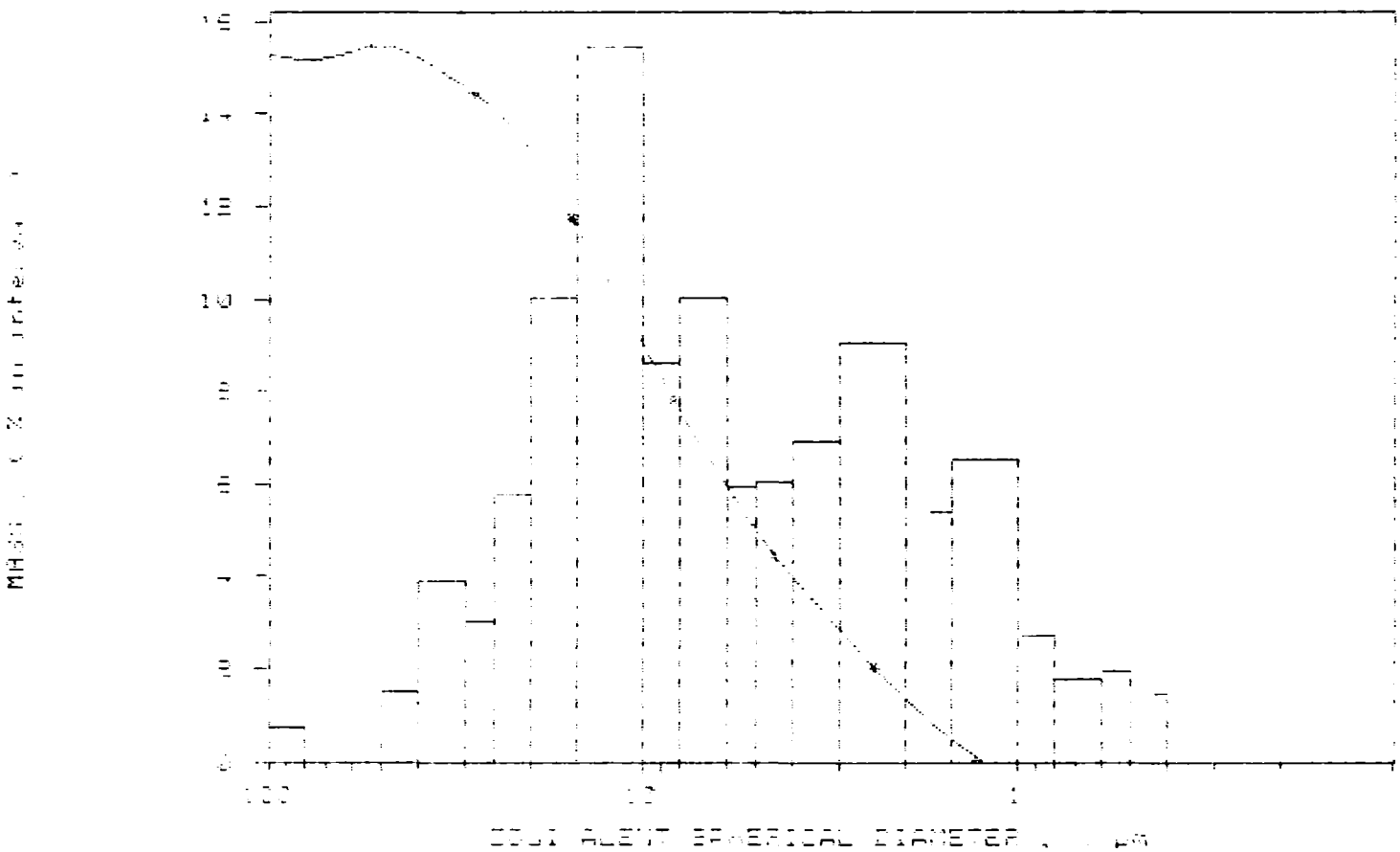
MASS POPULATION VS. DIAMETER
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /394
SAMPLE ID: Hole 89-12 # 17304
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 114 kilocounts/sec

UNIT NUMBER: 1
START 10:10:49 12/13/94
REPRT 10:18:50 12/13/94
TOT RUN TIME 0:07:40
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7634 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole 89-12 # 17306

SediGraph 5100 V3.02 PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA7 /396
SAMPLE ID: Hole 89-12 # 17306
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 105 kilocounts/sec

UNIT NUMBER: 1
START 11:27:58 12/13/94
REPRT 11:36:06 12/13/94
TOT RUN TIME 0:07:41
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7634 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 um
ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 7.14 um MODAL DIAMETER: 13.11 um

DIAMETER (um)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	95.4	4.6
80.00	96.6	-1.2
60.00	97.9	-1.3
50.00	97.9	0.1
40.00	95.8	2.1
30.00	90.9	4.9
25.00	86.8	4.2
20.00	80.3	6.4
15.00	71.3	9.0
10.00	58.6	12.8
8.00	52.8	5.8
6.00	45.2	7.6
5.00	39.5	5.6
4.00	33.4	6.1
3.00	27.6	5.8
2.00	19.4	8.3
1.50	14.6	4.7
1.00	9.3	5.4
0.80	6.2	3.0
0.60	2.1	4.2
0.50	-0.7	2.7
0.40	-4.4	3.7

L. Malmstrom

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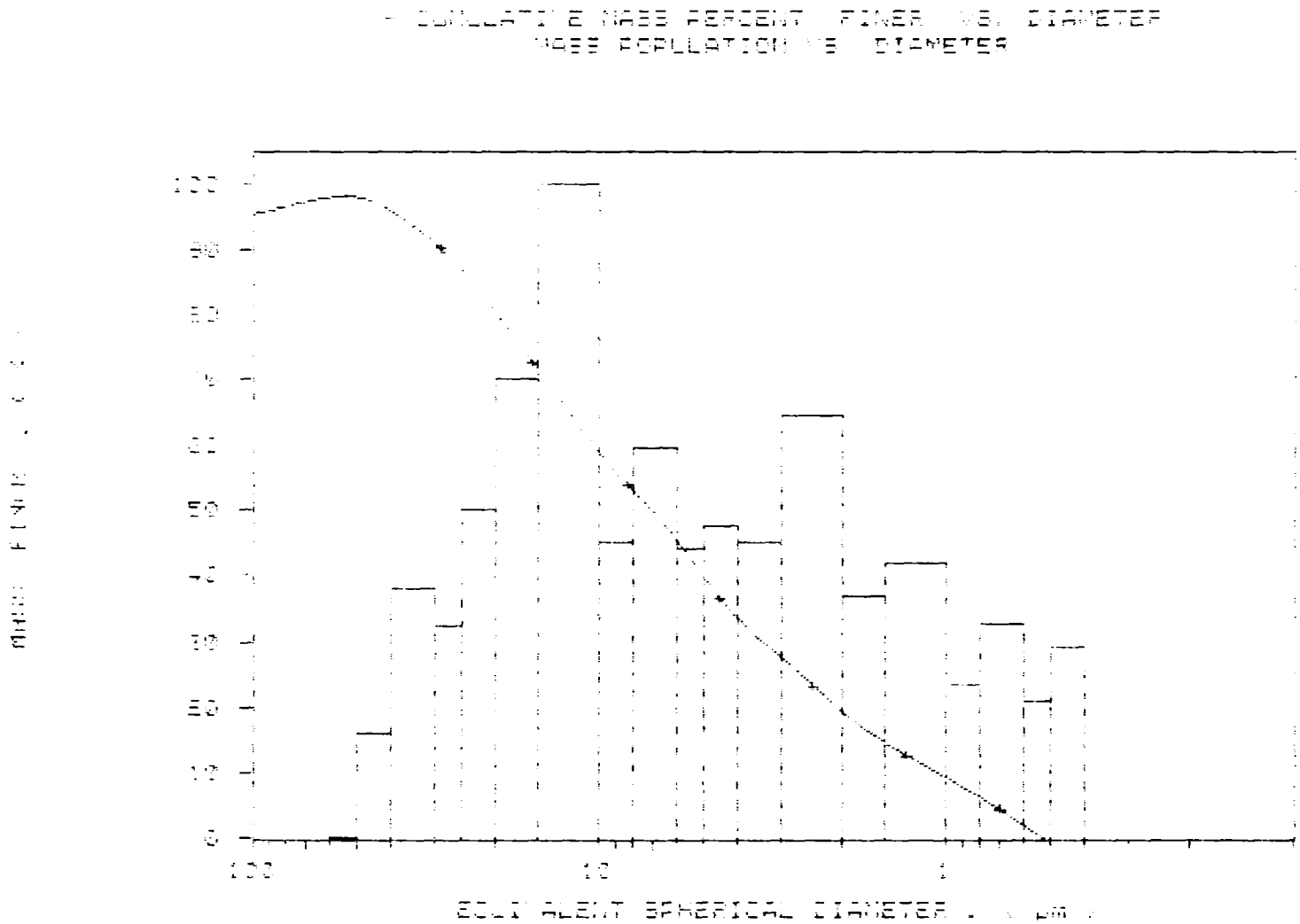
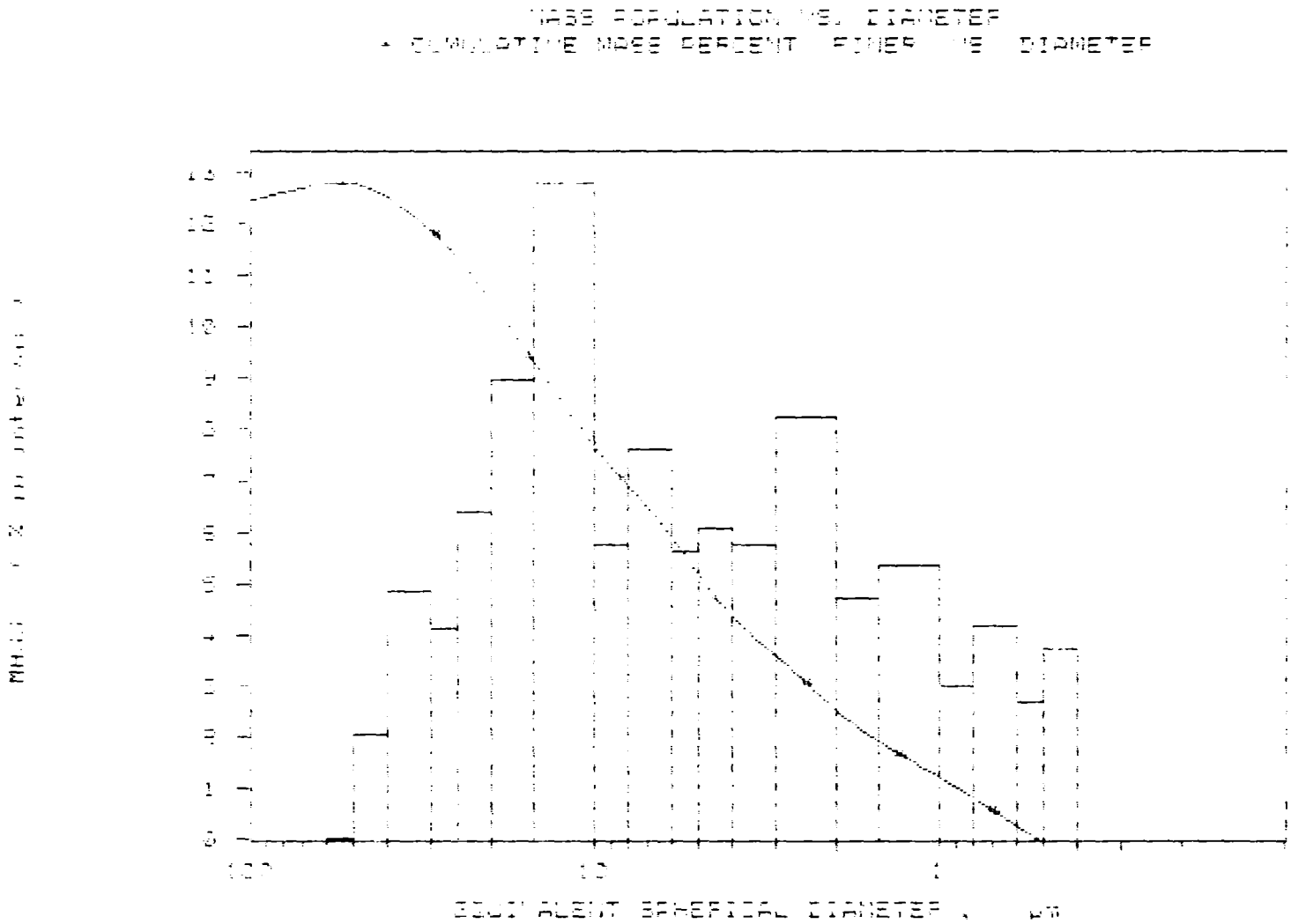
SAMPLE DIRECTORY/NUMBER: DATA7 /396
SAMPLE ID: Hole 89-12 # 17306
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 105 kilocounts/sec

UNIT NUMBER: 1
START 11:27:58 12/13/94
REPRT 11:36:06 12/13/94
TOT RUN TIME 0:07:41
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7634 cp
RUN TYPE: High Speed



SAMPLE DIRECTORY/NUMBER: DATA7 /396
SAMPLE ID: Hole 89-12 # 17306
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 105 kilocounts/sec

UNIT NUMBER: 1
START 11:27:58 12/13/94
REPRT 11:36:06 12/13/94
TOT RUN TIME 0:07:41
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7634 cp
RUN TYPE: High Speed



SAMPLE DIRECTORY/NUMBER: DATA7 /397
SAMPLE ID: Hole 89-12 # 17307
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 108 kilocounts/sec

UNIT NUMBER: 1
START 11:48:03 12/13/94
REPRT 11:56:08 12/13/94
TOT RUN TIME 0:07:43
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7633 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 um
ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 4.79 um

MODAL DIAMETER: 6.62 um

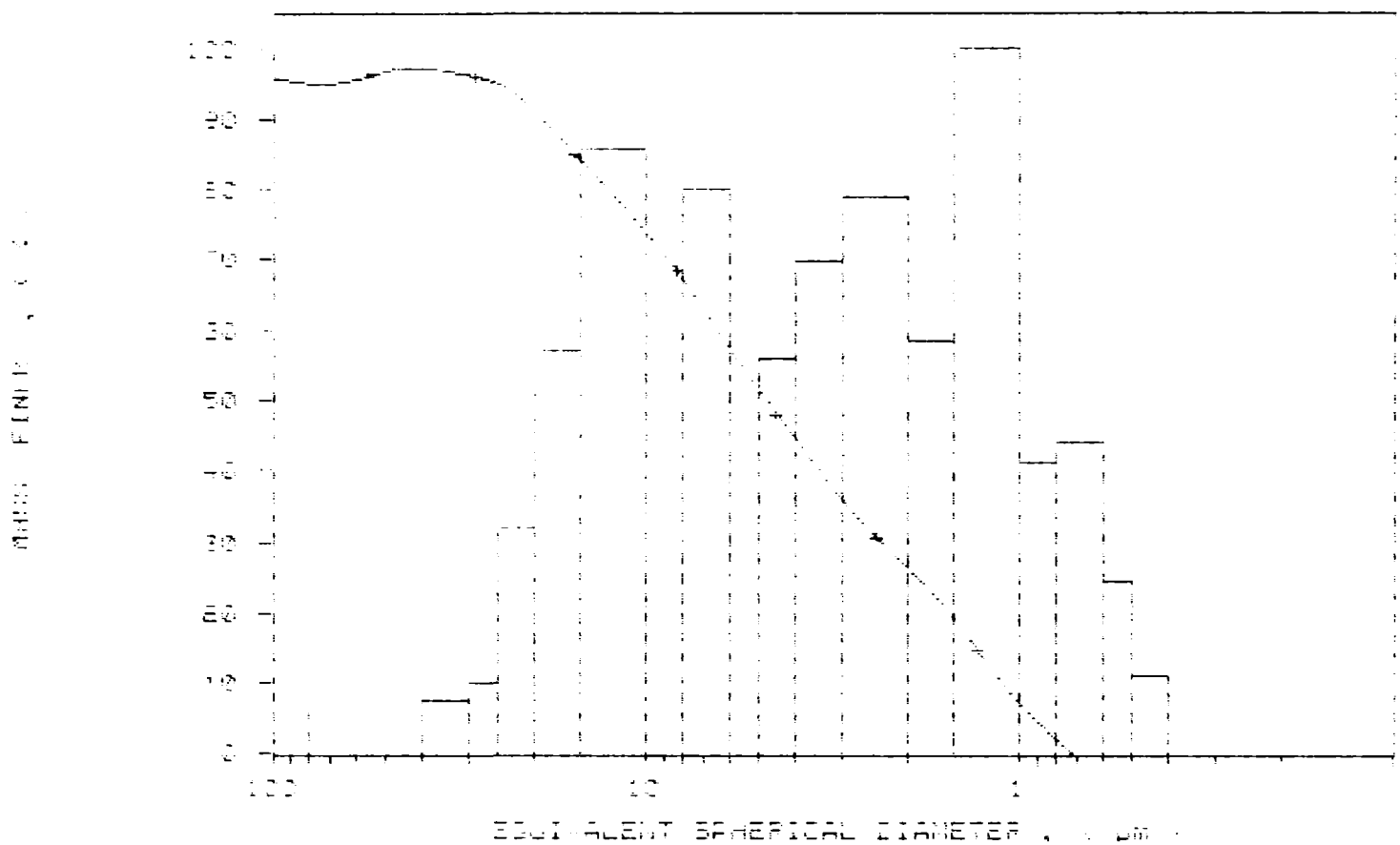
DIAMETER (um)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	95.8	4.2
80.00	95.0	0.8
60.00	95.6	-0.6
50.00	96.8	-1.1
40.00	97.1	-0.4
30.00	96.2	1.0
25.00	94.9	1.3
20.00	91.0	3.9
15.00	84.1	7.0
10.00	73.6	10.4
8.00	67.0	6.7
6.00	57.2	9.7
5.00	51.3	5.9
4.00	44.5	6.8
3.00	36.0	8.5
2.00	26.3	9.6
1.50	19.2	7.1
1.00	7.0	12.2
0.80	2.0	5.0
0.60	-3.3	5.4
0.50	-6.4	3.0
0.40	-7.7	1.4

L. Malmstrom

SAMPLE DIRECTORY/NUMBER: DATA7 /397
SAMPLE ID: Hole 89-12 # 17307
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 108 kilocounts/sec

UNIT NUMBER: 1
START 11:48:03 12/13/94
REPRT 11:56:08 12/13/94
TOT RUN TIME 0:07:43
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7633 cp
RUN TYPE: High Speed

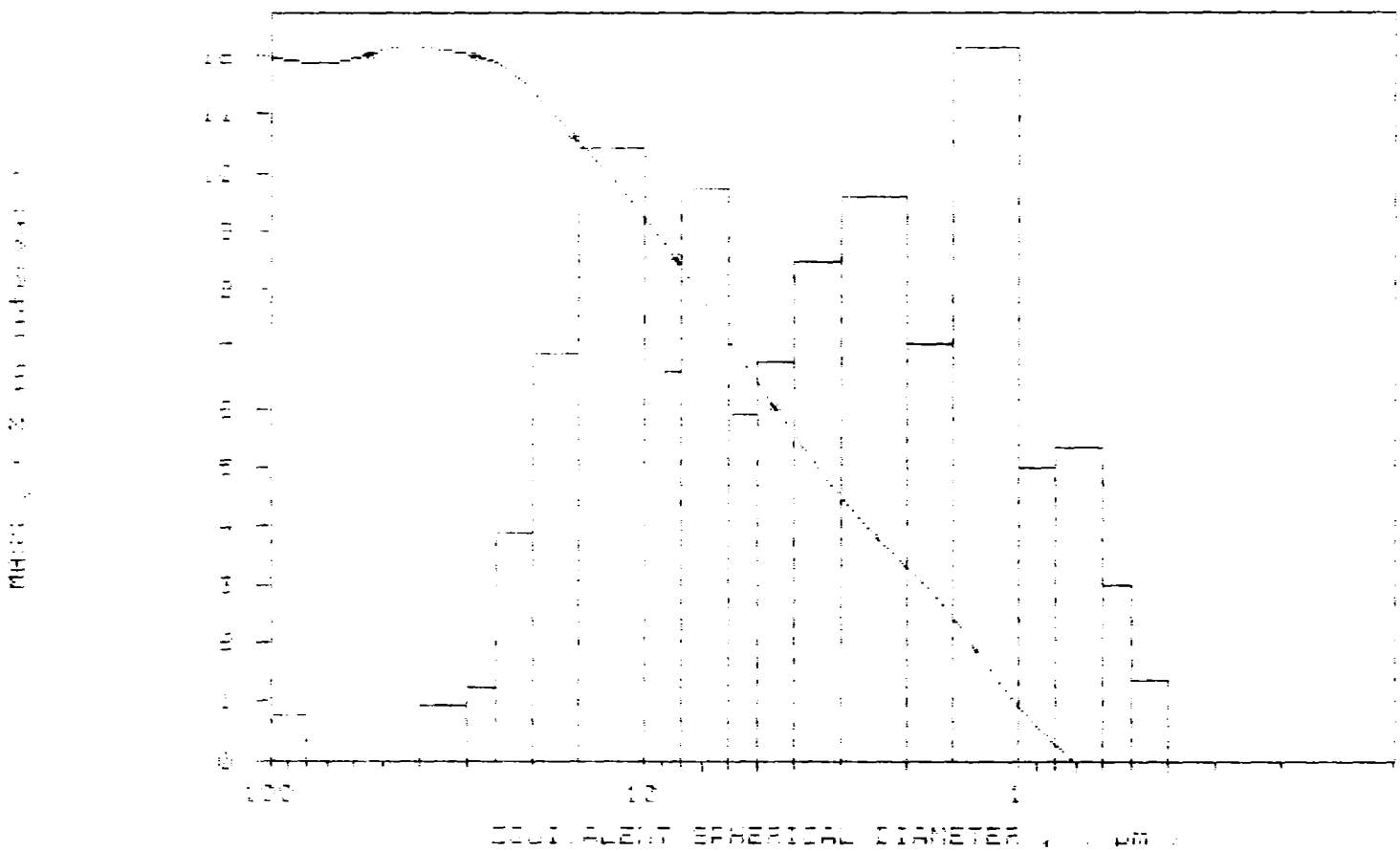
CUMULATIVE MASS PERCENT FINER E. DIAMETER
MASS DISTRIBUTION VS DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA7 /397
SAMPLE ID: Hole 89-12 # 17307
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 108 kilocounts/sec

UNIT NUMBER: 1
START 11:48:03 12/13/94
REPRT 11:56:08 12/13/94
TOT RUN TIME 0:07:43
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7633 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole 89-12 # 17308

SediGraph 5100 V3.02 PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA7 /398
SAMPLE ID: Hole 89-12 # 17308
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 97 kilocounts/sec

UNIT NUMBER: 1
START 12:13:01 12/13/94
REPRT 12:25:21 12/13/94
TOT RUN TIME 0:07:44
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7633 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 um
ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 4.74 um
MODAL DIAMETER: 2.36 um

DIAMETER (um)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	98.9	1.1
80.00	99.1	-0.2
60.00	99.4	-0.3
50.00	99.2	0.2
40.00	98.1	1.1
30.00	94.4	3.6
25.00	91.5	2.9
20.00	87.4	4.2
15.00	80.4	7.0
10.00	70.2	10.1
8.00	64.9	5.4
6.00	56.9	7.9
5.00	51.6	5.4
4.00	45.2	6.4
3.00	37.2	8.0
2.00	24.7	12.4
1.50	17.2	7.6
1.00	10.0	7.2
0.80	6.2	3.8
0.60	1.2	5.0
0.50	-1.4	2.5
0.40	-4.3	2.9

K. Malmstrom

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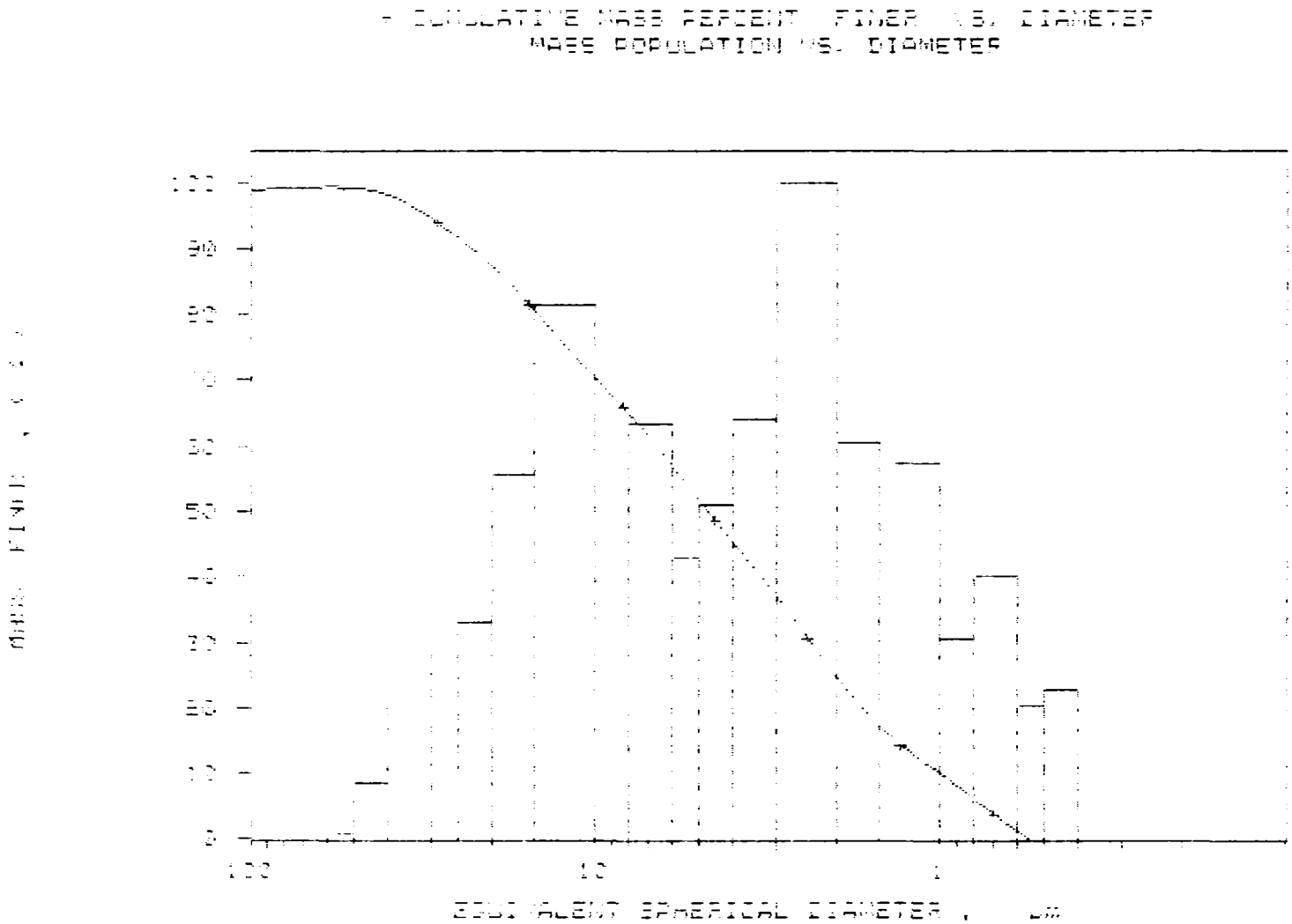
SAMPLE DIRECTORY/NUMBER: DATA7 /398
SAMPLE ID: Hole 89-12 # 17308
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 97 kilocounts/sec

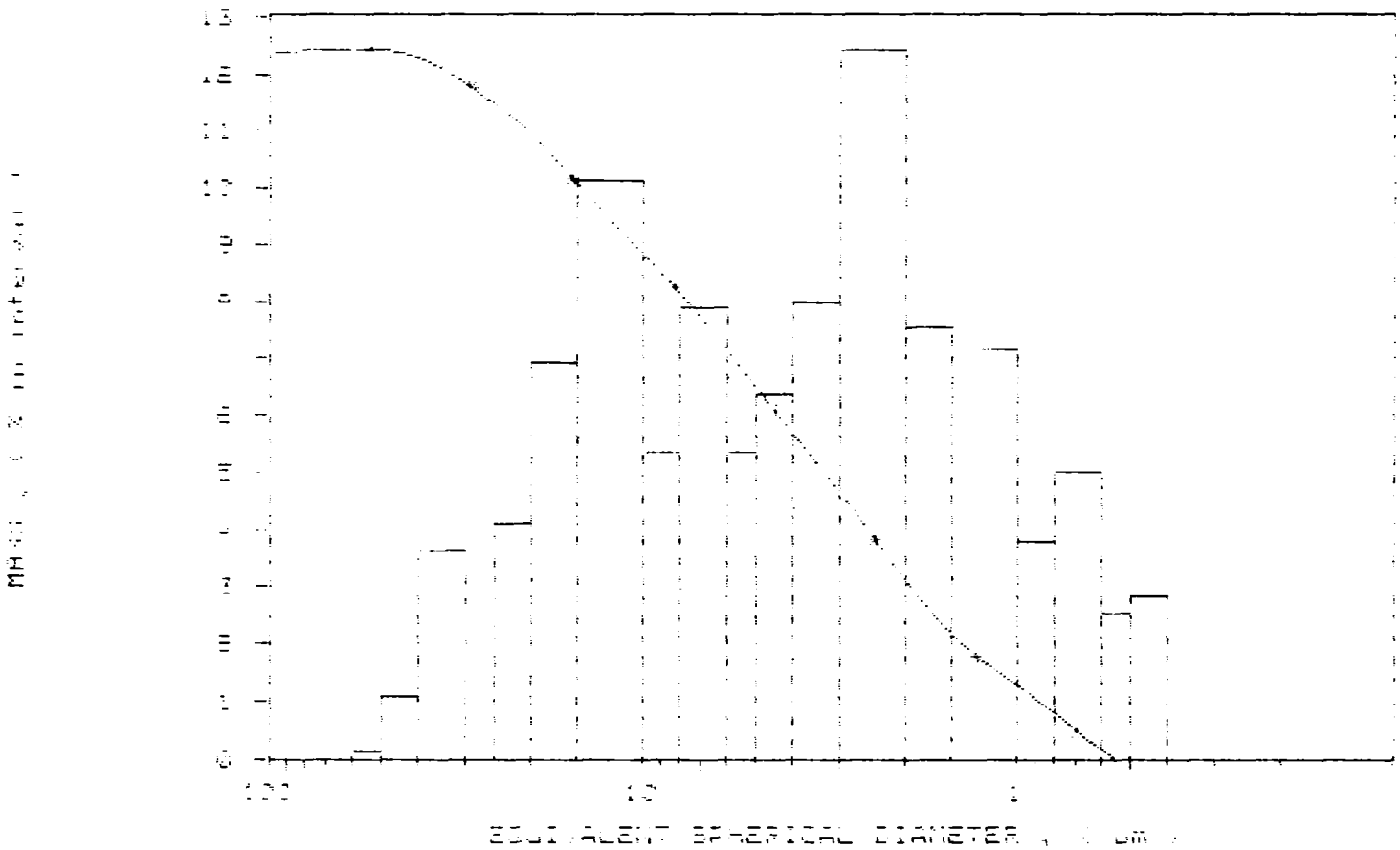
UNIT NUMBER: 1
START 12:13:01 12/13/94
REPRT 12:25:21 12/13/94
TOT RUN TIME 0:07:44
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7633 cp
RUN TYPE: High Speed



SAMPLE DIRECTORY/NUMBER: DATA7 /398
SAMPLE ID: Hole 89-12 # 17308
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 97 kilocounts/sec

UNIT NUMBER: 1
START 12:13:01 12/13/94
REPRT 12:25:21 12/13/94
TOT RUN TIME 0:07:44
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7633 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
% CUMULATIVE MASS PERCENT FINER VS DIAMETER



SAMPLE DIRECTORY NUMBER: DATA7 399
SAMPLE ID: Hole 89-12 # 17309
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 22.3 deg C
BASELINE/FULL SCALE: 124/ 110 kilocounts/sec

UNIT NUMBER: 1
START 13:02:04 12/13/94
REPRT 13:10:53 12/16/94
TOT RUN TIME 0:07:37
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7634 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 um
ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 4.84 um
MODAL DIAMETER: 6.48 um

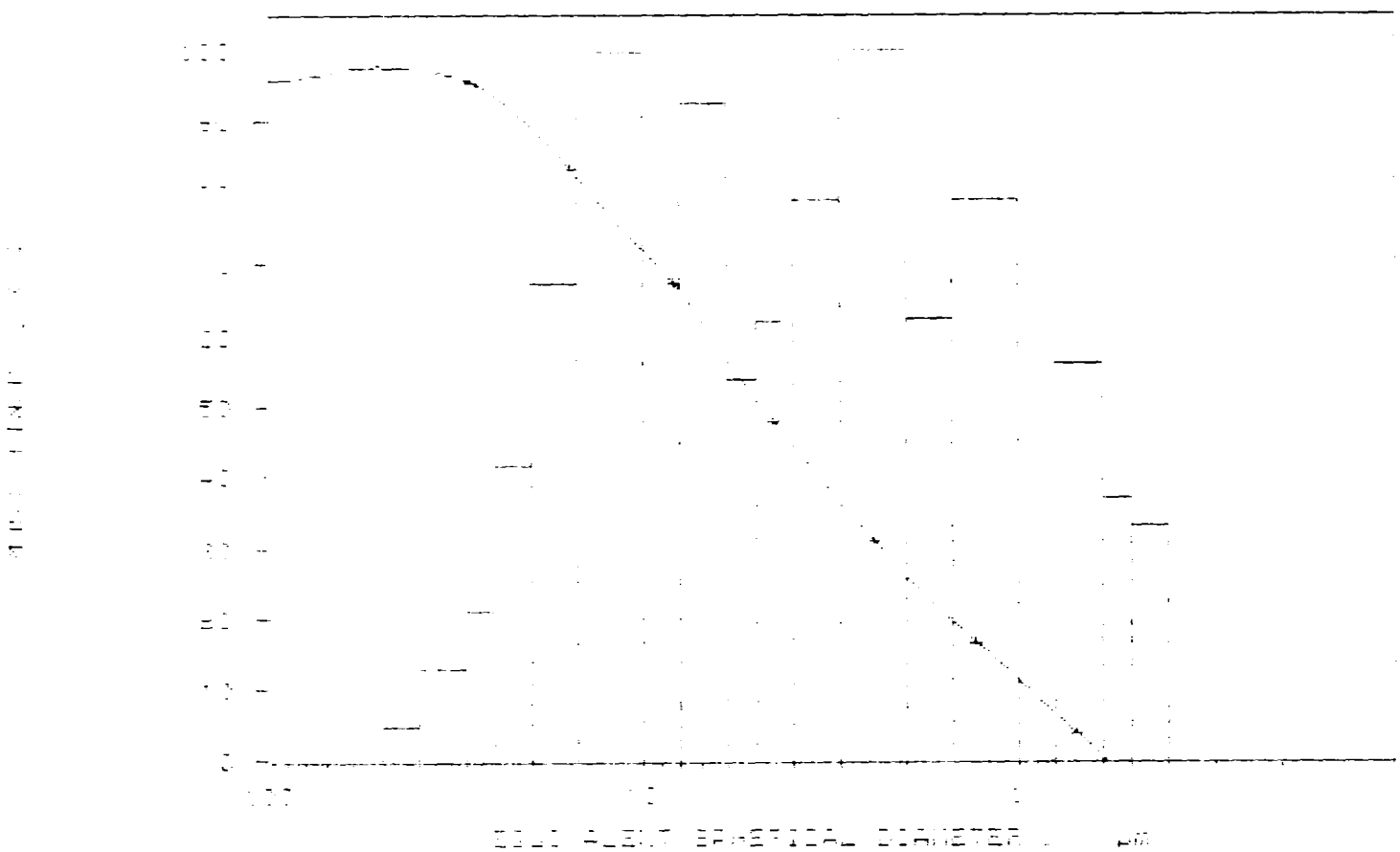
DIAMETER (um)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	95.5	4.5
80.00	96.1	-0.5
60.00	97.3	-1.2
50.00	97.6	-0.3
40.00	97.1	0.5
30.00	95.7	1.4
25.00	93.5	2.2
20.00	89.2	4.3
15.00	82.2	7.0
10.00	71.8	10.4
8.00	66.2	5.7
6.00	56.6	9.6
5.00	50.9	5.6
4.00	44.5	6.5
3.00	36.2	8.2
2.00	25.9	10.4
1.50	19.4	6.5
1.00	11.1	8.3
0.80	6.3	4.8
0.60	0.5	5.8
0.50	-3.3	3.8
0.40	-6.8	3.4

K. Malmstrom

000078

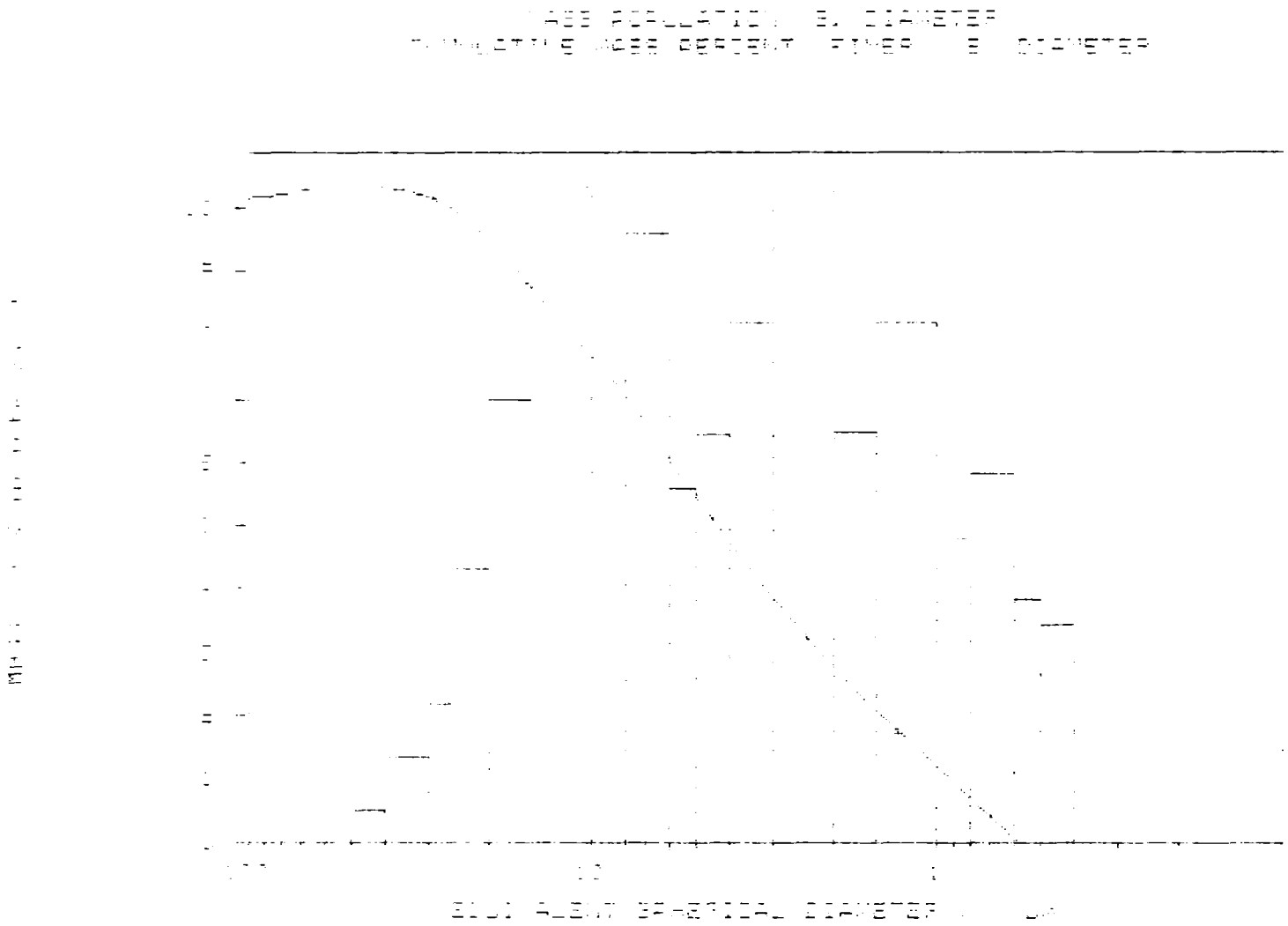
SAMPLE DIRECTORY/NUMBER: DATA7 /709
SAMPLE ID: Hole 89-12 # 17309
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 22.7 deg C
BASELINE/FULL SCALE: 124 110 kilocounts/sec

UNIT NUMBER: 1
START 13:02:04 12/13/94
REPRT 13:10:53 12/16/94
TOT RUN TIME 0:07:37
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7634 cp
RUN TYPE: High Speed



SAMPLE DIRECTORY/NUMBER: DATA7 /399
SAMPLE ID: Hole 89-12 # 17309
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.7 deg C
BASELINE/FULL SCALE: 124/ 110 kilocounts/sec

UNIT NUMBER: 1
START 13:02:04 12/13/94
REPRT 13:10:53 12/16/94
TOT RUN TIME 0:07:37
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7634 cp
RUN TYPE: High Speed



Hole 89-12 # 17310

SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATA7 /400
SAMPLE ID: Hole 89-12 # 17310
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 82 kilocounts/sec

UNIT NUMBER: 1
START 13:23:01 12/13/94
REPRT 13:35:30 12/13/94
TOT RUN TIME 0:07:55
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7632 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 um
ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 3.96 um

MODAL DIAMETER: 5.51 um

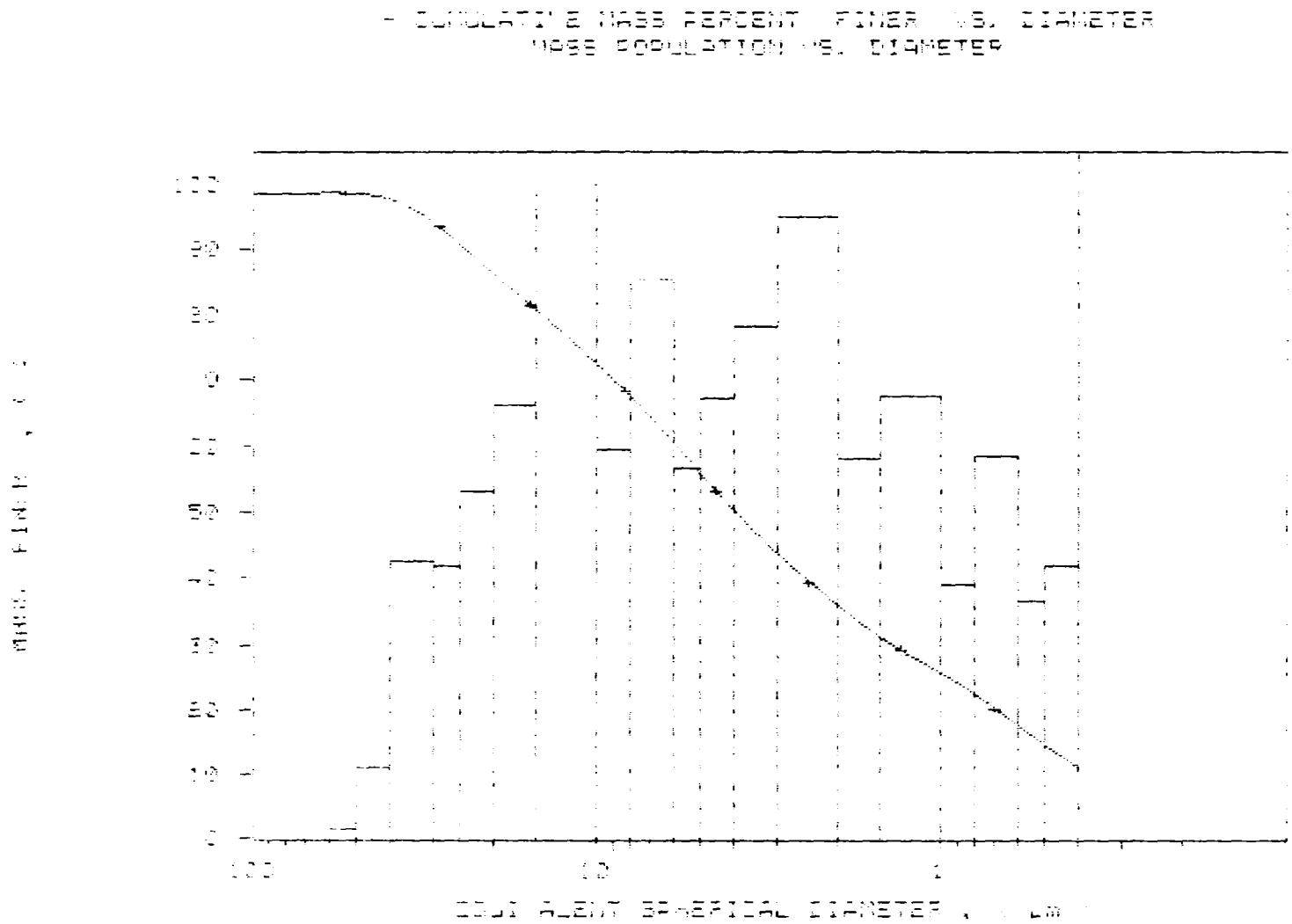
DIAMETER (um)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	98.4	1.6
80.00	98.5	-0.1
60.00	98.6	-0.1
50.00	98.5	0.1
40.00	97.6	0.9
30.00	94.0	3.5
25.00	90.6	3.5
20.00	86.1	4.4
15.00	80.7	5.5
10.00	72.4	8.2
8.00	67.5	4.9
6.00	60.5	7.0
5.00	55.8	4.7
4.00	50.2	5.6
3.00	43.7	6.5
2.00	35.9	7.8
1.50	31.1	4.8
1.00	25.5	5.6
0.80	22.3	3.2
0.60	17.5	4.8
0.50	14.4	3.0
0.40	11.0	3.5

L. Brahm Strom

000078

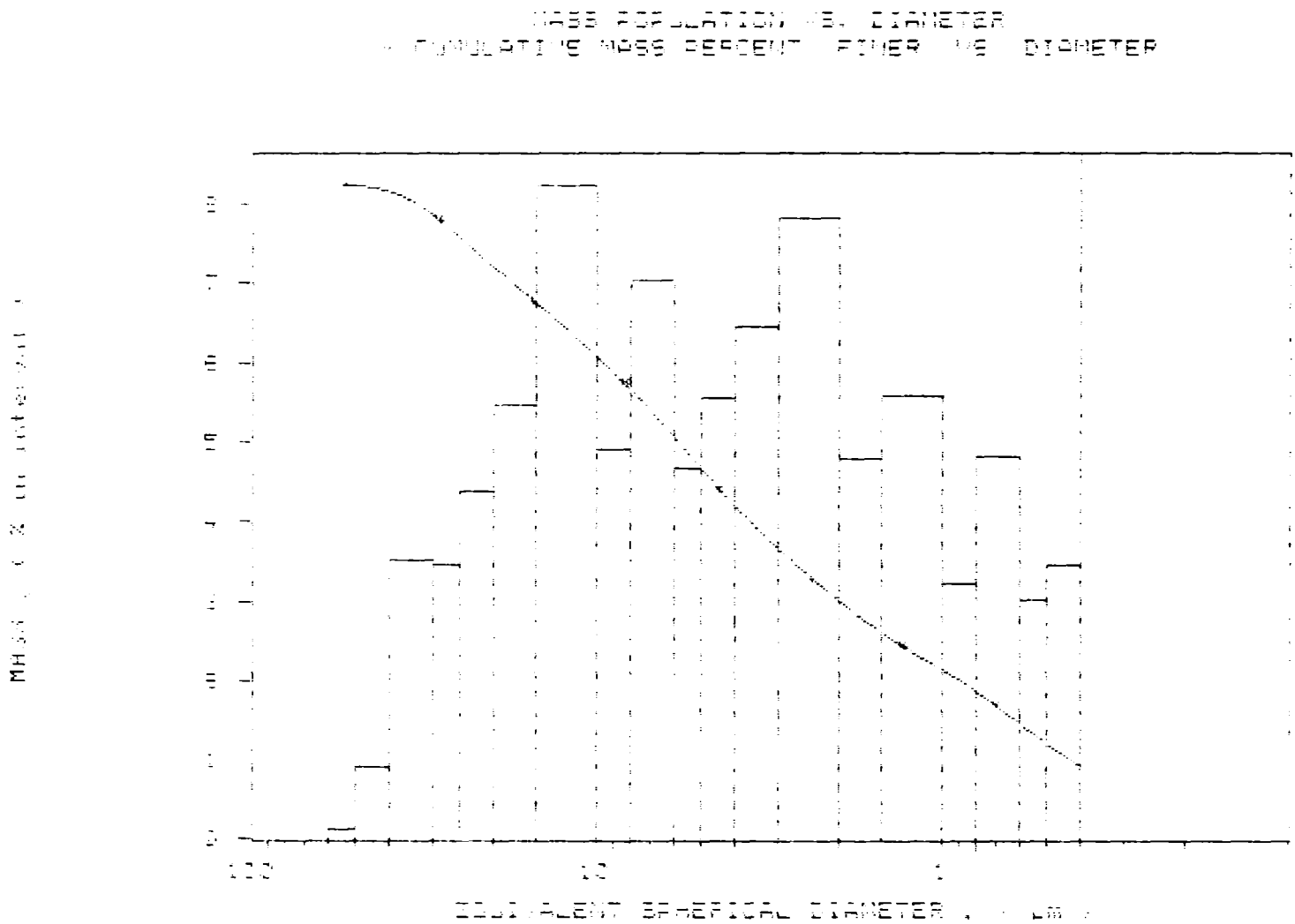
SAMPLE DIRECTORY/NUMBER: DATA7 /400
SAMPLE ID: Hole 89-12 # 17310
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 82 kilocounts/sec

UNIT NUMBER: 1
START 13:23:01 12/13/94
REPRT 13:35:30 12/13/94
TOT RUN TIME 0:07:55
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7632 cp
RUN TYPE: High Speed



SAMPLE DIRECTORY/NUMBER: DATA7 /400
SAMPLE ID: Hole 89-12 # 17310
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 82 kilocounts/sec

UNIT NUMBER: 1
START 13:23:01 12/13/94
REPRT 13:35:30 12/13/94
TOT RUN TIME 0:07:55
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7632 cp
RUN TYPE: High Speed



SAMPLE DIRECTORY/NUMBER: DATA8 /48
SAMPLE ID: Hole 89-12 # 17311
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 77 kilocounts/sec

UNIT NUMBER: 1
START 13:44:39 12/13/94
REPRT 13:52:17 12/13/94
TOT RUN TIME 0:07:20
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7631 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.92 µm

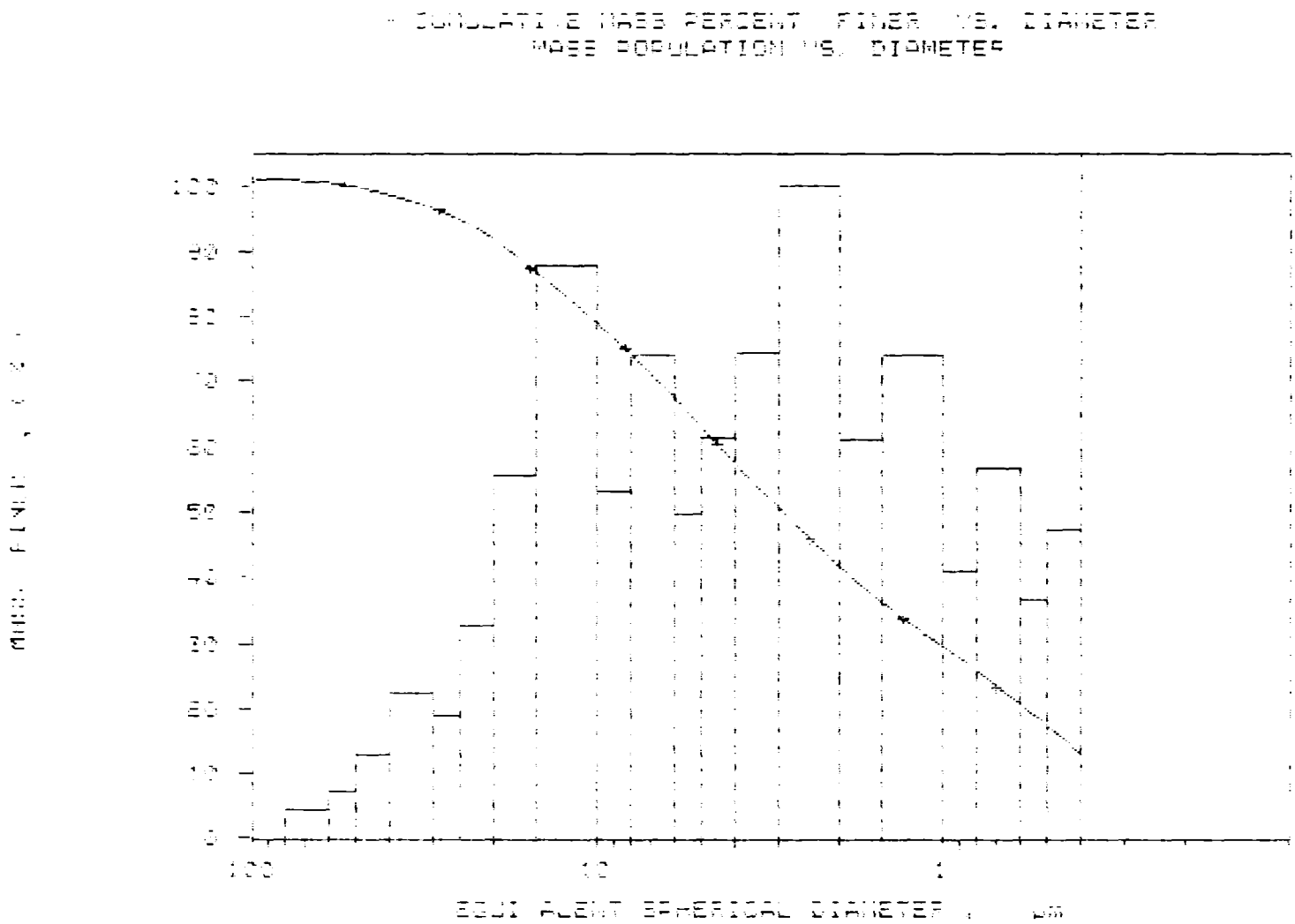
MODAL DIAMETER: 4.85 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	100.8	-0.8
80.00	100.8	-0.1
60.00	100.4	0.4
50.00	99.7	0.7
40.00	98.5	1.2
30.00	96.5	2.0
25.00	94.8	1.7
20.00	91.8	3.0
15.00	86.8	5.0
10.00	78.8	7.9
8.00	74.0	4.8
6.00	67.3	6.7
5.00	62.8	4.5
4.00	57.3	5.5
3.00	50.6	6.7
2.00	41.6	9.0
1.50	36.1	5.5
1.00	29.4	6.7
0.80	25.7	3.7
0.60	20.5	5.1
0.50	17.2	3.3
0.40	13.0	4.3

K. Malmstrom

SAMPLE DIRECTORY/NUMBER: DATA8 /48
SAMPLE ID: Hole 89-12 # 17311
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 77 kilocounts/sec

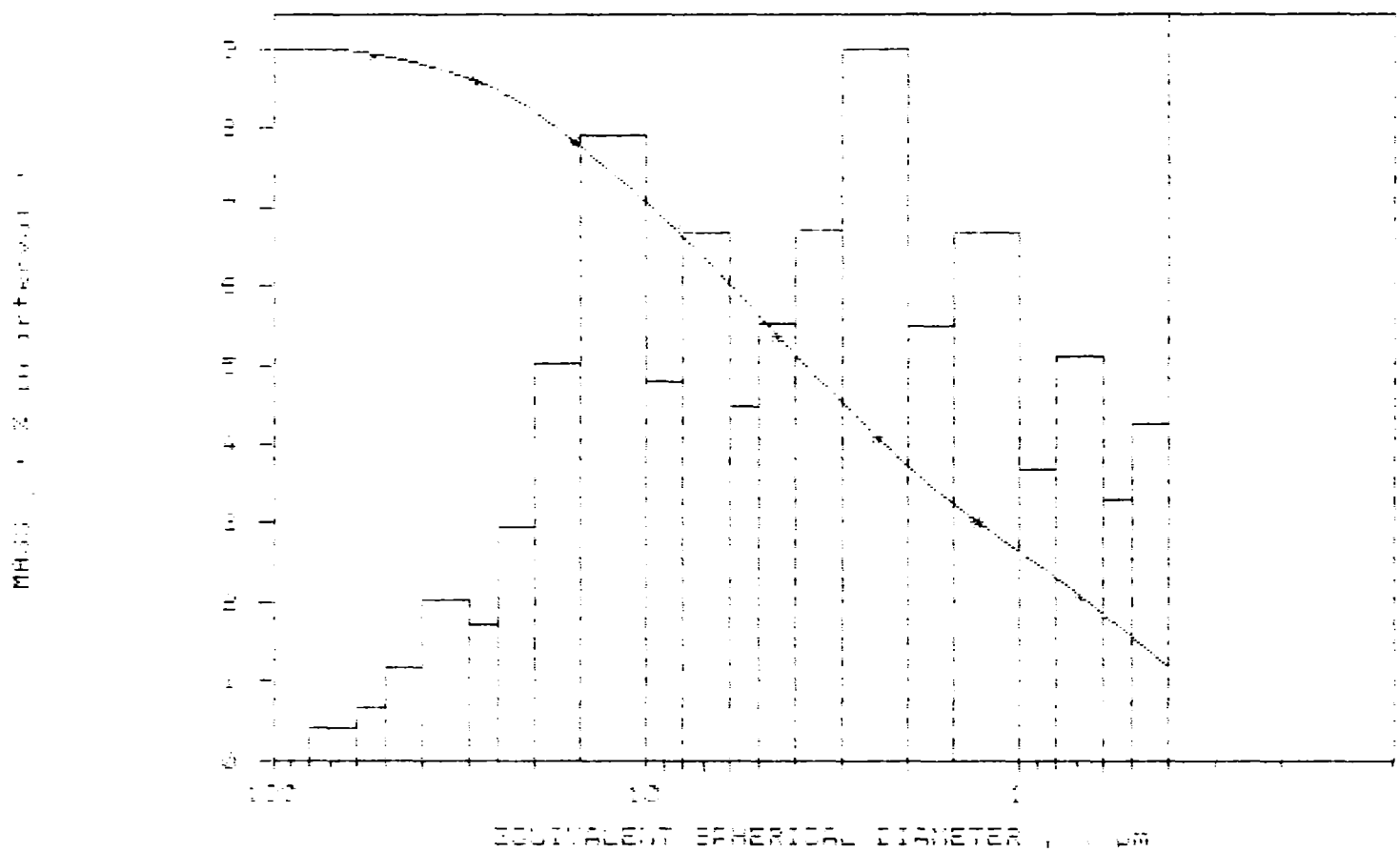
UNIT NUMBER: 1
START 13:44:39 12/13/94
REPRT 13:52:17 12/13/94
TOT RUN TIME 0:07:20
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7631 cp
RUN TYPE: High Speed



SAMPLE DIRECTORY/NUMBER: DATA8 /48
SAMPLE ID: Hole 89-12 # 17311
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 77 kilocounts/sec

UNIT NUMBER: 1
START 13:44:39 12/13/94
REPRT 13:52:17 12/13/94
TOT RUN TIME 0:07:20
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7631 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Hole 89-12 # 17312

SediGraph 5100 V3.02 PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA8 /49
SAMPLE ID: Hole 89-12 # 17312
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 104 kilocounts/sec

UNIT NUMBER: 1
START 14:39:29 12/13/94
REPRT 14:51:40 12/13/94
TOT RUN TIME 0:07:43
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7634 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 µm
ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.71 µm

MODAL DIAMETER: 0.44 µm

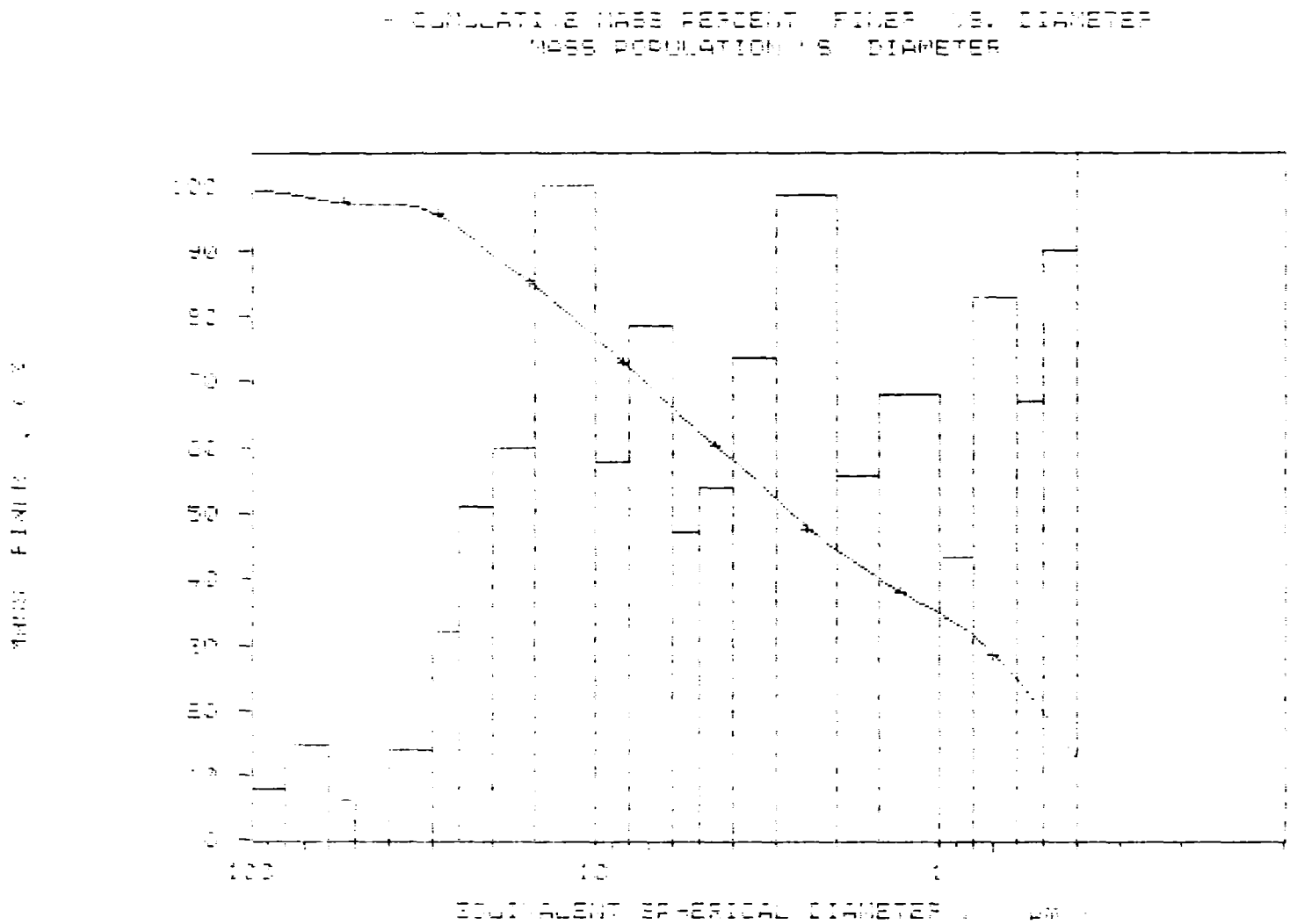
DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	99.4	0.6
80.00	98.7	0.6
60.00	97.6	1.2
50.00	97.1	0.5
40.00	97.0	0.1
30.00	95.9	1.1
25.00	93.4	2.5
20.00	89.3	4.0
15.00	84.6	4.7
10.00	76.7	7.9
8.00	72.2	4.6
6.00	66.0	6.2
5.00	62.2	3.7
4.00	58.0	4.2
3.00	52.2	5.8
2.00	44.4	7.8
1.50	40.0	4.4
1.00	34.7	5.4
0.80	31.2	3.4
0.60	24.7	6.5
0.50	19.4	5.3
0.40	12.3	7.1

K. Malmström

000078

SAMPLE DIRECTORY/NUMBER: DATA8 /49
SAMPLE ID: Hole 89-12 # 17312
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 104 kilocounts/sec

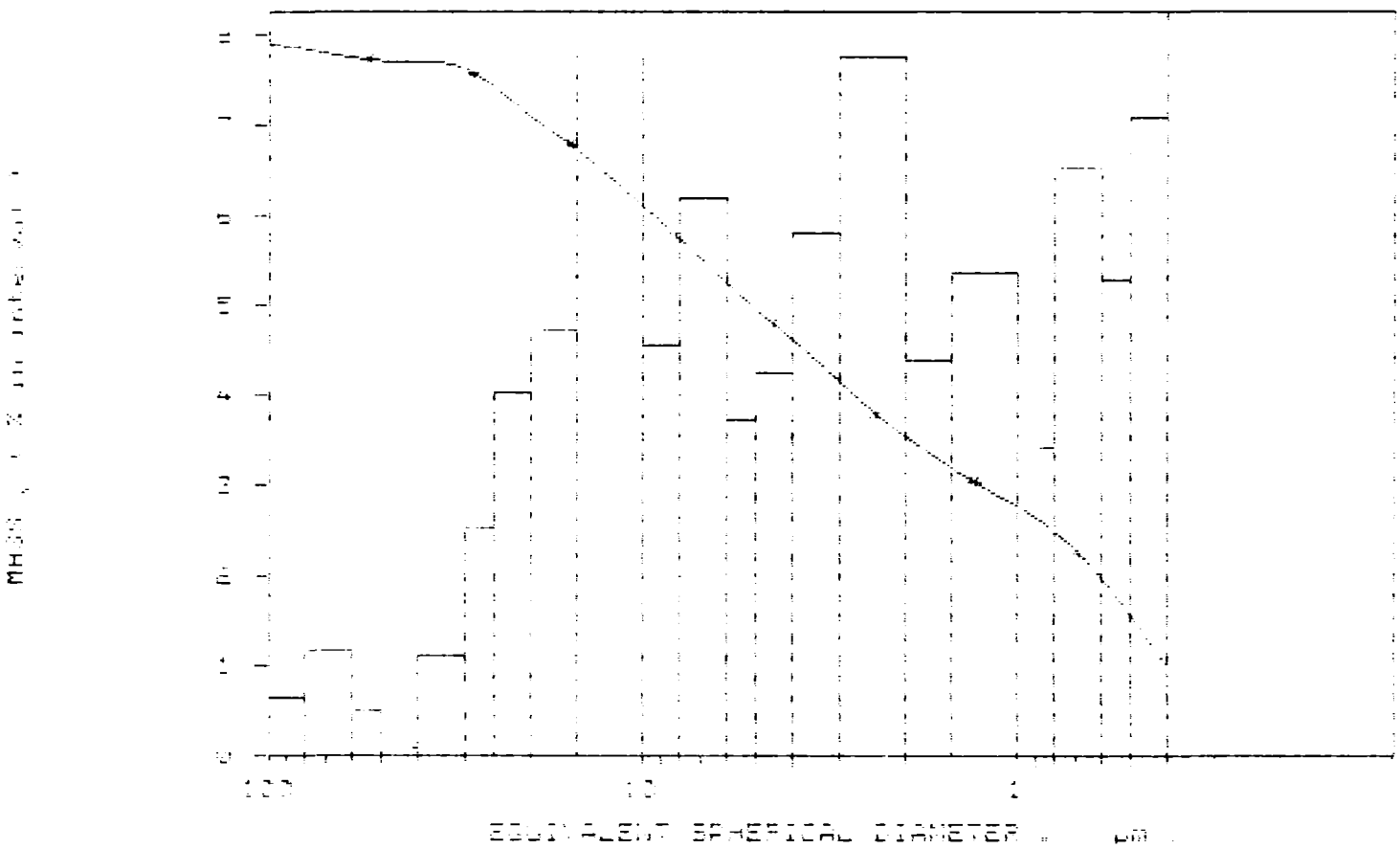
UNIT NUMBER: 1
START 14:39:29 12/13/94
REPRT 14:51:40 12/13/94
TOT RUN TIME 0:07:43
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7634 cp
RUN TYPE: High Speed



SAMPLE DIRECTORY/NUMBER: DATA8 /49
SAMPLE ID: Hole 89-12 # 17312
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 104 kilocounts/sec

UNIT NUMBER: 1
START 14:39:29 12/13/94
REPRT 14:51:40 12/13/94
TOT RUN TIME 0:07:43
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7634 cp
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA8 /50
SAMPLE ID: Hole 89-12 # 17313
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 103 kilocounts/sec

UNIT NUMBER: 1
START 14:59:09 12/13/94
REPRT 15:07:11 12/13/94
TOT RUN TIME 0:07:45
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7633 cp
RUN TYPE: High Speed

STARTING DIAMETER: 100.00 um
ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 1.49
FULL SCALE MASS %: 100

MASS DISTRIBUTION

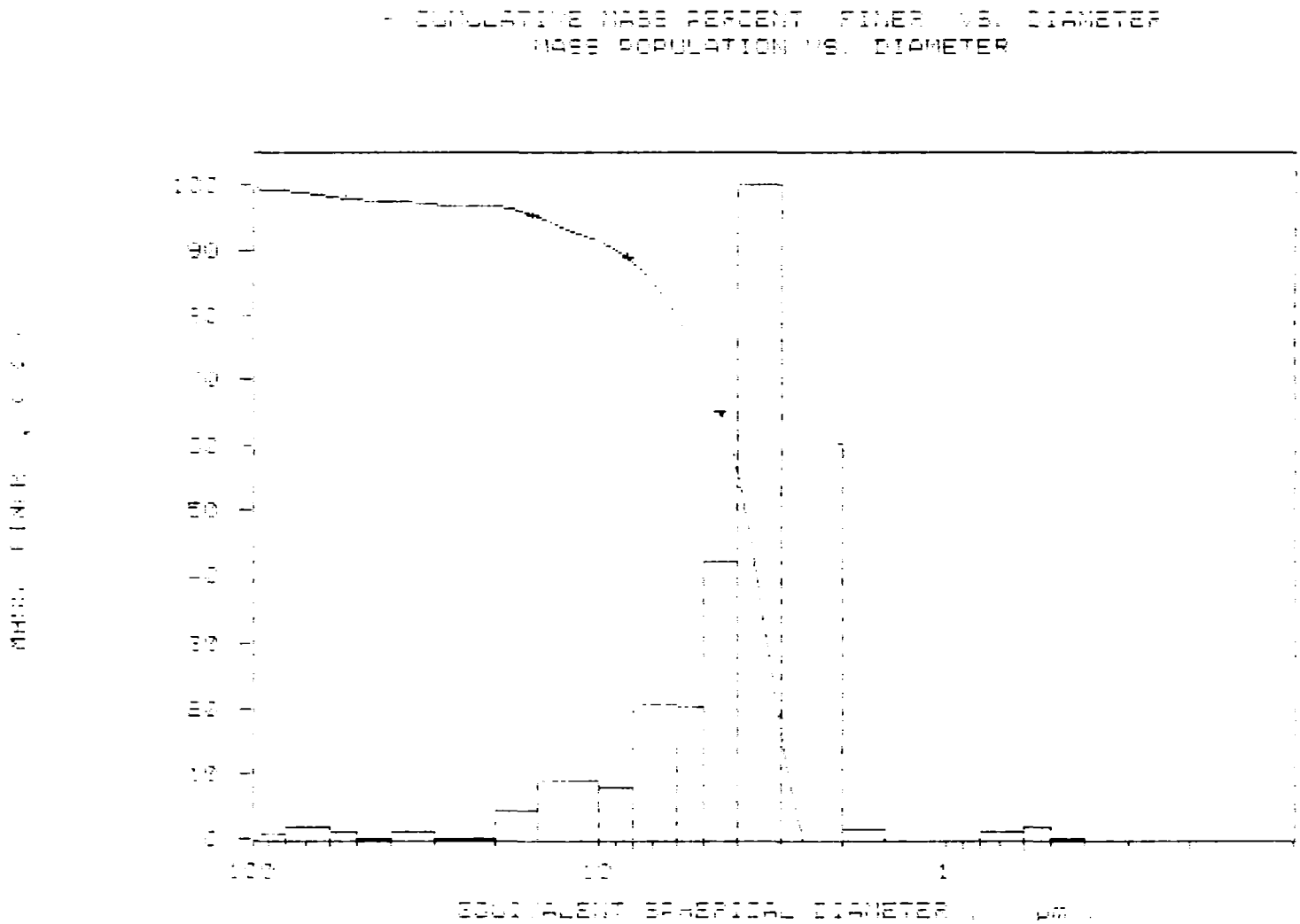
MEDIAN DIAMETER: 3.83 um
MODAL DIAMETER: 3.29 um

DIAMETER (um)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
100.00	99.4	0.6
80.00	99.0	0.4
60.00	98.1	0.9
50.00	97.6	0.5
40.00	97.4	0.2
30.00	96.9	0.5
25.00	96.8	0.2
20.00	96.7	0.1
15.00	94.9	1.8
10.00	91.2	3.7
8.00	88.0	3.2
6.00	79.8	8.2
5.00	71.8	8.1
4.00	55.0	16.8
3.00	15.6	39.4
2.00	-8.2	23.8
1.50	-8.9	0.7
1.00	-8.4	-0.5
0.80	-7.6	-0.9
0.60	-8.1	0.5
0.50	-8.9	0.8
0.40	-9.0	0.1

K. Malmstrom

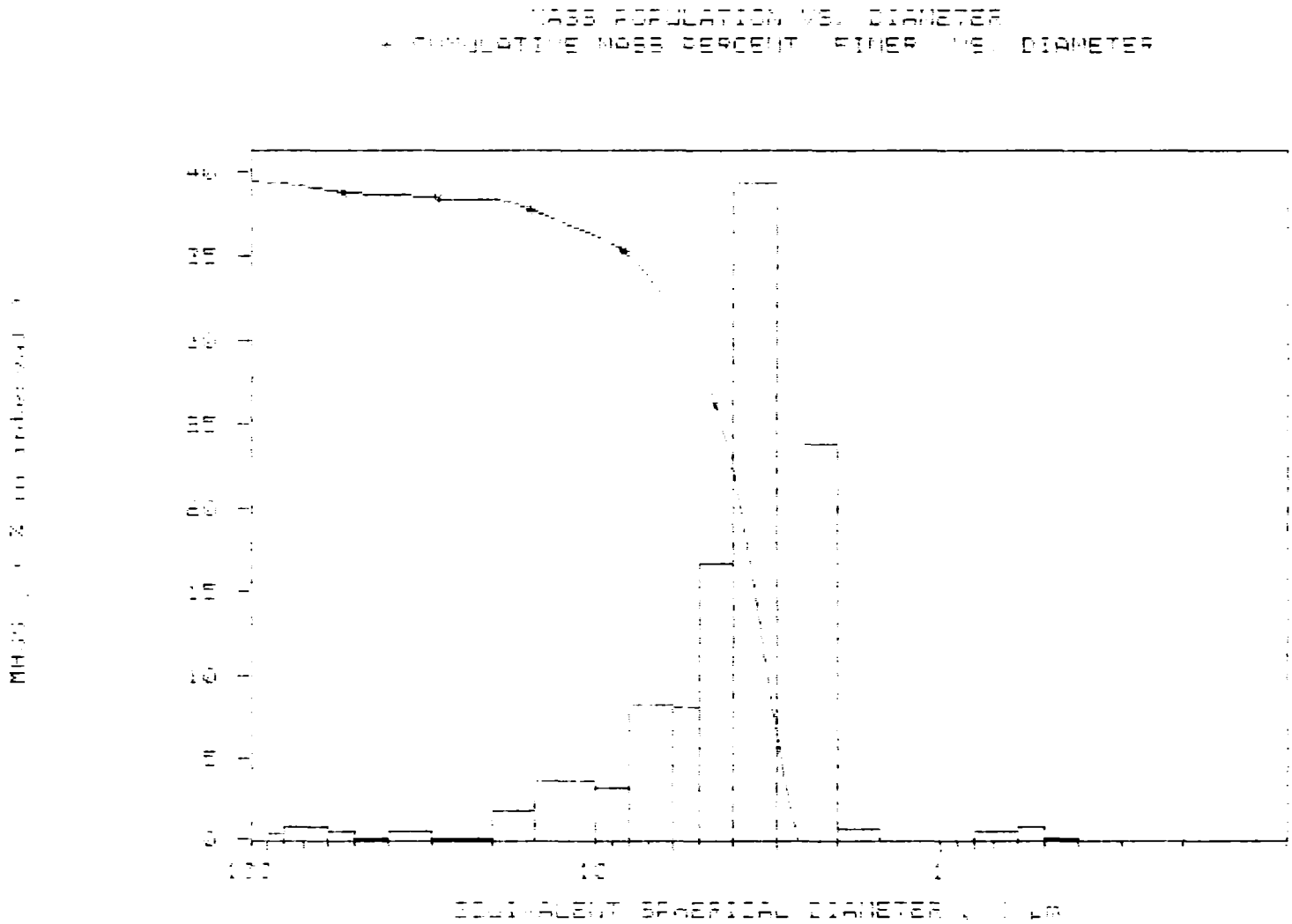
SAMPLE DIRECTORY/NUMBER: DATA8 /50
SAMPLE ID: Hole 89-12 # 17313
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 103 kilocounts/sec

UNIT NUMBER: 1
START 14:59:09 12/13/94
REPRT 15:07:11 12/13/94
TOT RUN TIME 0:07:45
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7633 cp
RUN TYPE: High Speed



SAMPLE DIRECTORY/NUMBER: DATA8 /50
SAMPLE ID: Hole 89-12 # 17313
SUBMITTER: MRC Inc.
OPERATOR: KM
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 32.3 deg C
BASELINE/FULL SCALE: 124/ 103 kilocounts/sec

UNIT NUMBER: 1
START 14:59:09 12/13/94
REPRT 15:07:11 12/13/94
TOT RUN TIME 0:07:45
SAM DENS: 2.6000 g/cc
LIQ DENS: 0.9950 g/cc
LIQ VISC: 0.7633 cp
RUN TYPE: High Speed



Planned

Sedigraphs	44 × $130	=	$5720
Rotaps	44 × $105	=	$4620
moistures	44 × $45	=	$1980
			$12320

MINERAL RESEARCH CANADA

TEL:(705) 378-2416
FAX:(705) 378-5123

1 INDUSTRIAL BLVD.,RR2
PARRY SOUND, ON. CANADA
P2A 2W8

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %
Hole 92-11	+ 4	0.9	
	+ 40	67.9	
	+100	16.3	3.7
16751	+200	2.2	
	+325	1.0	
	-325	11.7	
	+ 4	1.3	
	+ 40	55.3	
	+100	16.4	
16752	+200	3.0	7.0
	+325	1.5	
	-325	22.5	
	+ 4	3.5	
	+ 40	55.8	
	+100	10.4	
16753	+200	3.6	9.3
	+325	1.8	
	-325	24.9	
	+ 4	0	
	+ 40	5.5	
	+100	1.3	
16754	+200	0.4	18.2
	+325	0.7	
	-325	92.1	
	+ 4	0	
	+ 40	0	
	+100	1.9	
16755	+200	2.3	16.8
	+325	7.1	
	-325	88.7	

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R. Meimstrem

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1 INDUSTRIAL BLVD.,RR2
PARRY SOUND, ON. CANADA
P2A 2W8

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %
Hole 92-11	+ 4	0	
	+ 40	0	
	+100	0.1	
16756	+200	0.1	17.8
	+325	0.2	
	-325	99.6	
	+ 4	0	
	+ 40	0.1	
	+100	1.4	
	+200	4.4	13.7
16757	+325	4.1	
	-325	90.0	
	+ 4	3.7	
	+ 40	70.4	
	+100	16.5	
	+200	1.0	6.8
16758	+325	3.2	
	-325	5.2	
	+ 4	0.1	
	+ 40	27.1	
	+100	21.2	
	+200	13.8	13.2
16759	+325	3.8	
	-325	32.0	
	+ 4	12.9	
	+ 40	66.5	
	+100	10.1	
	+200	3.0	3.9
16760	+325	1.0	
	-325	6.5	

DATE L. Mattstrom

MINERAL RESEARCH CANADA

TEL:(705) 378-2416
FAX:(705) 378-5123

1 INDUSTRIAL BLVD.,RR2
PARRY SOUND, ON. CANADA
P2A 2W8

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %
dhole 92-11	+ 4	16.4	
	+ 40	58.6	
	+100	12.8	5.5
16761	+200	2.6	
	+325	1.0	
	-325	8.6	
	+ 4	6.0	
	+ 40	49.1	
	+100	21.6	7.8
16762	+200	6.2	
	+325	2.2	
	-325	14.9	
	+ 4	3.3	
	+ 40	59.9	
	+100	17.7	8.5
16763	+200	3.3	
	+325	1.0	
	-325	14.8	
	+ 4	18.5	
	+ 40	48.7	
	+100	16.1	10.4
16764	+200	3.3	
	+325	1.1	
	-325	12.3	
	+ 4	6.4	
	+ 40	52.0	
	+100	28.2	11.0
16765	+200	2.3	
	+325	0.7	
	-325	10.4	

MINERAL RESEARCH CANADA
FAX (705) 378-5123 TEL (705) 378-2416
DATE R. McIntosh

578

MINERAL RESEARCH CANADA

TEL:(705) 378-2416
FAX:(705) 378-5123

1 INDUSTRIAL BLVD.,RR2
PARRY SOUND, ON. CANADA
P2A 2W8

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %
Hole 92-11	+ 4	0	
	+ 40	72.8	
	+100	13.8	
	+200	1.5	5.3
16766	+325	0.7	
	-325	11.2	
	+ 4	0.5	
	+ 40	43.2	
	+100	42.9	
	+200	1.7	10.2
16767	+325	0.8	
	-325	10.9	
	+ 4	0.1	
	+ 40	68.6	
	+100	19.2	
	+200	1.7	6.5
16768	+325	0.7	
	-325	9.7	
	+ 4	17.6	
	+ 40	57.8	
	+100	11.6	
	+200	2.0	5.5
16769	+325	0.9	
	-325	10.1	
	+ 4	18.4	
	+ 40	56.7	
	+100	12.3	
	+200	2.8	6.4
16770	+325	1.0	
	-325	8.8	

DATE

MINERAL RESEARCH CANADA

TEL:(705) 378-2416
FAX:(705) 378-5123

1 INDUSTRIAL BLVD.,RR2
PARRY SOUND, ON. CANADA
P2A 2W8

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %
Hole 92-11	+ 4	13.6	
	+ 40	50.9	
	+100	12.6	6.1
	+200	5.0	
16771	+325	1.5	
	-325	16.4	
	+ 4	34.7	
	+ 40	38.9	
	+100	9.2	5.3
	+200	2.4	
16772	+325	1.0	
	-325	13.8	
	+ 4	48.1	
	+ 40	35.4	
	+100	8.6	
	+200	1.6	2.5
16773	+325	0.6	
	-325	5.7	
	+ 4	0.5	
	+ 40	30.0	
	+100	46.0	11.9
	+200	3.9	
16774	+325	1.3	
	-325	18.3	
	+ 4	0.3	
	+ 40	64.9	
	+100	25.0	9.5
	+200	2.5	
16775	+325	0.6	
	-325	6.7	

K. Malmström 1/75

MINERAL RESEARCH CANADA

TEL:(705) 378-2416
FAX:(705) 378-5123

1 INDUSTRIAL BLVD.,RR2
PARRY SOUND, ON. CANADA
P2A 2W8

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %
Hole 92-11 16776	+ 4	0.6	
	+ 40	62.6	
	+100	24.2	6.7
	+200	3.2	
	+325	0.8	
	-325	8.6	
16777	+ 4	5.0	
	+ 40	59.0	
	+100	17.2	2.8
	+200	3.5	
	+325	1.1	
	-325	14.2	
16778	+ 4	0	
	+ 40	55.2	
	+100	32.3	9.4
	+200	3.1	
	+325	1.1	
	-325	8.3	
16779	+ 4	0.4	
	+ 40	50.9	
	+100	35.6	10.5
	+200	4.5	
	+325	1.3	
	-325	7.3	
16780	+ 4	1.9	
	+ 40	67.6	
	+100	19.0	7.0
	+200	3.0	
	+325	1.0	
	-325	7.5	

FAX (705) 378-5123 TEL (705) 378-2416
DATE N. Malmstrom

MINERAL RESEARCH CANADA

TEL:(705) 378-2416
FAX:(705) 378-5123

1 INDUSTRIAL BLVD.,RR2
PARRY SOUND, ON. CANADA
P2A 2W8

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %
Hole 92-11	+ 4	1.2	
	+ 40	67.7	
	+100	14.8	
16781	+200	2.4	6.1
	+325	1.0	
	-325	12.9	
	+ 4	31.6	
	+ 40	41.3	
	+100	10.1	
16782	+200	1.5	6.5
	+325	0.7	
	-325	14.8	
	+ 4	13.5	
	+ 40	20.8	
	+100	54.9	
16783	+200	1.3	9.7
	+325	0.5	
	-325	4.0	
	+ 4	1.4	
	+ 40	45.5	
	+100	31.3	
16784	+200	8.9	10.1
	+325	1.3	
	-325	11.6	
	+ 4	0	
	+ 40	20.8	
	+100	14.4	
16785	+200	7.7	12.2
	+325	3.1	
	-325	54.0	

K. Malmstrom

575

MINERAL RESEARCH CANADA

TEL:(705) 378-2416
FAX:(705) 378-5123

1 INDUSTRIAL BLVD.,RR2
PARRY SOUND, ON. CANADA
P2A 2W8

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %
Hole 92-11 16786	+ 4	0.2	
	+ 40	80.9	
	+100	8.0	4.5
	+200	2.3	
	+325	0.9	
	-325	7.7	
16787	+ 4	12.0	
	+ 40	62.4	
	+100	12.9	4.5
	+200	2.3	
	+325	0.8	
	-325	9.6	
16788	+ 4	29.8	
	+ 40	28.1	
	+100	21.3	4.0
	+200	4.4	
	+325	1.4	
	-325	15.0	
16789	+ 4	14.8	
	+ 40	48.5	
	+100	22.1	5.3
	+200	3.3	
	+325	0.9	
	-325	10.4	
16790	+ 4	0	
	+ 40	0.4	
	+100	4.7	9.8
	+200	4.7	
	+325	3.9	
	-325	86.3	

H. Malmstrom

578

MINERAL RESEARCH CANADA
TEL:(705) 378-2416
FAX:(705) 378-5123
1 INDUSTRIAL BLVD.,RR2
PARRY SOUND, ON. CANADA
P2A 2W8

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %
Hole 92-11	+ 4	0	
	+ 40	0.1	
	+100	0.4	
16791	+200	3.6	17.7
	+325	6.9	
	-325	89.6	
	+ 4	0	
	+ 40	0.1	
	+100	0.3	9.3
	+200	3.5	
16792	+325	10.3	
	-325	85.3	
	+ 4	0	
	+ 40	0.2	
	+100	0.4	
	+200	0.6	17.4
16793	+325	0.7	
	-325	98.1	
	+ 4	1.4	
	+ 40	1.4	
	+100	0.7	
	+200	1.9	16.8
16794	+325	2.9	
	-325	91.7	
	+ 4		
	+ 40		
	+100		
	+200		
	+325		
	-325		

DATE

42J01NE0015 2.15956 KIPLING

040

000078

ROTARY DRILL HOLE RECORD

Drilling Started: Dec. 17, 1988
Drilling Finished: Dec. 18, 1988
Drilling Co: Midwest
Dip Collar: -90°
Claim No.: P 900047
Hole Length: 195.0'
Overburden Depth: 104.5'
Easting: 4030 E
Northing: 015 S
Azimuth: 50° 08' 48" N, 82° 10' 12" W
Location: 2330.0' at 223° to Claim Post No. 1
Property: Kipling

Logged by: A. Casselman
Logged: April 29, 1991
Core Size: 3.5"
Core Storage:
Mineral Research Canada Inc.
R. R. # 2
Parry Sound ON P2A 2W8
Hole No.: PJ88-1

2.15956

SUMMARY

From	To	Description	
0.0'	0.5'	Peat	
0.5'	5.0'	Lacustrine Clay	
5.0'	6.0'	Kaolin Silica Sand	
6.0'	104.5'	Glacial Sandy Clay Till	Pleistocene
104.5'	139.75'	Kaolin Silica Sand (Kss)	Cretaceous
139.75'	145.0'	Sandy Clay	
145.0'	146.0'	Kss	
146.0'	155.0'	Clay	
155.0'	160.0'	Sandy Clay	
160.0'	195.0'	Kss	

RECEIVED
APR 26 1995
MINING LANDS BRANCH

MINERAL RESEARCH
CANADA
INDUSTRIAL B1 VO. RR2
PARRY SOUND, ONTARIO
CANADA P2A 2W8
FAX (705) 378-5123 BUS (705) 378-2416

DATE

EOH - 195.0'

Detail Log - PJ88-1

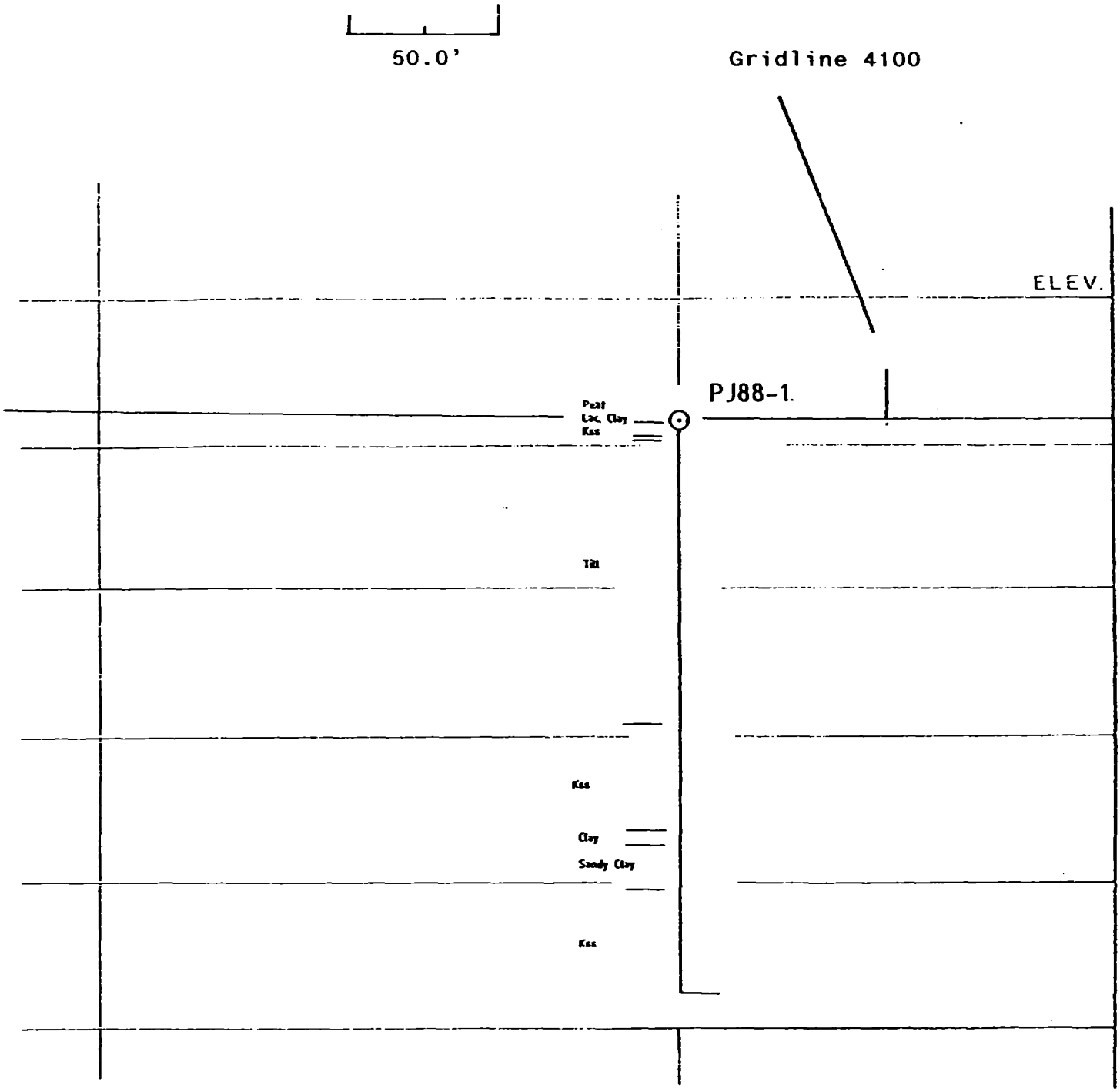
From	To	Sample No.	Description
0.0'	0.5'		Peat - black and dark red/brown, root material.
0.5'	5.0'		Lacustrine Clay - competent, fissile, conchoidal fracture, medium brown, calcareous.
5.0'	6.0'		Kss - light brown, medium grain, calcareous, ripped up as a glacial frozen block.
6.0'	100.0'		Glacial Clay Till - calcareous, dark green brown, highly competent, 2.0 - 5.0% carbonate clasts, 10.0% gneissic clasts from 0.25" - 1.5", small amount of medium brown Cretaceous clay.
100.0'	104.5'		Glacial Sandy Clay Till - medium grain, much siliceous material - contact zone with kss, calcareous.
104.5'	110.0'	4751	Kss - medium grain, light brown, grading to white, entire hole dried, 6.71% kaolin.
110.0'	113.0'	4752	Kss - as above, 6.53% kaolin.
113.0'	118.0'	4753	Kss - as above, 7.80% kaolin.
118.0'	122.0'	4754	Kss - as above, 9.27% kaolin.
122.0'	126.0'	4755	Kss - as above, 8.71% kaolin.
126.0'	130.0'	4756	Kss - as above, 7.16% kaolin.
130.0'	135.0'	4757	Kss - medium grain, light brown, minor heavies and illite, moist, 6.71% kaolin.
135.0'	138.0'	4758	Kss - medium grain grading to coarse, medium brown, clay-rich, 9.39% kaolin.
138.0'	139.75'	4759	Kss - coarse grain, light grey, 7.49% kaolin.
139.75'	145.0'	4760	Sandy Clay - competent, disc-like, fine grain, buff, high illite content, much finer grain downsection, 57.42% kaolin.
145.0'	146.0'	4761	Kss - medium grain, light brown, 30.30% kaolin.

146.0'	150.0'	4762	Clay - competent, disc-like, greasy, buff to chocolate brown, 82.99% kaolin.
150.0'	155.0'	4763	Clay - competent, disc-like greasy, chocolate brown, carbonaceous, slight exterior crystal growth, 84.46% kaolin.
155.0'	159.0'	4764	Sandy Clay - competent, fissile, fine grain, medium brown, minor illite, grading to clay - competent, disc-like, greasy, chocolate brown, exterior crystal growth, 49.70% kaolin.
159.0'	160.0'	4765	Sandy Clay - competent, fissile, fine grain, medium brown, minor illite, 37.65% kaolin.
160.0'	161.0'	4766	Kss - medium grain, medium brown, some previous flowage from the bag, 6.61% kaolin.
161.0'	166.0'	4767	Kss - medium grain, light brown, 6.66% kaolin.
166.0'	169.0'	4768	Kss - as above, 1.0" clay seam at 166.75', medium brown, fissile, 21.01% kaolin.
169.0'	174.0'	4769	Kss - medium grain, light brown, 5.54% kaolin.
174.0'	179.0'	4770	Kss - as above, sulphureous smell, some yellow and pink exterior staining, 12.43% kaolin.
179.0'	184.0'	4771	Kss - medium grain, white, 13.09% kaolin.
184.0'	189.0'	4772	Kss - medium grain, light brown, 11.22% kaolin.
189.0'	195.0'	4773	Kss - as above, 6.48% kaolin.

EOH - 195.0'

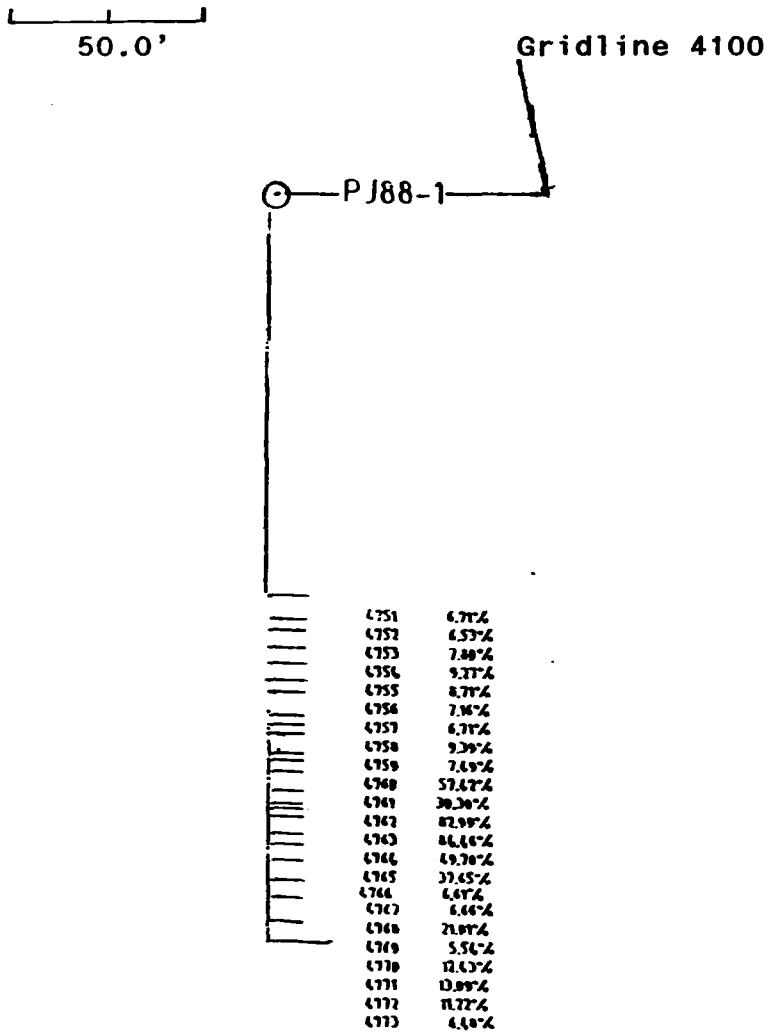
Section PJ88-1

Claim No.: P 900047
Hole Length: 195.0'
Overburden Depth: 104.5'
Astronomic Azimuth: 50° 08' 48" W. 82° 10' 12" N
Location: 2330.0' at 233° to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 015 S
Easting: 4030 E
Dip: -90°



Section PJ88-1

Claim No.: P 900047
Hole Length: 195.0'
Overburden Depth: 104.5'
Astronomic Azimuth: 50° 08' 48" N, 82° 10' 12" W
Location: 2330.0' at 233° to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 015 S
Easting: 4030 E
Dip: -90°



2.1595

000078

ROTARY DRILL HOLE RECORD

Drilling Started: November 8, 1988
Drilling Finished: November 9, 1988
Drilling Co.: Midwest
Dip Collar: -90°
Hole Length: 240.0'
Overburden Depth: 93.5'
Claim No.: T 21586, Patented
Easting: 380 E
Northing: 275 N
Azimuth: 50° 08' 57" N, 82° 13' 42" W
Location: 1300.0' at 227° To Claim Post No. 1
Property: Douglas/Kipling

RECEIVED
APR 26 1995
MINING LANDS BRANCH

Logged By: A. Casselman
Logged: October 2, 1991
Core Size: 3.5"
Core Storage:
Mineral Research Canada
R. R. # 2
Parry Sound, On
P2A 2W8
Hole Number: 88-3

SUMMARY

From	To	Description	
0.0'	15.0'	Fluvial Sediments	
15.0'	92.0'	Glacial Clay Till	
92.0'	93.5'	Contact Zone	Pleistocene - Overburden
93.5'	101.5'	Clay	Cretaceous
101.5'	103.0'	Clay & Kaolin Silica Sand (Kss)	
103.0'	115.0'	Lost Core	
115.0'	120.0'	Clay and Kss	
120.0'	125.0'	Kss	
125.0'	128.0'	Sandy Clay	
128.0'	152.0'	Kss	
152.0'	155.0'	Clay	
155.0'	173.0'	Sandy Clay	
173.0'	240.0'	Kss	

Anne Casselman
Feb 1, 1995

EOH - 240.0'

Detail Log 88-3

From	To	Sample No.	Description
0.0	15.0'		Fluvial Sediments - massive, pliable clay, very fine grain, medium brown to buff, 11.0' - 15.0' - grey to green/grey, clast-free.
15.0'	92.0'		Glacial Clay Till - greenish grey, competent, calcareous, carbonate and gneissic clast up to 20.0%, from 0.25" - 3.0", areas of dark brown nearly black - 37.5' - 56.5'.
92.0'	93.5'		Contact Zone - at 92.0' Glacial contact - crumbly, medium grain, sandy glacial clay till, green/brown, grey sub-angular siltstones up to 2", calcareous.
93.5'	95.0'	15451	Clay - fissile, yellow/brown grading to orange/red competent, 53.32% kaolin.
95.0'	98.5'	15452	Clay - weakly disc-like to fissile, competent, grey and red mottled, 63.13% kaolin.
98.5'	101.5'	15453	Clay - fissile, grey & orange mottled to yellow & grey mottled to light grey, competent, 58.10% kaolin.
101.5'	103.0'	15454	Clay & Kss - interbedded, medium brown clay band, fissile, at 102.0' to 102.25', medium grain, medium brown Kss, minor illite, 27.98% kaolin.
103.0'	115.0'		LOST CORE - not present in field log.
115.0'	120.0'	15455	Clay & Kss - minor Sandy Clay seam, light grey, medium grain, red/brown, fissile, minor illite, 6.22% kaolin.
120.0'	125.0'	15456	Kss - fine grain, rare larger sub-angular smoky quartz clasts, minor heavies and illite light brown, drilling debris, 9.52% kaolin.
125.0'	132.0'	15457	Kss - completely contaminated, extremely fine grain, red/brown exterior, medium grey interior, extremely high moisture retention becoming coarse grain, white, minor heavies and illite, 7.70% kaolin.

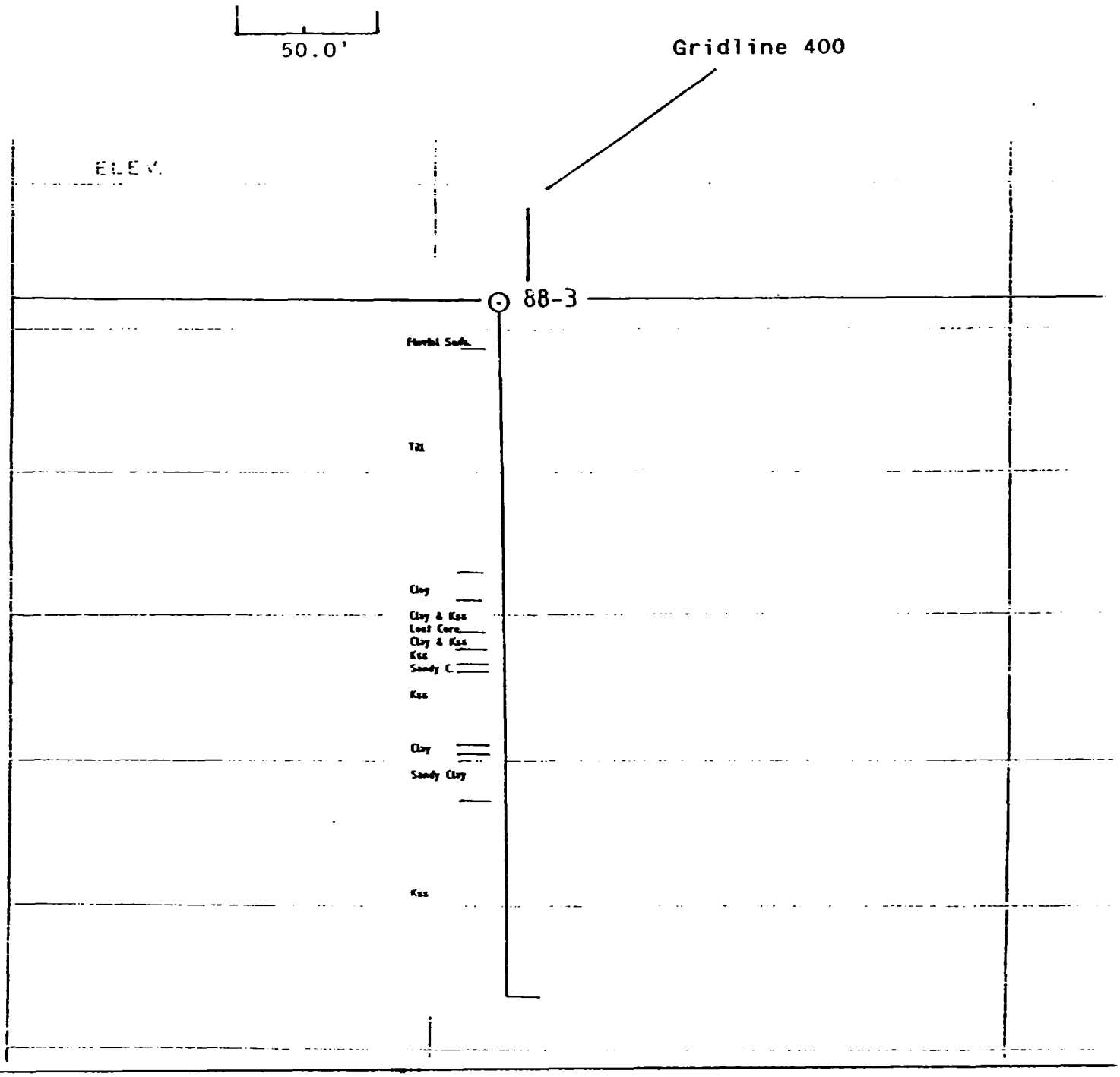
132.0'	138.0'	15458	Kss - coarse grain grading downsection to medium, white, minor heavies and illite, drilling debris, vari-coloured silica, 8.75% kaolin.
138.0'	145.0'	15459	Kss - medium grain, coarsening downsection, medium grey grading to white, minor heavies and illite, 5.62% kaolin.
145.0'	147.5'	15460	Kss - as above, dried, 10.71% kaolin.
147.5'	152.0'	15461	Kss - medium grain, white, minor heavies, sandy clay seam at 149.5', medium brown, with high illite, 10.13% kaolin.
152.0'	155.0'	15462	Clay - competent, disc-like, greasy, yellow & grey mottled, 55.62% kaolin.
155.0'	160.0'	15463	Sandy Clay - competent, fine grain, medium grey to buff, with areas of yellow & red haematite staining, minor illite, 48.81% kaolin.
160.0'	167.0'	15464	Sandy Clay - competent, buff, minor heavies & illite, 48.89% kaolin.
167.0'	173.0'	15465	Sandy Clay - slight Kss interbed at 169.0' of 2.0", light grey, minor heavies & illite, 27.56% kaolin.
173.0'	178.0'	15466	Kss - coarse grain, yellow brown, minor heavies & illite, 10.03% kaolin.
178.0'	181.5'	15467	Kss - medium grain, white, minor heavies & illite, drilling debris, 12.05% kaolin.
181.5'	185.0'	15468	Kss - medium grain, few larger clasts, light brown, minor heavies & illite, 10.91% kaolin.
185.0'	193.0'	15469	Kss - as above, white, drilling debris, 9.77% kaolin.
193.0'	200.0'	15470	Kss - medium grain, as above, drilling debris, 11.11% kaolin.
200.0'	205.0'	15471	Kss - as above, 6.38% kaolin.
205.0'	209.0'	15472	Kss - as above, 4.61% kaolin.
209.0'	215.0'	15473	Kss - as above, 4.53% kaolin.

215.0'	220.0'	15474	Kss - medium grain, yellow/brown, minor heavies and illite, 5.16% kaolin.
220.0'	225.0'	15475	Kss - coarse grain, fining downsection to medium grain, light brown, minor heavies and illite, 9.59% kaolin.
225.0'	230.0'	15476	Kss - fine grain coarsening downsection to medium, light brown, minor heavies and illite, 4.0% kaolin.
230.0'	236.0'	15477	Kss - medium grain, white, minor heavies & illite, drill core gouging, 12.94% kaolin.
236.0'	240.0'	15478	Kss - as above, drill core gouging, 18.28% kaolin.

EOH - 240.0'

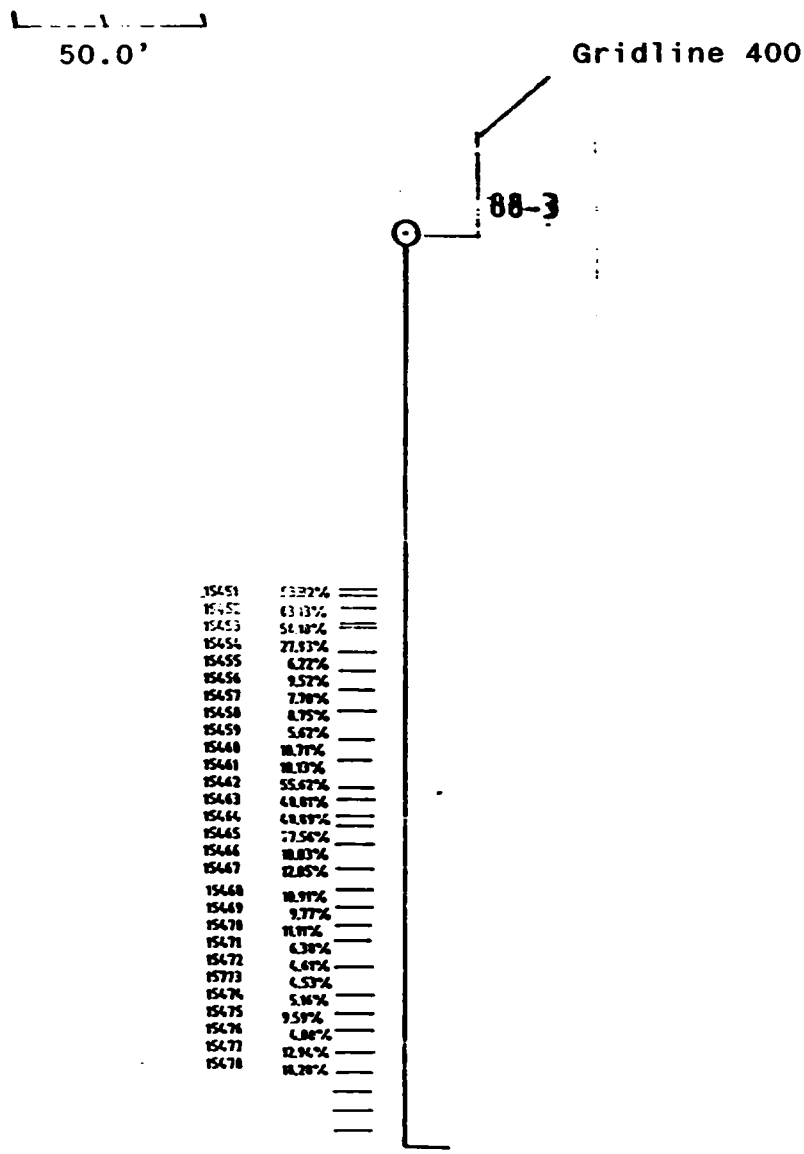
Section 88-3

Claim No.: T 2~~15~~86, Patented
Hole Length: 240.0'
Overburden Depth: 93.5'
Astronomic Azimuth: 50° 08' 57" W. 82° 13' 42" N
Location: 1300.0' at 227° to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 275 N
Easting: 380 E
Dip: -90°



Section 88-3

Claim No.: T 215.86, Patented
Hole Length: 240.0'
Overburden Depth: 93.5'
Astronomic Azimuth: 50° 08' 57" N, 82° 13' 42" W
Location: 1300.0' at 227° to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 275 N
Easting: 380 E
Dip: -90°



2.1595 6 000078

ROTARY DRILL HOLE RECORD

Drilling Started: Nov. 11, 1988
Drilling Finished: Nov. 12, 1988
Drilling Co.: Midwest
Dip: -90°
Hole Length: 238.0'
Overburden Depth: 110.0'
Claim No.: P 91135, Leased
Easting: 385 W
Northing: 1200 N
Azimuth: 50° 09' 23" N, 82° 14' 09" W
Location: 550.0' at 236° to Claim Post No. 1
Property: Douglas/Kipling

Logged By: A. Casselman
Logged: April 10, 1989
Core Size: 3.5"
Core Storage:
Mineral Research Canada
R. R. # 2
Parry Sound ON P2A 2W8
Hole No.: D88-4

RECEIVED
APR 26 1995
MINING LANDS BRANCH

SUMMARY

From	To	Description	
0.0'	16.0'	Fluvial Sediments	
16.0'	110.0'	Glacial Clay Till	- Overburden - Pleistocene
110.0'	219.75'	Kaolin Silica Sand (kss)	Cretaceous
219.75'	238.0'	Clay	

EOH - 238.0'

MINERAL RESEARCH CANADA
Anne Casselman
1995

Detail Log - D88-4

From	To	Sample No.	Description
0.0'	16.0'		Fluvial Sediments - medium brown to buff, very fine grain, pliable, clast-free, silty near basal contact.
16.0'	110.0'		Glacial Sandy Clay - fine grain, medium green/brown, very small 35.0% Pre-Cambrian and 2.0 - 5.0% carbonate clasts, larger than 0.25", 26.0' - 68.0' - becoming silty and clast-free, and again near the lower contact, calcareous.
110.0'	115.0'	17351	Kss - medium grain, medium grey, entire hole dried, 8.18% kaolin.
115.0'	123.0'	17352	Kss - coarse grain, highly angular vari-coloured silica, light brown, 3.83% kaolin.
123.0'	130.0'	17353	Kss - medium grain, medium brown, 6.22% kaolin.
130.0'	135.0'	17354	Kss - medium grain, medium grey, 7.70% kaolin.
135.0'	139.0'	17355	Kss - medium grain, medium brown, 7.56% kaolin.
139.0'	143.0'	17356	Kss - as above, 6.65% kaolin.
143.0'	146.5'	17357	Kss - coarse grain, light brown, shale fragments, very dark green near black, highly angular, nearly square, very thin, 6.70% kaolin.
146.5'	150.0'	17358	Kss - coarse grain, white, 6.46% kaolin.
150.0'	155.0'	17359	Kss - coarse grain, medium brown, 6.70% kaolin.
155.0'	159.0'	17360	Kss - medium grain, light brown, 5.55% kaolin.
159.0'	162.0'	17361	Kss - medium grain, light grey, minor heavies and illite, moist, large amount of material for indicated footage, 6.22% kaolin.
162.0'	167.0'	17362	Kss - coarse grain, medium grey to very light grey, 9.13% kaolin.

167.0'	172.0'	17363	Kss - medium grain, light brown, minor heavies and illite, 4.78% kaolin.
172.0'	177.0'	17364	Kss - medium grain, lighter brown, minor heavies & illite, moist, sulphureous smell, exterior crystal growth on exposed core, sulphur yellow, 6.65% kaolin.
177.0'	182.0'	17365	Kss - medium grain, white, sulphureous smell, 8.18% kaolin.
182.0'	186.0'	17366	Kss - as above, 8.94% kaolin.
186.0'	191.0'	17367	Kss - medium grain, white, sulphureous smell, minor heavies and illite, moist, 10.14% kaolin.
191.0'	195.0'	17368	Kss - as above, 6.60% kaolin.
195.0'	200.0'	17369	Kss - medium grain, white, sulphureous smell, yellow exterior staining, 7.03% kaolin.
200.0'	206.0'	17370	Kss - coarse grain in a white clay matrix, drill core gouging, 13.77% kaolin.
206.0'	210.0'	17371	Kss - as above, 14.78% kaolin.
210.0'	216.0'	17372	Kss - medium grain, medium brown, minor heavies and illite, moist, drilling debris, 15.30% kaolin.
216.0'	219.75'	17373	Kss - medium grain, medium brown, yellow at lower contact, no lid on box, entirely contaminated, 9.28% kaolin.
219.75'	220.0'	17374	Clay - high concentration of hematite nodules, very dark canary yellow at upper contact, competent, 27.31% kaolin.
220.0'	222.5'	17375	Clay & Kss - interbedded, competent, medium brown clay and medium brown, medium grain kss, 32.33% kaolin.
222.5'	225.0'	17376	Clay - competent, disc-like, medium brown, 77.71% kaolin.
225.0'	230.0'	17377	Clay - red/brown mottled to light grey and light yellow mottled (carbonaceous), to very light yellow, 77.47% kaolin.
230.0'	235.0'	17378	Clay - competent, disc-like, light grey & yellow mottled to red and darker grey

			mottled, carbonaceous, 82.26% kaolin.
235.0'	238.0'	17379	Clay - one Sandy Clay seam at 237.0' - 237.25' (light grey, competent), red, competent, disc-like, drill core gouging, 69.34% kaolin.

EOH - 238.0'

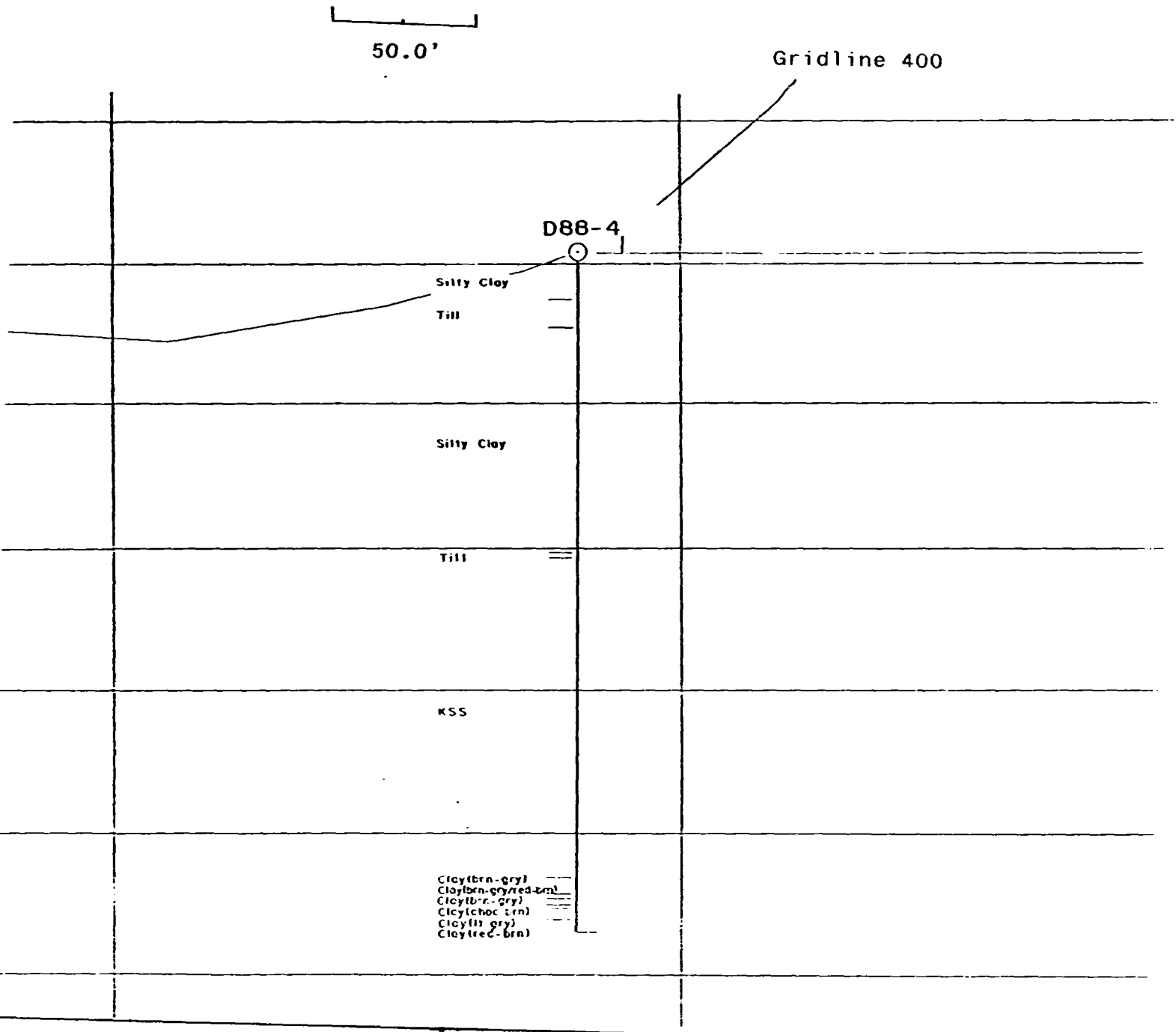
Section D88-4

Claim No.: P 91135, Leased
Hole Length: 238.0'
Overburden Depth: 110.0'
Astronomic Azimuth: 50° 09' 23" N, 82° 14' 09" W
Location: 550.0' at 236° to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 1200 N
Easting: 385 E
Dip: -90°

50.0' Gridline 400

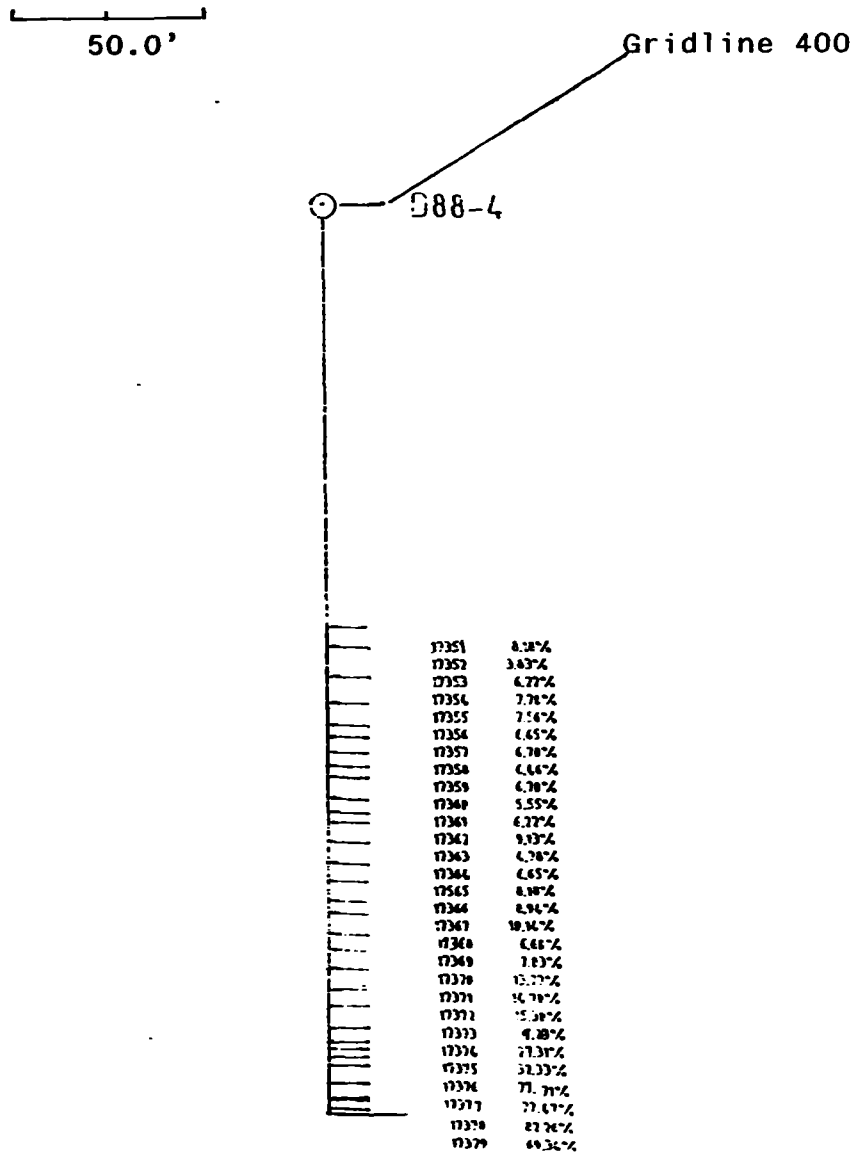
Section D88-4

Claim No.: P 91135, Leased
Hole Length: 238.0'
Overburden Depth: 110.0'
Astronomic Azimuth: 50° 09' 23" W. 82° 14' 09" N
Location: 550.0' at 236° to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 1200 N
Easting: 385 E
Dip: -90°



Section D88-4

Claim No.: P 91135, Leased
Hole Length: 238.0'
Overburden Depth: 110.0'
Astronomic Azimuth: 50° 09' 23" N, 82° 14' 09" W
Location: 550.0' at 236° to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 1200 N
Easting: 385 E
Dip: -90°



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RECEIVED
APR 2 6 1995
MINING LANDS BRANCH

000078

ROTARY DRILL HOLE RECORD

Drilling Started: Nov. 14, 1988
Drilling Finished: Nov. 14, 1989
Drilling Co.: Midwest
Dip: -90°
Hole length: 250.0'
Overburden Depth: 85.0'
Claim No.: T 21582, Patented
Easting: 300 W
Northing: 1095 N
Azimuth: 50° 09' 19" N, 82° 14' 08" W
Location: 1650.0' at 236° to Claim Post No. 1
Property: Douglas/Kipling

Logged By: A. Casselman
Logged: April 7, 1989
Core Size: 3.5"
Core Storage:
Mineral Research Canada
R. R. # 2
Parry Sound ON P2A 2W8
Hole No.: D88-8

Summary

From	To	Description	
0.0'	77.0'	Glacial Clay Till	
77.0'	80.0'	Gravel	
80.0'	85.0'	Glacial Clay Till - Overburden	- Pleistocene
85.0'	199.0'	Kaolin Silica Sand (Kss)	Cretaceous
199.0'	204.0'	Kss & Clay	
204.0'	234.0'	Clay	
234.0'	240.0'	Kss, Sandy Clay & Clay	
240.0'	250.0'	Sandy Clay & Clay	

MINERAL RESEARCH
CANADA
1 INDUSTRIAL BLVD. R.R.2
PARRY SOUND, ONTARIO
CANADA P2A 2W8
FAX (705) 378-5123 BUS (705) 378-2416
DATE

EOH - 250.0'

Detail Log D88-8

From	To	Sample No.	Description
0.0'	77.0'		Glacial Clay Till - grey and brown, very fine grain silt content, massive, competent, fissile.
77.0'	80.0'		Gravel - grey, coarse grain.
80.0'	85.0'		Glacial Clay Till - green/grey, competent, 3.0 - 5.0% carbonate clasts, 10.0% gneissic clasts, generally larger than 0.25".
85.0'	97.0'	3501	Kss - medium grain, yellow brown, poor quality due to overburden contamination, much material out of the box. 8.22% kaolin.
97.0'	100.0'	3502	Kss - fine grain, white, 97.0' - 97.5', 97.5' - 100.0' darker brown. 2.23% kaolin.
100.0'	105.0'	3503	Kss - dark brown, medium grain, as above. 5.02% kaolin.
105.0'	110.0'	3504	Kss - as above, rare silica clasts up to 0.5". 6.76% kaolin.
110.0'	115.0'	3505	Kss - as above. 6.58% kaolin.
115.0'	120.0'	3506	Kss - as above, 116.0' - 116.25', coarse grain, purple, with 0.5" clay clots - white, pliable. 14.96% kaolin.
120.0'	125.0'	3507	Kss - white, medium grain, minor yellow chert, angular, drill core gouging, 7.41% kaolin.
125.0'	130.0'	3508	Kss - as above, except 125.0' - 126.0' which is light to medium brown, with infrequent larger sub-angular smoky quartz clasts, 6.22% kaolin.
130.0'	135.0'	3509	Kss - as above, slightly coarser than above, 135.0' - 136.0', medium yellow/brown, moist, stale smell, 136.0 - 140.0', nearly white, dried, medium grain, becoming finer, higher clay content than at 135.0' - 136.0', 6.89% kaolin.
135.0'	140.0'	3510	Kss - as above coarser, high percentage yellow chert, minor illite and jasper, very small amount of core for indicated footage, 9.37% kaolin.

140.0'	145.0'	3511	Kss - as above, less clay, minor illite and heavies, heavies are banded and dispersed, 2.97% kaolin.
145.0'	150.0'	3512	Kss - as above, 6.12% kaolin.
150.0'	156.0'	3513	Kss - medium grain, coarsening downsection, deep yellow brown, some minor light brown, (areas of near white), drilling debris, 5.45% kaolin.
156.0'	161.0'	3514	Kss - as above, lower clay content, minor jasper, 4.59% kaolin.
161.0'	165.0'	3515	Kss - coarse grain, fining downsection to medium grain, clasts up to 1.5" sub-rounded, light grey in the coarse portion, 7.65% kaolin.
165.0'	170.0'	3516	Kss - medium grain, gradational colour change beginning yellow (sulphureous) to white to burgundy (deep red) to medium purple/green, containing minor illite and heavies, 8.66% kaolin.
170.0'	175.0'	3517	Kss - as above, (purple/green/grey) medium grain with minor illite and heavies, 9.71% kaolin.
175.0'	178.0'	3518	Kss - 175.0' -175.5' - light to medium yellow brown and grey, high moisture retention, 175.5' - 178.0' - medium grain, clay-rich and clay-poor sections, areas that are clay-rich are light brown and the remainder lighter, illitic, 14.68% kaolin.
178.0'	183.0'	3519	Kss - light grey, medium grain, minor illite and heavies (samples taken by Carlson people - Kitchener 1990), medium brown clay clots, 7.65% kaolin.
183.0'	186.0'	3520	Kss - light brown, high heavies content (as garnet or possibly hematite) banding of heavies, minor illite medium grain, 11.14% kaolin.
186.0'	191.0'	3521	Kss - medium grain, white, minor illite and heavies, slightly lower clay content than above, 6.46% kaolin.
191.0'	194.0'	3522	Kss - as above, minor tourmaline - black or hornblende - possible shale fragments, 9.18% kaolin.

194.0'	199.0'	3523	Kss - as above, low clay content, high garnet content at 198.0' - 199.0', much yellow/brown at lower contact, 6.12% kaolin.
199.0'	201.5'	3524	Kss - deep yellow /brown, medium grain, with clay clots up to 2.5" that may only be due to drilling action, near black large clasts at clay contact, up to 3.0" at 90° to the core, typically found are red siltstone conglomerate of silica (highly angular) - smoky & rarely milky and yellow silicas, 3 clasts, also high amounts of garnet and some minor tourmaline, 11.38% kaolin.
201.5'	204.0'	3525	Clay - very dark brown with fine discontinuous laminations of lighter material, some red areas, carbonaceous, pliable, 82.49% kaolin.
204.0'	210.0'	3526	Clay - highly competent, greasy, medium brown, few fine purple laminations, chocolate brown at upper contact, 83.93% kaolin.
210.0'	214.0'	3527	Clay - dried, competent, disc-like, grey at upper contact becoming grey and red mottled until 212.0', then becoming mottled with red and brown, more moist than other material, brown is nearly chocolate but more reddish, red and grey mottled material contains some fine laminations of purple, 78.67% kaolin.
214.0'	217.0'	3528	Clay - red and grey, mottled as above, dried, competent, greasy, (another Carlson sample), carbonaceous, upper foot medium grey, last foot red/brown, 72.45% kaolin.
217.0'	224.0'	3529	Clay - competent, greasy, disc-like, vari-coloured, grey and red mottled grading to red and brown mottled, to red/brown to dark grey and brown mottled, to black to light grey with yellow areas, large amount of material for the indicated footage, some material displaced into the box labelled 224.0' - 229.0', 80.10% kaolin.
224.0'	229.0'	3530	Clay - green & grey mottled to red and grey mottled to red to green/brown to medium grey, somewhat sandy in areas, dried, competent, greasy, 63.84% kaolin.

229.0'	234.0'	3531	Clay - nearly sandy - dark grey with minor red laminations, darker finer laminations, pliable, 19.83% kaolin.
234.0'	240.0'	3532	Clay, Sandy Clay & Kss - gradational from red sandy clay to medium grey sandy clay, (with lighter more silicious laminations as well as black carbonaceous laminations), to light grey, medium grain, kss, to medium grey clay with lighter sandy laminations as well as carbonaceous laminations, 42.61% kaolin.
240.0'	245.0'	3533	Clay & Sandy Clay - 240.0 - 242.0" clay - disc-like, medium grey, with lighter sandy laminations, grading into light brown, low clay sandy clay with minor illite, 54.52% kaolin.
245.0'	250.0'	3534	Clay & Sandy Clay - light grey clay - disc-like, competent, greasy, interbedded with light brown, high illite, competent, friable sandy clay, becoming green sandy clay at lower contact with the bag, 39.93% kaolin.

EOH - 250'

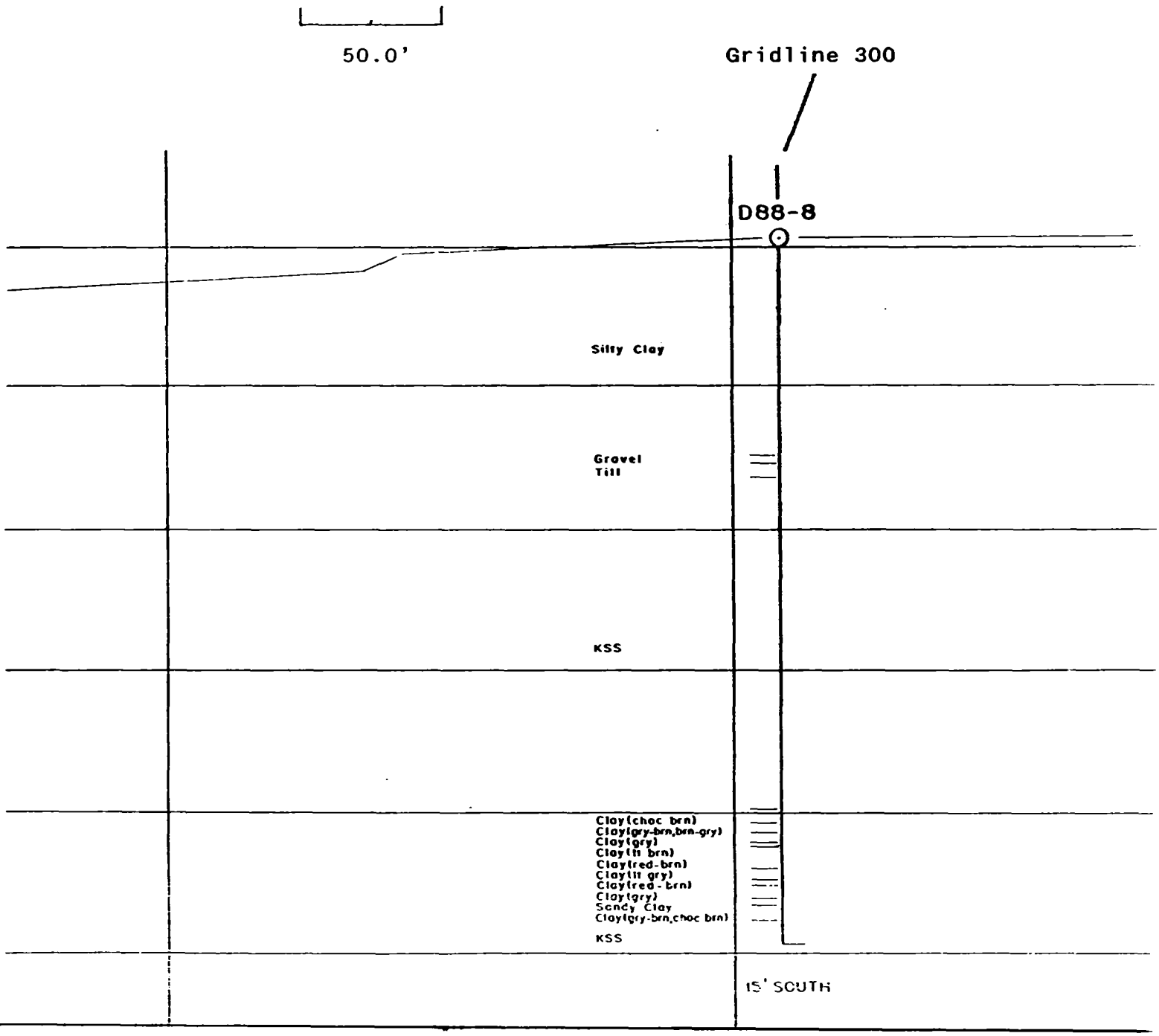
Section D88-8

Hole Length: 250.0'
Overburden Depth: 85.0'
Astronomic Azimuth: 50° 09' 19" N, 82° 14' 08" W
Location: 1650.0' at 236° to claim post no. 1
Claim No.: T 19482, Patented
Easting: 300 W
Northing: 1095 N
Dip: -90°
Scale: 1.0" = 50.0' or 1:600

50.0' Gridline 300

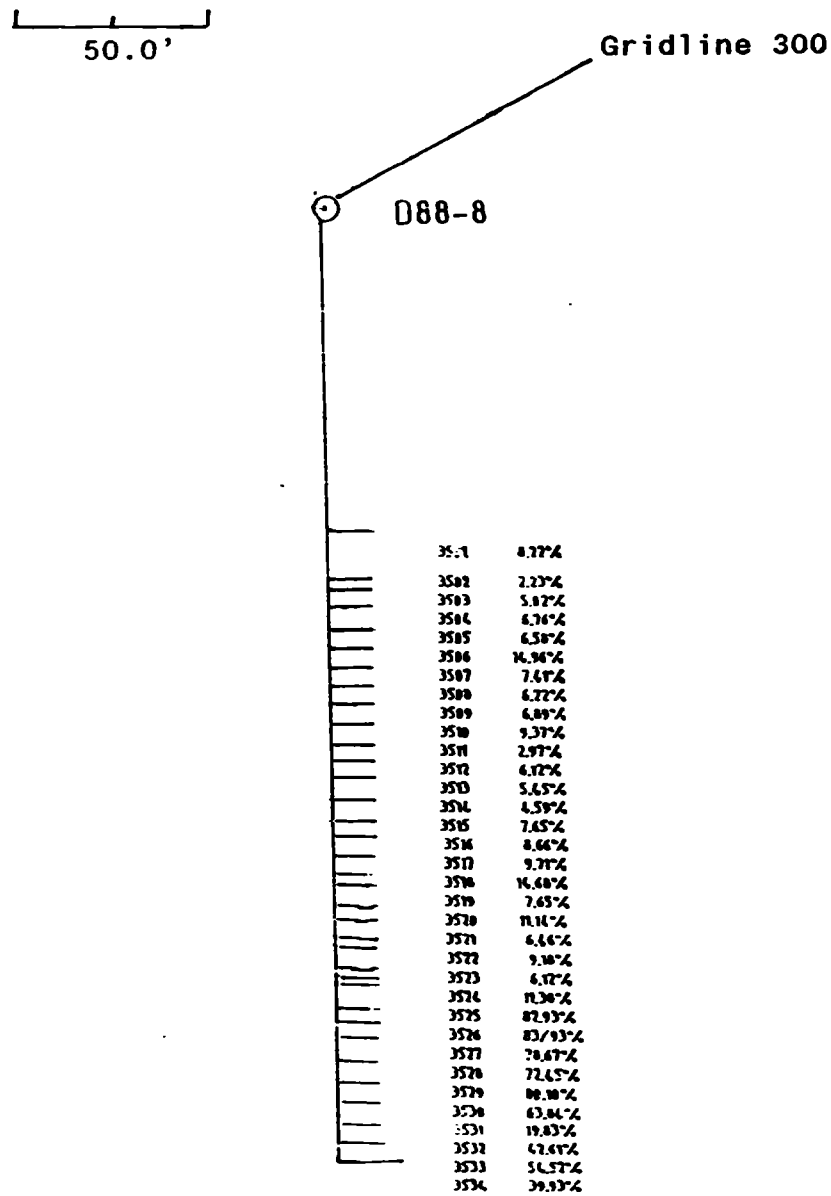
Section D88-8

Hole Length: 250.0'
Overburden Depth: 85.0'
Astronomic Azimuth: 50° 09' 19" w. 82° 14' 08" N
Location: 1650.0' at 236° to claim post no. 1
Claim No.: T 19482, Patented
Easting: 300 W
Northing: 1095 N
Dip: -90°
Scale: 1.0" = 50.0' or 1:600



Section D88-8

Hole Length: 250.0'
Overburden Depth: 85.0'
Astronomic Azimuth: 50° 09' 19" N, 82° 14' 08" W
Location: 1650.0' at 236° to claim post no. 1
Claim No.: T 19482, Patented
Easting: 300 W
Northing: 1095 N
Dip: -90°
Scale: 1.0" = 50.0' or 1:600



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RECEIVED
APR 2 6 1995
MINING LANDS BRANCH

000078

ROTARY DRILL HOLE RECORD

Drilling Started: November 25, 1988
Drilling Finished: November 26, 1988
Drilling Co.: Midwest
Dip: -90°
Hole Length: 240.0'
Overburden Depth: 77.5'
Claim No.: T 19482, Patented
Northing: 980 N
Easting: 390 W
Azimuth: 50° 09' 17" N, 82° 14' 12" W
Location: 1430.0' at 268° to claim post 1
Property: Douglas/Kipling

Logged: A. Casselman
Logged: April 7, 1989
Core Size: 3.5"
Core Storage:
Mineral Research Canada
R. R. # 2
Parry Sound ON P2A 2W8
Hole No.: D88-9

SUMMARY

From	To	Description			
0.0'	65.0'	Glacial Clay Till			
65.0'	77.5'	Sand	-	Overburden -	Pleistocene
77.5'	79.75'	Kaolin Silica Sand (kss)			Cretaceous
79.75'	80.0'	Glacial Sand			
80.0'	159.0'	Kss			
159.0'	164.5'	Clay & Kss			
164.5'	170.0'	Clay			
170.0'	207.0'	Kss			
207.0'	240.0'	Clay			

EOH - 240.0'

MINERAL RESEARCH
FAX (705) 378-[illegible] BUS (705) 378-2416
DATE

Detail Log D88-9

From	To	Sample No.	Description
0.0'	65.0'		Glacial Clay Till - dark brown, competent, fissile, rare 1.0" clast of gniessic material or carbonate, fine silt content, massive.
65.0'	77.5'		Sand - greenish grey, fine grain, 10.0% - 15.0% carbonate clasts, 10.0% - 15.0% gneissic clasts, occasional till enrichments.
77.5'	79.75'	3551	Kss - medium grain, white with brown impurity banding. 14.96% kaolin.
79.75'	80.0'	N/S	Glacial Sand - medium grain, feldspar, silica, biotite, and amphibole.
80.0'	85.0'	3552	Kss - medium grain, brown, yellow chert, rare clasts up to 1.0", granitic. 9.11% kaolin.
85.0'	87.0'	3553	Kss - as above, high moisture retention. 5.75% kaolin.
87.0'	91.0'	3554	Kss - 87.0' - 88.0' - poor quality, yellow brown with large granitic and amphibolitic clasts up to 4.0", 88.0' - 91.0' - white, medium grain, dark grey and yellow brown bands. 5.24% kaolin.
91.0'	95.0'	3555	Kss - yellow brown, lightening downsection, poorly sorted, 1" black shale clasts, medium grain. 5.24% kaolin.
95.0'	99.0'	3556	Kss - as above. 8.57% kaolin.
99.0'	103.0'	3557	Kss - light grey, fine grain, minor illite and heavies. 14.71% kaolin (wra), quartz - 65.0%, kaolin - 30.0%, illite/smectite - 5.0%. 72.6 G. E. +325 - 80.0%.
103.0'	107.0'	3558	Kss - as above, high moisture retention. 14.71% kaolin.
107.0'	111.0'	3559	Kss - medium grain, high moisture retention, brown banding - 107.0' - 109.0'. 11.14% kaolin (TSL), 10.19% kaolin (Chemex).
111.0'	115.0'	3560	Kss - as above. 9.87% kaolin (TSL), 8.51% kaolin (Chemex).

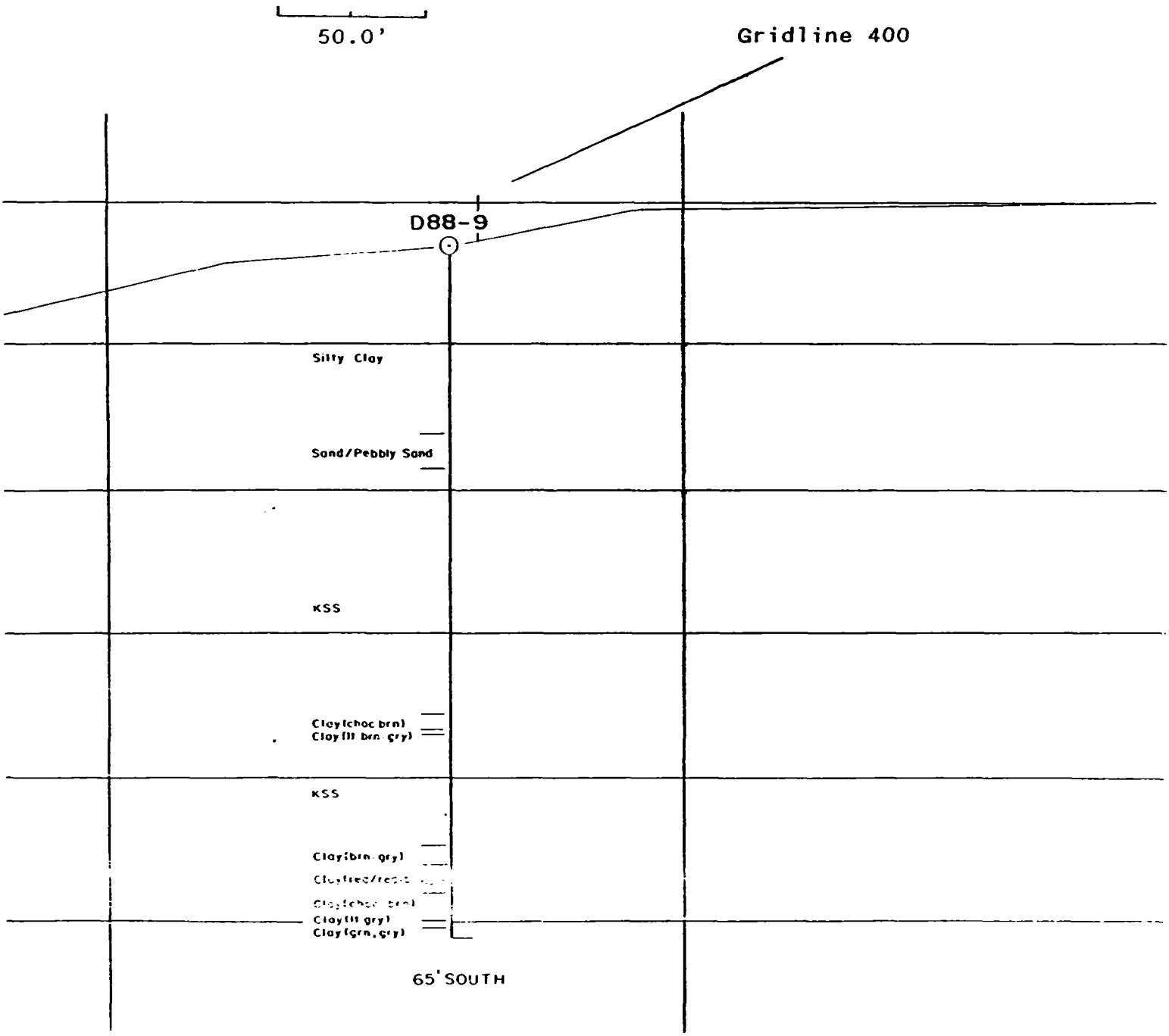
155.0'	119.0'	3561	Kss - as above, minor illite and heavies. 9.29% kaolin (TSL), 10.04% kaolin (Chemex).
119.0'	123.0'	3562	Kss - as above. 7.47% kaolin (TSL), 64.32% kaolin (Chemex).
123.0'	127.0'	3563	Kss - coarse grain, fining downsection to medium grain, white, grading to light brown, vari-coloured silicas, slightly larger than the matrix silica, 11.59% kaolin.
127.0'	131.0'	3564	Kss - low clay content, medium grain, light grey, minor heavies and illite, moist, 8.68% kaolin.
131.0'	136.0'	3565	Kss - coarse grain 131.0' - 132.0 ' in a clay matrix, white, 132.0' - 136.0' - coarse grain in a medium grain matrix, light brown, 19.52% kaolin.
136.0'	140.0'	3566	Kss - medium grain, rare coarser clasts at upper contact, light grey, minor heavies and illite, slightly moist, 6.76% kaolin.
140.0'	144.0'	3567	Kss - medium grain, white, dried, 8.38% kaolin.
144.0'	149.0'	3568	Kss - fine grain, fining downsection, white, dried, 9.78% kaolin.
149.0'	154.0'	3569	Kss - coarse grain fining downsection to medium grain, light grey, dried, 6.91% kaolin.
154.0'	159.0'	3570	Kss - medium grain, light blue/grey to medium, high amount of heavies and illite, moist, 20.87% kaolin.
159.0'	164.5'	3571	Clay & Kss - interbedded, competent and pliable chocolate brown clay with lighter sections, interbedded with light brown kss, medium grain, 11.87% kaolin.
164.5'	170.0'	3572	Clay - grading to Sandy Clay (last 1.0") competent, disc-like, greasy, chocolate brown grading to very light brown sandy clay, minor illite in sandy clay, 70.23% kaolin.
170.0'	175.0'	3573	Kss - clay-rich, becoming less so downsection, fine grain, coarsening downsection to medium grain, light grey, minor illite, moist, 16.73% kaolin.

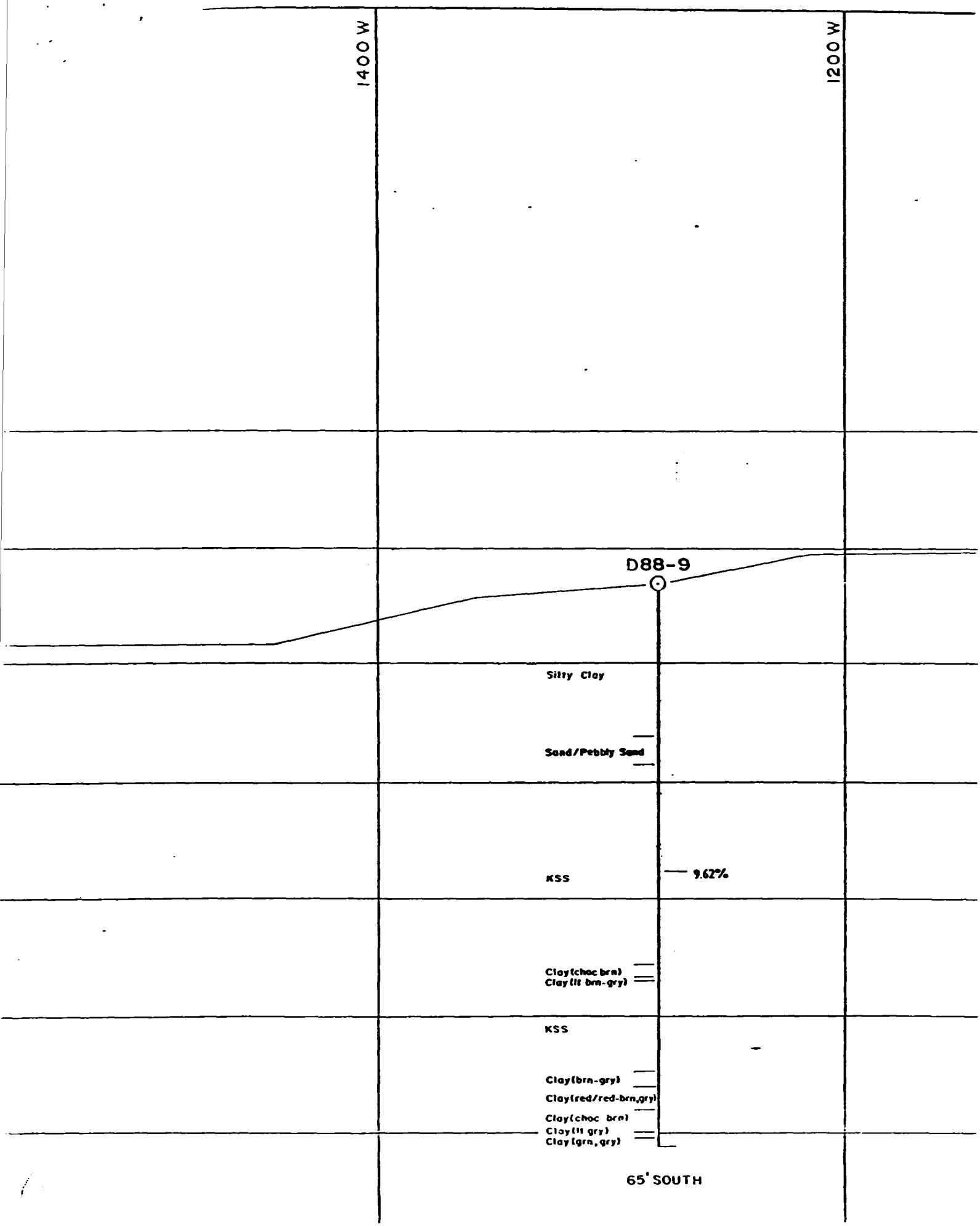
175.0'	179.0'	3574	Kss - medium grain, white, dried, 8.56% kaolin.
179.0'	183.0'	3575	Kss - as at 170.0' - 175.0', 11.16% kaolin.
183.0'	187.0'	3576	Kss - as above, 8.53% kaolin.
187.0'	192.0'	3577	Kss - medium grain, light brown, minor heavies and illite, 7.34% kaolin.
192.0'	196.0'	3578	Kss - medium grain, white, 9.34% kaolin.
196.0'	200.0'	3579	Kss - coarse grain, fining downsection to medium, white, moist, 8.63% kaolin.
200.0'	205.0'	3580	Kss - medium grain, rare larger clasts, white, moist, 9.24% kaolin.
205.0'	207.0'	3581	Kss - medium grain, medium brown, red at lower contact dried, 13.54% kaolin.
207.0'	210.0'	3582	Clay - competent, disc-like, greasy, light grey to green/yellow to chocolate brown with yellow laminations, sulphureous seams and smell, 75.44% kaolin.
210.0'	215.0'	3583	Clay - competent, disc-like, greasy, medium brown, mottled with yellow/green grading to buff and red mottled, carbonaceous, 83.16% kaolin.
215.0'	220.0'	3584	Clay - disc-like,competent, greasy, red and grey mottled, 67.29% kaolin.
220.0'	225.0'	3585	Clay - competent, fissile, red & grey mottled, dried, former flowage from bag, 81.34% kaolin.
225.0'	230.0'	3586	Clay - competent, as above, dark red/brown mottled with red, medium grey and black mottled, silica external contamination due to drilling action, highly disrupted, 83.67% kaolin.
230.0'	235.0'	3587	Clay - competent, disc-like, greasy, chocolate brown to very dark grading to medium brown, carbonaceous, exterior red coating, 78.20% kaolin.
235.0'	240.0'	3588	Clay - competent, disc-like, greasy, yellow & grey mottled grading to dark yellow, 88.18% kaolin.

EOH - 240.0'

Section D88-9

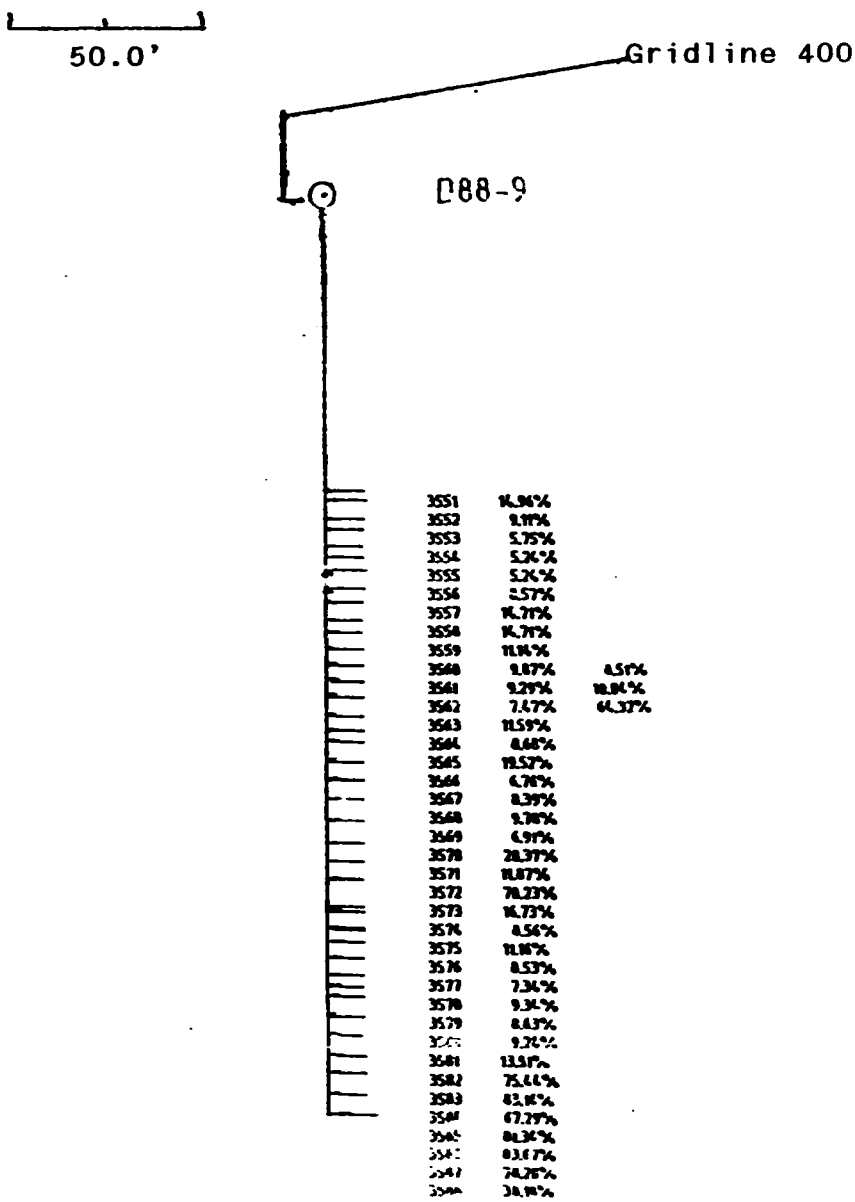
Dip Collar: -90°
Northing: 980 N
Easting: 390 W
Scale: 1.0" = 50.0' or 1:600
Hole Length: 240.0'
Overburden Depth: 77.5'
Astronomic Azimuth: 50° 09' 17" W. 82° 14' 12" N.
Location: 1430.0' at 268° to claim post no. 1
Claim No.: Patented, T 21584




1400 W
1200 W
D88-9
Silty Clay
Sand/Pebbly Sand
KSS
9.62%
Clay(choc brn)
Clay(lt brn-gry)
KSS
Clay(brn-gry)
Clay(red/red-brn,gry)
Clay(choc brn)
Clay(lt gry)
Clay(grn,gry)
65' SOUTH

Section D88-9

Dip Collar: -90°
Northing: 980 N
Easting: 390 W
Scale: 1.0" = 50.0' or 1:600
Hole Length: 240.0'
Overburden Depth: 77.5'
Astronomic Azimuth: 50° 09' 17" N, 82° 14' 12" W
Location: 1430.0' at 268° to claim post no. 1
Claim No.: Patented, T 21584



RECEIVED
APR 2 6 1995
MINING LANDS BRANCH

000073

ROTARY DRILL HOLE RECORD

Drilling Started: Nov.7, 1988
Drilling Finished: Nov.7, 1988
Drilling Co.: Midwest
Dip: -90°
Hole Length: 221.0'
Overburden Depth: 100.0'
Claim No.: T 19482, Patented
Easting: 100 W
Northing: 900 N
Azimuth: 50° 09' 15" N, 82° 14' 04" W
Location: 830.0' at 247° to Claim Post No. 1
Property: Douglas/Kipling

Logged By: A. Casselman
Logged: Aug. 21, 1991
Core Size: 3.5"
Core Storage:
Mineral Research Canada Inc.
R. R. # 2
Parry Sound ON P2A 2W8
Hole No.: D88-14

SUMMARY

From	To	Description	
0.0'	5.0'	Gravel	
5.0'	100.0'	Glacial Clay Till	Pleistocene - Overburden
100.0'	174.0'	Kaolin Silica Sand (Kss)	Cretaceous
174.0'	175.0'	Clay	
175.0'	175.5'	Kss	
175.5'	180.0'	Sandy Clay	
180.0'	209.75'	Kss	
209.75'	211.0'	Clay	
211.0'	213.0'	Kss	
213.0'	221.0'	Clay	

MINERAL RESEARCH CANADA
INDUSTRIAL BLVD RR2
PARRY SOUND, ONTARIO
CANADA P2A 2W8
FAX (705) 378-5123 BUS (705) 378-2416
DATE

EOH - 221.0'

Detail Log D88-14

From	To	Sample No.	Description
0.0'	5.0'		Gravel - coarse grain up to 2.0", some clay content.
5.0'	100.0'		Glacial Clay Till - competent, some areas fissile, alternating clast-free and clast-rich sections, clasts are predominantly carbonate and gneissic, from 65.0' - 100.0' - blue/green highly competent material, drill gouging.
100.0'	102.0'	16001	Kss - fine grain, coarsening downsection to medium grain, medium yellow brown to light brown, entire hole dried, 14.68% kaolin.
102.0'	106.0'	16002	Kss - medium grain, as above, white, coarse grain, clay-rich, with coarser, sub-angular clasts, 23.43% kaolin.
106.0'	110.0'	16003	Kss - as above, much yellow brown, contamination, sawdust in box, 11.91% kaolin.
110.0'	114.0'	16004	Kss - fine grain, light grey, near white, 17.41% kaolin.
114.0'	119.0'	16005	Kss - medium grain, buff, 12.48% kaolin.
119.0'	125.0'	16006	Kss - medium grain, light grey, 13.82% kaolin.
125.0'	130.0'	16007	Kss - as above, light grey clay clotting, 7.36% kaolin.
130.0'	135.0'	16008	Kss - with buff clay clots, up to 4.0", competent, pliable, highly moulded, medium grain, light brown to medium grey, moist, 11.29% kaolin.
135.0'	140.0'	16009	Kss - as above, 5.83% kaolin.
140.0'	145.0'	16010	Kss - medium grain, grading to clay, light grey, 7.84% kaolin.
145.0'	150.0'	16011	Kss - medium grain, frequent coarser clasts, white, 5.26% kaolin.
150.0'	155.0'	16012	Kss - as above, 6.17% kaolin.
155.0'	160.0'	16013	Kss - medium grain, with frequent

			coarser vari-coloured silica clasts from 155.0' - 155.5', moist, medium brown, drilling debris, small white clay clots, 5.36% kaolin.
160.0'	166.0'	16014	Kss - clay-poor & clay-rich alternating, green clast, similar grain size as other silicas, at 160.5', kss - light brown, moist, minor heavies that are dispersed and one banded areas of intensely concentrated spheres, that are dark brown to black at 164.0', surrounding material is dark grey, 5.07% kaolin.
166.0'	170.0'	16015	Kss - medium grain, medium brown, minor heavies and illite, moist, extreme contamination, last foot appears polydrill saturated, 6.84% kaolin.
170.0'	174.0'	16016	Kss - medium grain, light grey, dried, 7.22% kaolin.
174.0'	175.0'	16017	Clay - competent, disc-like, medium brown, darker areas, intense mould smell, much kss contamination that could not be removed, 44.48% kaolin.
175.0'	175.5'	16018	Kss - medium grain, medium brown, minor heavies and illite, moist, drilling debris, 13.34% kaolin.
175.5'	180.0'	16019	Sandy Clay - competent, pliable, buff, minor illite, moist, 24.39% kaolin.
180.0'	185.0'	16020	Kss - fine grain, grading to medium grain, white grading to light brown, minor illite, dried, 10.76% kaolin.
185.0'	189.0'	16021	Kss - fine grain, light yellow/brown, dried, drilling debris, entirely contaminated, 7.03% kaolin.
189.0'	193.0'	16022	Kss - with 0.5' at 191.0' of sandy clay, medium grain kss, white, sandy clay is light grey with minor illite, moist, 9.28% kaolin.
193.0'	197.0'	16023	Kss - clay-poor, medium grain, medium yellow/brown, minor heavies and illite, 4.11% kaolin.

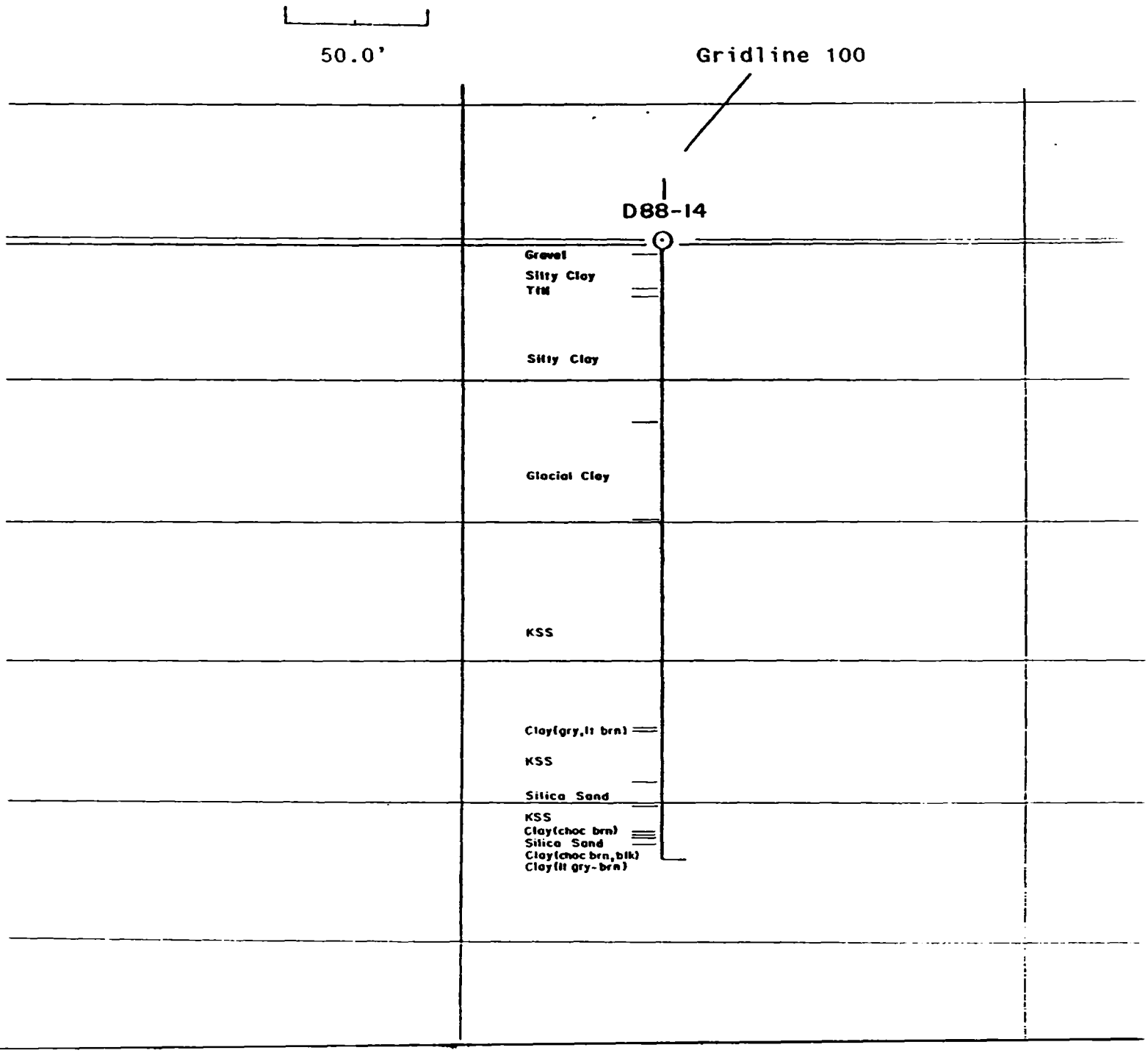
197.0'	200.0'	16024	Kss - medium grain, medium brown, minor illite and heavies, moist, slight white exterior crystal growth, sulphureous smell, drilling debris, clay clots and yellow staining, 5.36% kaolin.
200.0'	205.0'	16025	Kss - fine grain, medium brown, dried, 8.70% kaolin.
205.0'	207.0'	16026	Kss - medium grain, dark brown, dried, exterior crystal growth, clear needles, sulphureous smell, chocolate brown clay clots, yellow staining, 6.98% kaolin.
207.0'	209.75'	16027	Kss - medium grain, fining downsection to fine, white, extremely yellow at lower contact, higher clay content at lower contact - white, box split, 17.84% kaolin.
209.75'	211.0'	16028	Clay - silty in areas, competent, disc-like, chocolate brown, carbonaceous, minor illite, upper contact yellow with orange mottling, and laminations of red hematitic nodules, 47.73% kaolin.
211.0'	213.0'	16029	Kss - medium grain, light brown, minor heavies and illite, moist, large amount of hematite nodules, 6.12% kaolin.
213.0'	217.0'	16030	Clay - with sandy sections, competent, disc-like, chocolate brown to light grey, carbonaceous, minor illite, sulphureous smell, exterior crystal growth, yellow hematite laminations near upper contact, 73.89% kaolin.
217.0'	221.0'	16031	Clay - competent, disc-like, greasy, light brown, carbonaceous, rusted hacksaw blade in bag, exterior crystal growth, most material not in the bag, 86.32% kaolin.

EOH - 221.0'

N. B. - 2.0' of Core Lost Down the Hole.

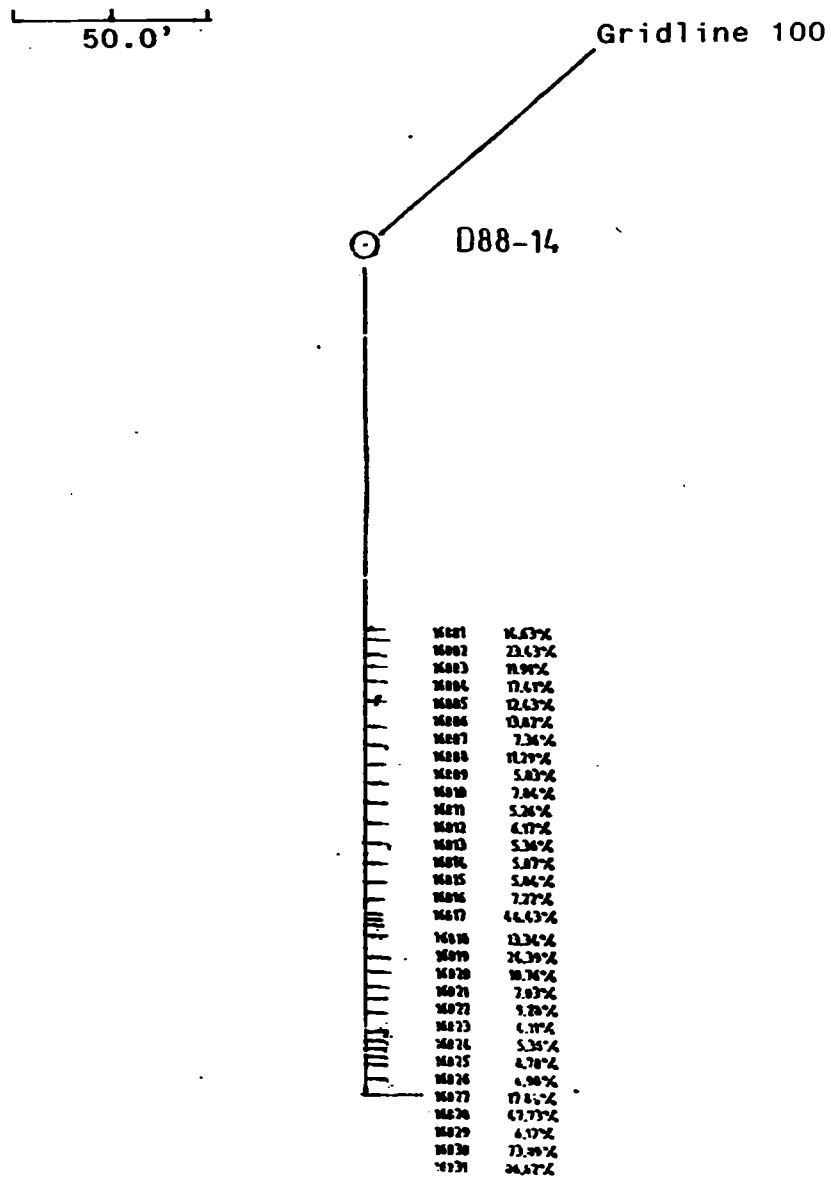
Section D88-14

Claim No.: T 21564, Patented
Hole Length: 221.0'
Overburden Depth: 100.0'
Astronomic Azimuth: 50° 09' 15" W. 82° 14' 04" N
Location: 830.0' at 247° to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 900 N
Easting: 100 W
Dip: -90°



Section D88-14

Claim No.: T 21564, Patented
Hole Length: 221.0'
Overburden Depth: 100.0'
Astronomic Azimuth: 50° 09' 15" N, 82° 14' 04" W
Location: 830.0' at 247° to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 900 N
Easting: 100 W
Dip: -90°



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000078

ROTARY DRILL HOLE RECORD

Drilling Started: Nov. 20, 1988
Drilling Finished: Nov. 21, 1988
Drilling Co.: Midwest
Dip Collar: -90°
Hole Length: 199.0'
Overburden Depth: 101.0'
Claim No.: T 19482, Patented
Easting: 200 W
Northing: 830 N
Azimuth: 50° 09' 13" N, 82° 14' 06" W
Location: 1150.0' at 242° from claim post no. 1
Property: Douglas/Kipling

Logged By: A. Casselman
Logged: April 11, 1989
Core Size: 3.5"
Core Storage:
Mineral Research Canada
R. R. # 2
Parry Sound ON P2A 2W8
Hole No.: D88-16

SUMMARY

From	To	Description
0.0'	8.0'	Peat & Silty Clay
8.0'	98.5'	Glacial Clay Till
98.5'	101.0'	Sand - Pleistocene - Overburden
101.0'	102.0'	Kaolin Silica Sand (Kss)/Contact Zone - Cretaceous
102.0'	106.0'	Kss & Sandy Clay
106.0'	110.0'	Clay
110.0'	122.0'	Sandy Clay
122.0'	178.0'	Kss
178.0'	183.5'	Sandy Clay
183.5'	190.0'	Kss
190.0'	195.0'	Clay & Kss
195.0'	196.75'	Kss
196.0'	199.0'	Clay

MINERAL RESEARCH CANADA
1 INDUSTRIAL BLVD RR2
PARRY SOUND, ONTARIO
CANADA P2A 2W8
FAX (705) 378-5128 BUS (705) 378-2416
DATE

EOH - 199.0'

Detail Log D88-16

From	To	Sample No.	Description
0.0'	8.0'		Peat & Silty Clay
8.0'	98.5'		Glacial Clay Till - alternating very fine grain silty material, grey, pliable, massive & clast-free with grey to grey/brown competent fissile, material that contains, 2.0 - 5.0% carbonate clasts & 10.0 - 15.0% gneissic clasts that are greater than 0.25", 80.0' - 98.5' - dark blue/grey very fine grain highly compacted clay, drill gouging, few clast near lower contact.
98.5'	100.0'		Sand - orange, limonitic, medium grain, 1.0 - 2.0% larger clasts, predominantly quartz.
100.0'	102.0'	17201	Kss/Contact Zone - non-calcareous, medium grain, dark yellow/brown, intense hematite staining, numerous overburden derived clasts, metavolcanics, sub-rounded, entire hole dried, 14.63% kaolin.
102.0'	106.0'	17202	Kss & Sandy Clay - interbedded, kss - medium grain, light grey, sandy clay - competent, fissile, light grey, 18.65% kaolin.
106.0'	110.0'	17203	Clay - some silty areas, competent, disc-like, chocolate brown grading to buff, 51.17% kaolin.
110.0'	113.0'	17204	Sandy Clay - competent, fissile, fine grain, light brown, minor illite, 17.07% kaolin.
113.0'	118.0'	17205	Sandy Clay - as above, medium grain kss - 117.0' - 118.0' - light grey, 31.05% kaolin.
118.0'	122.0'	17206	Sandy Clay - as previous, 16.98% kaolin.
122.0'	127.0'	17207	Kss - medium grain, light grey, minor heavies and illite, 6.36% kaolin.
127.0'	131.0'	17208	Kss - medium grain, slight coarsening downsection, light grey minor illite

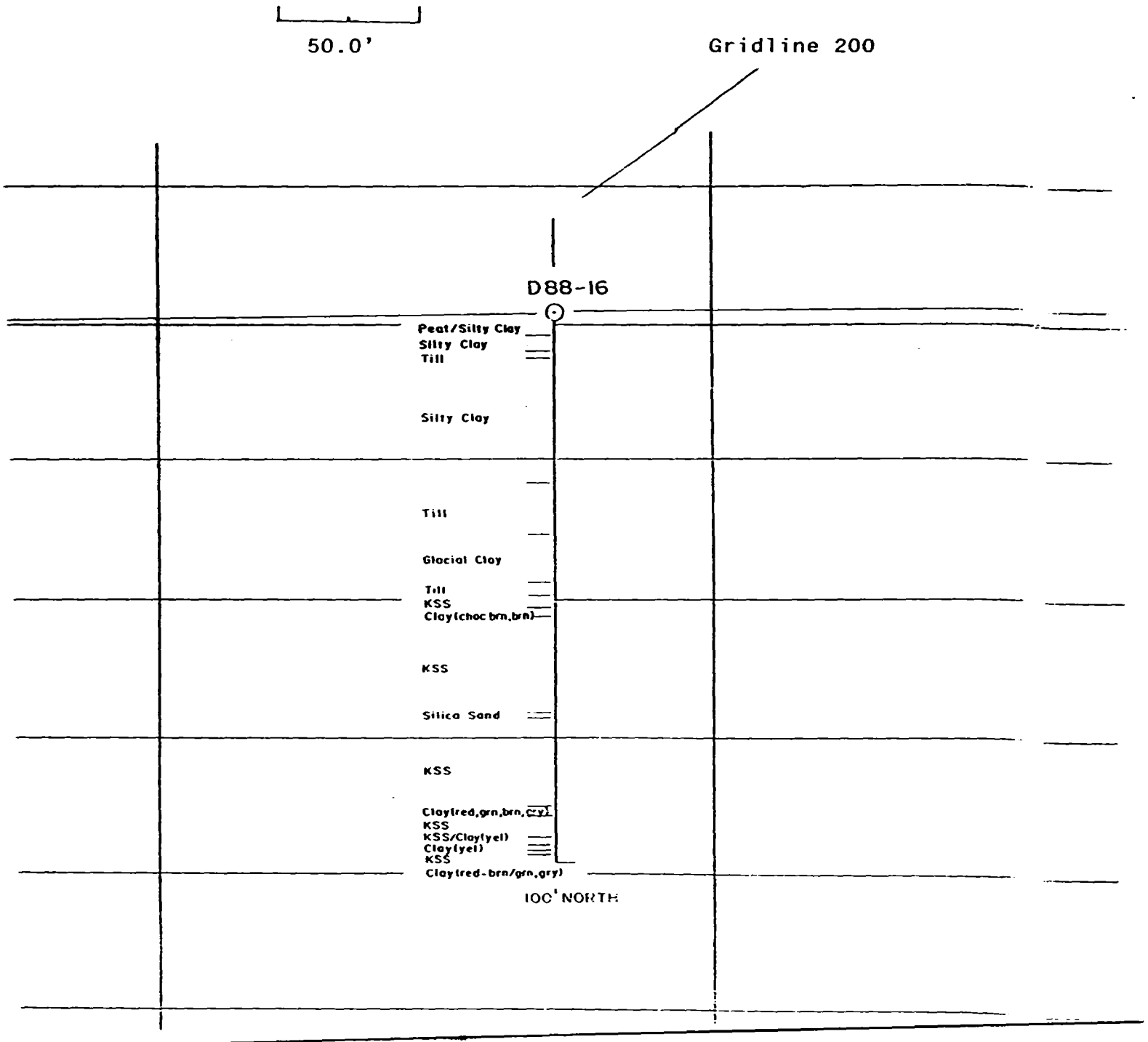
			and heavies, 8.03% kaolin.
131.0'	135.0'	17209	Kss - as above, areas of larger clast size and clay clotting, generally clay-rich, 17.31% kaolin.
135.0'	140.0'	17210	Kss - as above, much fuzzy yellow mould and drilling debris, 11.96% kaolin.
140.0'	144.0'	17211	Kss - as above, darkening at lower contact, yellow brown, 8.16% kaolin.
144.0'	147.5'	17212	Kss - clay - poor, fine grain, sharp contact with coarse grain material at 145.0', then grading to medium grain, light brown/yellow, 2.46% kaolin.
147.5'	152.0'	17213	Kss - as above,light yellow brown, 7.51% kaolin.
152.0'	154.0'	17214	Kss - as above, white, 3.44% kaolin.
154.0'	160.0'	17215	Kss - as above, drill core gouging, 7.56% kaolin.
160.0'	165.0'	17216	Kss - medium grain, rare coarser clasts, white, 8.03% kaolin.
165.0'	169.0'	17217	Kss - clay-poor, fine grain, grading to medium grain, with, frequent, coarse clasts and clay clots, 3.97% kaolin.
169.0	174.0	17218	Kss - medium grain, light grey, 169.0' - 170.0' - moist, hematite granules dispersed throughout, 7.13% kaolin.
174.0'	178.0'	17219	Kss - as above. 8.23% kaolin.
178.0'	181.0'	17220	Sandy Clay grading to Clay - competent, disc-like, light grey, fissile sandy clay grading to buff clay grading to chocolate brown to yellow brown to light grey to wine, 57.63% kaolin.
181.0'	183.5'	17221	Sandy Clay - competent, fissile, buff, minor heavies and illite, drill gouging, 24.72% kaolin.
183.5'	186.0'	17222	Kss - fine grain, light brown, 9.85% kaolin.
186.0'	190.0'	17223	Kss - as above, some clay clotting, 8.51% kaolin.

190.0' 195.0'	17224	Clay & Kss - interbedded, medium yellow, medium grain, clay - medium yellow with some light grey mottling, competent, fissile, drill gouging, 54.28% kaolin.
195.0' 196.75'	17225	Kss - medium grain, medium yellow/brown, extremely large amount of material for footage, clay clotting, 16.50% kaolin.
196.75'199.0'	17226	Clay - competent, fissile, medium red & buff mottled, last, 0.25' - light grey, illitic, sandy clay - 0.5', prior light grey clay, kss contamination, drill core gouging, 72.21% kaolin.

EOH - 199.0'

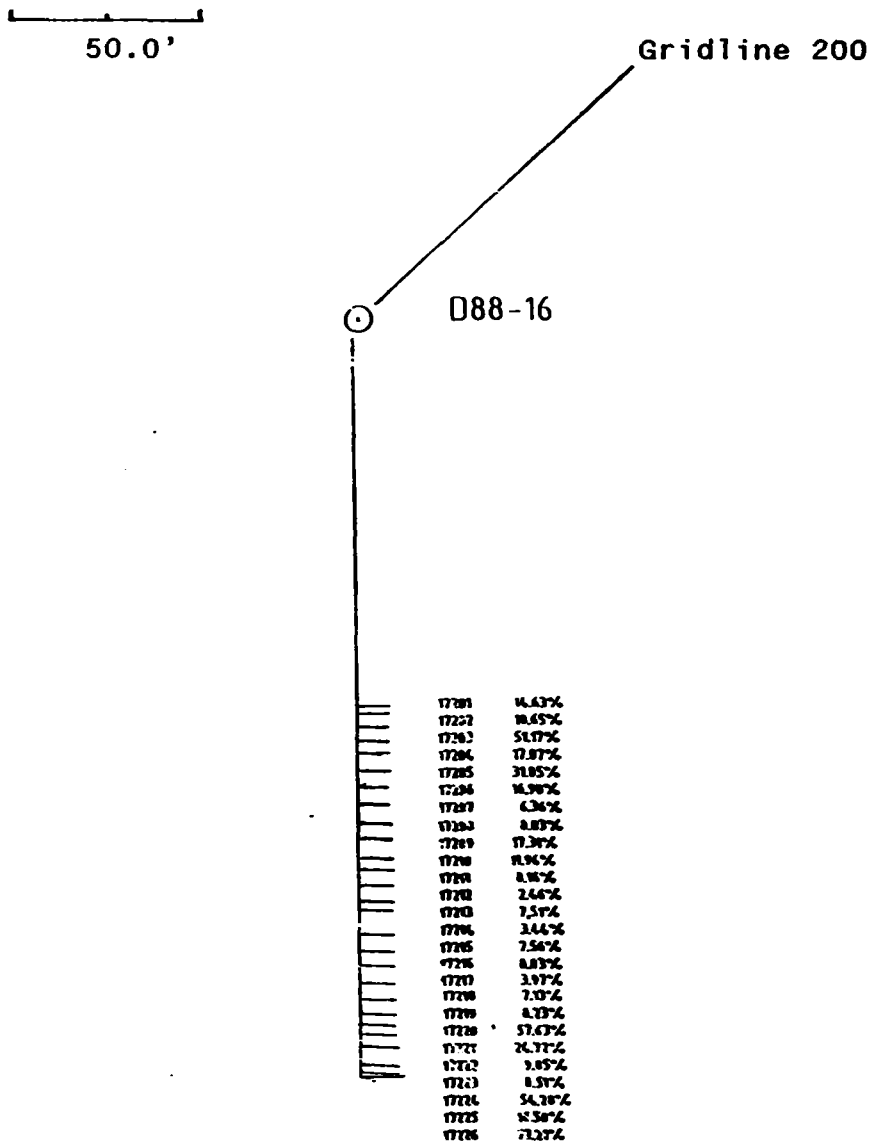
Section D88-16

Claim No.: T 21854, Patented
Hole Length: 199.0'
Overburden Depth: 101.0'
Astronomic Azimuth: 50° 09' 13" W. 82° 14' 06" N
Location: 1150.0' at 242.0' to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 830 N
Easting: 200 W
Dip: -90°



Section D88-16

Claim No.: T 21854, Patented
Hole Length: 199.0'
Overburden Depth: 101.0'
Astronomic Azimuth: 50° 09' 13" N, 82° 14' 06" W
Location: 1150.0' at 242.0' to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 830 N
Easting: 200 W
Dip: -90°



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APR 2 6 1995
MINING LANDS BRANCH

2.1595 6 000078

ROTARY DRILL HOLE RECORD

Drilling Started: Nov. 19, 1988
Drilling Finished: Nov. 20, 1988
Drilling Co. Midwest
Dip Collar: -90°
Hole Length: 250.0'
Overburden Depth: 103.0'
Claim No.: T 19482, Patented
Northing: 635 N
Easting: 00 E
Azimuth: 50° 09' 08" N, 82° 14' 00" W
Location: 1270.0' at 199° to Claim Post No. 1
Property: Douglas/Kipling

Logged By: A. Casselman
Logged: April 9, 1991
Core Size: 3.5"
Core Storage:
Mineral Research Canada
R. R. # 2
Parry Sound ON P2A 2W8
Hole No.: D88-17

SUMMARY

From	To	Description	
0.0'	15.0'	Fluvial Sediments	
15.0'	55.0'	Glacial Clay Till	
55.0'	61.5'	Gravel	
61.5'	91.0'	Glacial Clay Till	
91.0'	93.5'	Sand	
93.5'	103.0'	Clayey Sand -	Pleistocene - Overburden
103.0'	107.0'	Kaolin Silica Sand (Kss)	Cretaceous
107.0'	111.0'	Sandy Clay	
111.0'	115.0'	Kss	
115.0'	125.0'	Clay	
125.0'	156.5'	Kss	
156.5'	164.0'	Clay	
164.0'	166.0'	Kss	
166.0'	168.0'	Sandy Clay	
168.0'	198.0'	Clay	
198.0'	200.0'	Sandy Clay	
200.0'	210.5'	Kss	
210.5'	215.0'	Clay	
215.0'	234.0'	Kss	
234.0'	235.0'	Clay	
235.0'	247.0'	Kss	
247.0'	250.0'	Clay	

Anne Casselman Feb 1, 1995
FAX (705) 378-5123 BUS (705) 378-2416
DATE

EOH - 250.0'

Detail Log D88-17

From	To	Sample No.	Description
0.0'	15.0'		Fluvial Sediments - grey, very fine grain, pliable, clast-free.
15.0'	55.0'		Glacial Clay Till - grey to greenish grey to dark grey, competent, fissile sections, 2.0 - 5.0% carbonate clasts, 10.0 - 15.0% gneissic clasts, at 50.0' - large amphibolite clasts of 3.0".
55.0'	61.5'		Gravel - grey to greenish grey, very coarse sand from 55.0' - 58.0', 52.0' - 60.0' - Lost Core.
61.5'	91.0'		Glacial Clay Till - grey to greenish grey, as previous, at 58.0' - sandstone clast of 3.5", 83.0' - 91.0' - dark blue/green, highly competent, becoming sandy near lower contact, clast-free.
91.0'	93.5'		Sand - limonite stained sand, brown, grey near basal contact, medium grain.
93.5'	103.0'		Clayey Sand - buff to grey, very fine sand within clay, probable kaolin - not sent to Parry Sound.
103.0'	105.0'	15351	Kss - medium grain with very large clasts up to 2.5" - amphibolite material, medium brown, minor illite, 20.99% kaolin.
105.0'	108.0'	15352	Sandy Clay - competent, medium brown, carbonaceous, illitic, drill core gouging, 32.99% kaolin.
108.0'	111.0'	15353	Kss - fine grain, coarsening downsection to medium grain, medium yellow/brown to medium grey, 12.78% kaolin.
111.0'	115.0'	15354	Kss - medium grain, light brown, 4.68% kaolin.
115.0'	120.0'	15355	Kss with clay clots - medium brown, crumbly, with interbedded silica, 7.09% kaolin.
120.0'	125.0'	15356	Kss - as above, 7.16% kaolin.
125.0'	129.0'	15357	Kss - medium grain, white, large white clay clots, 7.57% kaolin.

129.0'	133.0'	15358	Kss - clay clots associated with fine areas, medium grain and fine grain alternating, light brown clay clots lighter - minor heavies, buff, 15.92% kaolin.
133.0'	137.0'	15359	Kss - medium grain, rare coarse clasts - sub-rounded, some areas of medium brown, mostly white, prevalent yellow chert, 6.68% kaolin.
137.0'	141.0'	15360	Kss - as above, 7.65% kaolin.
141.0'	146.0'	15361	Kss - medium grain, light grey, 8.66% kaolin.
146.0'	150.0'	15362	Kss - medium grain, white, 9.19% kaolin.
150.0'	156.0'	15363	Kss - medium grain, coarsening downsection, light brown, to medium grey to red at lower contact, sulphureous smell, 8.89% kaolin.
156.0'	160.0'	15364	Clay - competent, disc-like, greasy, red to light grey to red & grey mottled, mangled, yellow and orange at uppper contact, hematitic nodules, 71.80% kaolin.
160.0'	164.0'	15365	Clay - competent, disc - like, greasy, red, some areas mottled with buff, 61.34% kaolin.
164.0'	166.0'	15366	Kss - coarse grain, red, 9.82% kaolin.
166.0'	168.0'	15367	Sandy Clay - grading to clay - red grading to medium brown, mottled with lighter material, competent, disc-like, 74.51% kaolin.
168.0'	171.0'	15368	Clay - competent, disc-like, greasy, medium brown, to red laminated, slightly yellow, minor illite, 74.05% kaolin.
171.0'	175.0'	15369	Clay - competent, disc-like, some areas fissile, red and light grey mottled, carbonaceous, 78.81% kaolin.
175.0'	178.0'	15370	Clay - as above, grading to red, 67.77% kaolin.
178.0'	181.0'	15371	Clay - competent, disc-like, greasy, dark red mottled with medium brown to red/brown sections, 62.81% kaolin.

181.0'	185.0'	15372	Clay - progressively more silty downsection, competent, disc-like yellow laminations downsection, minor illite, sulphureous smell and exterior crystal growth, 72.10% kaolin.
185.0'	188.0'	15373	Clay - competent, fissile to disc-like, medium brown, darkening downsection, 93.49% kaolin.
188.0'	190.0'	15374	Clay - competent, disc-like, greasy, light grey, hematitic grains, darker areas, 68.66% kaolin.
190.0'	191.0'	15375	Clay - competent, disc-like, chocolate brown, 94.38% kaolin.
191.0'	196.0'	15376	Clay - competent, disc-like, greasy, light brown, grading to yellow and buff mottled to purple and brown mottled, 96.35% kaolin.
196.0'	200.0'	15377	Silty Clay - competent, fine grain, medium grey with yellow laminations, some red and buff mottling minor illite, sulphureous smell, 64.94% kaolin.
200.0'	204.0'	15378	Clay - competent, disc-like, greasy, red and dark brown mottled to dark grey, 79.77% kaolin.
204.0'	208.0'	15379	Clay - competent, pliable - 207.0' - 208.0', 204.0' - 207.0' - disc-like and greasy, black and carbonaceous, 85.54% kaolin.
208.0'	210.0'	15380	Clay - competent, disc-like, no expansion of core, chocolate brown, to light brown, exterior crystal growth, 88.35% kaolin.
210.0'	210.5'	15381	Kss - medium grain, medium yellow brown, 20.33% kaolin.
210.5'	215.0'	15382	Clay - competent, greasy, buff, carbonaceous, 92.05% kaolin.
215.0'	219.0'	15383	Kss - some finer grained clay-rich areas near sandy clay, fine grain, some medium grain, light to medium brown, minor illite, 6.30% kaolin.
219.0'	220.0'	15384	Sandy Clay - competent, buf, minor illite,

			44.66% kaolin.
220.0'	224.0'	15385	Kss - as above, 220.0' - 221.0' - moist, with minor illite, 20.43% kaolin.
224.0'	231.0'	15386	Kss - as above, some previous flowage from bag, 13.80% kaolin.
231.0'	234.0'	15387	Kss - medium grain, light brown, 7.65% kaolin.
234.0'	235.0'	15388	Clay - competent, disc-like, buff, 74.96% kaolin.
235.0'	237.0'	15389	Kss - fine grain, grading to medium grain, light brown, 16.05% kaolin.
237.0'	239.0'	15390	Kss - fine grain, light brown, minor illite, 16.00% kaolin.
239.0'	242.0'	15391	Kss - medium grain, light brown, 12.76% kaolin.
242.0'	245.0'	15392	Kss - as above, 10.89% kaolin.
245.0'	247.0'	15393	Kss - as above, clay enrichment downsection, 15.47% kaolin.
247.0'	250.0'	15394	Clay - competent, disc-like, greasy, buff, small 0.5" section of medium grain kss at 248.0', 68.63% kaolin.

EOH - 250.0'

Section D88-17

Claim No.: T 21586, Patented
Hole Length: 250.0'
Overburden Depth: 103.0'
Astronomic Azimuth: 50° 09' 18" N, 82° 14' 00" W
Location: 1270.0' at 199° to claim post no.1
Scale: 1.0" = 50.0' or 1:600
Northing: 635 N
Easting: 000 BL
Dip : -90°

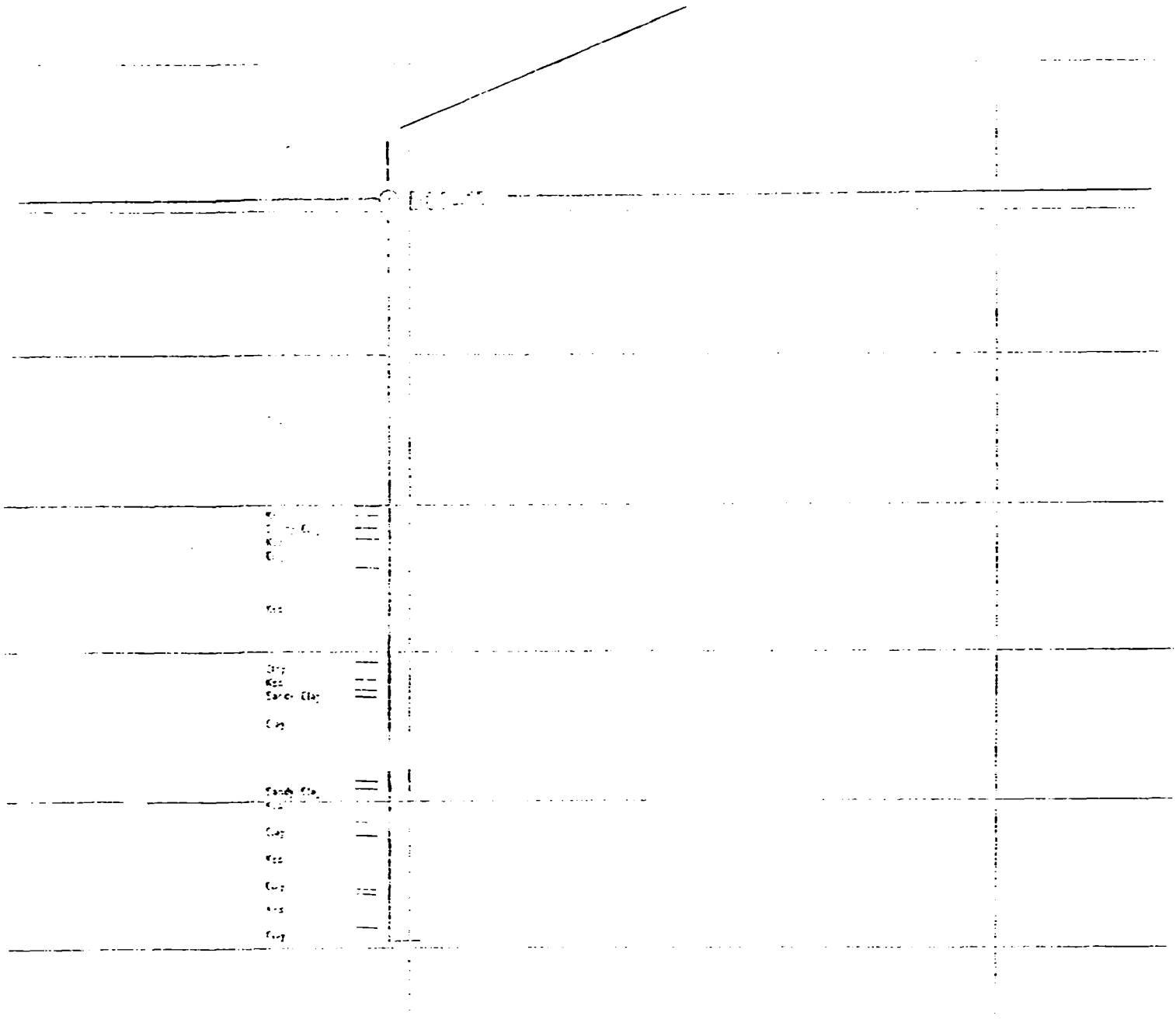
50.0' Gridline 000

Section

Claim No. [illegible]
Hole Length: [illegible]
Overburden Depth: 103.0'
Astronomic Azimuth: 50° [illegible] W. [illegible]
Location: 1270.0' at 199° to claim [illegible]
Scale: 1.0" = 50.0' or 1:600
Northing: 635 N
Easting: 000
Dip: -[illegible]°

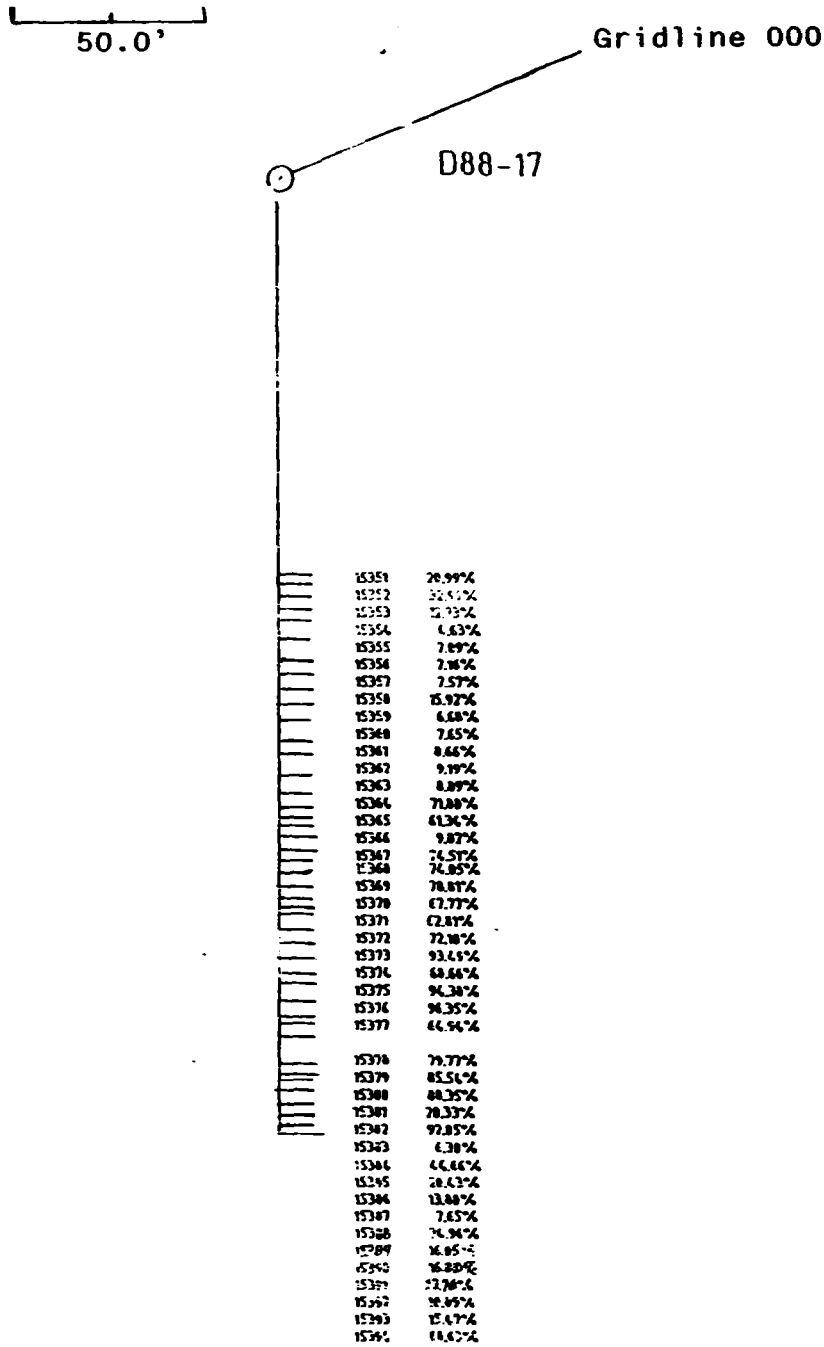
50.0'

Reliance 900



Section D88-17

Claim No.: T 21586, Patented
Hole Length: 250.0'
Overburden Depth: 103.0'
Astronomic Azimuth: 50° 09' 18" N, 82° 14' 00" W
Location: 1270.0' at 199° to claim post no.1
Scale: 1.0" = 50.0' or 1:600
Northing: 635 N
Easting: 000 BL
Dip : -90°



RECEIVED
APR 2 6 1995
MINING LANDS BRANCH

000078

ROTARY DRILL HOLE RECORD

Drilling Started: Nov. 17, 1988
Drilling Finished: Nov. 19, 1988
Drilling Co.: Midwest
Dip: -90°
Hole Length: 222.0'
Overburden Depth: 114.75'
Claim No.: T 21584, Patented
Easting: 390 W
Northing: 580 N
Azimuth: 50° 09' 06" N, 82° 13' 31" W
Location: 1430.0' at 183° to Claim Post No. 1
Property: Douglas/Kipling

Logged By: A. Casselman
Logged: March 1, 1991
Core Size: 3.5"
Core Storage:
Mineral Research Canada
R. R. # 2
Parry Sound ON P2A 2W8
Hole No.: D88-18

SUMMARY

From	To	Description	
0.0'	9.0'	Peat	
9.0'	18.0'	Fluvial Sediments	
18.0'	34.0'	Glacial Clay Till	
34.0'	37.0'	Gravel	
37.0'	48.0'	Glacial Clay Till	
48.0'	52.0'	Sand	
52.0'	95.0'	Glacial Clay Till	
95.0'	98.0'	Sand	
98.0'	105.0'	Glacial Clay Till	
105.0'	106.25'	Cretaceous Clay	
106.25'	110.75'	Glacial Clay Till	
110.75'	112.0'	Cretaceous Clay	
112.0'	114.75'	Glacial Clay Till - Pleistocene - Overburden	
114.75'	166.0'	Kaolin Silica Sand (kss)	Cretaceous
166.0'	171.0'	Clay	
171.0'	172.0'	Sandy Clay	
172.0'	174.0'	Clay	
174.0'	175.0'	Sandy Clay	
175.0'	191.0'	Clay	
191.0'	195.0'	Kss	
195.0'	210.0'	Clay	
210.0'	212.0'	Kss	
212.0'	217.0'	Clay	
217.0'	218.0'	Kss	
218.0'	222.0'	Clay	

MINERAL RESEARCH
CANADA
INDUSTRIAL BLVD. RR
PARRY SOUND, ONTARIO
CANADA P2A 2W8
FAX (705) 378-5122 BUS (705) 378-2416
DATE

EOH - 222.0'

Detail Log - D88-18

From	To	Sample No.	Description
0.0'	9.0'		Peat
9.0'	18.0'		Fluvial Sediments - grey, very fine grain, massive, pliable, clast-free.
18.0'	34.0'		Glacial Clay Till - grey to dark brown/grey, competent, 2.0 - 5.0% carbonate clasts, 10.0% gneissic clasts, silty and clast free from 21.0' - 34.0'.
34.0'	37.0'		Gravel - grey to green/grey, very coarse grain.
37.0'	48.0'		Glacial Clay Till - as previous, sandy near lower contact.
48.0'	52.0'		Sand - green/grey, medium grain, numerous larger clasts, some clay content.
52.0'	95.0'		Glacial Clay Till - as previous, 86.0' - 95.0' - Lost Core.
95.0'	98.0'		Sand - greenish grey, medium grain, 2.0 - 3.0% larger clasts, some clayey matrix.
98.0'	105.0'		Glacial Clay Till - as previous, red near lower contact.
105.0'	106.25'		Cretaceous Clay - reddish/brown, fine grain, competent, pliable, some clast near upper contact.
106.25'	110.5'		Glacial Clay Till - as previous, 4.0" of buff Cretaceous clay at 109.25'.
110.5'	112.25'	15751	Cretaceous Clay - competent, fissile, light yellow and red mottled, 68.39% kaolin.
112.25'	114.75'		Glacial Sandy Clay Till - competent, fine grain, with large clasts up to 2.0", medium brown/green, calcareous, areas of yellow and red mottled clay.
114.75'	122.0'	15752	Kss - with a Sandy Clay seam at 118.5 - 119.0', medium grain, - fine grain after the sandy clay seam, medium brown grading to white grading to red,

			to light grey sandy clay and kss, minor illite, calcareous at upper contact, 15.06% kaolin.
122.0'	126.0'	15753	Kss - medium grain, dark brown, lightening downsection to white, moist, calcareous upper contact, 58.10% kaolin.
126.0'	130.0'	15754	Kss - medium grain, white, 7.75% kaolin.
130.0'	132.0'	15755	Kss - medium grain, white, some external red tinges, entire hole dried, large amount of material for indicated footage, 5.83% kaolin.
132.0'	136.0'	15756	Kss - with a few clay seams, medium grain, rare larger clasts, light grey clay, white kss, 9.52% kaolin.
136.0'	140.0'	15757	Kss - as above, 8.70% kaolin.
140.0'	145.0'	15758	Kss - medium grain, white, 4.69% kaolin.
145.0'	150.0'	15759	Kss - as above, 7.27% kaolin.
150.0'	155.0'	15760	Kss - medium grain with light grey and brown sections, 5.64% kaolin.
155.0'	160.0'	15761	Kss - medium grain, with coarser clasts sub-angular, smoky quartz, light grey, 10.33% kaolin.
160.0'	164.0'	15762	Kss - as above, with yellow chert, 5.55% kaolin.
164.0'	166.0'	15763	Kss - low clay content, coarse grain, red, haematitic coated spheres in red kss, white inside, sandstone-like granules, 2.73% kaolin.
166.0'	168.0'	15764	Clay - competent, disc-like, greasy, medium brown, to buff & red mottled, kss contaminated, 64.80% kaolin.
168.0'	171.0'	15765	Clay - competent, disc-like greasy, dark red with areas of medium grey laminations, to medium grey, kss contamination, 58.10% kaolin.
171.0'	172.0'	15766	Sandy Clay - competent, fissile, light grey, minor illite, 47.77% kaolin.
172.0'	174.0'	15767	Clay - competent, disc-like, dark red (near orange) and some yellow laminations,

			51.17% kaolin.
174.0'	175.0'	15768	Sandy Clay - fine grain, yellow (medium) at upper contact to grey laminations with cross bedding, 62.41% kaolin.
175.0'	178.0'	15769	Clay - competent, fissile, medium grey/brown, carbonaceous, exterior crystal growth, much exterior red staining, 74.36% kaolin.
178.0'	181.0'	15770	Clay - competent, fissile, red & buff mottled, 73.17% kaolin.
181.0'	185.0'	15771	Clay - competent, disc-like, 3.5", no expansion of core, red, 73.17% kaolin.
185.0'	191.0'	15772	Clay - competent, disc-like, buff & red mottled at 185.0' - 189.0', then red, 65.04% kaolin.
191.0'	195.0'	15773	Kss - grading to Sandy Clay - medium grain, highly competent, light grey, from red, minor illite, yellow at upper contact, sulphureous smell, 22.62% kaolin.
195.0'	200.0'	15774	Clay - red some silica, showing flowage, mangled, dark grey to black - light grey carbonaceous, 38.50% kaolin.
200.0'	205.0'	15775	Clay - competent, disc-like, greasy, dark grey, darkening downsection, 3.0" of red at 202.5' - hematitic staining, yellow laminations and exterior crystal growth, 67.19% kaolin.
205.0'	210.0'	15776	Clay - as above, 79.86% kaolin.
210.0'	212.0'	15777	Kss - medium grain, red, yellow and white mottled at upper contact, remainder chocolate brown, entirely contaminated, 3.0" chocolate brown clay seam at 210.25', clear acicular needles coating the exterior surface at the opening of the bag, 28.26% kaolin.
212.0'	217.0'	15778	Clay - competent, disc-like, greasy,

			light grey mottled with darker grey, darkening downsection, carbonaceous, 85.12% kaolin.
217.0'	218.0'	15779	Kss - fine grain, dark red/brown, flowage from bag, aerated, entirely contaminated, sulphureous smell, 29.75% kaolin.
218.0'	219.0'	15780	Clay - non-competent, chunky, red/brown (dark), water saturated - an area of oily liquid, 70.06% kaolin.
219.0'	222.0'	15781	Clay - competent, disc-like, greasy, black, 60.02% kaolin.

EOH - 222.0'

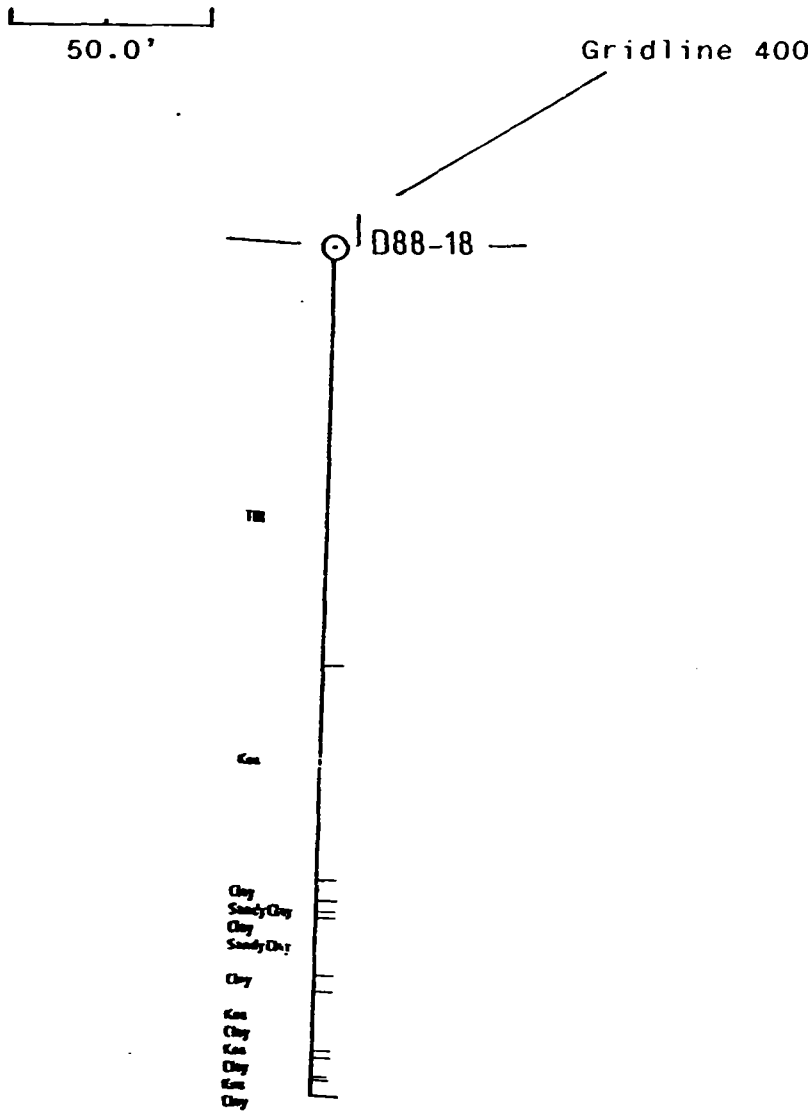
Section - D88-18

Length: 222.0'
Claim No.: T 21586, Patented
Overburden Depth: 114.75'
Dip: -90°
Northing: 580 N
Easting: 390 W
Astronomic Azimuth: 50° 09' 06" N, 82° 13' 31" W
Location: 1430.0' at 183° to claim post no. 1
Scale: 1.0" = 50.0'

50.0' Gridline 400

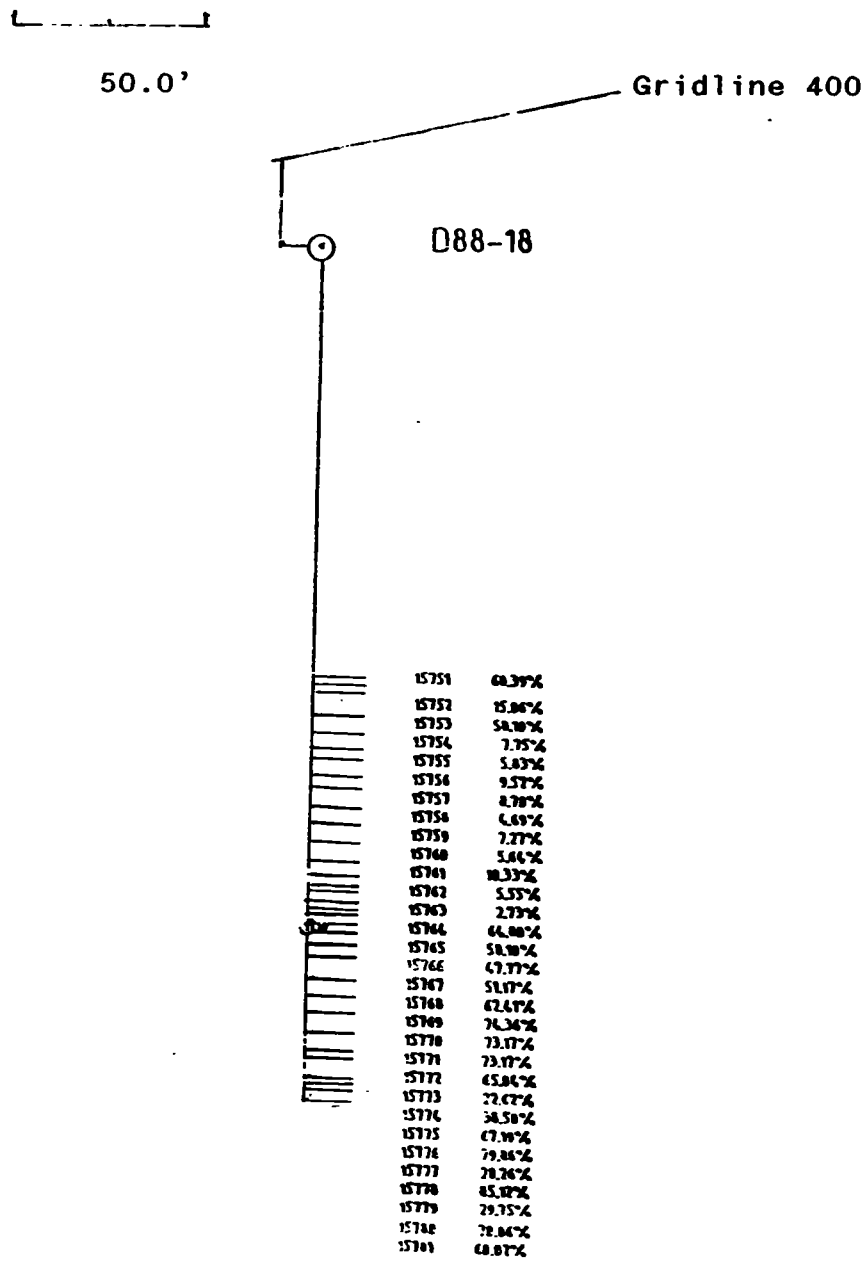
Section - D88-18

Hole Length: 222.0'
Claim No.: T 21586, Patented
Overburden Depth: 114.75'
Astronomic Azimuth: 50° 09' 16" W. 82° 13' 31" N
Location: 1430.0' at 183° to claim post no. 1
Dip: -90°
Northing: 580 N
Easting: 390 W
Scale: 1.0" = 50.0' or 1:600



Section - D88-18

Length: 222.0'
Claim No.: T 21586, Patented
Overburden Depth: 114.75'
Dip: -90°
Northing: 580 N
Easting: 390 W
Astronomic Azimuth: 50° 09' 06" N, 82° 13' 31" W
Location: 1430.0' at 183° to claim post no. 1
Scale: 1.0" = 50.0'



RECEIVED
APR 26 1995
MINING LANDS BRANCH

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000078

ROTARY DRILL HOLE RECORD

Drilling Started: Nov. 16, 1988
Drilling Finished: Nov. 16, 1988
Drilling Co.: Midwest
Dip: -90°
Hole Length: 201.0'
Overburden Depth: 95.0'
Claim No.: T 21586, Patented
Easting: 500 E
Northing: 150 N
Azimuth: 50° 08' 54" N, 82° 13' 46" W
Location: 1350.0' at 203° to Claim Post No. 1
Property: Douglas/Kipling

Logged By: A. Casselman
Logged: April, 12 1989
Core: 3.5"
Core Storage:
Mineral Research Canada
R. R. # 2
Parry Sound ON P2A 2W8
Hole No.: D88-19

SUMMARY

From	To	Description	
0.0'	3.0'	Peat	
3.0'	19.5'	Fluvial Sediments	
19.5'	77.5'	Glacial Clay Till	
77.5'	95.0'	Gravel -	Pleistocene - Overburden
95.0'	100.0'	Clay	Cretaceous
100.0'	104.0'	Sandy Clay	
104.0'	107.0'	Clay	
107.0'	110.0'	Sandy Clay	
110.0'	112.0'	Kaolin Silica Sand (Kss)	
112.0'	117.0'	Sandy Clay	
117.0'	148.0'	Kss	
148.0'	149.0'	Clay	
149.0'	150.0'	Kss	
150.0'	151.75'	Clay	
151.75'	153.0'	Kss	
153.0'	163.0'	Clay	
163.0'	174.5'	Kss	
174.5'	175.0'	Clay	
175.0'	201.0'	Kss	

EOH - 201.0'

MINERAL RESEARCH CANADA
INDUSTRIAL BLVD. RR2
PARRY SOUND, ONTARIO
CANADA P2A 2W8
FAX (705) 378-5123 BUS (705) 378-2416
DATE

Detail Log D88-19

From	To	Sample No.	Description
0.0'	3.0'		Peat
3.0'	19.5'		Fluvial Sediments - grey, pliable, fine grain silty material, massive clay.
19.5'	77.5'		Glacial Clay Till - green/grey to brown/grey, competent, 2.0 - 5.0% carbonate clasts, 10.0 - 15.0% gneissic clasts larger than 0.25", dark green/blue, highly competent, silty at lower contact with sand.
77.5'	91.0'		Gravel - fine grain predominantly silica sand grading to coarse grain, green clay (calcareous) in small amounts, mixed lithology clasts, entire hole dried.
91.0'	95.0'	17101	Gravel - as above, non-calcareous, clasts up to 2.5", rounded to angular, 23.14% kaolin.
95.0'	100.0'	17102	Clay - silty upper portion, competent, red and yellow to medium brown, minor illite, 61.09% kaolin.
100.0'	104.0'	17103	Sandy Clay - clay-poor to clay-rich, fissile, fine grain, medium brown with yellow staining to chocolate brown, with carbonaceous laminations minor illite, slightly moist, 26.84% kaolin.
104.0'	107.0'	17104	Clay - competent, disc-like, greasy, no core expansion, chocolate to medium brown, silty with minor illite, 56.91% kaolin.
107.0'	110.0'	17105	Sandy Clay - competent, fissile, fine grain, buff, minor illite, 35.77% kaolin.
110.0'	112.0'	17106	Kss - fine grain, buff, 5.31% kaolin.
112.0'	117.0'	17107	Sandy Clay - fissile, fine grain, medium brown, minor illite, darker than above, slightly coarser, 19.03% kaolin.

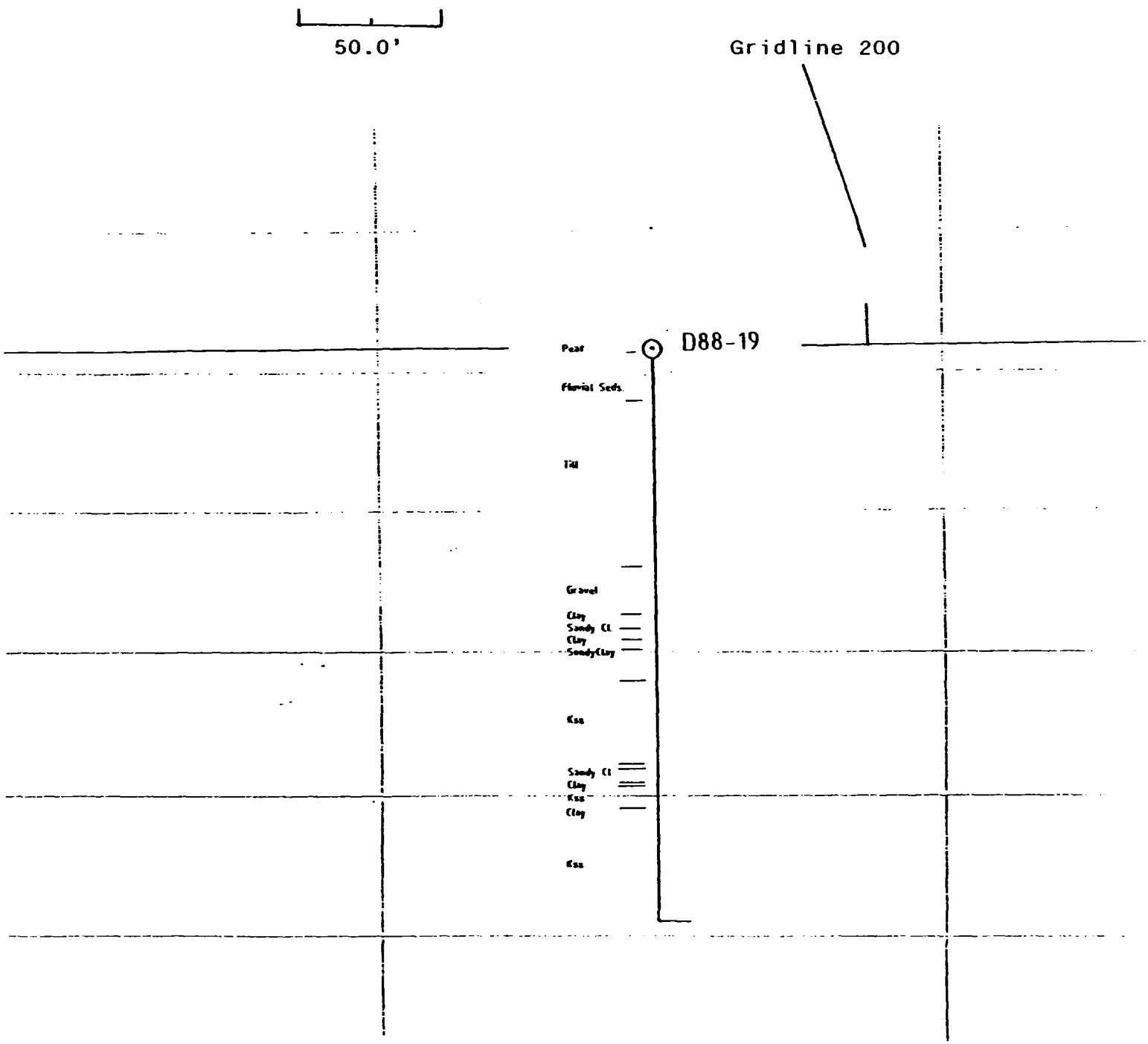
117.0'	122.0'	17108	Kss - medium grain, light brown to medium brown, 5.16% kaolin.
122.0'	128.0'	17109	Kss - medium grain, light brown, yellow contamination, 4.26% kaolin.
128.0'	135.0'	17110	Kss - medium grain grading to coarse grain in a white clay matrix, light brown to white, vari-coloured silica, 6.60% kaolin.
135.0'	139.0'	17111	Kss - with buff Clay seam at 137.0' - 137.5', competent, pliable, medium grain, light brown, heavies banding and dispersed, minor illite, moist, 11.96% kaolin.
139.0'	142.0'	17112	Kss - medium grain, with coarser clasts, and light brown, clay clots, 10.43% kaolin.
142.0'	145.0'	17113	Kss - as above, 5.98% kaolin.
145.0'	148.0'	17114	Kss - medium grain, white, 9.52% kaolin.
148.0'	149.0'	17115	Clay - competent, disc-like, wine grading to buff to yellow to yellow & light grey mottled, 79.62% kaolin.
149.0'	150.0'	17116	Kss - coarse grain, white, with red contamination, 12.71% kaolin.
150.0'	151.75'	17117	Clay - competent, disc-like, medium grey, to medium red & grey mottled, 72.69% kaolin.
151.75'	153.0'	17118	Kss - coarse grain, light brown, red contamination, 8.56% kaolin.
153.0'	155.0'	17119	Clay - competent, disc-like, red and light grey mottled to red mottled to red, 64.56% kaolin.
155.0'	163.0'	17120	Clay grading to Sandy Clay - buff to red mottled to buff sandy clay, minor illite, 59.30% kaolin.
163.0'	168.0'	17121	Kss - medium grain, medium brown, red contamination, 14.87% kaolin.
168.0'	174.5'	17122	Kss - as above, 9.61% kaolin.
174.5'	175.0'	17123	Clay - competent, highly kss contaminated, yellow and grey mottled, 57.39% kaolin.

175.0'	180.0'	17124	Kss - clay-poor and sandy clay alternating, kss - medium grain, white, to medium brown, minor illite, very large illite in the sandy clay, competent, buff, from 176.0 - 177.0' & 179.0' - 180.0', 8.46% kaolin.
180.0'	185.0'	17125	Kss - medium grain, medium yellow brown, some areas entirely devoid of kaolin, 7.51% kaolin.
185.0'	189.0'	17126	Kss - as above, coarsening downsection to coarse grain in a white clay matrix, 7.70% kaolin.
189.0'	195.0'	17127	Kss - medium grain, light brown, 6.70% kaolin.
195.0'	201.0'	17128	Kss - as above, 6.36% kaolin.

EOH - 201.0'

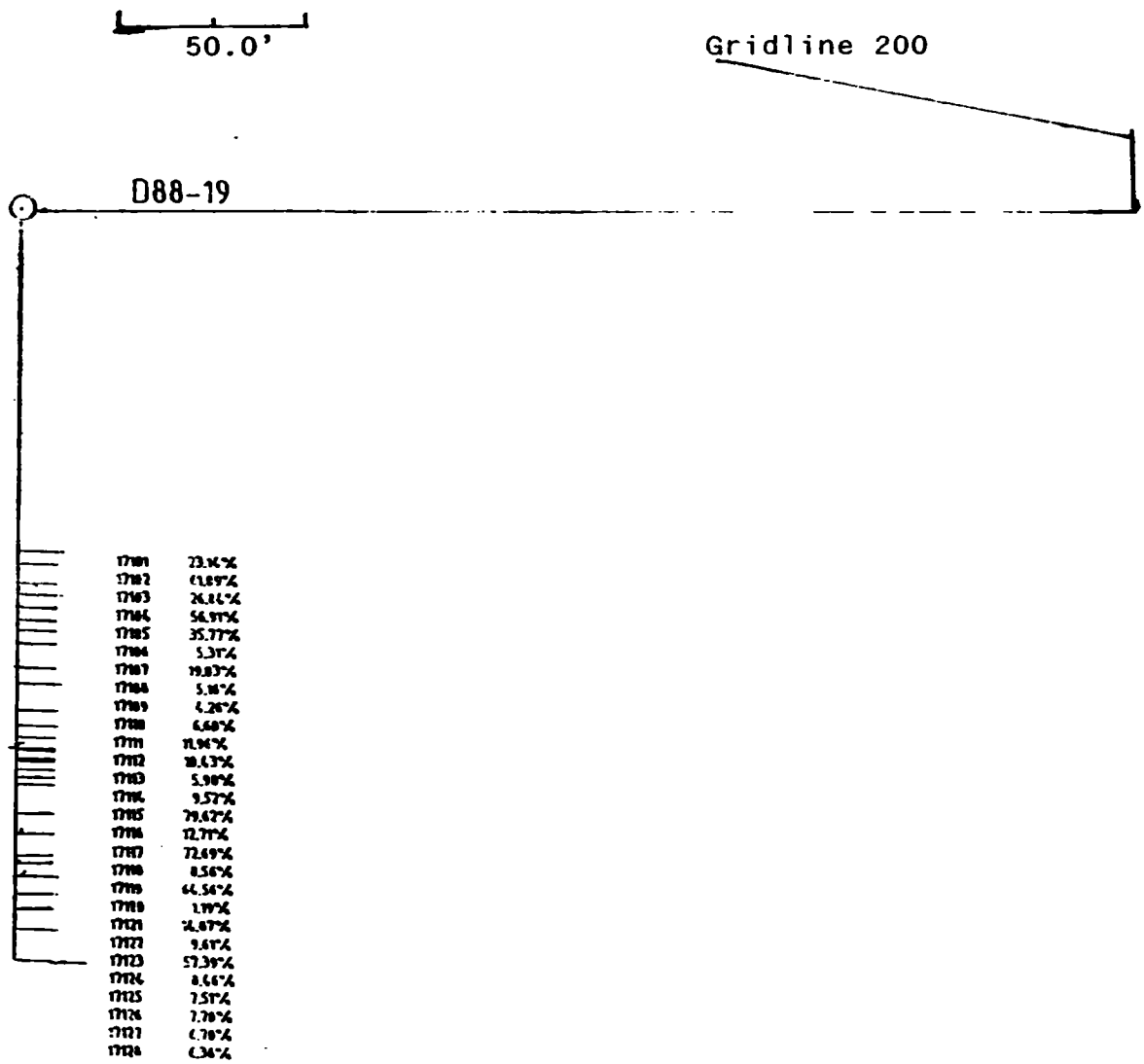
Section D88-19

Claim No.: T 21586, Patented
Hole Length: 201.0'
Overburden Depth: 95.0'
Astronomic Azimuth: 50° 08' 54" W. 82° 13' 46". N
Location: 1350.0' at 203° to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 150 N
Easting: 500 E
Dip: -90°



Section D88-19

Claim No.: T 21586, Patented
Hole Length: 201.0'
Overburden Depth: 95.0'
Astronomic Azimuth: 50° 08' 54" N, 82° 13' 46" W
Location: 1350.0' at 203° to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 150 N
Easting: 500 E
Dip: -90°



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RECEIVED
APR 26 1995
MINING LANDS BRANCH

000078

ROTARY DRILL HOLE RECORD

Drilling Started: Jan. 6, 1989
Drilling Finished: Jan. 7, 1989
Drilling Co.: Midwest
Dip: -90°
Hole Length: 255.0'
Overburden Depth: 117.0'
Claim No.: P 825794
Easting: 4790 E
Northing: 215 S
Azimuth: 50° 08' 42" N, 82° 09' 28" W
Location: 1100.0' at 228° to Claim Post No. 1
Property: Kipling

Logged By: A. Casselman
Logged: April 11, 1991
Core Size: 3.5"
Core Storage:
Mineral Research Canada Inc.
1 Industrial Blvd.,
R. R. # 2
Parry Sound ON P2A 2W8
Hole No.: 89-1

SUMMARY

From	To	Description	
0.0'	2.5'	Peat	
2.5'	15.0'	Fluvial Sediments	
15.0'	117.0'	Glacial Clay Till - Overburden	- Pleistocene
117.0'	123.5'	Sandy Clay	Cretaceous
123.5'	131.0'	Kaolin Silica Sand (Kss)	
131.0'	135.0'	Sandy Clay	
135.0'	137.25'	Kss	
137.25'	155.0'	Clay	
155.0'	157.5'	Kss	
157.5'	162.0'	Sandy Clay	
162.0'	179.0'	Kss	
179.0'	185.0'	Clay, Sandy Clay & Kss - alternating	
185.0'	190.0'	Clay	
190.0'	200.0'	Sandy Clay	
200.0'	216.0'	Kss	
216.0'	224.0'	Clay	
224.0'	250.0'	Kss	
250.0'	254.75'	Sandy Clay	
254.75'	255.0'	Kss	

MINERAL RESEARCH
CANADA
1 INDUSTRIAL BLVD. RR2
PARRY SOUND, ONTARIO
CANADA P2A 2W8
FAX (705) 378-5427 BUS (705) 378-2416
DATE

EOH - 255.0'

Detail Log 89-1

From	To	Sample No.	Description
0.0'	2.5'		Peat
2.5'	15.0'		Fluvial Sediments - grey, fine silty clay, massive, pliable, clast-free.
15.0'	117.0'		Glacial Clay Till - competent, dark green/brown, calcareous, 1.0 - 5.0% carbonate clasts, 10.0 - 15.0% gneissic clasts from 0.25" - 1.75". at 40.0' - a 6.0" clast, sandy near lower contact.
117.0'	123.5'	4701	Sandy Clay - some fine clay laminations, competent, fine grain, medium brown grading to buff, carbonaceous content lessening downsection, minor illite, sulphureous smell, becoming nearly clay-like at lower contact, some yellow laminations, 35.67% kaolin.
123.5'	131.0'	4702	Kss - medium grain, medium brown grading to white, entire hole dried at time of logging, sulphureous smell, drill core gouging on the last foot, 4.51% kaolin.
131.0'	135.0'	4703	Sandy Clay - competent, fissile, medium brown, minor illite, drill core gouging, 37.62% kaolin.
135.0'	137.25'	4704	Kss - fine grain, medium brown, flowage of material from bag, all material crumbled and contaminated, 7.44% kaolin.
137.25'	142.0'	4705	Clay - competent, disc-like, greasy, buff, some yellow tinged areas grading to grey and yellow mottled, drilling debris, 72.48% kaolin.
142.0'	148.0'	4706	Clay - competent, fissile, red with some buff mottling, more buff downsection, then becoming medium brown at 146.0', 69.52% kaolin.
148.0'	151.0'	4707	Clay - disc-like, chocolate brown, silty and illitic from 150.0' - 151.0', dark red/brown and medium brown mottled, exterior crystal growth, 55.37% kaolin.
151.0'	155.0'	4708	Clay - grading to Sandy Clay at 154.5', disc-like, some silty sections, chocolate brown to medium brown sandy clay,

			carbonaceous, minor illite, exterior crystal growth, 50.86% kaolin.
155.0'	157.5'	4709	Kss - medium grain, light brown with much exterior red staining, 4.0" medium red clay seam at 156.0', with some chocolate mottling, flowage from bag, 17.60% kaolin.
158.0'	162.0'	4710	Sandy Clay - competent, fissile, buff, red exterior coating, exterior kss contamination, 36.71% kaolin.
162.0'	167.0'	4711	Kss - medium grain, white, red exterior coating - contamination, 6.38% kaolin.
167.0'	170.0'	4712	Kss - as above, 5.22% kaolin.
170.0'	175.0'	4713	Kss - as above, no exterior red coating, some light buff clay mottling, 8.76% kaolin.
175.0'	179.0'	4714	Kss - medium grain, light grey darkening downsection, sulphureous smell, exterior crystal growth as clear acicular needles, much yellow contamination, 6.46% kaolin.
179.0'	185.0'	4715	Clay, Sandy Clay & Kss - competent, disc-like medium grey clay - alternating with medium grain, light brown kss and buff fissile illitic sandy clay - units are approximately 1.0 - 2.0", sulphureous smell, 75.24% kaolin.
185.0'	190.0'	4716	Clay - competent, medium brown, carbonaceous, flowage from bag, entirely contaminated, appears to be aerated, most material appears to be missing, 73.27% kaolin.
190.0'	195.0'	4717	Sandy Clay - grading to clay - competent, disc-like, chocolate brown, highly carbonaceous, illitic, 62.08% kaolin.
195.0'	200.0'	4718	Sandy Clay - grading to clay - competent, disc-like, medium brown, sandy clay grading to light brown clay, carbonaceous, minor illite, 38.33% kaolin.
200.0'	201.0'	4719	Kss - medium grain, light brown, some drilling debris, entirely contaminated, 3.67% kaolin.
201.0'	206.0'	4720	Kss - medium grain, medium brown, yellow exterior and white interior, 6.48% kaolin.

206.0'	209.0'	4721	Kss - fine grain, light brown, chocolate brown contamination, 17.39% kaolin.
209.0'	212.0'	4722	Kss - fine grain, light brown - grading to sandy clay, illitic, competent, fissile, becoming medium brown downsection - nearly clay, becoming disc-like, carbonaceous and black before grading back to chocolate brown sandy clay and medium grain, medium brown kss, 53.04% kaolin.
212.0'	216.5'	4723	Kss - medium grain, medium brown with chocolate brown clay clots up to 2.5", 8.68% kaolin.
216.5'	221.0'	4724	Clay - competent, disc-like, greasy, dark brown, with light brown sandy clay seams at 218.0' (4.0") and at 217.0' (2.0") and fine lignite laminations, 66.63% kaolin.
221.0'	224.0'	4725	Clay - as above, from 221.0' - 222.0' putty-like and liquid saturated, highly carbonaceous as small blade-like pieces, with some competent almost fissile sections, 58.78% kaolin.
224.0'	229.0'	4726	Kss - fine grain, grading to medium grain, them to coarse grain, light brown, some chocolate brown clay clots at the start of the coarse grain section, drilling debris, 10.87% kaolin.
229.0'	233.0'	4727	Kss - buff, fine grain from 229.0' - 230.0' then becoming medium grain, white, 7.87% kaolin.
233.0'	238.0'	4728	Kss - coarse grain, white, with frequent varied coloured sub-angular silica clasts up to 1.0", 6.20% kaolin.
238.0'	245.0'	4729	Kss - medium grain, light brown, 7.14% kaolin.
245.0'	252.0'	4730	Kss - coarse grain, light brown from 245.0' - 249.0', sandy clay from 249.0' - 250.0' - competent, fissile, buff, kss from 250.0 - 252.0' - medium grain, medium brown, with rare coarse vari-coloured silica clasts, 19.65% kaolin.
252.0'	254.75'	4731	Sandy Clay - competent, disc-like, fine grain, medium brown, carbonaceous, minor illite, 41.72% kaolin.

254.75' 255.0' 4732 Kss - medium grain, white, 5.87% kaolin.

EOH - 255.0'

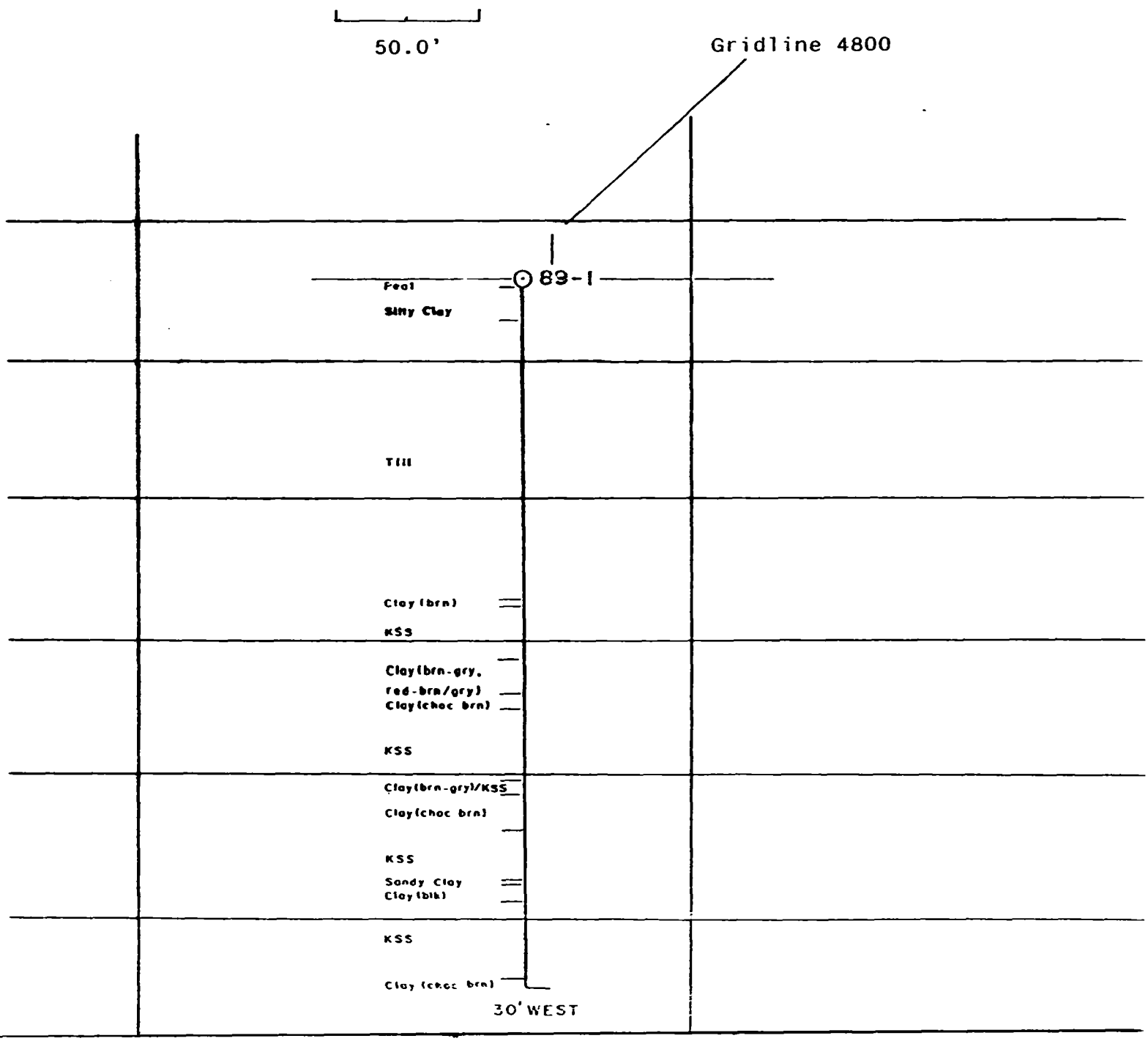
Section: 89-1

Claim No.: P 825794
Hole Length: 255.0'
Overburden Depth: 117.0'
Astronomic Azimuth: 50° 08' 42" N, 82° 09' 28" W
Location: 1100.0' at 288° to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 215 S
Easting: 4790 E
Dip: -90°

50.0' Gridline 4800

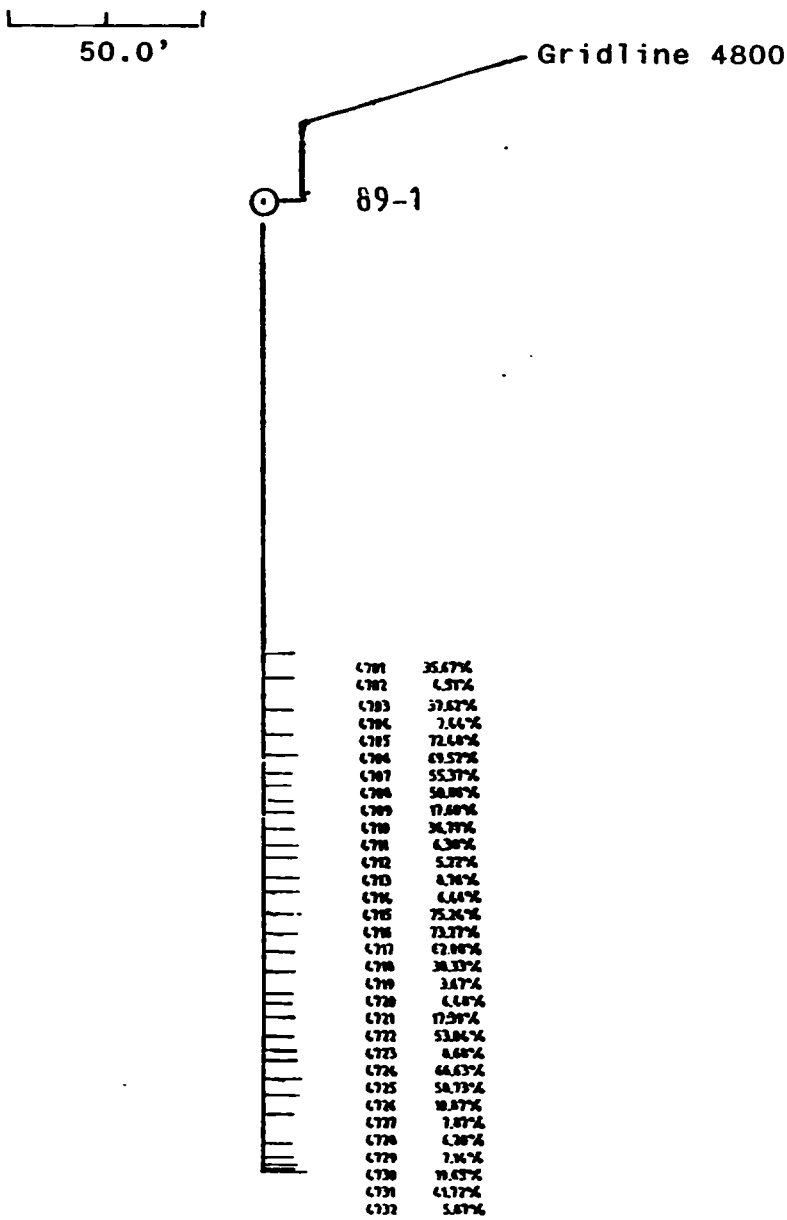
Section: 89-1

Claim No.: P 825794
Hole Length: 255.0'
Overburden Depth: 117.0'
Astronomic Azimuth: 50° 08' 42" W. 82° 09' 28" N
Location: 1100.0' at 288° to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 215 S
Easting: 4790 E
Dip: -90°



Section: 89-1

Claim No.: P 825794
Hole Length: 255.0'
Overburden Depth: 117.0'
Astronomic Azimuth: 50° 08' 42" N, 82° 09' 28" W
Location: 1100.0' at 288° to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 215 S
Easting: 4790 E
Dip: -90°



RECEIVED
APR 2 6 1995
MINING LANDS BRANCH

ROTARY DRILL HOLE RECORD

Drilling Started: Jan. 9, 1989
Drilling Finished: Jan. 12, 1989
Drilling Co.: Midwest
Dip: -90°
Hole Length: 250.0'
Overburden Depth: 127.0'
Claim No.: P 825808
Easting: 6210 E
Northing: 775 N
Azimuth: 50° 09' 09" N, 82° 08' 09" W
Location: 380.0' at 233° to Claim Post No. 1
Property: Kipling

Logged By: A. Casselman
Logged: Feb. 8, 1991
Core Size: 3.5"
Core Storage:
Mineral Research Canada
R. R. # 2
Parry Sound ON P2A 2W8
Hole No.: 89-4

SUMMARY

From	To	Description	
0.0'	1.0'	Peat	
1.0'	127.0'	Glacial Clay Till - Overburden	Pleistocene
127.0'	161.5'	Kaolin Silica Sand (Kss)	Cretaceous
161.5'	163.0'	Sandy Clay	
163.0'	167.0'	Clay	
167.0'	170.0'	Sandy Clay	
170.0'	174.0'	Clay	
174.0'	185.0'	Kss	
185.0'	195.0'	Clay	
195.0'	200.0'	Sandy Clay	
200.0'	221.0'	Clay & Sandy Clay	
221.0'	228.0'	Sandy Clay	
228.0'	250.0'	Kss	

MINERAL RESEARCH CANADA
BUS (705) 378-2416
DAP

EOH - 250.0'

Detailed Log 89-4

From	To	Sample No.	Description
0.0'	1.0'		Peat
1.0'	127.0'		Glacial Clay Till - calcareous, medium green/brown, very competent, some areas of kss from 121.0' - 127.0'- poor quality, coarse grain, light yellow brown, areas of fissile clast-free material alternating with more massive material which contains 2.0 - 5.0% carbonate clasts & 10.0% gneissic clasts, entire hole dried.
127.0'	135.0'	15551	Kss - medium grain, light grey, 3.37% kaolin.
135.0'	139.0'	15552	Kss - medium grain, light brown grading to medium brown, 6.25% kaolin.
139.0'	143.0'	15553	Kss - medium grain, light brown, buff clay seam at 139.25 - 139.5', 11.90% kaolin.
143.0'	146.0'	15554	Kss - very light grey, medium grey grading through sandy clay to clay, clay - competent, disc-like grading to fissile, light grey and light yellow mottled to medium grey/brown sandy clay to medium grey kss, 25.24% kaolin.
146.0'	149.0'	15555	Kss - medium grain, light grey, 6.41% kaolin.
149.0'	153.0'	15556	Kss - coarse grain, white, much kss entirely coated with intensely coloured (purple and red) moulds, 16.15% kaolin.
153.0'	156.0'	15557	Kss - as above, higher clay content, 17.27% kaolin.
156.0'	160.0'	15558	Kss - medium grain, some coarse portions, buff, 11.75% kaolin.
160.0'	161.5'	15559	Kss - as above, grading to buff clay - competent, 25.70% kaolin.
161.5'	163.0'	15560	Sandy Clay - apparent glacial clay till - sandy calcareous with frequent large angular clasts, medium green/brown, 23.85% kaolin.

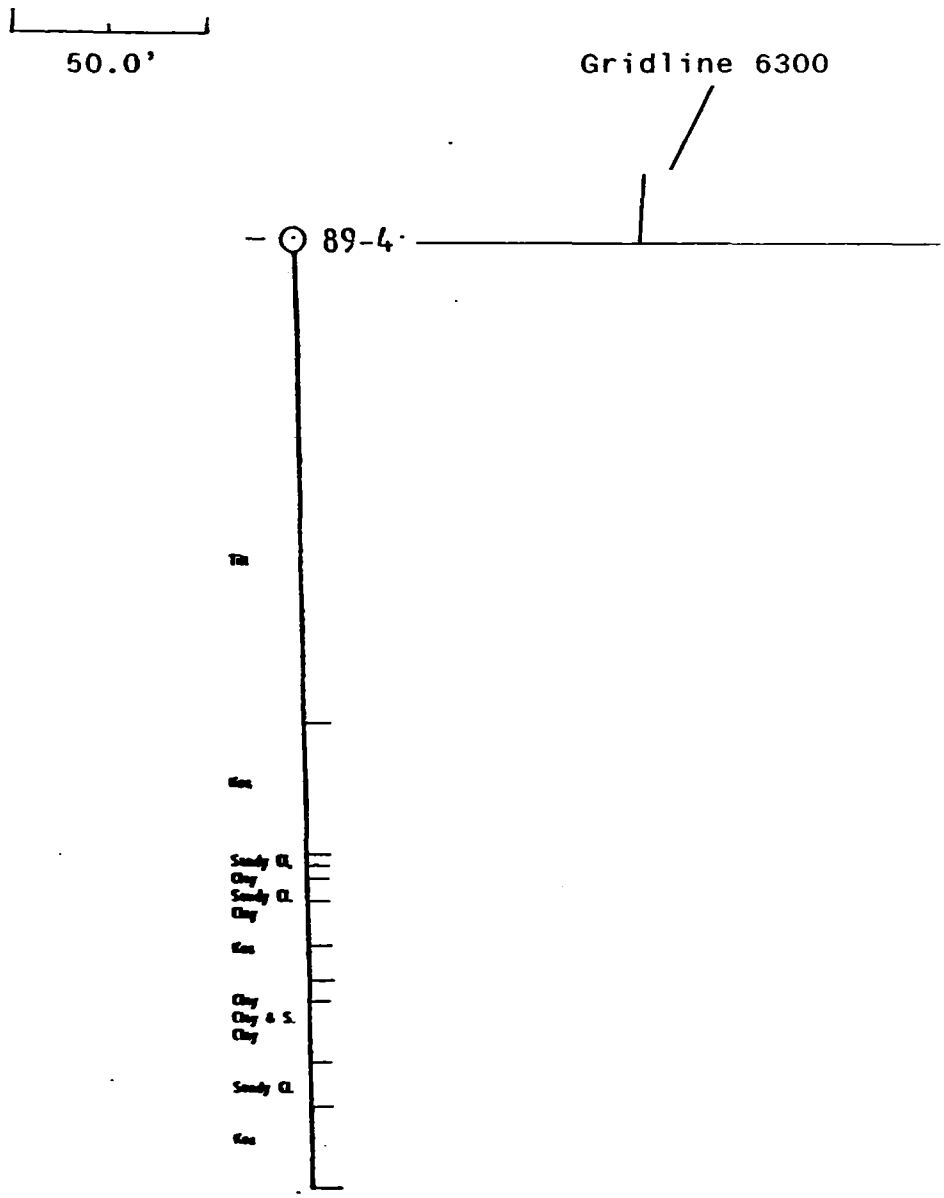
163.0'	167.0'	15561	Clay - competent, fissile, chocolate brown, carbonaceous, lighter brown laminations, 165.0' - 165.5' - lignite seam, black, small competent fragments, 61.19% kaolin.
167.0'	170.0'	15562	Sandy Clay - competent, fissile, medium brown, carbonaceous, minor illite, 28.23% kaolin.
170.0'	174.0'	15563	Sandy Clay - competent, disc-like, fissile, somewhat silty in areas, carbonaceous, minor illite, very dark brown, 49.11% kaolin.
174.0'	178.0'	15564	Kss - coarse grain, buff, exterior chocolate contamination, up to 2.0" rounded smoky quartz, 17.22% kaolin.
178.0'	185.0'	15565	Kss - coarse grain in a white clay matrix, vari-coloured silica, one 2.0" dolomitic siltstone clast, pitted, dark grey weathered and fresh surfaces, Devonian, 28.23% kaolin.
185.0'	189.0'	15566	Clay - competent, disc-like, chocolate brown, carbonaceous, 3.0" white veinal quartz clast, rounded with a cut angular surface, 49.11% kaolin.
189.0'	195.0'	15567	Clay - some silty sections, illitic, carbonaceous, competent, disc-like, chocolate brown, 73.67% kaolin.
195.0'	200.0'	15568	Sandy Clay - grading to mostly Kss - fine grain sandy clay coarsening to fine grain kss, chocolate brown, much flowage from bag, 17.06% kaolin.
200.0'	205.0'	15569	Clay & Sandy Clay - alternating, competent, fissile, fine grain sandy clay, chocolate brown, minor illite, 71.59% kaolin.
205.0'	209.0'	15570	Clay & Sandy Clay - as above, 72.99% kaolin.
209.0'	213.0'	15571	Clay & Sandy Clay - as above, 58.66% kaolin.
213.0'	218.0'	15572	Clay & Sandy Clay - as above, 70.46% kaolin.
218.0'	221.0'	15573	Clay & Sandy Clay - as above, 58.78% kaolin.
221.0'	225.0'	15574	Sandy Clay - fissile, fine grain, chocolate brown, carbonaceous, competent, 26.51% kaolin.

225.0'	228.0'	15575	Sandy Clay - fissile, competent, buff, minor illite, 30.25% kaolin.
228.0'	232.0'	15576	Kss - fine grain, buff, minor illite, sulphureous smell, 15.39% kaolin.
232.0'	236.0'	15577	Kss - as above, minor heavies, 11.37% kaolin.
236.0'	241.0'	15578	Kss - medium grain, white, minor heavies, 9.90% kaolin.
241.0'	245.0'	15579	Kss - coarse grain, vari-coloured silicas, white, 9.47% kaolin.
245.0'	250.0'	15580	Kss - medium grain, white, minor heavies and illite, some hematitic staining, large garnetitic hematitic silica clast at 247.0', full bore size, 2.5" thick, 8.58% kaolin.

EOH - 250.0'

Section 89-4

Hole Length: 250.0'
Claim No.: P 825808
Overburden Depth: 127.0'
Astronomic Azimuth: 50° 09' 09" W. 82° 08' 09" N
Location: 380.0' at 233° to claim post no.1
Dip: -90°
Northing: 775 N
Easting: 6210 E
Scale: 1.0" = 50.0' or 1:600



Section 89-4

Hole Length: 250.0'
Claim No.: P 825808
Overburden Depth: 127.0'
Astronomic Azimuth: 50° 09' 09" N, 82° 08' 09" W
Location: 380.0' at 233° to claim post no. 1
Dip: -90°
Northing: 775 N
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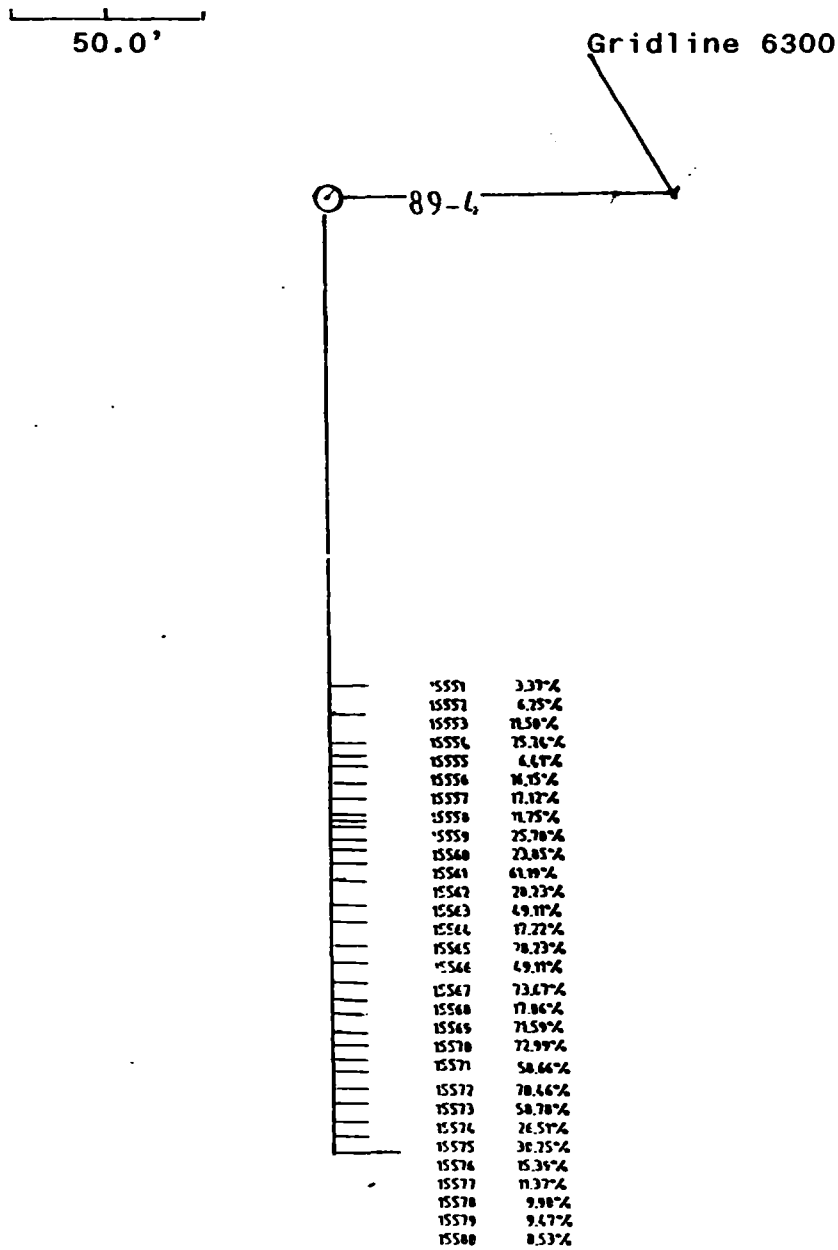

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APR 26 1995
MINING LANDS BRANCH

ROTARY DRILL HOLE RECORD

Drilling Started: Jan. 27, 1989
Drilling Finished: Jan. 28, 1989
Drilling Co.: Midwest
Dip: -90°
Hole Length: 135.0'
Overburden Depth: 82.0'
Claim No.: P970195
Easting: 7215 E
Northing: 200 S
Azimuth: 50° 08' 43" N, 82° 07' 09" W
Location: 400.0' at 214° to Claim Post No. 1
Property: Kipling

Logged By: A. Casselman
Logged: April 16, 1989
Core Size: 3.5"
Core Storage:
Mineral Research Canada
R. R. # 2
Parry Sound, ON P2A 2W8
Hole No.: 89-12

SUMMARY

From	To	Description	
0.0'	9.0'	Peat	
9.0'	82.0'	Glacial Sandy Clay Till	Overburden - Pleistocene
82.0'	122.0'	Kaolin Silica Sand (Kss)	Cretaceous
122.0'	131.0'	Clay	
131.0'	133.0'	Sandy Clay	
133.0'	135.0'	Kss	

EOH - 135.0'

MINERAL RESEARCH CANADA
INDUSTRIAL BLVD. RR2
PARRY SOUND, ONTARIO
CANADA P2A 2W8
FAX (705) 378-5123 BUS (705) 378-2416

DATE

Detail Log 89-12

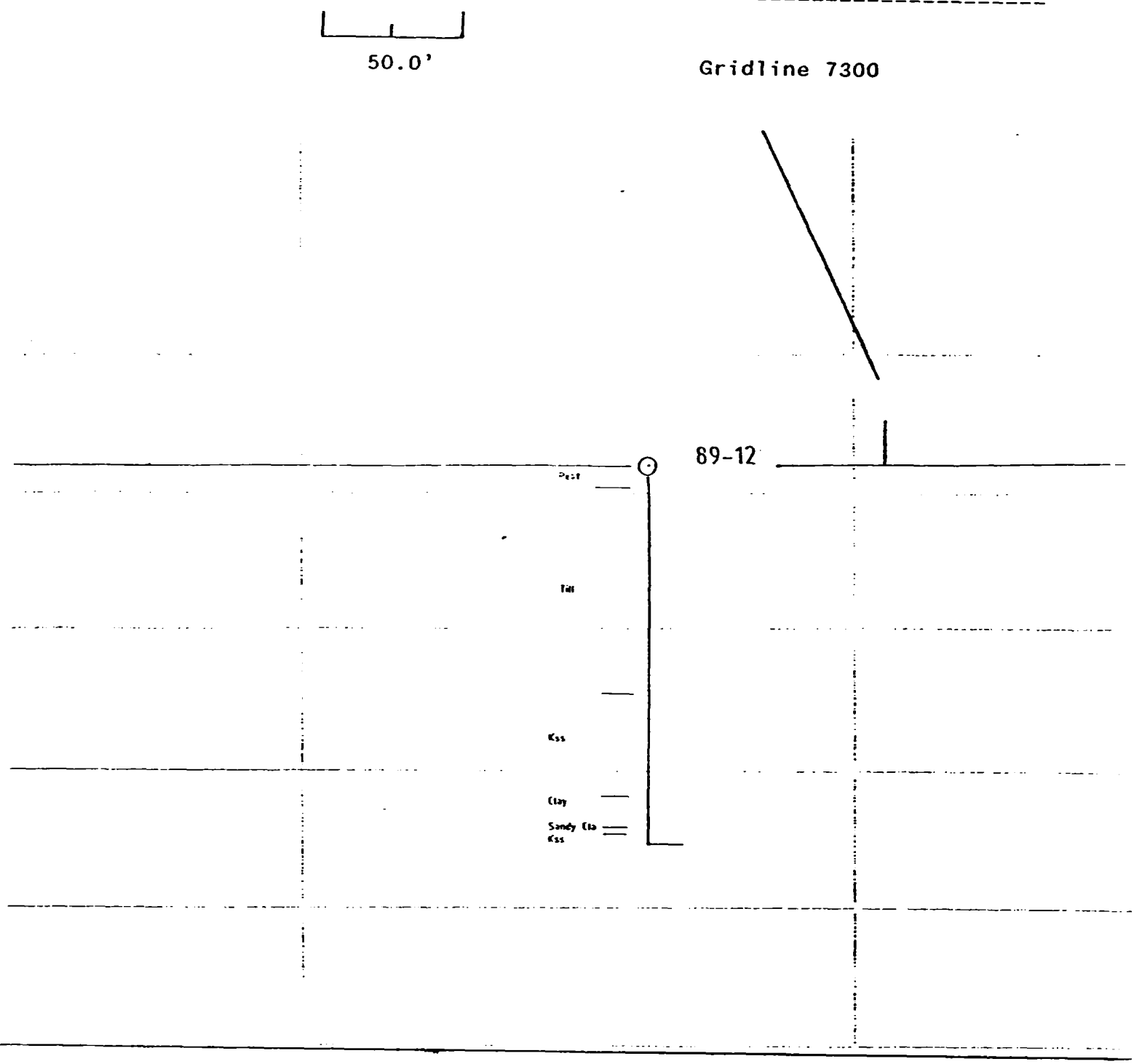
From	To	Sample No.	Description
0.0'	9.0'		Peat
9.0'	82.0'		Glacial Sandy Clay Till - fissile, fine grain, medium green/grey, angular carbonate clasts - 10.0 - 15.0% & 10.0% gneissic clasts.
82.0'	87.0'	17301	Kss - fine grain, light grey/green, calcareous at upper contact, drilling debris, 9.37% kaolin.
87.0'	93.0'	17302	Kss - fine grain, coarsening downsection to medium grain, light grey, drilling debris, 7.80% kaolin.
93.0'	97.0'	17303	Kss - medium grain, light brown, entire hole dried, 8.56% kaolin.
97.0'	100.0'	17304	Kss - medium grain, light yellow brown, drilling debris, 2.82% kaolin.
100.0'	105.0'	17305	Kss - medium grain, light grey, 4.50% kaolin.
105.0'	110.0'	17306	Kss - medium grain, light yellow/brown, 5.45% kaolin.
110.0'	115.0'	17307	Kss - 110.0' - 112.5' - coarse grain, 112.5' - 115.0' - fine grain, grading to medium grain, light brown, areas of red mould, 7.75% kaolin.
115.0'	117.0'	17308	Kss - fine grain, light brown, flowage from bag, large amount of material, entirely contaminated, 17.50% kaolin.
117.0'	122.0'	17309	Kss - medium grain, coarsening downsection to coarse, light brown, flowage from bag, drilling debris, 8.94% kaolin.
122.0'	127.0'	17310	Clay - competent, disc-like, greasy, red grading to buff mottled with yellow grading to yellow/brown with concord purple laminations, mangled downsection, sandy at upper contact with small hematite nodule concentrations, 55.95% kaolin.
127.0'	131.0'	17311	Clay - disc-like, competent, light

			brown, 55.47% kaolin.
131.0'	133.0'	17312	Sandy Clay - competent, fissile, medium grey, minor illite, 35.77% kaolin.
133.0'	135.0'	17313	Kss - medium grain, medium grey/brown, 20.23% kaolin.

EOH - 135.0'

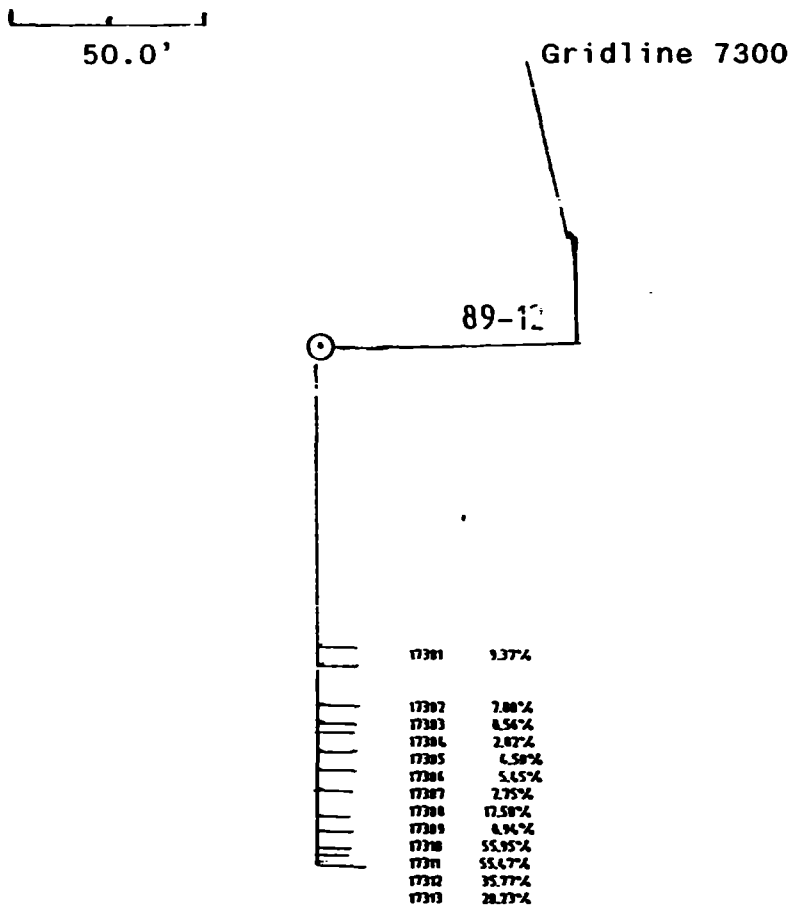
Section 89-12

Claim No.: P 970195
Hole Length: 135.0'
Overburden Depth: 82.0'
Astronomic Azimuth: 50° 08' 43" W. 82° 07' 09" N
Location: 400.0' at 214.0' to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 200 S
Easting: 7215 E
Dip: -90°



Section 89-12

Claim No.: P 970195
Hole Length: 135.0'
Overburden Depth: 82.0'
Astronomic Azimuth: 50° 08' 43" N, 82° 07' 09" W
Location: 400.0' at 214° to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 200 S
Easting: 7215 E
Dip: -90°



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MINING LANDS BRANCH

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ROTARY DRILL HOLE RECORD

Drilling Started: Feb. 23, 1989
Drilling Finished: Feb. 24, 1989
Drilling Co.: Midwest
Dip: -90°
Hole Length: 250.0'
Overburden Depth: 75.0'
Claim No.: P 825796
Easting: 5300 E
Northing: 200 S
Azimuth: 50° 08' 40" N, 82° 08' 59" W
Location: 150.0' at 186° to Claim Post No. 1
Property: Kipling

Logged By: A. Casselman
Logged: Dec. 15, 1989
Core Size: 3.5"
Core Storage:
Mineral Research Canada
R. R. # 2
Parry Sound ON P2A 2W8
Elevation: 348.0'
Hole No.: 89-42

SUMMARY

From	To	Description	
0.0'	1.0'	Gravel	
1.0'	8.0'	Glacial Clay Till	
8.0'	11.0'	Gravel	
11.0'	32.0'	Glacial Clay Till	
32.0'	32.5'	Sand	
32.5'	75.0'	Glacial Clay Till - Overburden - Pleistocene	
75.0'	75.5'	Kaolin Silica Sand (Kss)	Cretaceous
75.5'	76.0'	Clay	
76.0'	105.75'	Kss	
105.75'	108.0'	Clay	
108.0'	109.75'	Sandy Clay	
109.75'	137.5'	Kss	
137.0'	139.0'	Sandy Clay	
139.0'	143.0'	Kss & Clay	
143.0'	152.0'	Clay	
152.0'	154.75'	Sandy Clay	
154.75'	161.0'	Kss	
161.0'	170.5'	Sandy Clay	
170.5'	223.0'	Kss	
223.0'	225.0'	Sandy Clay	
225.0'	242.0'	Kss	
242.0'	244.0'	Sandy Clay	
244.0'	250.0'	Kss	

EOH - 250.0'

Detail Log - 89-42

From	To	Sample No.	Description
0.0'	1.0'		Gravel - green/grey, coarse grain, clasts up to 3.0".
1.0'	8.0'		Glacial Clay Till - green/grey, pliable and non-pliable competent sections interbedded, 15.0% clasts of up to 2.0", Precambrian gneissic.
8.0'	11.0'		Gravel - as previous.
11.0'	32.0'		Glacial Clay Till - as previous.
32.0'	32.5'		Sand - green/grey with brown areas, medium grain.
32.5'	75.0'		Glacial Clay Till - as previous.
75.0'	75.5'	13801	Kss - poorly sorted, medium grain, light grey. 12.18% kaolin.
75.5'	76.0'	13802	Clay - pliable, light brown, some yellow areas. 52.76% kaolin.
76.0'	78.5'	13801	Kss - as previous. 12.18% kaolin.
78.5'	79.0'	13802	Clay - as previous. 52.76% kaolin.
79.0'	83.0'	13803	Kss - well sorted, medium grain white. 12.56% kaolin.
83.0'	88.0'	13804	Kss - as above. 10.23% kaolin.
88.0'	92.0'	13805	Kss - as above. 8.58% kaolin.
92.0'	97.0'	13806	Kss - as above. 6.20% kaolin.
97.0'	101.0'	13807	Kss - as above. 5.67% kaolin.
101.0'	105.75'	13808	Kss - as above, 105.0' - 105.75' - grey. 7.01% kaolin.
105.75'	108.0'	13809	Clay - competent, friable grading to pliable, yellow with brown tinge. 72.84% kaolin.
108.0'	109.75'	13810	Sandy Clay - light grey, competent, minor illite. 51.09% kaolin.
109.75'	114.0'	13811	Kss - well sorted, medium grain, yellow, 113.5' - 113.75' - white, 113.75' - 114.0'

			- sandy clay - light grey. 14.51% kaolin.
114.0'	117.0'	13812	Kss - as above, white. 8.35% kaolin.
117.0'	121.0'	13813	Kss - as above. 9.06% kaolin.
121.0'	124.0'	13814	Kss - white, medium grain, minor illite, larger yellow chert and jasper as larger clasts, 8.23% kaolin.
124.0'	127.0'	13815	Kss - as above, 8.66% kaolin.
127.0'	130.0'	13816	Kss - as above, 7.90% kaolin.
130.0'	134.0'	13817	Kss - as above, 10.81% kaolin.
134.0'	137.5'	13818	Kss - as above, with a seam of buff, competent sandy clay at 136.5' of 3.0", 22.05% kaolin.
137.5'	139.0'	13819	Sandy Clay - buff & chocolate brown laminated, minor illite, 56.58% kaolin.
139.0'	143.0'	13820	Kss & Clay - interbedded - competent chocolate brown clay with lighter discontinuous laminations interbedded with medium grain dark brown and white kss, 42.13% kaolin.
143.0'	147.0'	13821	Clay - chocolate brown grading to black greasy, fissile grading to disc-like some minor carbonaceous and sulphur-rich (yellow) sandy sections, 64.58% kaolin.
147.0'	149.0'	13822	Clay - black, flowage when put in box, crumbly now, much fossil wood, small seams of white and areas of haematite staining, 68.07% kaolin.
149.0'	152.0'	13823	Clay - as above, 2.0" of more pliable chocolate brown at 150.5", 63.80% kaolin.
152.0'	154.75'	13824	Sandy Clay - chocolate brown to near black, pliable, minor illite, lignite seams, 57.65% kaolin.
154.75'	161.0'	13825	Kss - medium grain, some areas completely devoid of clay - other areas have clay rich seams of grey and sulphur yellow - rare larger smoky quartz clasts, 7.24% kaolin.
161.5'	162.5'	13826	Clay - competent, buff, 60.15% kaolin.
162.5'	167.0'	13827	Sandy Clay - low clay content, buff, fine

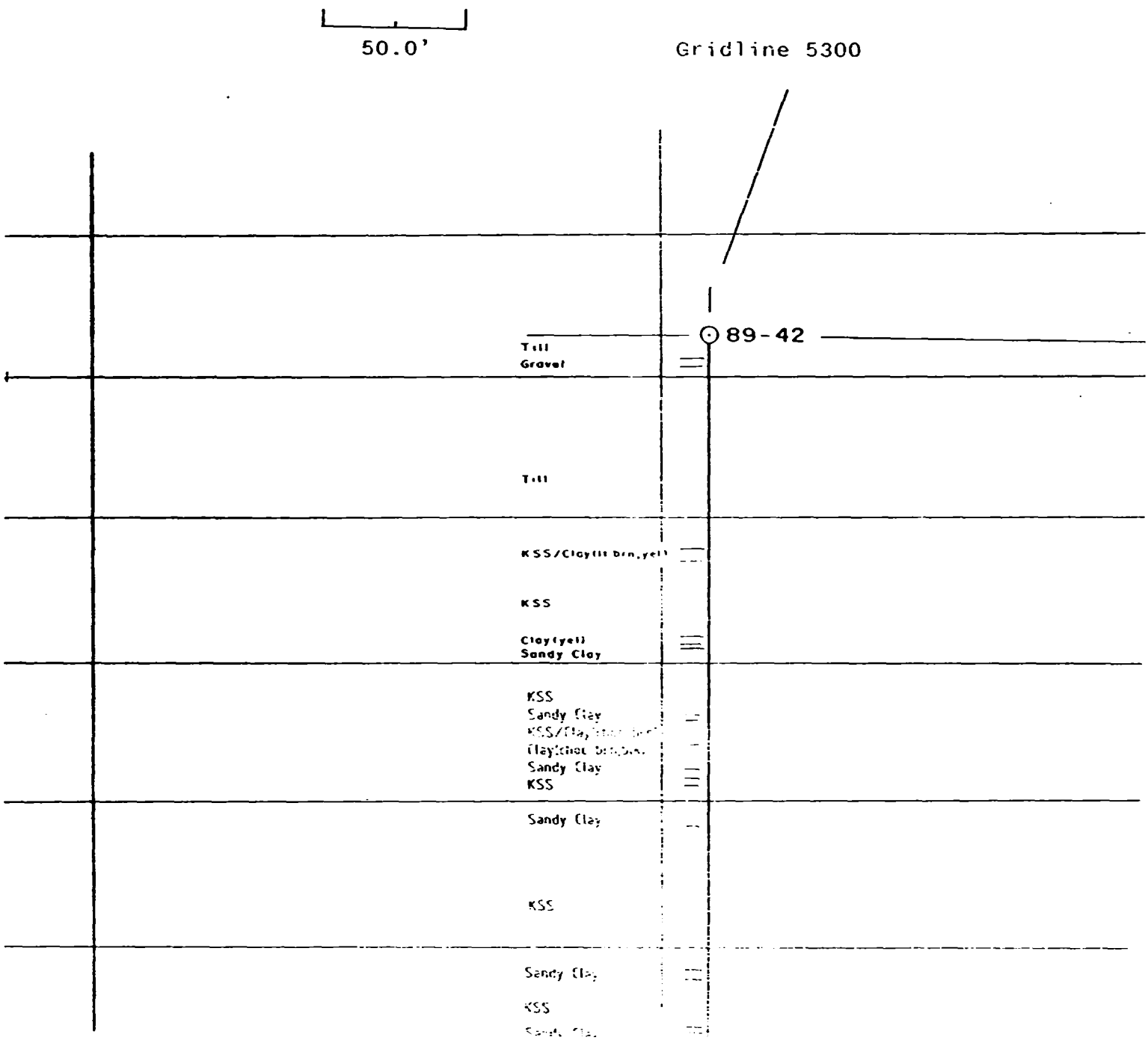
			grain, dried, minor illite, granular, 20.33% kaolin.
167.0'	170.5'	13828	Sandy Clay - grading to near clay - decreasing sand content downsection with increasing pliability, 58.94% kaolin.
170.5'	175.0'	13829	Kss - medium and light brown, low clay content, high illite, 8.35% kaolin.
175.0'	179.0'	13830	Kss - as above, lightening downsection to white, minor heavies, 13.32% kaolin.
179.0'	184.0'	13831	Kss - as above, heavies banding, slightly more clay and slightly coarser grain, 8.91% kaolin.
184.0'	193.0'	13832	Kss - as above, medium grain, with rare coarser clasts of bi-coloured blue and grey knobby quartz, minor illite and heavies as banding, 9.11% kaolin.
193.0'	195.0'	13833	Kss - medium grain, with coarser clasts of smoky quartz - rounded, minor illite and heavies, 8.28% kaolin.
195.0'	199.0'	13834	Kss - as above, more frequent and larger rounded smoky quartz clasts and yellow chert clasts with blue clay at contact of the larger clasts, 10.71% kaolin.
199.0'	203.0'	13835	Kss - as above, 10.66% kaolin.
203.0'	209.0'	13836	Kss - medium grain, rare larger rounded yellow chert and smoky quartz, light grey, minor illite and heavies, 5.75% kaolin.
209.0'	212.0'	13837	Kss - medium grain but coarser than above, some yellow sections, 2.71% kaolin.
212.0'	216.0'	13838	Kss - as above, 7.82% kaolin.
216.0'	220.5'	13839	Kss - as above, 7.70% kaolin.
220.5'	223.0'	13840	Kss - white, medium grain, interbedded with lighter sandy laminations and pliable sandy clay units, high illite content in chocolate brown, 27.44% kaolin.
223.0'	225.0'	13841	Sandy Clay - low clay content, buff grading to clay-rich chocolate brown, 43.90% kaolin.
225.0'	229.0'	13842	Kss - medium brown, fine grain, coarsening downsection to medium grain, very light

			brown, minor illite, 6.53% kaolin.
229.0'	231.0'	13843	Kss - as above, some areas of finer darker material, 7.70% kaolin.
231.0'	234.0'	13844	Kss - fine grain, white, darkening downsection to yellow and brown, minor illite, 12.81% kaolin.
234.0'	237.0'	13845	Kss - as above, lightening downsection to ivory, 10.10% kaolin.
237.0'	240.0'	13846	Kss - as above, coarsening downsection, 12.76% kaolin.
240.0'	242.0'	13847	Kss - medium grain, medium brown with frequent larger rounded clasts up to 1.0", smoky quartz, yellow chert, some sandy clay interbedding near lower contact - dark red brown colour, 14.03% kaolin.
242.0'	244.0'	13848	Sandy Clay - black, high carbonaceous content grading to red/brown, pliable, high illite, 39.67% kaolin.
244.0'	247.0'	13849	Kss - white, medium to fine grain, rare larger clasts, rounded smoky quartz, 8.00% kaolin.
247.0'	250.0'	13850	Kss - as above, 4.28% kaolin.

EOH - 250.0'

Section 89-42

Claim No: P 825796
Hole Length: 250.0'
Overburden Depth: 75.0'
Astronomic Azimuth: 50° 08' 40" W. 82° 08' 59" N
Location: 150.0' at 186° to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 200 S
Easting: 5300 E
Dip: -90°



Section 89-42

Claim No: P 825796
Hole Length: 250.0'
Overburden Depth: 75.0'
Astronomic Azimuth: 50° 08' 40" N, 82° 08' 59" W
Location: 150.0' at 186° to claim post no. 1
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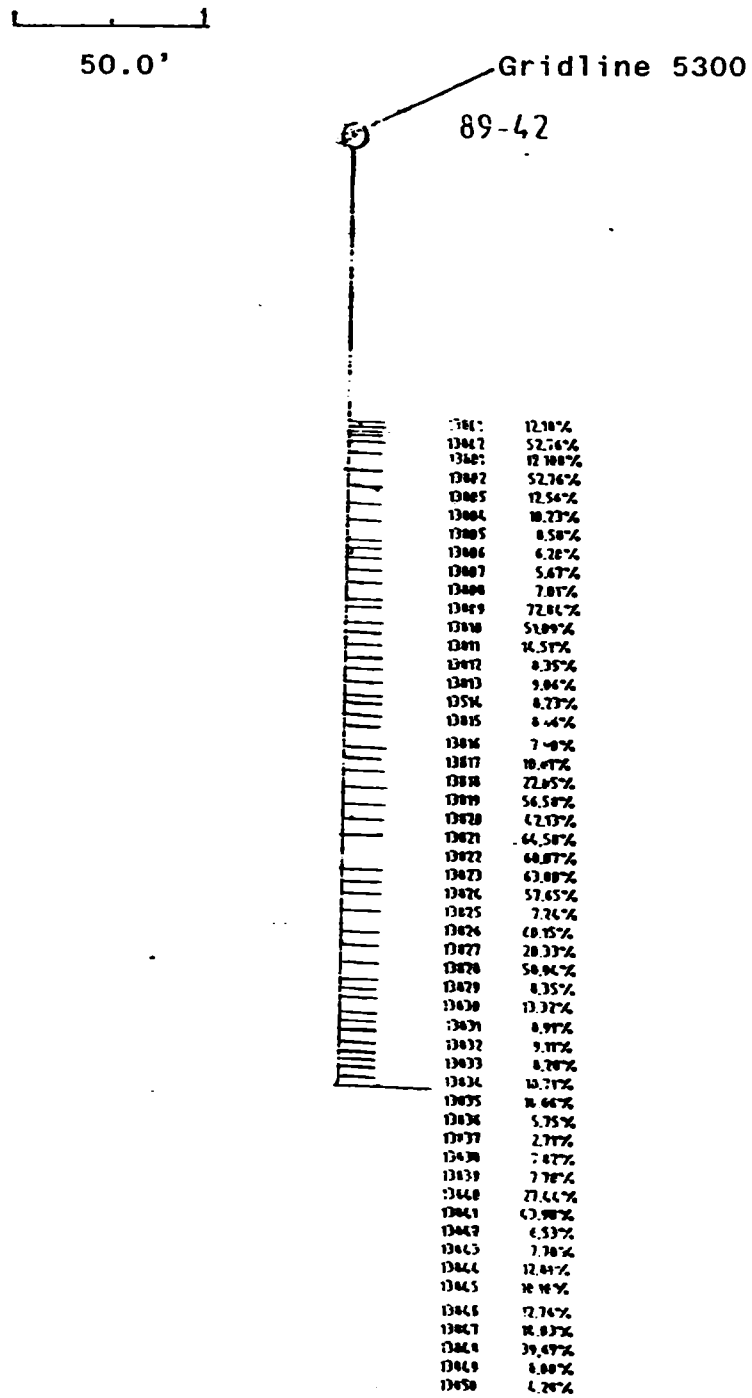
Northing: 200 S
Easting: 5300 E
Dip: -90°



RECEIVED
APR 26 1995
MINING LANDS BRANCH

000078

ROTARY DRILL HOLE RECORD

Drilling Started: Feb. 26, 1989
Drilling Finished: Feb. 26, 1989
Drilling Co.: Midwest
Dip: -90°
Hole Length: 237.0'
Overburden Depth: 89.0'
Claim No.: P 825810
Easting: 5895 E
Northing: 305 S
Azimuth: 50° 08' 40" N, 82° 08' 26" W
Location: 2250.0' at 218° to Claim Post No. 1
Property: Kipling

Logged By: A. Casselman
Logged: Feb. 5, 1989
Core Size: 3.5"
Core Storage:
Mineral Research Canada
R. R. # 2
Parry Sound ON P2A 2W8
Elevation: 364.0'
Hole No.: 89-62

SUMMARY

From	To	Description
0.0'	5.0'	Peat
5.0'	25.0'	Glacial Sandy Clay Till
25.0'	36.75'	Fluvial Sediments
36.75'	39.0'	Sand
39.0'	89.0'	Glacial Clay Till - Overburden - Pleistocene
89.0'	135.0'	Kaolin Silica Sand (Kss) Cretaceous
135.0'	135.0'	Clay
135.0'	137.0'	Sandy Clay
137.0'	139.0'	Clay
139.0'	141.0'	Sandy Clay
141.0'	144.0'	Clay
144.0'	150.0'	Sandy Clay
150.0'	152.0'	Clay
152.0'	175.0'	Sandy Clay
175.0'	223.0'	Kss
223.0'	223.5'	Clay
223.5'	224.0'	Kss
224.0'	225.0'	Clay
225.0'	226.0'	Kss
226.0'	227.0'	Clay
227.0'	228.0'	Kss
228.0'	229.0'	Clay
229.0'	230.0'	Kss
230.0'	231.0'	Clay & Lignite
231.0'	232.0'	Kss
232.0'	233.0'	Clay
233.0'	233.5'	Kss
233.5'	234.5'	Clay
234.5'	236.5'	Kss
236.5'	237.0'	Clay

MINERAL RESEARCH CANADA
BUS (705) 378-2416
DATE

EOH - 237.0'

Detail Log - 89-62

From	To	Sample No.	Description
0.0'	5.0'		Peat
5.0'	25.0'		Glacial Sandy Clay Till - dark brown, competent, rare gneissic or carbonate clasts, angular to sub-angular, 1.0".
25.0'	36.75'		Fluvial Sediments - medium brown clay, finely laminated, clast-free, pliable.
36.75'	39.0'		Sand - medium grain, medium brown, high clay content, quartz, feldspar, amphibole.
39.0'	89.0'		Glacial Clay Till - dark brown, competent, some areas dried fissile and segmented, rare clast, up to 2.0", gneissic or carbonate, angular to sub-angular.
89.0'	93.0'	701	Kss - medium grain, 89-.0' - 91.0' - dark brown, 91.0' - 93.0' - white, with some yellow patches, minor heavies and illite. 8.76% kaolin.
93.0'	99.0'		Kss - a above, all material contaminated - not in bag - unsampled.
99.0'	103.0'	702	Kss - 99.0' - 100.0' - white, medium grain, 100.0' - 100.5' - buff clay & Kss interbedded, pliable, 100.5' - 103.0' - dark yellow brown, medium grain, low clay content. 14.99% kaolin.
103.0'	108.0'	703	Kss - as above, brown. 4.46% kaolin.
108.0'	111.0'	704	Kss - as above, some areas of white, 4 large clasts up to 4.0", quartz in a claystone matrix - dark brown. 10.35% kaolin.
111.0'	116.0'	705	Kss - as above. 5.85% kaolin.
116.0'	121.0'	706	Kss - medium grain, white and grey alternating, minor illite and heavies. 5.29% kaolin.
121.0'	131.0'	707	Kss - medium grain, light and medium yellow brown. 6.28% kaolin.
131.0'	135.0'	708	Kss - as above, coarsening downsection.

			6.13% kaolin.
135.0'	135.5'	709	Clay - pliable, light grey, somewhat segmented, high illite content, some yellow staining at lower contact, 86.03% kaolin.
135.5'	137.0'	710	Sandy Clay - light grey with frequent purple bands, yellow at lower contact, carbonaceous clots and seams, 45.72% kaolin.
137.0'	139.0'	711	Clay - medium brown, competent, semi-pliable, low silica content, 84.15% kaolin.
139.0'	141.0'	712	Sandy Clay - medium brown, competent, pliable, minor illite, carbonaceous seams, 70.63% kaolin.
141.0'	144.0'	713	Clay - as previous, medium brown, 86.33% kaolin.
144.0'	150.0'	714	Sandy Clay - as previous, 66.00% kaolin.
150.0'	152.0'	715	Clay - chocolate brown, very pliable, pieces of steel causing rust staining, flowage in bag causing contamination, 59.42% kaolin.
152.0'	157.0'	716	Sandy Clay - as previous, 66.76% kaolin.
157.0'	161.0'	717	Sandy Clay - grey, fine grain, pliable, minor illite and heavies, 44.13% kaolin.
161.0'	164.0'		Sandy Clay - as above, totally contaminated, not sampled.
164.0'	166.0'	718	Sandy Clay - as previous, 48.15% kaolin.
166.0'	171.0'	719	Sandy Clay - as above, water saturated, 17.04% kaolin.
171.0'	175.0'	720	Sandy Clay - as above, less water, 11.59% kaolin.
175.0'	179.0'	721	Kss - white, medium grain, minor heavies and illite, 10.53% kaolin.
179.0'	182.0'	722	Kss - as above, some rusty areas, 3.0" triangular clasts, silica fragments, 5.75% kaolin.
182.0'	187.0'	723	Kss - as above, 6.03% kaolin.

187.0'	191.0'	724	Kss - as above, 5.32% kaolin.
191.0'	194.0'	725	Kss - as above, alternating medium and coarse grain, with 1.0" clay clots, light grey, pliable, rare 0.5" clasts, 8.71% kaolin.
194.0'	198.0'	726	Kss - as above, 196.0' - 196.75' - dark brown, 8.33% kaolin.
198.0'	202.0'	727	Kss - as above, light brown, minor illite and heavies, rare 1.0" chert and smoky quartz clasts, 9.77% kaolin.
202.0'	207.0'	728	Kss - fine grain, heavies banding, white, 202.0' - 202.25' - medium grain, 12.33% kaolin.
207.0'	211.0'	729	Kss - medium grain, white, minor illite and heavies, rare 0.5" larger smoky quartz clasts, 8.78% kaolin.
211.0'	215.0'	730	Kss - as above, grey fossiliferous - crinoids & brachiopods - 3.0" clast - siliceous dolostone, Devonian, 8.43% kaolin.
215.0'	219.0'	731	Kss - 215.0' - 217.0' - medium grey, coarse grain, 0.5" clasts, rounded to sub-rounded, 217.0' - 219.0' - white, medium grain, minor illite and heavies, 8.23% kaolin.
219.0'	222.0'	732	Kss - medium grading downsection, gradationally higher clay content, rare larger 0.5" milky quartz clasts, 220.0' - 221.0' - yellow staining, 10.41% kaolin.
222.0'	223.0'	733	Kss - white, grading through brown to black, medium grain, 10.00% kaolin.
223.0'	223.5'	734	Clay - black and brown mottled, pliable, competent, minor illite, 75.80% kaolin.
223.5'	224.0'	735	Kss - medium grain, black, 31.57% kaolin.
224.0'	225.0'	736	Clay - as previous, some carbonaceous seams, 75.59% kaolin.
225.0'	226.0'	737	Kss - as previous, 14.20% kaolin.
226.0'	227.0'	738	Clay - as previous, 74.84% kaolin.
227.0'	228.0'	739	Kss - as previous, 11.16% kaolin.
228.0'	229.0'	740	Clay - as previous, 69.27% kaolin.

229.0'	230.0'	741	Kss - as previous, 21.97% kaolin.
230.0	231.0'	742	Clay & Lignite - black, pliable clay interbedded with black highly competent lignite, some clay highly competent, 65.67% kaolin.
231.0'	232.0'	743	Kss - as previous, 3.0" clast - quartz in clay stone - dark brown, with chalcopyrite concentrations - water saturated, 13.87% kaolin.
232.0'	233.0'	744	Clay - as previous, black, pliable, minor illite, 68.66% kaolin.
233.0'	233.5'	745	Kss - as previous - black, medium grain, 17.49% kaolin.
233.5'	234.5'	746	Clay - as previous, 71.99% kaolin.
234.5'	236.5'	747	Kss - as previous, clast 5.0" as previous, blue chert & pink feldspar, 0.25", well rounded, black chert, 13.14% kaolin.
236.0'	237.0'		Clay - as previous, too little to sample.

EOH - 237.0'

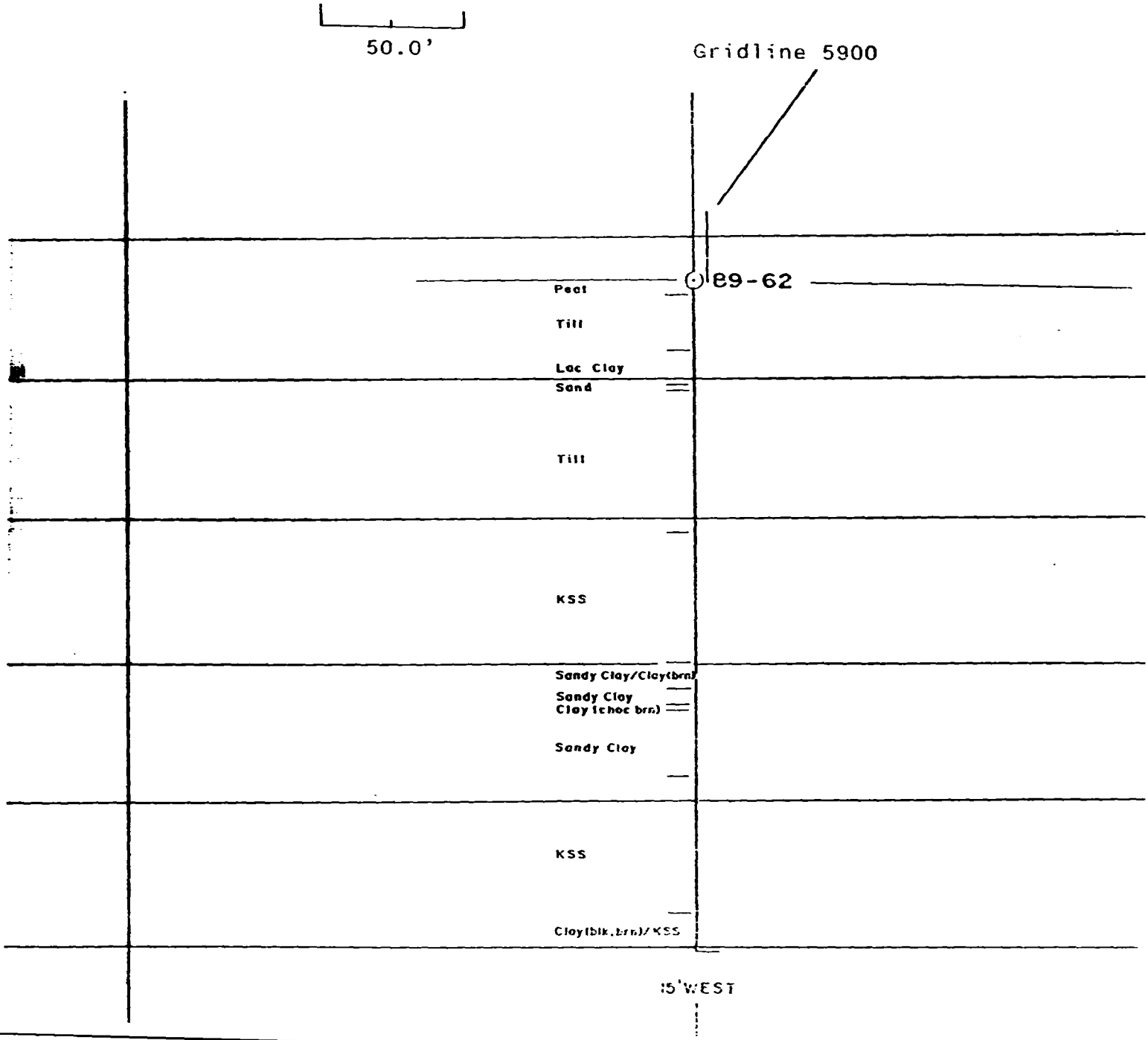
Section 89-62

Claim No.: P 825810
Hole Length: 237.0'
Overburden Depth: 89.0'
Astronomic Azimuth: 50° 08' 40" N, 82° 08' 26" W
Location: 2250.0' at 218° to claim no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 305 S
Easting: 5895 E
Dip: -90°

50.0' Gridline 5900

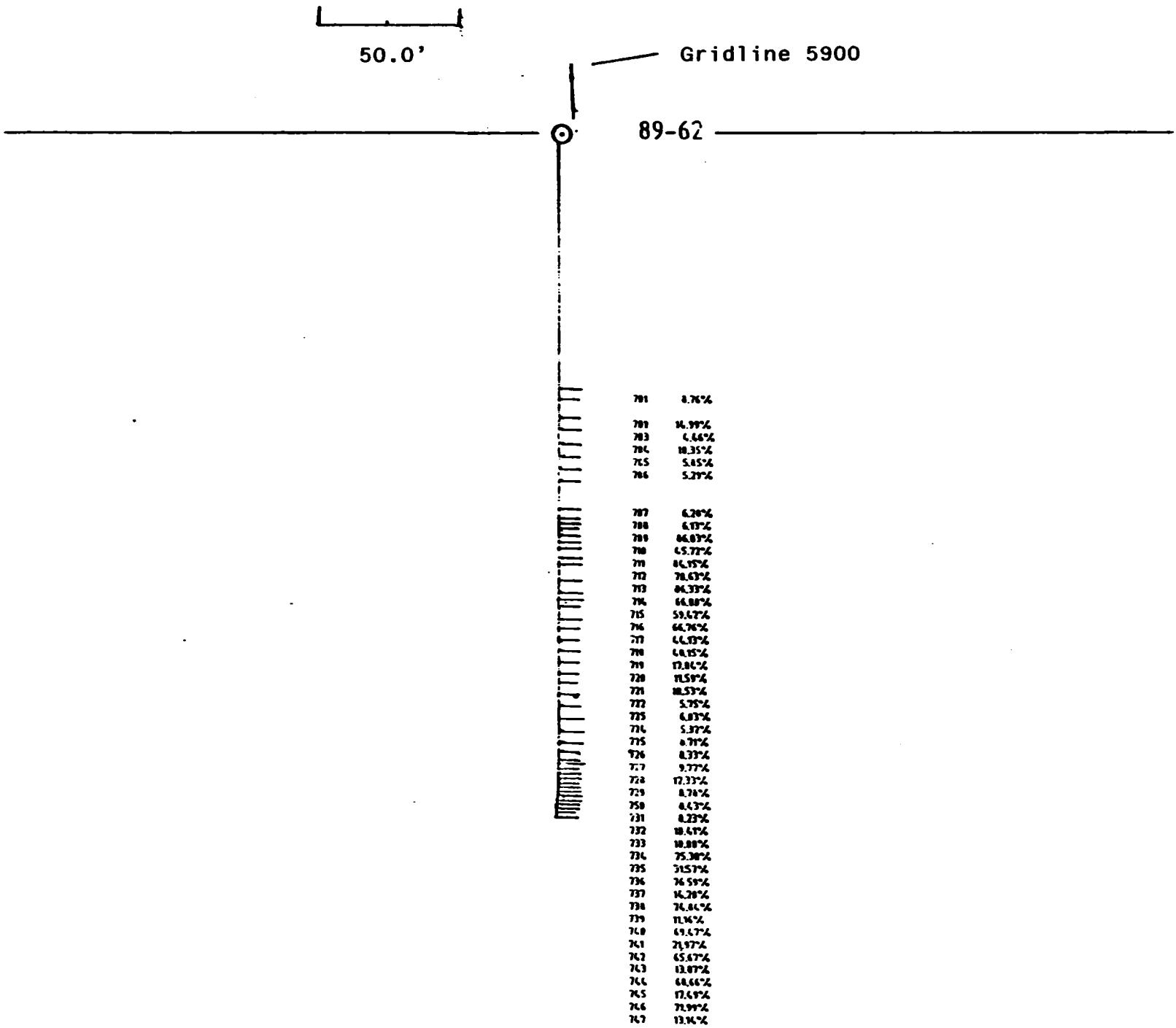
Section 89-62

Claim No.: P 825810
Hole Length: 237.0'
Overburden Depth: 89.0'
Astronomic Azimuth: 50° 08' 40" W. 82° 08' 26" N
Location: 2250.0' at 218° to claim no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 305 S
Easting: 5895 E
Dip: -90°



Section 89-62

Claim No.: P 825810
Hole Length: 237.0'
Overburden Depth: 89.0'
Astronomic Azimuth: 50° 08' 40" N, 82° 08' 26" W
Location: 2250.0' at 218° to claim no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 305 S
Easting: 5895 E
Dip: -90°



RECEIVED
APR 26 1995
MINING LANDS BRANCH

000078

ROTARY DRILL HOLE RECORD

Drilling Started: Mar. 1, 1989
Drilling Finished: Mar. 1, 1989
Drilling Co.: Midwest
Dip: -90°
Hole Length: 205.0'
Overburden Depth: 53.0'
Claim No.: P 825797
Easting: 5120 E
Northing: BL 00
Azimuth: 50° 08' 50" N, 82° 09' 08" W
Location: 600.0' at 262° to Claim Post No. 1
Property: Kipling

Logged By: A. Casselman
Logged: May 1, 1989
Core Size: 3.5"
Core Storage:
Mineral Research Canada
R. R. # 2
Parry Sound ON P2A 2W8
Hole No.: 89-63

SUMMARY

From	To	Description		
0.0'	3.0'	Peat		
3.0'	5.0'	Fluvial Sediments		
5.0'	26.0'	Sand, Gravel & Clay		
26.0'	28.0'	Glacial Sandy Clay Till		
28.0'	52.0'	Glacial Clay Till		
52.0'	52.25'	Kaolin Silica Sand (Kss)		
52.25'	53.0'	Glacial Clay Till	- Overburden	- Pleistocene
53.0'	69.5'	Kss		Cretaceous
69.5'	74.0'	Sandy Clay		
74.0'	78.0'	Kss		
78.0'	78.5'	Sandy Clay		
78.5'	79.25'	Clay		
79.25'	89.0'	Kss		
89.0'	90.0'	Clay		
90.0'	91.0'	Kss		
91.0'	92.0'	Sandy Clay		
92.0'	94.0'	Kss		
94.0'	97.0'	Clay		

Ann Casselman
Feb 1, 1995

97.0'	106.0'	Kss
106.0'	109.0'	Clay
109.0'	109.25'	Kss
109.25'	110.0'	Clay
110.0'	113.0'	Sandy Clay
113.0'	113.5'	Clay
113.5'	119.0'	Kss
119.0'	119.5'	Sandy Clay
119.5'	131.0'	Kss
131.0'	133.0'	Sandy Clay
133.0'	135.0'	Clay
135.0'	137.0'	Kss
137.0'	145.0'	Sandy Clay
145.0'	164.0'	Kss
164.0'	179.0'	Kss & Clay
179.0'	193.0'	Kss
193.0'	200.0'	Clay & Kss
200.0'	202.25'	Sandy Clay
202.25'	205.0'	Kss

EOH - 205.0'

Detail Log - 89-63

From	To	Sample No.	Description
0.0'	3.0'		Peat
3.0'	5.0'		Fluvial Sediments - yellow brown clay, pliable, laminated.
5.0'	26.0'		Sand, Gravel & Clay - alternating - all medium to dark brown, medium sand becoming coarse grain, granitic coarse grain gravel, competent clay.
26.0'	28.0'		Glacial Sandy Clay Till - medium brown, fine grain, competent.
28.0'	52.0'		Glacial Clay Till - medium brown, fine grain, competent.
52.0'	52.25'		Kss - white coarse grain, glacial encorporation.
52.25'	53.0'		Glacial Clay Till - as previous.
53.0'	57.0'	13251	Kss - white, coarse grain, with light grey pliable clay clots from 53,=.0' - 54.0', 54.0' - 56.0' - light brown, 56.0' - 57.0' - purple/blue. 8.25% kaolin.
57.0'	63.0'	13252	Kss - medium to coarse grain, coarsening downsection, concord purple sections in dark to medium brown 62.5' - 63.0' - white. 8.25% kaolin.
63.0'	67.0'	13253	Kss - 63.0' - 64.0' - coarse grain, white, high clay content, fining downsection, 64.0' - 66.0' - medium grain, white, minor illite and heavies, rare larger 0.25" yellow chert clasts, 66.0' - 67.0' - fine grain, light brown, minor illite and heavies. 7.67% kaolin.
67.0'	69.5'	13254	Kss - 67.0' - 67.5' - fine grain, dark yellow/brown and grey, minor illite and heavies, 67.5' - 69.5' - medium grain, white, minor illite and heavies. 8.05% kaolin.
69.5'	74.0'	13255	Sandy Clay - light grey, fine grain, minor illite and heavies, heavies occur as laminations and convolute structures, clay clots from 69.5' - 71.0' - light grey, weakly pliable, remainder less heavies

			rich, lighter grey. 13.72% kaolin.
74.0'	78.0'	13256	Kss - fine grain, white, brown irregular patches to 76.0' - minor illite and heavies, high moisture retention. 10.53% kaolin.
78.0'	78.5'	13257	Sandy Clay - light grey, purple concentrations associated with high heavies areas, emerald green clots. 13.59% kaolin.
78.5'	79.25'	13258	Clay - medium brown, competent, pliable, interbedded kss - medium grain, purple to white. 40.53% kaolin.
79.25'	82.0'	13259	Kss - medium grain, white, minor illite and heavies, some heavies banding. 8.61% kaolin.
82.0'	85.0'	13260	Kss - as above. 8.05% kaolin.
85.0'	89.0'	13261	Kss - as above, high heavies content with brown contamination. 8.20% kaolin. (Quartz - 70.0%, Kaolin - 25.0%, Illite/Smectite - 5.0% by XRD, 88.0% +325, 72.9 G.E.)
89.0'	89.5'	13262	Clay - medium grey with concord purple laminations - 45.0% interbedded medium grain purple kss. 36.23% kaolin.
89.5'	90.0'	13263	Clay - buff, minor illite and heavies, purple clots, some fine grain sandy areas. 65.52% kaolin.
90.0'	91.0'	13264	Kss - medium grain, light grey, brown, banding purple clots, minor illite and heavies. 19.27% kaolin.
91.0'	92.0'	13265	Sandy Clay - buff, purple discontinuous laminations, competent, pliable, minor illite and heavies, becoming less sandy downsection, very fine grain. 54.46% kaolin.
92.0'	94.0'	13266	Kss - medium grain, white, minor illite and heavies. 14.28% kaolin.
94.0'	97.0'	13267	Clay - buff, pliable, competent, grading to medium brown, greasy. 66.81% kaolin.
97.0'	99.0'	13268	Kss - medium grain, light brown, clay-rich medium brown 0.5" clay clots, 98.0' - 99.0' - less clay content, polydrill. 11.87% kaolin.

99.0'	103.0'	13269	Kss - white, medium grain, coarser from 100.0' - 105.0', minor illite and heavies. 8.53% kaolin.
103.0'	106.0'	13270	Kss - medium grain, white with red/brown banding minor illite and heavies. 7.11% kaolin.
106.0'	109.0'	13271	Clay - rose, pliable, competent, grading to buff, darkening downsection to black, high lignite content at 107.5'. 72.91% kaolin.
109.0'	109.25'	13272	Kss - medium grain, high clay content, dark brown. 17.70% kaolin.
109.25'	110.0'	13273	Clay - pliable, competent, medium brown, with darker and lighter laminations, rare lignite. 63.90% kaolin.
110.0'	113.0'	13274	Sandy Clay - medium brown, medium grain, non-competent. 31.47% kaolin.
113.0'	113.5'	13275	Clay - competent, medium brown, slight silty content. 50.08% kaolin.
113.5'	119.0'	13276	Kss - medium grain, medium brown from 116.0' - 117.0', rare larger clasts up to 1.5", yellow chert, clay clots - light brown, pliable, minor illite and heavies. 26.35% kaolin.
119.0'	119.5'	13277	Sandy Clay - high moisture content, light grey, fine grain, minor illite and heavies. 26.35% kaolin.
119.5'	120.0'	13278	Kss - yellow/brown, rare purple clots, medium grain. 6.20% kaolin.
120.0'	125.0'	13279	Kss - medium grain, white, minor illite and heavies, rare larger rounded smoky quartz clasts, 9.22% kaolin.
125.0'	129.0'	13280	Kss - as above, some yellow brown areas.
129.0'	131.0'	13281	Kss - purple/grey and brown, medium grain, 13.47% kaolin.
131.0'	133.0'	13282	Sandy Clay - low clay content, buff, granular, increasing clay content and darkening downsection, 37.97% kaolin.
133.0'	135.0'	13283	Clay - light brown, darkening downsection

			to medium grain, dried, 81.72% kaolin.
135.0'	137.0'	13284	Kss - chocolate brown, some yellowish areas, medium grain, dried.
137.0'	145.0'	13285	Sandy Clay - buff, low clay content with lignite fragments, grading into chocolate brown clay - black, greasy, disc-like, 17.09% kaolin.
145.0'	152.0'	13286	Kss - fine grain, medium brown, high illite content, low clay content, yellow sulphureous laminations, 8.20% kaolin.
152.0'	158.0'	13287	Kss - medium grain, coarsening downsection, rapidly to coarse, yellow and black laminations at upper contact, larger jasper, yellow chert and smoky quartz, rounded, high clay content, 13.22% kaolin.
158.0'	164.0'	13288	Kss - medium grain, white, minor illite and heavies.
164.0'	169.0'	13289	Kss & Clay - interbedded - medium grain, light to dark grey kss, interbedded with finely laminated pliable to friable, competent clay units up to 0.75'.
169.0'	172.0'	13290	Kss & Clay - kss - finer than the above material, white, minor illite and heavies, clay - grey wispy red laminations, pliable some kss marbling with clay.
172.0'	175.0'	13291	Clay - grey, pliable, competent, red laminations.
175.0'	179.0'	13292	Kss & Clay - as clots - light grey pliable clots up to 2.0", randomly located throughout, kss - light grey, medium grey, minor illite and heavies.
179.0'	183.0'	13293	Kss - coarse clasts in a medium grain matrix, rounded smoky quartz, yellow chert and jasper, minor illite.
183.0'	187.0'	13294	Kss - as above, white sandstone fragments, granular with some darker grains - pitted.
187.0'	190.0'	13295	Kss - dried, - as above, some darker blue grey areas, siliceous dolostone clast - crinoidal - Devonian.
190.0'	193.0'	13296	Kss - as above, fewer larger clasts, 3.0" siliceous dolostone clast - pitted areas,

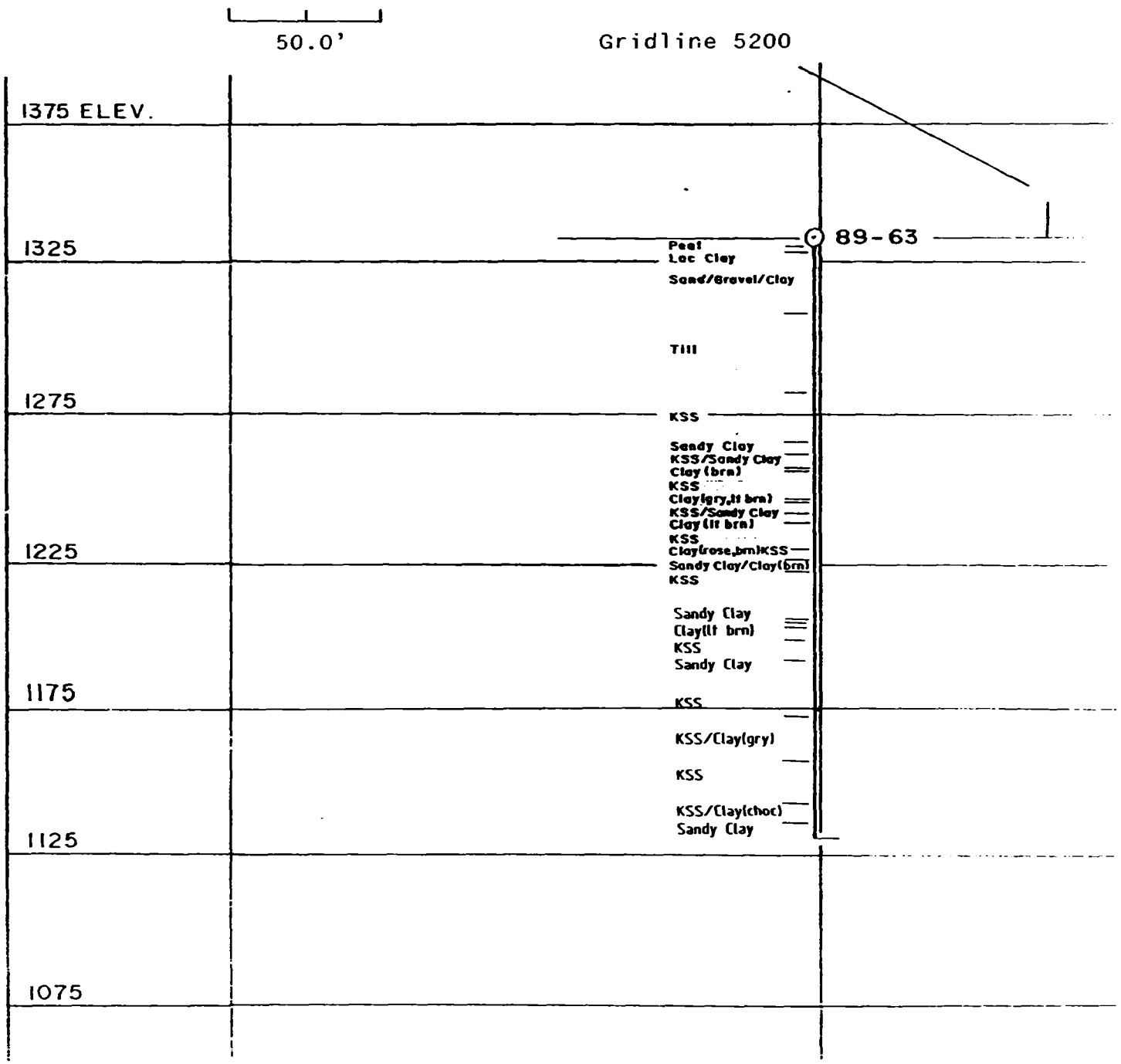
			fossiliferous, crinoids, darker weathered surface, Devonian.
193.0'	197.0'	13297	Clay & Kss - white, medium grain kss with minor yellow laminations, clay - light to medium brown (silty sections grading to near sandy clay), chocolate brown, very fine lignite fragments.
197.0'	200.0'	13298	Kss & Clay - dark brown kss, medium grain clay with high illite content, chocolate brown with darker laminations.
200.0'	202.5'	13299	Sandy Clay - varying from light to chocolate brown, with varying silica content, prevalent yellow chert - rounded, found in a silica poor section.
202.5'	205.0'	13300	Kss - medium grain, grading to coarse grain, lightening downsection from medium to light brown.

EOH - 205.0'

Note: extra core probable hole cave-in.

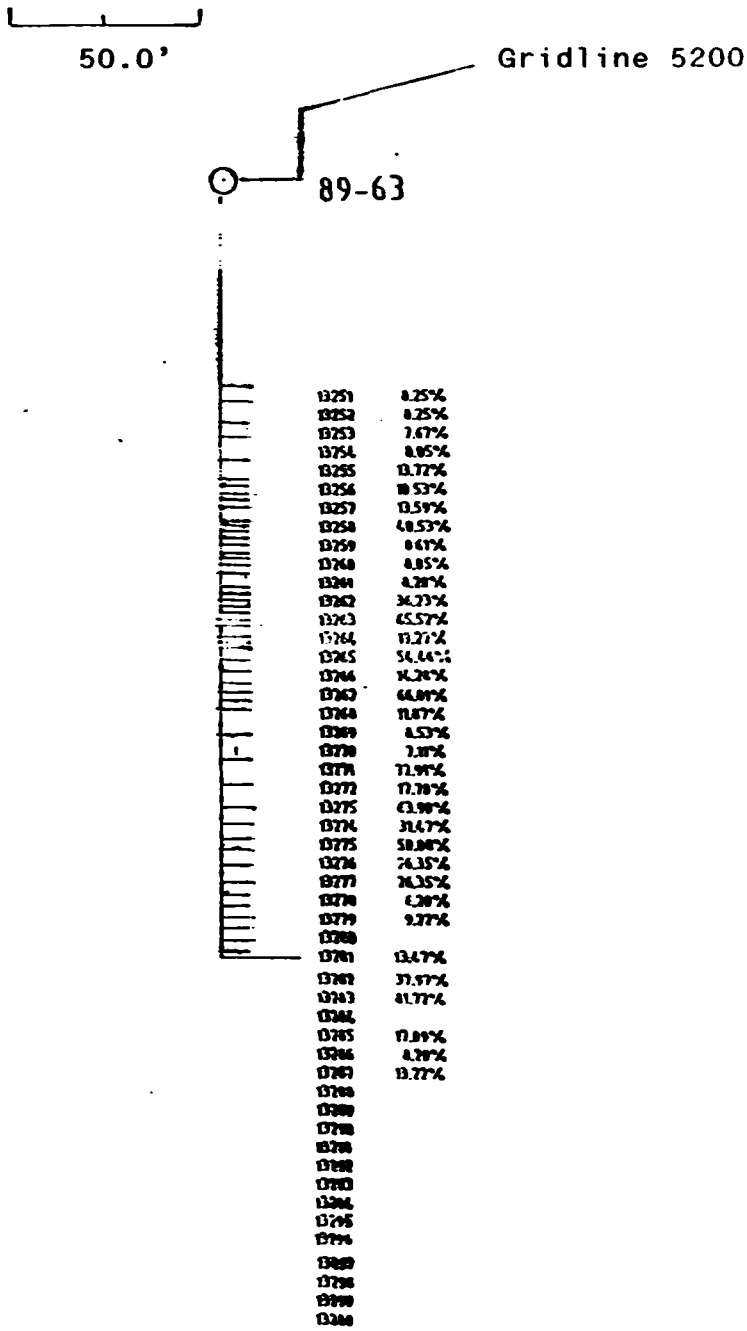
Section 89-63

Claim No.: P 825797
Hole Length: 205.0'
Overburden Depth: 53.0'
Astronomic Azimuth: 50° 08' 50" W. 82° 09' 08" N
Location: 600.0' at 262° to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: BL 00
Easting: 5120 E
Dip: -90°



Section 89-63

Claim No.: P 825797
Hole Length: 205.0'
Overburden Depth: 53.0'
Astronomic Azimuth: 50° 08' 50" N, 82° 09' 08" W
Location: 600.0' at 262° to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: BL 00
Easting: 5120 E
Dip: -90°



RECEIVED
APR 2 6 1995
MINING LANDS BRANCH

2.1595 6 000078

ROTARY DRILL HOLE RECORD

Drilling Started: Mar. 3, 1989
Drilling Finished: Mar. 4, 1989
Drilling Co.: Midwest
Dip: -90°
Hole Length: 250.0'
Overburden Depth: 52.0'
Claim No.: P 825805
Easting: 5650 E
Northing: 50 N
Azimuth: 50° 08' 52" N, 82° 08' 38" W
Location: 960.0' at 222° to Claim Post No. 1
Property: Kipling

Logged: A. Casselman
Logged: Mar. 22, 1989
Core Size: 3.5"
Core Storage:
Mineral Research Canada
R. R. # 2
Parry Sound ON P2A 2W8
Initial Elevation: 327.0'
Current Elevation: 330.0'
Hole No.: 89-87

SUMMARY

From	To	Description		
0.0'	3.0'	Peat		
3.0'	52.0'	Glacial Clay Till	Pleistocene - Overburden	
52.0'	99.0'	Kaolin Silica Sand	(Kss)	Cretaceous
99.0'	100.0'	Clay		
100.0'	100.25'	Kss		
100.25'	104.5'	Clay		
104.5'	127.0'	Kss		
127.0'	145.0'	Sandy Clay		
145.0'	210.0'	Kss		
210.0'	211.0'	Clay		
211.0'	250.0'	Kss		

MINERAL RESEARCH
CANADA
INDUSTRIAL BLVD. RR2
PARRY SOUND, ONTARIO
CANADA P2A 2W8
FAX (705) 378-5123 PHONE (705) 378-2416
DATE

EOH - 250.0'

Detail Log - 89-87

From	To	Sample No.	Description
0.0'	3.0'		Peat
3.0'	7.0'		Glacial Clay Till - dark brown, non-competent, clasts-free.
7.0'	9.0'		Glacial Gravel - very coarse grain, clasts up to 6.0", clay free.
9.0'	20.0'		Glacial Clay Till - as previous, rare clasts up to 1.0".
20.0'	52.0'		Glacial Clay Till - dried, fissile, segmented, large clasts up to 6.0".
52.0'	56.0'	2801	Kss - medium grain, lightening downsection, upper 2.0", dark grey due to surface contamination, gradationally lighter. 5.80% kaolin.
56.0'	61.0'	2802	Kss - very coarse grain, average clast 0.25" from 56.0' - 57.0', minor purplish banding at 60.5', medium grey. 5.65 % kaolin.
61.0'	65.0'	2803	Kss - 61.0' - 63.5' - coarse grain, 63.5 - 65.0' - medium grain, dark red/brown contact, minor illite and heavies, grey. 7.11% kaolin.
65.0'	69.0'	2804	Kss - medium grain, white, high moisture retention, minor illite and heavies, coarse grain at 68.9' - 69.0'. 6.48% kaolin.
69.0'	73.0'	2805	Kss - as above, coarse grain. 6.48% kaolin.
73.0'	77.0'	2806	Kss - as above. 6.08% kaolin.
77.0'	81.0'	2807	Kss - as above, 3.0" of light grey pliable clay at 80.75'. 13.62% kaolin.
81.0'	85.0'	2808	Kss - as above, 3.0" clay at 82.0'. 10.53% kaolin.
85.0'	89.0'	2809	Kss - as above, fining downsection to medium at 87.0', clay clots in medium portion, small light grey, pliable. 7.01% kaolin.

89.0'	93.0'	2810	Kss - medium and coarse alternating, white, high clay in coarse portion. 12.35% kaolin.
93.0'	97.0'	2811	Kss - as above. 7.70% kaolin.
97.0'	99.0'	2812	Kss - white, coarse grain dark brown, dry, competent. 17.44% kaolin.
99.0'	100.0'	2813	Clay - fissile, yellow, purple, orange, and brown, dry, competent. 72.05% kaolin.
100.0'	102.0'	2814	Kss - medium grain, orange/brown clay contamination in upper 0.5'. 7.01% kaolin.
102.0'	102.25'	2815	Kss - medium grain, brown. 7.47% kaolin.
102.25'	104.5'	2816	Clay - buff grading to grey with red laminations at 103.0', more competent orange/brown at 104.0' - fissile, to light grey with purple laminations at 104.75' - pliable, sandy laminations, purple near lower contact. 64.23% kaolin.
104.5'	112.0'	2817	Kss - medium grain, wine coloured banding, some brown areas. 8.94% kaolin.
112.0'	116.0'	2818	Kss - as above, high moisture content, minor illite and heavies, rare red chert clasts, sub-rounded, 0.5". Garbage in box. 9.47% kaolin.
116.0'	120.0'	2819	Kss - coarse grain and medium, with interbedded sandy clay, coarse grain has a high clay content, 116.0' - 116.5' - medium, 116.25' - 116.5' - coarse, 116.5' - 118.75' - medium, 118.75' - 119.5' - sandy clay, 119.5' - 120.0' - medium grain, light brown. 11.22% kaolin.
120.0'	123.0'	2820	Kss - 120.0' - 121.0' - light to medium grey banded sections, 121.0' - 123.0' - yellow/brown, good clay content, minor illite and heavies, more clay-rich areas, with minor carbonaceous materials. 8.94% kaolin.
123.0'	127.0'	2821	Kss - light brown, with increasing clay content downsection, as well as silica grain size, some haematite staining. 21.85% kaolin.
127.0'	131.0'	2822	Sandy Clay - grading to clay, chocolate brown, weakly pliable with darker wispy laminations, sandy clay, fine grain, buff -

			grading to and interbedded with. 54.96% kaolin.
131.0'	135.0'	2823	Sandy Clay - buff, minor illite and heavies, competent. 35.82% kaolin.
135.0'	140.0'	2824	Sandy Clay - grey with darker laminations, minor illite and heavies, purple laminations, *in situ* marcasite formation. 27.44% kaolin.
140.0'	145.0'	2825	Sandy Clay & Kss - kss contains clay-rich sections - some purple areas, kss - fine grain, sandy clay clots and darker areas. 12.61% kaolin.
145.0'	150.0'	2826	Kss - white, to light brown coarsening downsection, medium grain, rare yellow chert, minor illite and heavies. 9.01% kaolin.
150.0'	154.0'	2827	Kss - coarse grain, high clay content and high heavies, as well as yellow chert, clasts up to 0.5", sub-angular to rounded, very small white clay clots, pliable. 8.91% kaolin.
154.0'	158.0'	2828	Kss - as above, some illite, 2.0" of very fine grain, buff sandy clay. 14.84% kaolin.
158.0'	162.0'	2829	Kss - fine grain, buff, near sandy clay, high illite and clay content, minor heavies. 21.77% kaolin.
162.0'	164.0'	2830	Kss - as above, higher percentage of large clasts up to 1.0" yellow chert and smoky quartz. 11.32% kaolin.
164.0'	166.0'	2831	Kss - as above, light brown, frequent small clay clots, pliable. 13.70% kaolin.
166.0'	170.0'	2832	Kss - very coarse grain, clay-rich, medium brown, rounded clasts up to 2.0", vari-coloured silica. 14.76% kaolin.
170.0'	178.0'	2833	Kss - as above, one area of brilliant red powder, no colouration of surrounding clay - apparent disseminated jasper particles, high clay in matrix. 13.65% kaolin.
178.0'	182.0'	2834	Kss - as above, average silica 0.25", slightly more brown in colour, no red. 17.06% kaolin.

182.0'	187.0'	2835	Kss - coarse grain, white, not as coarse as previous, no clay matrix, normal, rare larger clasts up to 1.0", rounded, smoky quartz, minor illite and heavies. 7.80% kaolin.
187.0'	191.0'	2836	Kss - as above, fewer large clasts. 9.37% kaolin.
191.0'	195.0'	2837	Kss - coarse grain, mixture of two previous samples, coarse grained material, white. 10.51% kaolin.
195.0'	199.0'	2838	Kss - coarse grain, 197.0' - 197.25', haematite staining and washed out, increasing clay content downsection, also increases percentage of larger rounded smoky quartz clasts, minor illite and heavies. 8.15% kaolin.
199.0'	204.0'	2839	Kss - as above. 11.29% kaolin.
204.0'	210.0'	2840	Kss - as above. 6.76% kaolin.
210.0'	211.0'	2841	Clay - pliable, lightening downsection from chocolate brown to ivory, some rare carbonaceous concentrations.
211.0'	218.0'	2842	Kss - coarsening downward from fine to medium grain, lightening downsection from light grey to white, minor illite and heavies.
218.0'	223.0'	2843	Kss - high clay content, medium brown, medium grain.
223.0'	227.0'	2844	Kss - as above, from 223.0' - 224.0' - containing clay clots - chocolate brown, almost coarse grain, 224.0' - 227.0' - medium grain, lightening downsection and fining to light brown, some grey areas, rust staining and minor illite and heavies.
227.0'	232.0'	2845	Kss - medium grain, some coarse grain and fine portions, high heavies, some red/brown areas, generally white.
232.0'	237.0'	2846	Kss - as above.
237.0'	241.0'	2847	Kss - white, medium grain, minor illite and heavies.
241.0'	245.0'	2848	Kss - white, medium grain, minor illite and heavies.

245.0' 250.0' 2849 Kss - as above.

EOH - 250.0'

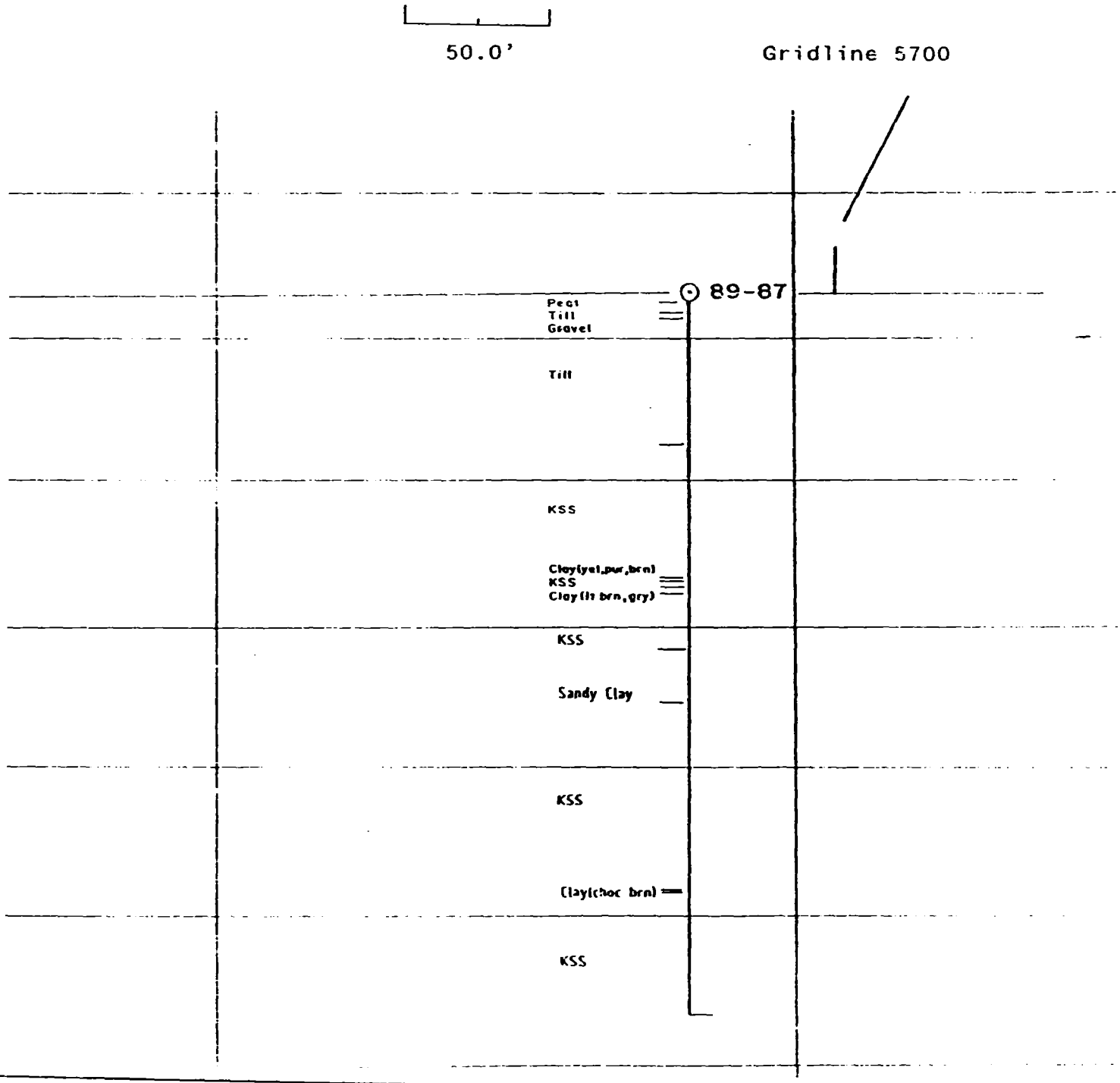
Section - 89-87

Scale: 1.0" = 50.0' or 1:600
Claim No: P 825805
Dip Collar: -90°
Hole Length: 250.0'
Overburden Depth: 52.0'
Astronomic Azimuth: 50° 08' 52" N, 82° 08' 38" W
Location: 960.0' at 222° to claim post no. 1
Northing: 050 N
Easting: 5650 E

50.0' Gridline 5700

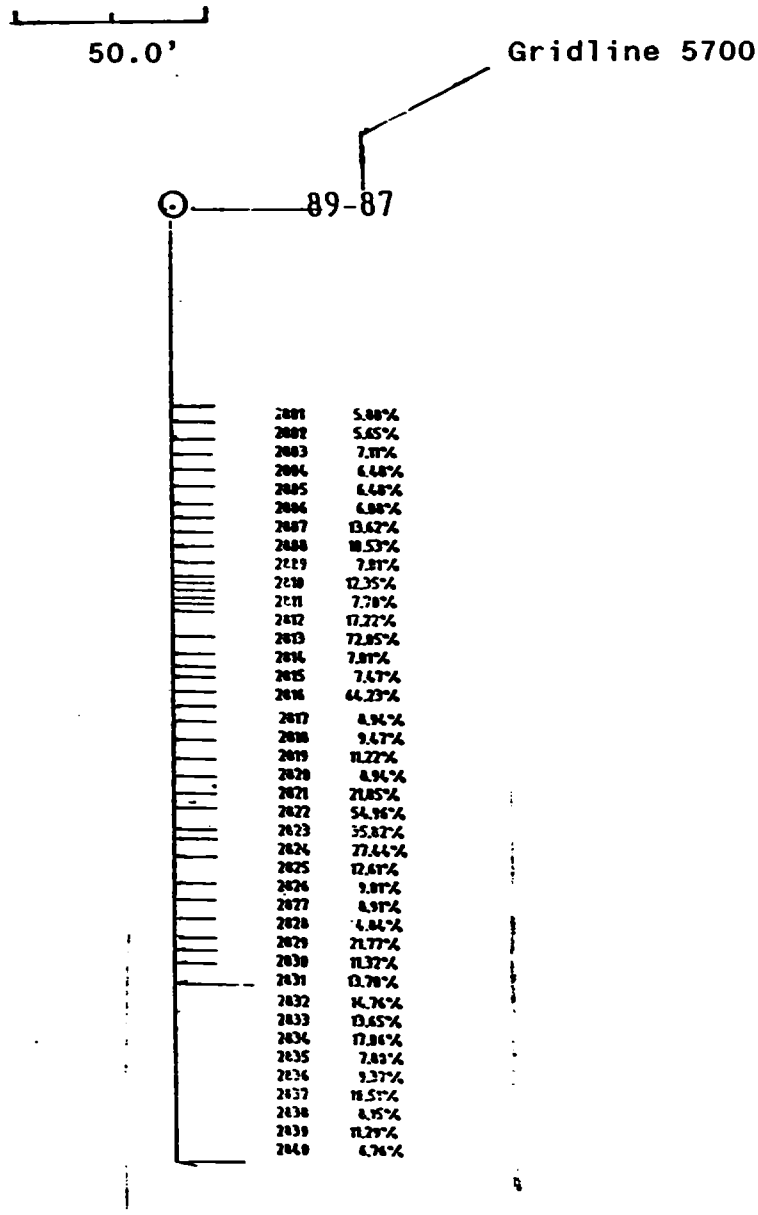
Section - 89-87

Scale: 1.0" = 50.0' or 1:600
Claim No: P 825805
Dip Collar: -90°
Hole Length: 250.0'
Overburden Depth: 52.0'
Astronomic Azimuth: 50° 08' 52" W. 82° 08' 38" N
Location: 960.0' at 222° to claim post no. 1
Northing: 050 N
Easting: 5650 E



Section - 89-87

Scale: 1.0" = 50.0' or 1:600
Claim No: P 825805
Dip Collar: -90°
Hole Length: 250.0'
Overburden Depth: 52.0'
Astronomic Azimuth: 50° 08' 52" N, 82° 08' 38" W
Location: 960.0' at 222° to claim post no. 1
Northing: 050 N
Easting: 5650 E



RECEIVED
APR 26 1995
MINING LANDS BRANCH

000078

ROTARY DRILL HOLE RECORD

Drilling Started: Mar. 12, 1989
Drilling Finished: Mar. 13, 1989
Drilling Co.: Midwest
Dip: -90°
Hole Length: 251.0'
Overburden Depth: 51.0'
Claim No.: P 825805
Easting: 5700 E
Northing: BL 00
Azimuth: 50° 08' 50" N, 82° 08' 36" W
Location: 1020.0' at 210° To Claim Post No. 1
Property: Kipling

Logged By: A. Casselman
Logged: Mar. 27, 1989
Core Size: 3.5"
Core Storage:
Mineral Research Canada
R. R. # 2
Parry Sound, ON P2A 2W8
Elevation(original): 327.25'
Elevation(current): 335.0'
Hole No.: 89-91

SUMMARY

From	To	Description	
0.0'	7.0'	Peat	
7.0'	46.0'	Glacial Clay Till	
46.0'	50.0'	Kaolin Silica Sand (Kss)	
50.0'	51.0'	Glacial Clay Till - Overburden - Pleistocene	
51.0'	93.0'	Kss	Cretaceous
93.0'	95.5'	Clay	
95.5'	98.0'	Kss	
98.0'	100.0'	Clay, Sandy Clay & Kss	
100.0'	113.0'	Kss	
113.0'	114.5'	Clay	
114.5'	116.0'	Sandy Clay	
116.0'	117.0'	Clay	
117.0'	121.0'	Sandy Clay	
121.0'	125.0'	Sandy Clay & Clay	
125.0'	137.0'	Clay	
137.0'	142.0'	Clay & Sandy Clay	
142.0'	148.0'	Kss	
148.0'	154.0'	Clay & Sandy Clay	
154.0'	155.0'	Clay	
155.0'	171.0'	Kss	
171.0'	178.0'	Kss & Sandy Clay	
178.0'	182.0'	Kss	
182.0'	187.0'	Kss & Sandy Clay	
187.0'	251.0'	Kss	

Anne Casselman
Feb 4, 1995

EOH - 251.0'

Detail Log - 89-91

From	To	Sample No.	Description
0.0'	7.0'		Peat
7.0'	46.0'		Glacial Clay Till - competent, dark brown, occasional gneissic clast up to 4.0".
46.0'	50.0'		Kss - extremely poor quality, medium grain, dark grey, glacial encorporation.
50.0'	51.0'		Glacial Clay Till - as above.
51.0'	55.0'	2301	Kss - medium grain, dark grey due to surface contamination. 9.72% kaolin.
55.0'	60.0'	2302	Kss - as above, with buff pliable 2.0" clay bands at 56.5' - 57.0'. 14.64% kaolin.
60.0'	65.0'	2303	Kss - medium to coarse grain, coarsening downsection, 1.0" clay seams as above at 60.75'. 9.72% kaolin.
65.0'	69.0'	2304	Kss - dark brown & grey from 65.0' - 66.0' - white, very coarse, light grey, pliable clay seam of 1.0" at 68.5'. 17.49% kaolin.
69.0'	73.0'	2305	Kss - as above, minor heavies, medium brown fine clay seams. 15.14% kaolin.
73.0'	77.0'	2306	Kss - medium grain, white, minor illite and heavies. 8.99% kaolin.
77.0'	81.0'	2307	Kss - as above. 7.57% kaolin.
81.0'	85.0'	2308	Kss - as above. 8.28% kaolin.
85.0'	89.0'	2309	Kss - as above. 7.19% kaolin.
89.0'	91.0'	2310	Kss - as above, light grey pliable clay clots. 12.08% kaolin.
91.0'	93.0'	2311	Kss - as above. 9.47% kaolin.
93.0'	95.5'	2312	Clay - brown, pliable, darker irregular clots of black. 56.00% kaolin.
95.5'	98.0'	2313	Kss - dark brown, coarse grain. 11.42% kaolin.
98.0'	100.0'	2314	Clay, Sandy Clay & Kss - interbedded, buff, yellow and blue/grey pliable clay, fine grain light grey sandy clay, medium grain,

			white kss. 44.66% kaolin.
100.0'	103.0'	2315	Kss - medium grain, dark grey. 10.96% kaolin.
103.0'	107.0'	2316	Kss - medium grain, medium grey, deep purple band at 104.5' - 3.0" band. 11.70% kaolin.
107.0'	110.0'	2317	Kss - medium grain, medium grey. 9.22% kaolin.
110.0'	113.0'	2318	Kss - coarse grain, medium grey, high clay content, some purple, polydrill. 10.84% kaolin.
113.0'	114.5'	2319	Clay - medium brown, competent, yellow laminations, pliable, greasy, polydrill. 70.58% kaolin.
114.5'	116.0'	2320	Sandy Clay - non-competent, fine grain, dark brown, polydrill. 26.58% kaolin.
116.0'	117.0'	2321	Clay - medium brown, darker laminations, competent, pliable, polydrill. 70.63% kaolin.
117.0'	121.0'	2322	Sandy Clay - light brown, darker laminations, competent grading to less competent, more sandy grading to medium brown pure clay. 54.68% kaolin.
121.0'	125.0'	2323	Sandy Clay & Clay - interbedded - fine grain buff sandy clay & chocolate brown pliable clay, some carbonaceous material, 50.63% kaolin.
125.0'	131.0'	2324	Clay - semi-pliable, chocolate brown with carbon-rich areas to very dark brown, competent, 52.15% kaolin.
131.0'	137.0'	2325	Clay - light & dark brown mottled, pliable, competent, dark brown at contact, 61.62% kaolin.
137.0'	142.0'	2326	Clay & Sandy Clay - as at 121.0' - 125.0', some lignite fragments, 47.97% kaolin.
142.0'	148.0'	2327	Kss - lightening and coarsening downsection, minor illite and heavies, some haematite staining, 147.0' - 148.0' - very coarse, clay-rich, rounded grey sandstone, low specific gravity - Devonian, 12.68% kaolin.
148.0'	154.0'	2328	Clay & Sandy Clay - chocolate brown pliable

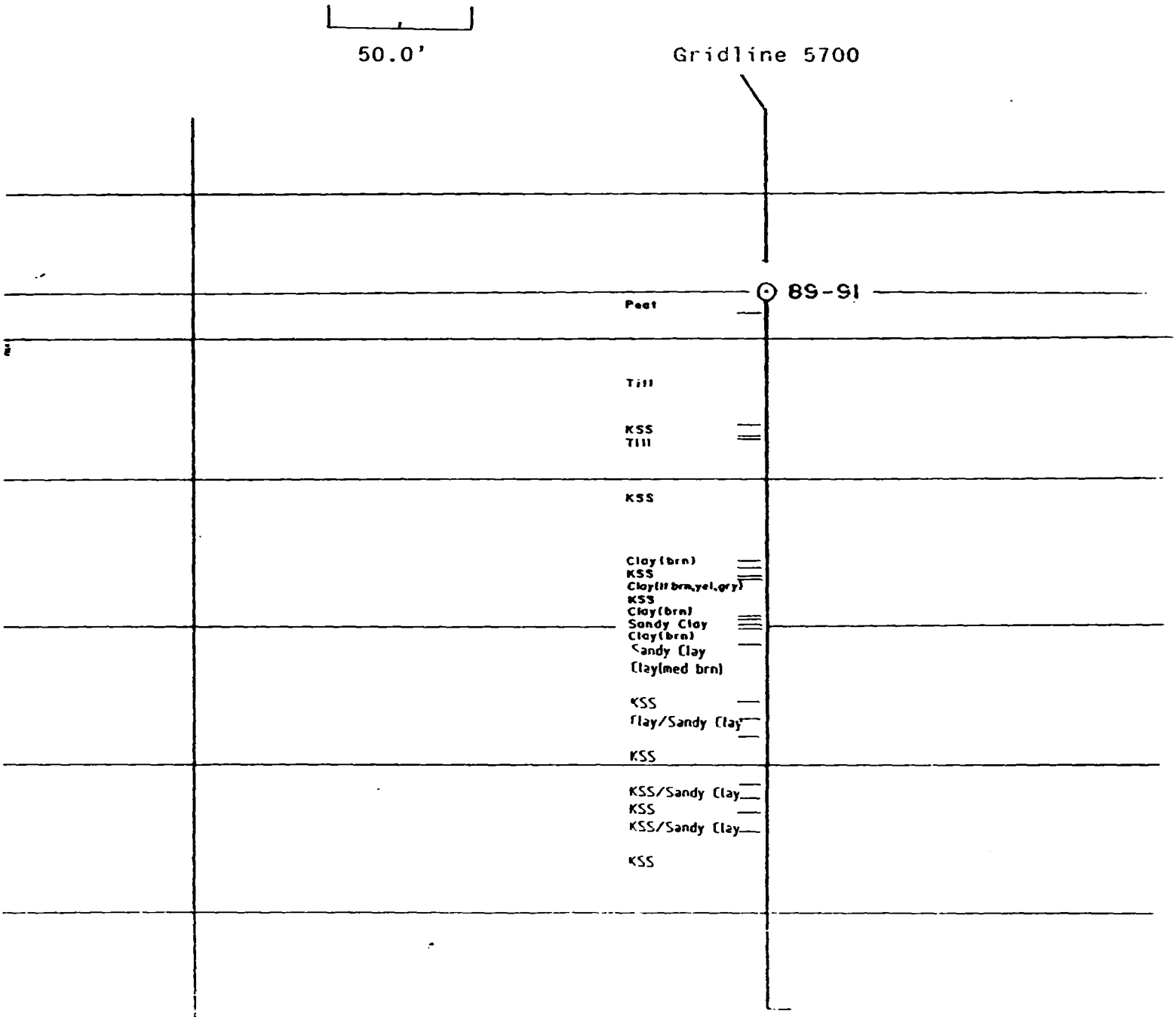
			clay, with some darker sections, buff sandy clay, minor illite and heavies, less clay than normal, light brown clay clots, 20.56% kaolin.
154.0'	155.0'	2329	Clay - light brown, pliable, some sand content, high illite, some areas darker, 74.61% kaolin.
155.0'	164.0'	2330	Kss - medium grain, fining downsection, increasing clay content downsection to near sandy clay, medium brown with some grey sections, 13.22% kaolin.
164.0'	167.0'	2331	Kss - very coarse grain, rounded smoky quartz and yellow chert, white, clay minor illite, highly contaminated, 8.76% kaolin.
167.0'	171.0'	2332	Kss - less coarse than above, high contamination, yellow brown, minor illite and heavies, some areas of haematite staining and mineral aggregation.
171.0'	178.0'	2333	Kss & Sandy Clay - interbedded, medium grain, dark grey & medium brown with 0.5" pliable buff fine grain sandy clay, containing 0.125" silica clasts, 20.86% kaolin.
178.0'	182.0'	2334	Kss - coarse grain, white areas remainder yellow/brown, due to contamination - especially at ends, one sandstone clast, light grey, 2.0" - pitted surface - Devonian, 7.95% kaolin.
182.0'	187.0'	2335	Kss & Sandy Clay - as at 171.0' - 178.0', 12.50% kaolin.
187.0'	193.0'	2336	Kss - white with some brown impurity banding, fine grain, minor illite and heavies, 12.89% kaolin.
193.0'	201.0'	2337	Kss - as above, higher illite content, no brown banding. 8.35% kaolin.
210.0'	204.0'	2338	Kss - medium to coarse grain, white, minor illite and heavies, depleted in kaolin. 3.72% kaolin.
204.0'	209.0'	2339	Kss - as previous. 4.43% kaolin.
209.0'	213.0'	2340	Kss - as above, slightly more clay, light brown at upper contact, contamination, pieces of drilling debris causing staining. 6.56% kaolin.

213.0'	218.0'	2341	Kss - as above. 8.43% kaolin.
218.0'	222.0'	2342	Kss - as above, less contamination. 9.54% kaolin.
222.0'	226.0'	2343	Kss - white, medium grain, coarsening downsection to coarse, minor illite and heavies, rare larger rounded smoky quartz clasts up to 1.0". 7.47% kaolin.
226.0'	230.0'	2344	Kss - dried, coarse grain, white, low clay content, smoky quartz and yellow chert. 8.91% kaolin.
230.0'	234.0'	2345	Kss - coarse grain, white & yellow brown (contamination), minor illite and heavies. 7.97% kaolin.
234.0'	238.0'	2346	Kss - as above - mostly yellow/brown. 10.51% kaolin.
238.0'	242.0'	2347	Kss - as above, coarsening downsection, almost entirely white, good clay content, minor illite and heavies. 12.81% kaolin.
242.0'	246.0'	2348	Kss - fining downsection from coarse to fine, some reddish stained areas, rare larger rounded clasts, black cherts and smoky quartz up to 0.5" in fine grain portion. 9.16% kaolin.
246.0'	251.0'	2349	Kss - as above, some contamination. 7.95% kaolin.

EOH - 251.0'

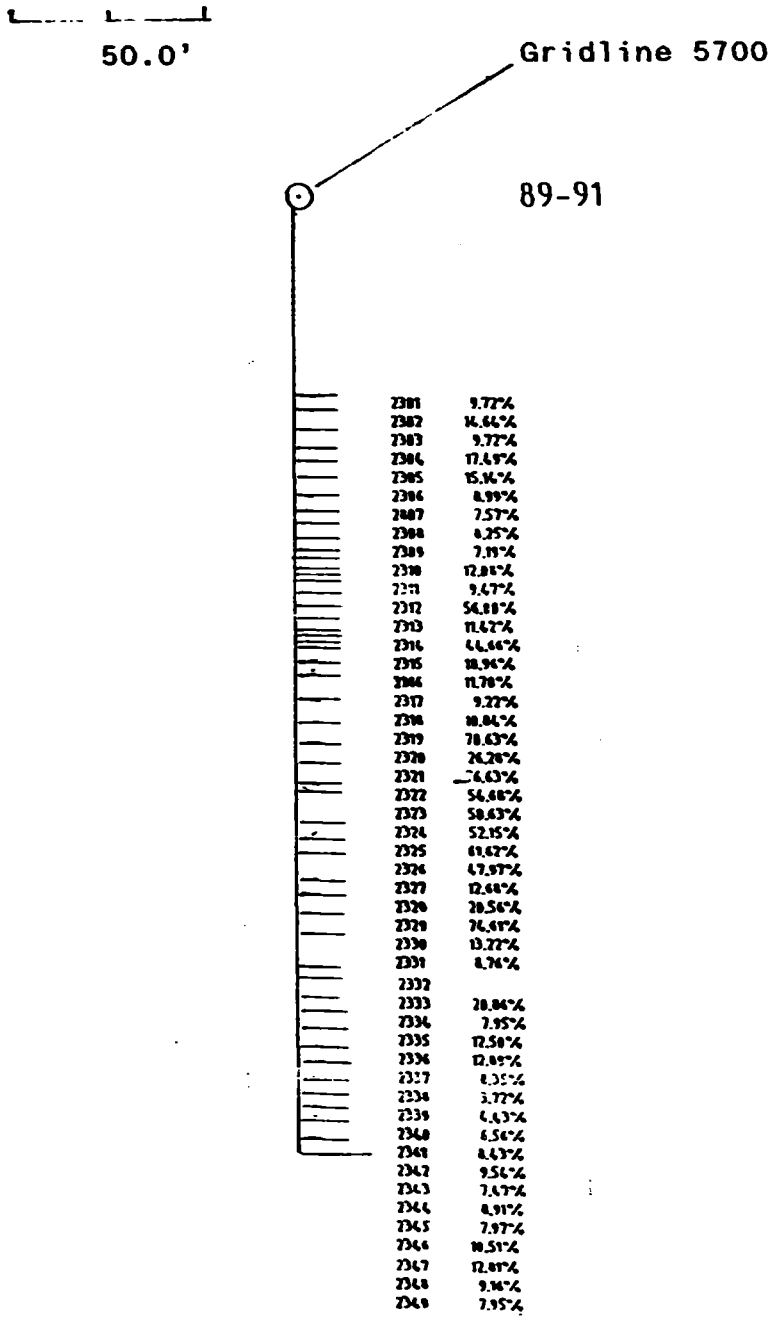
Section 89-91

Claim No.: P 825805
Hole Length: 251.0'
Overburden Depth: 51.0'
Astronomic Azimuth: 50° 08' 50" W. 82° 08' 36" N
Location: 1020.0' at 210° to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 050 N
Easting: 5700 E
Dip: -90°



Section 89-91

Claim No.: P 825805
Hole Length: 251.0'
Overburden Depth: 51.0'
Astronomic Azimuth: 50° 08' 50" N, 82° 08' 36" W
Location: 1020.0' at 210° to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 050 N
Easting: 5700 E
Dip: -90°



RECEIVED
APR 26 1995
MINING LANDS BRANCH

2 15956 000078

ROTARY DRILL HOLE RECORD

Drilling Started: Mar. 16, 1989
Drilling Finished: Mar. 17, 1989
Drilling Co.: Midwest
Dip: -90°
Hole Length: 155.0'
Overburden Depth: 48.0'
Claim No.: P 825805
Easting: 5750 E
Northing: 150 S
Azimuth: 50° 08' 46" N, 82° 08' 35" W
Location: 1430.0' at 195° to claim post no. 1
Property: Kipling

Logged By: A. Casselman
Logged: Mar. 31, 1989
Core Size: 3.5"
Core Storage:
Mineral Research Canada
R. R. # 2
Parry Sound, ON P2A 2W8
Elevation(original): 328.0'
Elevation(current): 331.5'
Hole No.: 89-97

SUMMARY

From	To	Description	
0.0'	3.0'	Peat	
3.0'	7.0'	Sand	
7.0'	48.0'	Glacial Clay Till - Overburden - Pleistocene	
48.0'	80.0'	Kaolin Silica Sand (Kss)	Cretaceous
80.0'	85.0'	Clay & Kss	
85.0'	88.0'	Clay	
88.0'	94.0'	Sandy Clay	
94.0'	95.0'	Kss	
95.0'	111.0'	Clay	
111.0'	113.5'	Sandy Clay	
113.5'	121.0'	Clay	
121.0'	124.0'	Sandy Clay	
124.0'	155.0'	Kss	

EOH - 155.0'

Detail Log - 89-97

From	To	Sample No.	Description
0.0'	3.0'		Peat
3.0'	7.0'		Sand - medium brown, medium grain, coarsening downsection.
7.0'	48.0'		Glacial Clay Till - dark brown, competent, rare angular clasts up to 4.0", dried, fissile, segmented, dark brown.
48.0'	53.0'	2551	Kss - light purple grey, medium grain, light grey pliable clay clots, high percentage heavies, 1.0" clay band at 48.25'. 12.76% kaolin.
53.0'	57.0'	2552	Kss - as above, coarse band at 53.0' - 53.5', clay clots in coarse gain portion. 10.73% kaolin.
57.0'	61.0'	2553	Kss - as above. 7.44% kaolin.
61.0'	65.0'	2554	Kss - as above. 7.01% kaolin.
65.0'	70.0'	2555	Kss - as above, no purple. 6.91% kaolin.
70.0'	75.0'	2556	Kss - as above, purple & brown bands. 5.80% kaolin.
75.0'	80.0'	2557	Kss - medium grain, brown and purple, high clay content, 1.0" yellow and grey band at 78.0'. 15.95% kaolin.
80.0'	85.0'	2558	Clay & Kss - interbedded, 80.0' - 81.0' - competent, greasy, pliable, dark brown, clay - carbonaceous. 81.0' - 82.0' - light grey, kss - medium grain, 82.0' - 83.0' - clay - pliable, competent, purple grading to yellow and olive green, grading to canary yellow and orange, grading to rose and orange/brown, 83.0' - 84.0' - kss - as previous, 84.0' - 85.0' - competent, pliable red clay. 27.27% kaolin. Kaolin - 25.0%, quartz - 75.0%.
85.0'	88.0'	2559	Clay - 85.0' - 86.0' - brown and rose laminated, pliable, 86.0' - 88.0' - buff and purple laminations. 55.72%

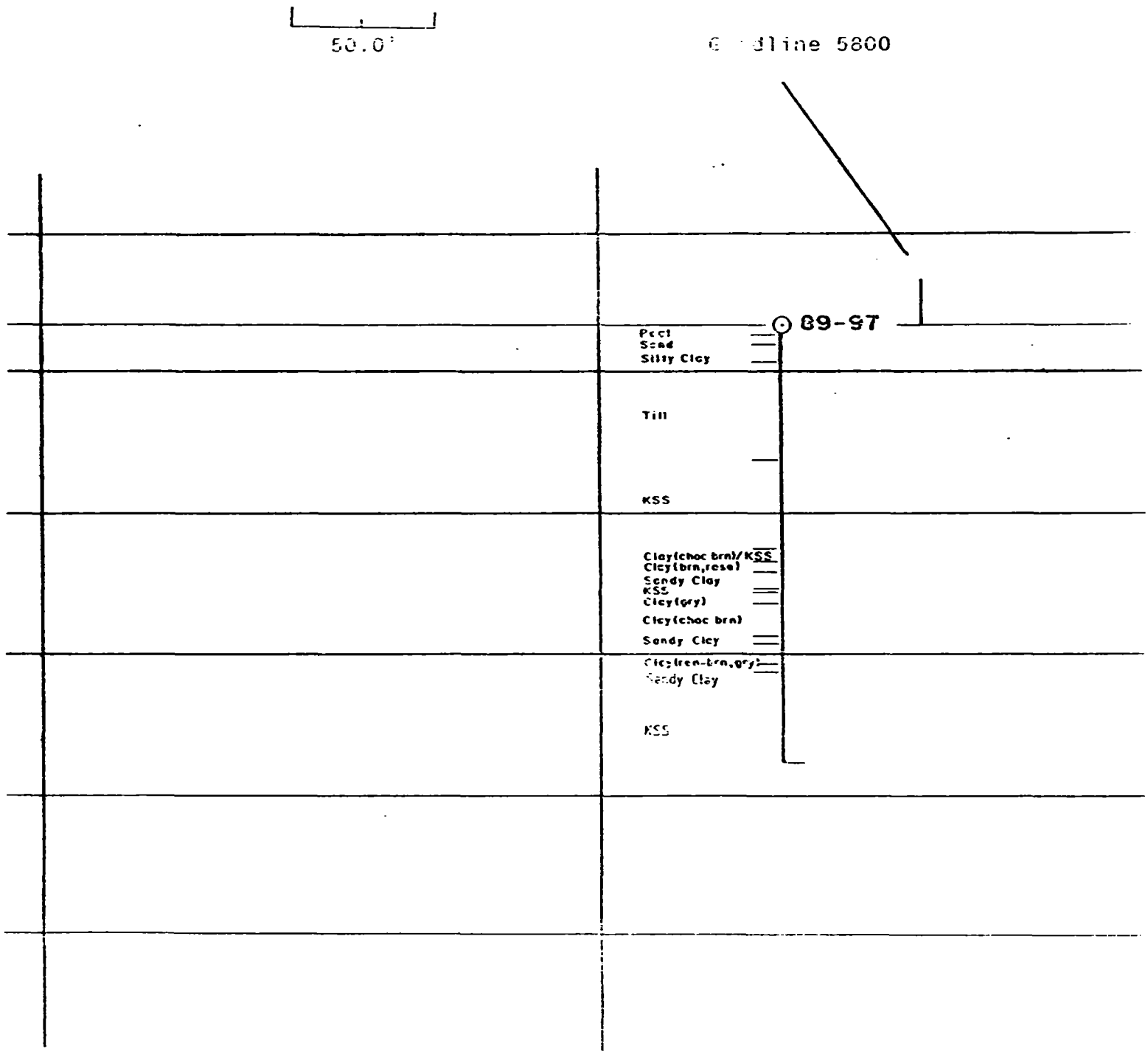
			kaolin.
88.0'	94.0'	2560	Sandy Clay - grey, faint darker laminations, highly competent, grading to medium kss, then purple sandy clay, banded with light grey pliable clay bands. 32.58% kaolin.
94.0'	95.0'	2561	Kss - coarse grain, high clay content, white. 26.58% kaolin.
95.0'	99.0'	2562	Clay - grey sandy clay, competent, grading to brown pliable clay with lignite fragments and seams, high illite content. 55.44% kaolin.
99.0'	103.0'	2563	Clay - dark brown, discontinuous lighter and darker laminations, greasy, fissile, competent grading to pliable. 73.85% kaolin.
103.0'	107.0'	2564	Clay - dark brown, pliable, containing lignite at 104.0', grading into sandy clay with lignite seams, laminations of illite and large clasts from 2.0" - 4.0". 66.02% kaolin.
107.0'	111.0'	2565	Clay - as above, lignite at 109.0' - grading to highly competent, greasy brown clay, yellow tinge. 54.46% kaolin.
111.0'	113.5'	2566	Sandy Clay - dark brown, high moisture content, high illite. 16.51% kaolin.
113.5'	118.0'	2567	Clay - red/brown, grading to grey with brown laminations, pliable, competent. 57.22% kaolin.
118.0'	121.0'	2568	Clay - competent, greasy, brown/red clay grading to sandy dark grey competent clay. 43.27% kaolin.
121.0'	124.0'	2569	Sandy Clay - dark brown carbonaceous with black carbonaceous laminations grading to black sandy clay with minor fossil wood fragments at 123.5' - then lightening to light brown with lighter laminations, high illite content, 34.28% kaolin.
124.0'	128.0'	2570	Kss - chocolate brown, from 124.0' - 125.5' - then becoming white with minor illite and heavies, fine grain, 11.14% kaolin.

128.0'	133.0'	2571	Kss - white as above, with heavies as banding, 12.58% kaolin.
133.0'	138.0'	2572	Kss - medium grain, grading to coarse grain, white, minor illite and heavies, 8.20% kaolin.
138.0'	143.0'	2573	Kss - coarsening downsection from medium to coarse grain as above, 8.53% kaolin.
143.0'	147.0'	2574	Kss - coarse grain, with clay-rich seams, clay clots - white, pliable, 0.25", where feldspars may have weathered *in situ*, 17.29% kaolin.
147.0'	151.0'	2575	Kss - medium grain, medium grey, some white areas, minor illite and heavies, 6.78% kaolin.
151.0'	155.0'	2576	Kss - alternating medium grey fine grain and extremely coarse grain in a clay white matrix, with light grey pliable clay clots, minor illite and heavies in fine portion, 3.5" siliceous dolostone clast - fossiliferous, brachiopods, crinoids and dark spherical area - dark and light grey - Devonian, 6.28% kaolin.

EOH - 155.0'

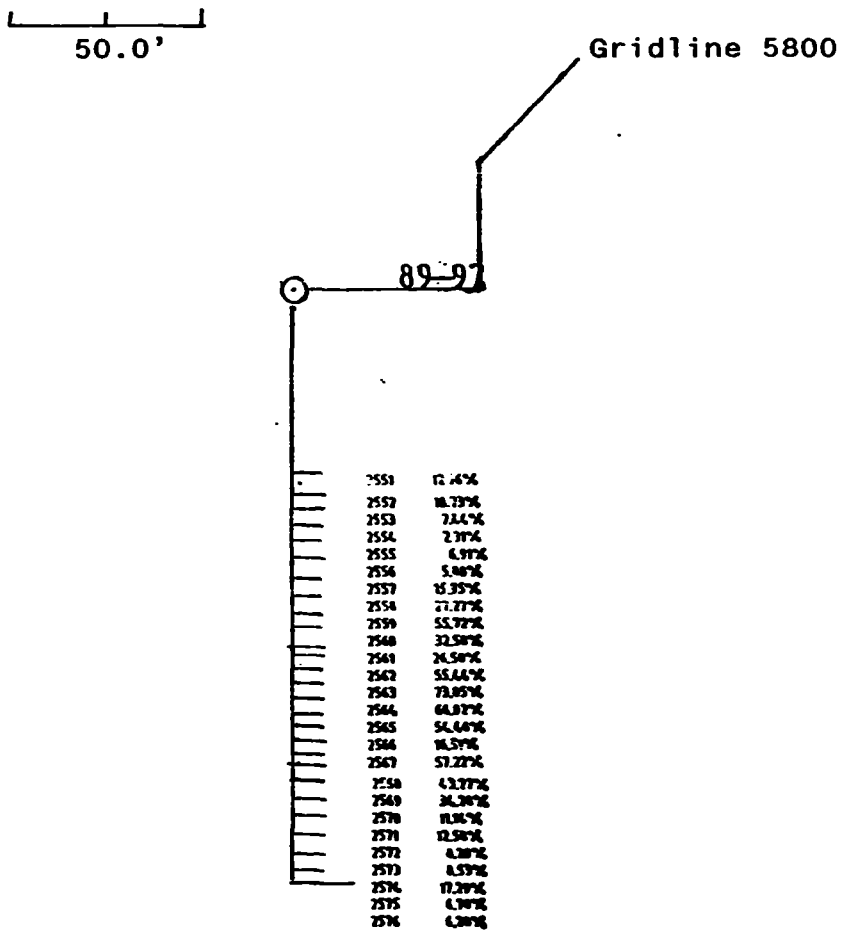
Section 8.-97

Claim No.: P 825805
Hole Length: 155.0'
Overburden Depth: 48.0'
Astronomic Azimuth: 50° 08' 46" W. 22° 08' 35" N
Location: 1430.0' at 195° to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 150 S
Easting: 5750 E
Dip: -90°



Section 89-97

Claim No.: P 825805
Hole Length: 155.0'
Overburden Depth: 48.0'
Astronomic Azimuth: 50° 08' 46" N, 82° 08' 35" W
Location: 1430.0' at 195° to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 150 S
Easting: 5750 E
Dip: -90°



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MINING LANDS BRANCH

000073

ROTARY DRILL HOLE RECORD

Drilling Started: March 15, 1989
Drilling Finished: March 16, 1989
Drilling Co.: Midwest
Dip: -90°
Hole Length: 196.0'
Overburden Depth: 94.0'
Claim No.: P 825803
Easting: 5550 E
Northing: 500 S
Azimuth: 50° 08' 34" N, 82° 08' 44" W
Location: 350.0' at 227° To Claim Post No. 1
Property: Kipling

Logged By: A. Casselman
Logged: Oct. 3, 1989
Core Size: 3.5"
Core Storage:
Mineral Research Canada
R. R. # 2
Parry Sound ON P2A 2W8
Hole No.: 89-113

SUMMARY

From	To	Description
0.0'	1.0'	Peat
1.0'	7.0'	Sand
7.0'	11.0'	Sand & Gravel - interlayered
11.0'	94.0'	Glacial Clay Till Pleistocene - Overburden
94.0'	113.0'	Kss (Kaolin Silica Sand) Cretaceous
113.0'	115.0'	Clay
115.0'	116.0'	Kss
116.0'	121.0'	Clay
121.0'	130.0'	Sandy Clay
130.0'	168.0'	Kss
168.0'	169.5'	Lignite, Clay & Sandy Clay
169.5'	183.0'	Kss
183.0'	196.0'	Clay

MINERAL RESEARCH
CANADA
1 INDUSTRIAL BLVD. RR2
PARRY SOUND, ONTARIO
CANADA P2A 2W8
FAX (705) 378-5123 BUS (705) 378-2416
DATE

EOH - 196.0'

Detail Log - 89-113

From	To	Sample No.	Description
0.0'	1.0'		Peat
1.0'	6.0'		Clayey Sand - yellow/brown, high moisture content, uniform grain size (well sorted), medium grain.
6.0'	11.0'		Sand & Gravel - black to dark brown, some yellow brown, sand and clay matrix supported gravel clasts.
11.0'	26.0'		Glacial Clay Till - clast-free, dark brown with green/grey clay clots from 11.0'- 12.0', competent, calcareous.
26.0'	51.0'		Glacial Clay Till - dark brown - sandy, with clasts up to 4.0" of carbonate and gneissic lithologies, clasts are angular to sub-angular, competent. *
51.0'	56.0'		Glacial Clay Till - medium brown, clast-free, dried, fissile.
56.0'	61.0'		Glacial Clay Till - as previously described - *
61.0'	94.0'		Glacial Clay Till - as above, less sandy.
94.0'	96.0'	15051	Kss - medium grain, white, minor illite and heavies, 17.16% kaolin.
96.0'	101.0'	15052	Kss - as above, 8.23% kaolin.
101.0'	106.0'	15053	Kss - as above, lower contact contains sandy clay with large rounded smoky quartz clasts, buff, high illite content, 30.33% kaolin.
106.0'	111.0'	15054	Kss - as above sandy clay interspersed, 8.99% kaolin.
111.0'	113.0'	15055	Kss - as above, light grey, 9.44% kaolin.
113.0'	115.0'	15056	Clay - pliable, grading from yellow at upper contact to orange, then from red to buff & grey mottled at lower contact, 55.72% kaolin.

115.0'	116.0'	15057	Kss - light brown, minor heavies, medium grain, rare larger rounded milky quartz, low clay content, 6.23% kaolin.
116.0'	121.0'	15058	Clay - red & grey mottled, pliable, grading into grey clay, then to grey sandy clay, medium grain with minor illite and heavies, also concord purple clots, some what pinkish at lower contact, at 118.0, the red colouration ends, 50.51% kaolin.
121.0'	126.0'	15059	Sandy Clay - grey, competent, medium grain, minor illite and heavies, purple clots & seams, one disseminated marcasite nodule, 1.0", surrounded by purple staining, at 125.0', 28.30% kaolin.
126.0'	130.0'	15060	Sandy Clay - as above, 25.16% kaolin.
130.0'	136.0'	15161	Kss - fine grain, white, grey/brown, minor illite and heavies, 11.37% kaolin.
136.0'	141.0'	15162	Kss - medium grain, coarsening downward to coarse grain, white to light grey, minor illite, and heavies, 11.59% kaolin.
141.0'	146.0'	15063	Kss - coarse grain, vari-coloured silica, and light grey clay clots, a 4.0" yellow impurity band at 142.0', several small areas of white (some are apparently extremely fine grain clay, densely packed with virtually no moisture content, whereas others are quite fissile with a rhombohedral like cleavage, no effervescence in acid - possibly calcium chloride), (2) 4.0" dolomitic sandstone clasts, grey, medium grain, darker weathered surface, rounded, fossiliferous, - primarily crinoids - Devonian material, 12.10% kaolin.
146.0'	150.0'	15064	Kss - coarse grain, as above form 146.0' - 148.0', then becoming medium grain, with high illite content, (1) dolomitic sandstone clast 3.0" similar to previous description, 18.30% kaolin.
150.0'	156.0'	15065	Kss - medium grain, grey, 156.0' - 156.75' is buff sandy clay with a high illite content, 21.75% kaolin.

156.0'	161.0'	15066	Kss - medium grain, light grey, minor illite and heavies, 156.0' - 158.0' contains inclusions of sandy clay as previously described, 24.30% kaolin.
161.0'	166.0'	15067	Kss - medium grain & coarse grain alternating, light to medium grey, vari-coloured sub-rounded silica, high illite in medium grain portion, 9.92% kaolin.
166.0'	168.0'	15068	Kss - medium grain, medium brown, dried, 32.63% kaolin.
168.0'	169.5'	15069	Lignite, Clay, & Sandy Clay - black fibrous, compressed fossil wood beds interbedded with light brown, pliable clay, as well as chocolate brown and black sandy clay with minor illite, 39.82% kaolin.
169.5'	176.0'	15070	Kss - white, dried, medium grain, with larger smoky quartz clasts up to 2.0", rounded, 14.03% kaolin.
176.0'	183.0'	15071	Kss - coarsening and darkening downward from light to medium brown, and from medium to coarse grain, 9.82% kaolin.
183.0'	186.0'	15072	Clay - 1.0" of buff to dark brown sandy clay, with black laminations, high illite contents, clay is black, disk-like, greasy, and highly competent, 63.52% kaolin.
186.0'	191.0'	15073	Clay - black, grading from pliable to fissile to frequent brown laminations, some illite, 68.61% kaolin.
191.0'	196.0'	15074	Clay - black as above, 74.91% kaolin.

EOH - 196.0'

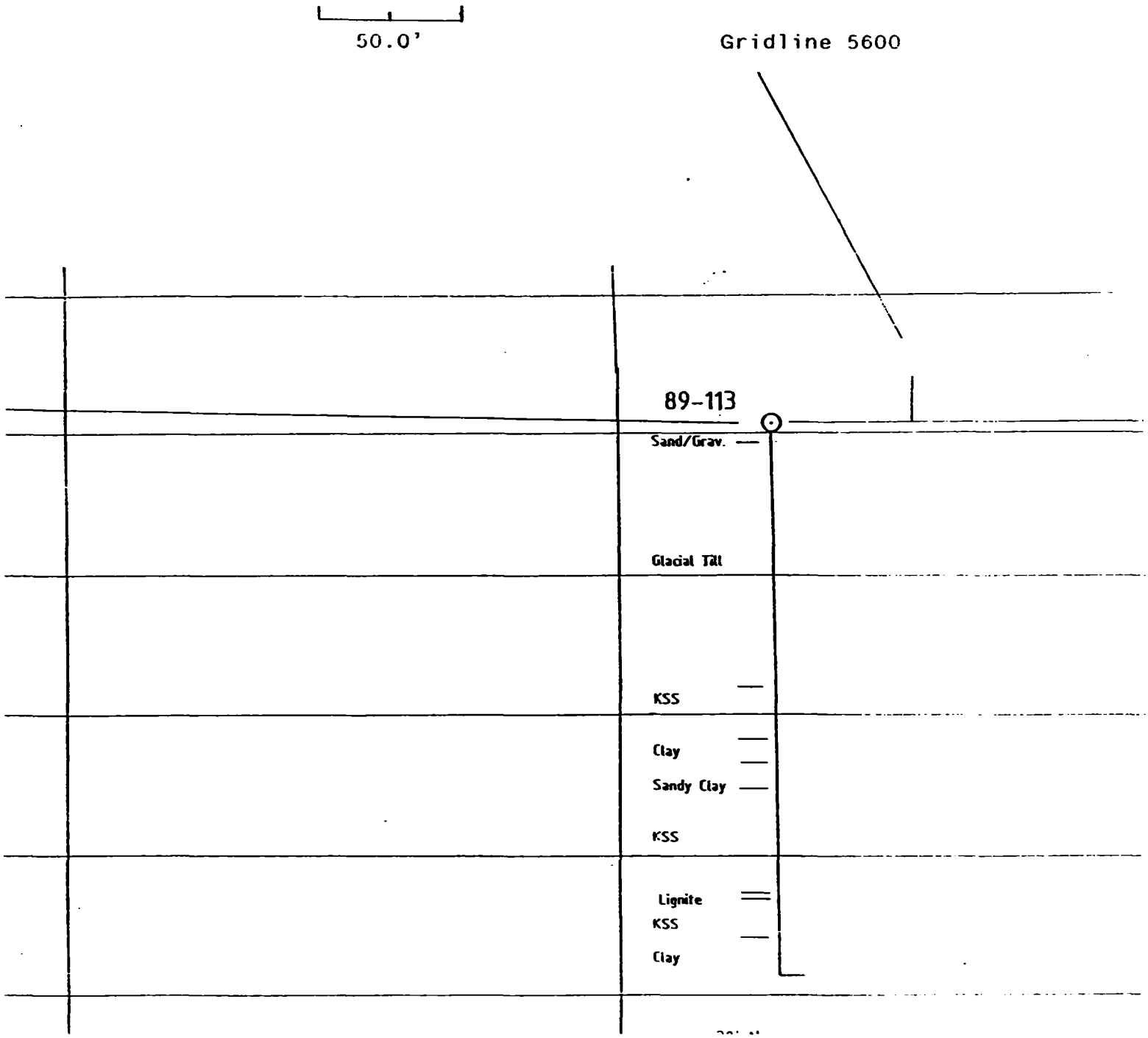
Section 89-113

Claim Number: P 825803
Northing: 050 S
Easting: 5550 E
Dip Collar: -90°
Hole Length: 196.0'
Overburden Depth: 111.0'
Astronomic Azimuth: 50° 08' 34" N, 82° 08' 44" W
Location: 350.0' at 227° to claim post no. 1
Scale: 1.0' = 50.0' or 1:600

50.0' Gridline 5600

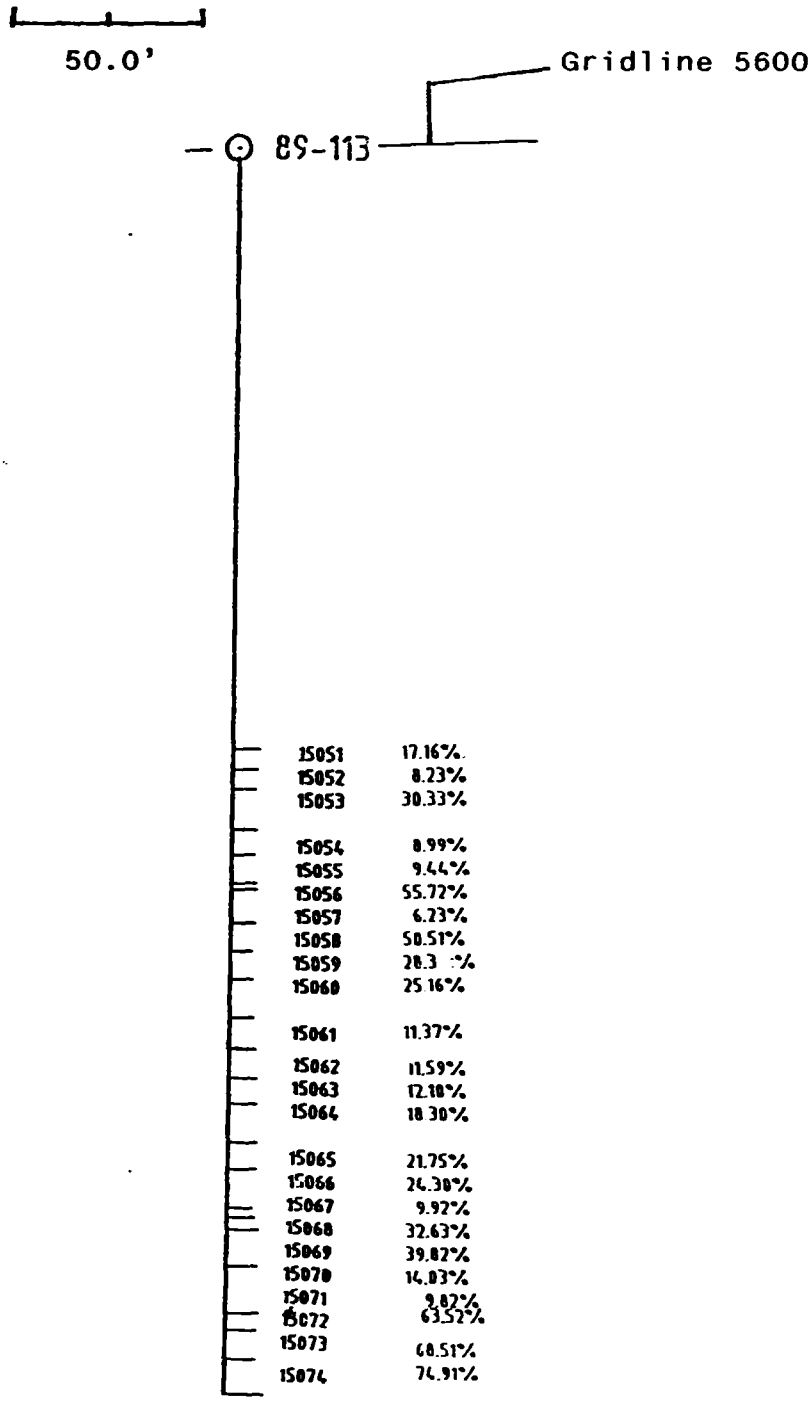
Section 89-113

Claim Number: P 825603
Northing: 050 S
Easting: 5550 E
Dip Collar: -90°
Hole Length: 196.0'
Overburden Depth: 111.0'
Astronomic Azimuth: 50° 08' 34" W. 82° 08' 44" N
Location: 350.0' at 227° to claim post no. 1
Scale: 1.0' = 50.0' or 1:600



Section 89-113

Claim Number: P 825803
Northing: 050 S
Easting: 5550 E
Dip Collar: -90°
Hole Length: 196.0'
Overburden Depth: 111.0'
Astronomic Azimuth: 50° 08' 34" N, 82° 08' 44" W
Location: 350.0' at 227° to claim post no. 1
Scale: 1.0' = 50.0' or 1:600



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MINING LANDS BRANCH

000073

ROTARY DRILL HOLE RECORD

Drilling Started: March 15, 1989
Drilling Finished: March 15, 1989
Drilling Co.: Midwest
Dip: -90°
Hole Length: 205.0'
Overburden Depth: 116.0'
Claim No.: P825803
Easting: 5440 E
Northing: 520 S
Azimuth: 50° 08' 32" N, 82° 08' 50" W
Location: 700.0' at 236° To Claim Post No. 1
Property: Kipling

Logged By: A. Casselman
Logged: Oct. 11, 1989
Core Size: 3.5"
Core Storage:
Mineral Research Canada
R. R. # 2
Parry Sound ON P2A 2W8
Hole No.: 89-114

SUMMARY

From	To	Description	
0.0'	0.25'	Organic Material	
0.25'	7.0'	Sand	
7.0'	15.0'	Lacustrine Clay	
15.0'	20.0'	Sand	
20.0'	70.5'	Glacial Clay Till	
70.5'	70.75'	Granite	
70.75'	107.0'	Glacial Clay Till - Pleistocene - Overburden	
107.0'	115.0'	Sandy Clay	Cretaceous
115.0'	165.0'	Kaolin Silica Sand (Kss)	
165.0'	180.0'	Sandy Clay	
180.0'	185.0'	Clay	
185.0'	204.0'	Sandy Clay	
204.5'	205.0'	Kss	

Anne Casselman
Feb 1, 1992.

EOH - 205.0'

Detail Log 89-114

From	To	Sample No.	Description
0.0'	0.25'		Organic Material - root matter.
0.25'	5.0'		Sand - yellow/brown, medium grain, uniform, well sorted.
5.0'	7.0'		Sand - yellow/brown, high clay and moisture contents.
7.0'	15.0'		Lacustrine Clay - highly pliable, medium brown, rhythmic laminations.
15.0'	20.0'		Sand - as described - 5.0 - 7.0'
20.0'	32.0'		Till - silty, non-competent, dark brown, minor clast content, angular carbonates.
32.0'	44.0'		Till - as above, more competent.
44.0	49.0'		Till - as above, non-competent.
49.0	65.0		Till - as above, highly competent.
65.0	70.5		Till - as above, less competent, high sand content.
70.5'	70.75'		Granite - boulder, coarse grain, (quartz, biotite, plagioclase and orthoclase feldspars), garnet seam.
70.75'	100.0'		Till - as previous, highly competent, with granitic and gneissic clasts.
100.0'	107.0'		Till - as above, non-competent, some minor kss interbedding.
107.0	110.0'	15101	Sandy Clay - light grey, minor illite, and heavies, some purple areas, 20.33% kaolin.
110.0	115.0	15102	Sandy Clay - as above, 23.85% kaolin.
115.0	117.0	15103	Kss - medium grain, lightening downsection from chocolate brown to white, minor heavies, 14.10% kaolin.
117.0'	121.0	15104	Kss - medium grain, minor illite and heavies, white, 7.92% kaolin.

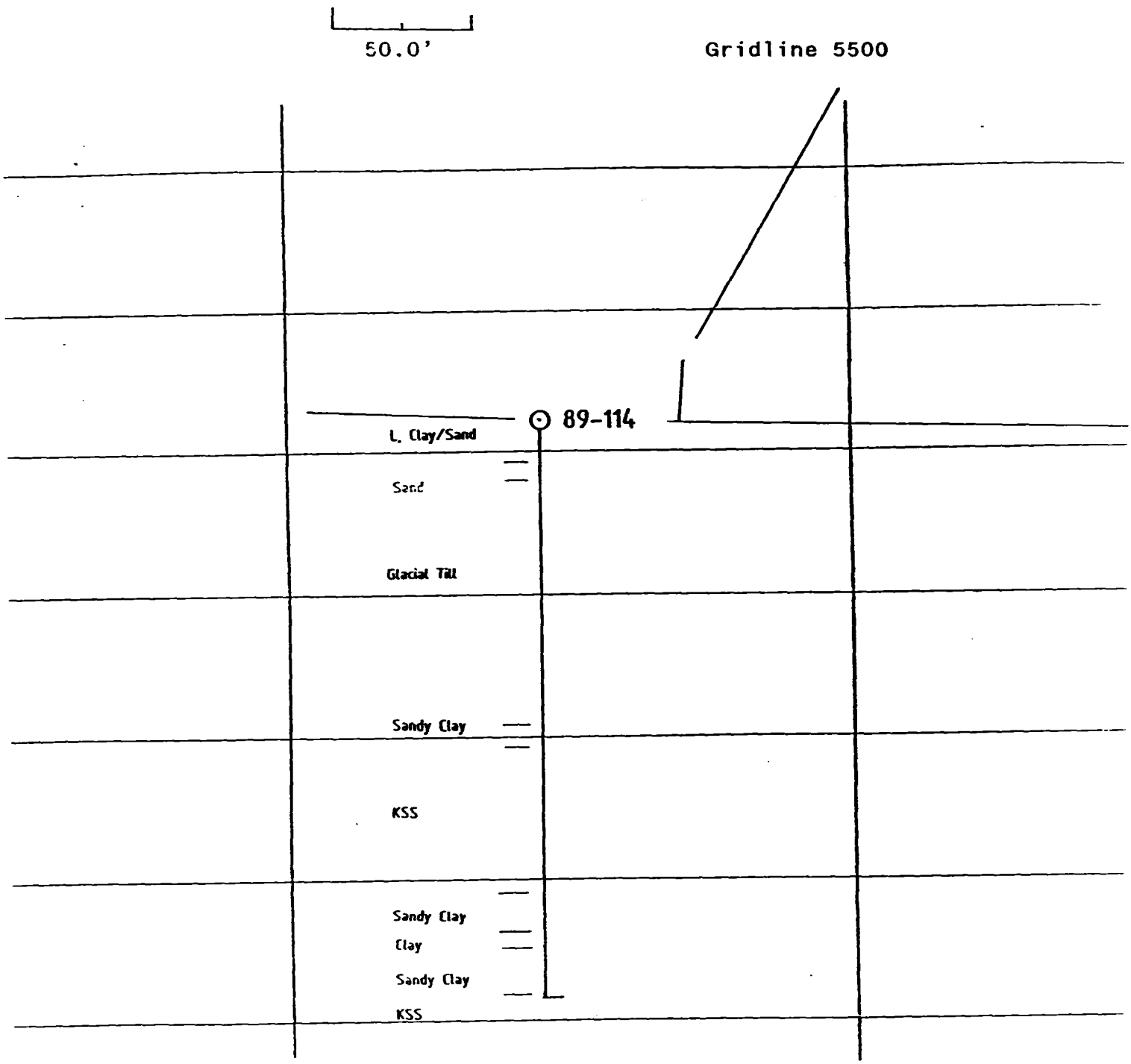
121.0'	126.0'	15105	Kss - coarse grain, coarsening downsection, vari-coloured silica, rounded, 7.34% kaolin.
126.0'	130.0	15106	Kss - as above, 7.72% kaolin.
130.0'	135.0	15107	Kss - as above, 8.76% kaolin.
135.0'	139.0'	15108	Kss - as above, with numerous white pliable clay clots, up to 0.5", 9.44% kaolin.
139.0'	144.0'	15109	Kss - coarsening downsection, from fine to coarse, white, one area of yellow brown, coarse grain section is comprised of 0.13 - 0.25" rounded, vari-coloured silica, in a medium grain matrix, 11.59% kaolin.
144.0	150.0	15110	Kss - coarse grain as above, 11.04% kaolin.
150.0	155.0	15111	Kss - fining downsection, from coarse grain as described above to medium grain, purple band,of 3.0" at 150.75', light grey, 11.42% kaolin.
155.0	160.0	15112	Kss - medium grain, light grey, high heavies content, low clay content, rare larger clasts up to 2.0' of yellow chert, 9.37% kaolin.
160.0	165.0	15113	Kss - coarse grain, darkening downsection, large rounded yellow cherts and smoky quartz clasts in a medium grain matrix, 11.52% kaolin.
165.0	170.0	15114	Sandy Clay - chocolate brown, with black laminations, some mottled areas of lighter and darker, 35.90% kaolin.
170.0	175.0	15115	Sandy Clay - as above, 61.01% kaolin.
175.0	180.0	15116	Sandy Clay - black, highly competent, medium grain, 57.11% kaolin.
180.0	185.0	15117	Clay - black, semi-pliable, interbedded with sandy clay - as above - minor fossil wood grading downsection to a high medium grain sand content, 63.70% kaolin.
185.0	190.0	15118	Sandy Clay - chocolate brown, with black carbonaceous seams, relatively

			high sand content, minor illite, 25.52% kaolin.
190.0	195.0	15119	Sandy Clay - as above, 27.14% kaolin.
195.0'	201.0'	15120	Sandy Clay as above - increasing number of pliable clay clots downsection, 31.90% kaolin.
201.0'	203.0'	15121	Sandy Clay - with yellow interbeds - probably sulphur-rich material, as well as kss interbeds, from 202.0 - 203.0' kss - medium grain, low clay content, medium brown, fossil wood fragments - greyish, generally large pieces, heavy concentration at lower contact, lignite - uncompressed seam, very fibrous, 24.61% kaolin.
203.0'	204.0'	15122	Kss - medium grain, coarsening downsection to coarse, the medium grain portion is yellow with dark concord purple laminations, coarse grain is medium purple with rounded smoky and milky quartz clasts, exterior crystal growth as on hole 89-219, clear acicular needles, some form of soluble salt, 10.99% kaolin.
204.0'	205.0'	15123	Kss - as above. 8.91% kaolin.

EOH - 205.0'

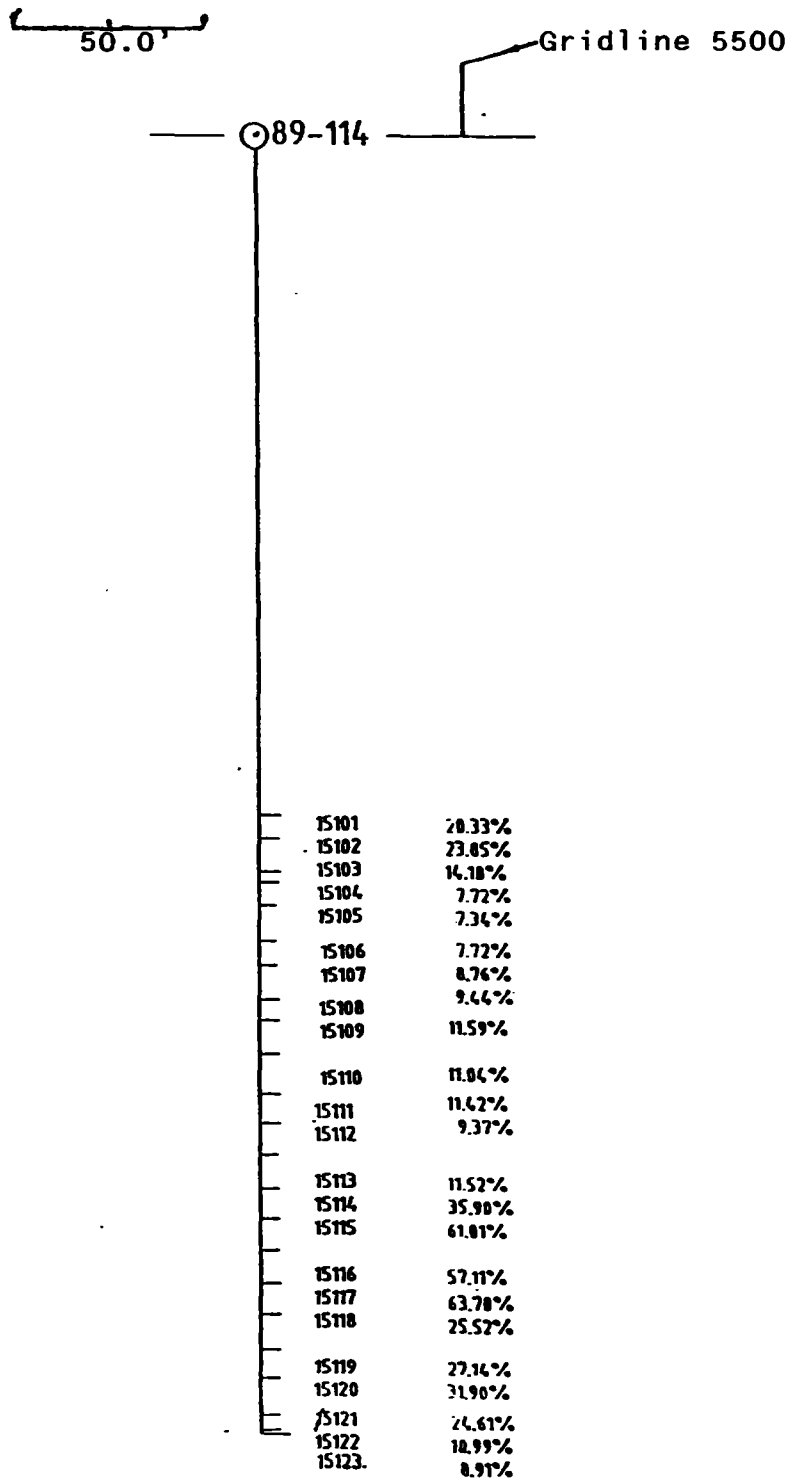
Section 89-114

Claim No.: P 825803
Hole Length: 205.0'
Astronomic Azimuth: 50° 08' 32" W. 82° 08' 50" N
Location: 700.0' at 236° to claim post no. 1
Dip Collar: -90°
Northing: 520 S
Easting: 5440 E
Scale: 1.0" = 50.0' or 1:600
Overburden Depth: 100.0'



Section 89-114

Claim No.: P 825803
Hole Length: 205.0'
Astronomic Azimuth: 50° 08' 32" N, 82° 08' 50" W
Location: 700.0' at 236° to claim post no. 1
Dip Collar: -90°
Northing: 520 S
Easting: 5440 E
Scale: 1.0" = 50.0' or 1:600
Overburden Depth: 100.0'



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MINING LANDS BRANCH

2.15

000078

ROTARY DRILL HOLE RECORD

Drilling Started: Dec. 3, 1988
Drilling Finished: Dec. 3, 1988
Drilling Co.: Midwest
Dip: -90°
Hole Length: 187.0'
Overburden Depth: 90.0'
Claim No.: T 21586
Easting: 590 E
Northing: 75 N
Azimuth: 50° 08' 52" N, 82° 13' 29" W
Location: 380.0' at 190° to Claim Post No. 1
Property: Kipling

Logged By: A. Casselman
Logged: April 7, 1989
Core Size: 3.5"
Core Storage:
Mineral Research Canada
R. R. # 2
Parry Sound ON P2A 2W8
Hole No.: 88-4

SUMMARY

From	To	Description	
0.0'	84.0'	Glacial Sandy Clay Till - Overburden - Pleistocene	
84.0'	138.0'	Kaolin Silica Sand (Kss)	Cretaceous
138.0'	139.75'	Clay	
139.75'	144.0'	Kss	
144.0'	148.0'	Clay	
148.0'	178.75'	Kss	
178.75'	184.0'	Clay	
184.0'	185.0'	Kss	
185.0'	187.0'	Clay	

MINERAL RESEARCH
CANADA
INDUSTRIAL PARK
PARRY SOUND, ONTARIO
CANADA P2A 2W8
FAX (705) 378-5123
BUS (705) 378-2416
DATE

EOH - 187.0'

Detail Log - 88-4

From	To	Sample No.	Description
0.0'	84.0'		Glacial Sandy Clay Till - highly fissile, medium green, high percentage micas (biotite & muscovite), highly competent, many large clasts up to 3.0", granitic (well rounded) and amphibolitic (rounded), sub-rounded and pitted gneissic clasts (feldspar and biotite), 74.0' - 78.0', 82.0' - 82.5' & 88.0'.
84.0'	99.0'	17151	Kss - medium grain, 92.0' - 95.0' - coarse grain, clasts up to 3.0" or crumbly bonded Kss/rock material, 95.0' - 99.0' - medium grain grading to fine grain, yellow brown, lighter at core ends, bonded material altered garnet agglomerates as well as amphibolitic or granitic clasts, also bonded limonitic areas, red, yellow and grey, sections of clay material, highly illitic, medium green/brown, many large clasts up to 2.5" in the kss portion, generally rounded, granite, ampholite, and gneissic clasts containing feldspar and biotite, non-calcareous matrix, much lost core, 15.11% kaolin.
99.0'	104.0'	17152	Kss - medium grain, yellow brown, 6.0% kaolin
104.0'	110.0'	17153	Kss - medium grain, yellow brown, 3.83% kaolin.
110.0'	118.0'	17154	Kss - medium grain, slight coarsening downsection, yellow brown, very little material for an eight foot section, 3.40% kaolin.
118.0'	122.0'	17155	Kss - medium grain, yellow brown, 6.26% kaolin.
122.0'	126.0'	17156	Kss - medium grain, yellow brown, some greyish areas, more centre white, 6.79% kaolin.
126.0'	131.0'	17157	Kss - medium and coarse grain alternating, yellow brown, lighter near white in coarse portions, 6.74% kaolin.

131.0'	135.0'	17158	Kss - medium grain, light grey, 15.87% kaolin.
135.0'	138.0'	17159	Kss - medium grain, yellow brown, with light grey laminations, drill core gouging, 12.96% kaolin.
138.0'	139.75'	17160	Clay - competent, greasy, light brown, yellow laminations, drill core gouging, 68.15% kaolin.
139.75'	144.0'	17161	Kss - medium grain, yellow brown, with medium grey sections, illitic, moist, 9.85% kaolin.
144.0'	148.0'	17162	Clay - (Sandy Clay 147.75' - 148.0' - light grey with purple laminations), semi-pliable grading to pliable grading to fissile grading to friable, buff and yellow laminations, drilling debris, 64.56% kaolin.
148.0'	154.0'	17163	Kss - medium grain, yellow brown and medium grey alternating, 6.36% kaolin.
154.0'	159.0'	17164	Kss - medium grain, white, frequent yellow brown laminations, 7.70% kaolin.
159.0'	164.0'	17165	Kss - medium grain, yellow brown, 9.33% kaolin.
164.0'	169.0'	17166	Kss - medium grain, light grey, 5.88% kaolin.
169.0'	174.0'	17167	Kss - coarse grain grading to medium grain, 169.0' - 171.0' - white, 171.0' - 174.0'- deep yellow brown, moist, minor illite, 7.41% kaolin.
174.0'	178.75'	17168	Kss - medium grain coarsening downsection to coarse, yellow brown, 66.95% kaolin.
178.75'	184.0'	17169	Clay - semi-pliable, buff & yellow mottled at upper contact, remainder buff, areas of higher silica content, at 180.0'- green & red Fe coatings on silica, kss contamination, 12.86% kaolin.
184.0'	185.0'	17170	Kss - medium grain, buff, 11.48% kaolin.
185.0'	187.0'	17171	Clay - disc-like, fissile, buff, 61.21% kaolin.

EOH - 187.0'

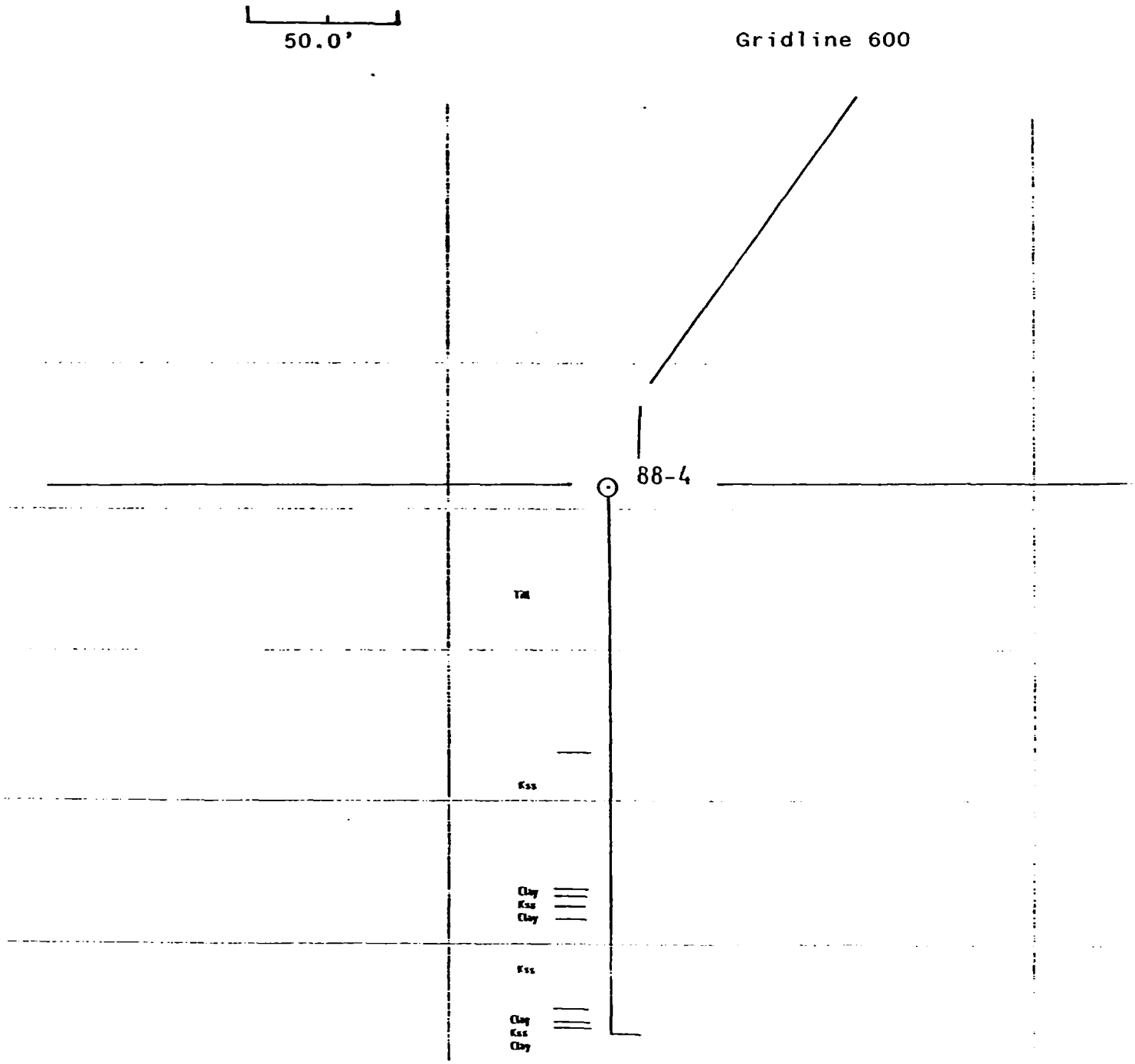
Section 88-4

Claim No.: P 900052
Hole Length: 187.0'
Overburden Depth: 90.0'
Astronomic Azimuth: 50° 08' 52" N, 82° 13' 29" W
Location: 380.0' at 190° to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 075 N
Easting: 590 E
Dip: -90°

50.0' Gridline 600

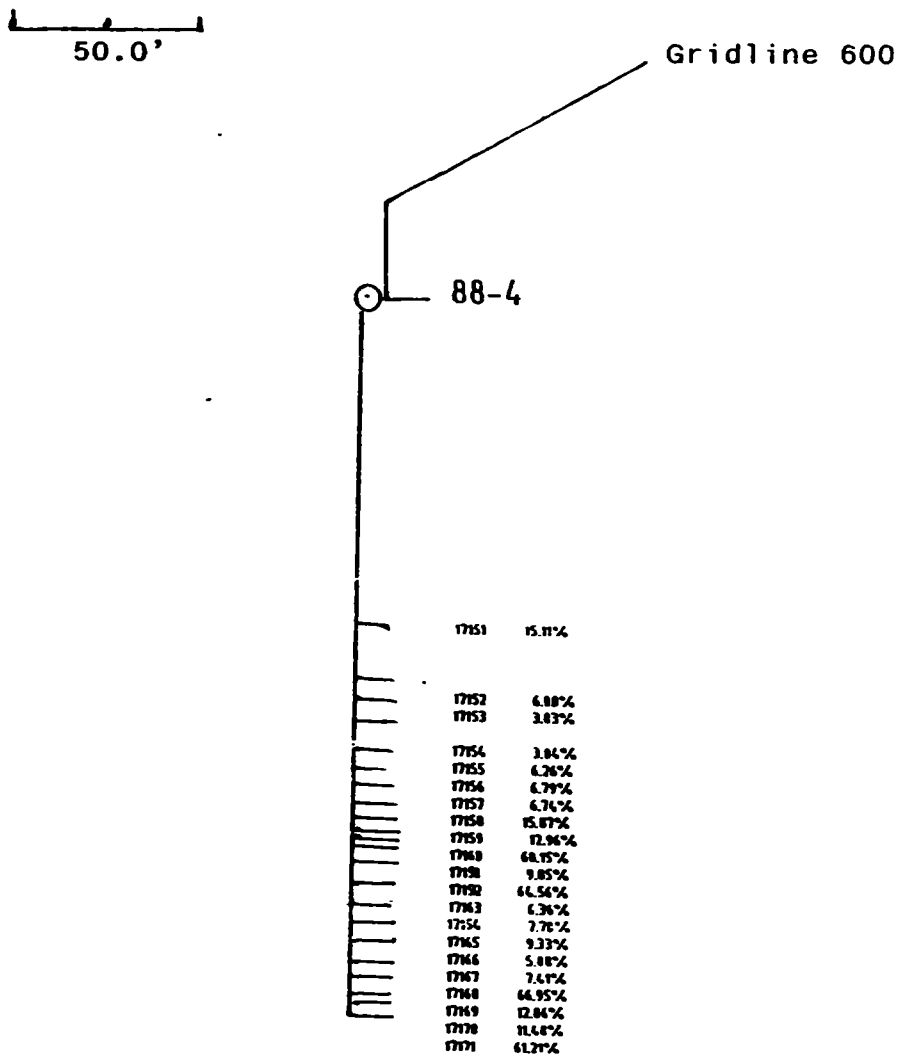
Section 88-4

Claim No.: P 900052
Hole Length: 187.0'
Overburden Depth: 90.0'
Astronomic Azimuth: 50° 08' 52" W. 82° 13' 29" N
Location: 380.0' at 190° to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 075 N
Easting: 590 E
Dip: -90°



Section 88-4

Claim No.: P 900052
Hole Length: 187.0'
Overburden Depth: 90.0'
Astronomic Azimuth: 50° 08' 52" N, 82° 13' 29" W
Location: 380.0' at 190° to claim post no. 1
Scale: 1.0" = 50.0' or 1:600
Northing: 075 N
Easting: 590 E
Dip: -90°



RECEIVED
APR 26 1995
MINING LANDS BRANCH

2.15950 00073

SONIC DRILL HOLE RECORD

Drilling Started: Mar. 5, 1992
Drilling Finished: Mar. 5, 1992
Drilling Co.: J. R. Drilling
Dip: -90°
Hole Length: 250.0'
Overburden Depth: 68.0'
Claim No.: P 825800
Easting: 5300 m E
Northing: 750 m N
Azimuth: 50° 09' 08" N, 82° 08' 53" W
Location: 470.0' at 215° To Claim Post No. 1
Property: Kipling

Logged By: A. Casselman
Logged: Feb. 15, 1993
Core Size: 3.5"
Core Storage:
Mineral Research Canada
R. R. # 2
Parry Sound, ON
P2A 2W8
Hole No.: 92-11

SUMMARY

From	To	Description	
0.0'	67.0'	Glacial Clay Till	
67.0'	69.0'	Sand	
69.0'	77.0'	Kaolin Silica Sand (Kss)	
77.0'	84.0'	Glacial Clay Till	Overburden - Pleistocene
84.0'	88.0'	Kaolin Silica Sand (Kss)	Cretaceous
88.0'	101.0'	Clay	
101.0'	104.5'	Kss	
104.5'	110.0'	Kss & Sandy Clay	
110.0'	211.0'	Kss	
211.0'	216.0'	Kss & Sandy Clay	
216.0'	229.25'	Kss	
229.25'	232.0'	Clay & Sandy Clay	
232.0'	235.0'	Lignite	
235.0'	245.5'	Clay	
245.5'	246.0'	Lignite	
246.0'	250.0'	Clay	

MINERAL RESEARCH
CANADA
1 INDUSTRIAL BLVD. RR2
PARRY SOUND, ONTARIO
FAX (705) 378-5123 BUS (705) 378-2416
DATE

EOH - 250.0'

Detail Log - 92-11

From	To	Sample No.	Description
0.0'	67.0'		Glacial Clay Till - competent, dark green/brown, calcareous, frequent large gneissic and carbonate clasts.
67.0'	69.0'		Sand - extremely fine grain, yellow/brown, highly calcareous, some clay content.
69.0'	72.0'		Kss/Till contact - extremely calcareous, dark green/brown, medium grain, highly competent.
72.0'	77.0'	16751	Kss - medium brown, medium grain, poor clay content, partially contacting with Pleistocene, 9.80% kaolin.
77.0'	84.0'		Glacial Clay Till - as above.
84.0'	85.5'	16752	Kss - as above, 7.87% kaolin.
85.5'	88.0'	16753	Kss - medium grain, with one area of coarse clasts, vari-coloured silica, intense pliable clay mottling, weakly pliable downsection, discontinuous lighter and darker laminations of light brown to white, one area of yellow, minor illite, 18.56% kaolin.
88.0'	90.0'	16754	Clay - as above, some kss mottling, highly competent, 72.00% kaolin.
90.0'	92.5'	16755	Clay - as above, no kss mottling, last 0.75' chocolate brown, highly carbonaceous, competent, weakly pliable, 67.11% kaolin.
92.5'	97.0'	16756	Clay - competent, weakly pliable, yellow & orange mottled with buff from 92.5 - 93.5', the 2.0" of chocolate brown clay becoming medium brown with lighter and darker discontinuous laminations, 78.89% kaolin.
97.0'	101.0'	16757	Clay - yellow and dark buff mottled, almost entirely yellow at 100.0' - from 4.0", carbonaceous, pliable, competent, some kss contamination, 68.35% kaolin.
101.0'	104.5'	16758	Kss - medium grain, light brown, minor illite and heavies, external yellow

			contamination, 6.23% kaolin.
104.5'	110.0'	16759	Kss & Sandy Clay - kss - as above, sandy clay from 108.0' - 109.5' - pliable, medium grain, light brown clay - pliable, as mottling, drill core gouging, 13.92% kaolin.
110.0'	114.0'	16760	Kss - as above, slightly coarser, 4.76% kaolin.
114.0'	118.0'	16761	Kss - coarse grain, vari-coloured silica, white, minor illite and heavies, 5.11% kaolin.
118.0'	122.0'	16762	Kss - extremely coarse grain, in a medium brown clay matrix grading to normal medium grain, white kss with minor illite and heavies, 12.78% kaolin.
122.0'	127.0'	16763	Kss - medium grain, white, minor illite and heavies, 126.0' - 127.0' coarse grain, vari-coloured silica, garnetiferous haematitic siliceous conglomerate at 125.0' - oblate, two clasts of 1.5", 13.72% kaolin.
127.0'	128.0'	16764	Kss - coarse as above, some clay mottling then medium grain as above, 9.16% kaolin.
128.0'	132.0'	16765	Kss - as above, medium grain, extremely coarse grain from 128.0' - 128.5' - vari-coloured silica, one sandy clay clot, buff, pliable in the coarse portion, 12.81% kaolin.
132.0'	136.0'	16766	Kss - as above, medium grain, some finer areas, 10.84% kaolin.
136.0'	140.0'	16767	Kss - as above, 7.85% kaolin.
140.0'	143.0'	16768	Kss - as above, some heavies banding, 11.11% kaolin.
143.0'	146.0'	16769	Kss - light brown, as above, high percentage heavies (garnet) - frequent coarse vari-coloured silica clasts in a medium grain matrix from 142.0' - 143.0', 7.04% kaolin.
146.0'	150.0'	16770	Kss - coarse grain in a medium grain matrix as above, large pitted chocolate brown dolostone clasts with cemented silica and garnet on exterior, 8.15% kaolin.
150.0'	153.5'	16771	Kss - as above, less heavies, some clay mottling at 153.0' - 2.0' buff pliable

			illitic sandy clay then medium grain, 150.0' - 151.5' - highly garnetiferous, 151.5 - 153.0' - buff with frequent larger clasts, 12.76% kaolin.
153.5'	157.0'	16772	Kss - coarse grain, in a medium grain matrix, light brown, some purple areas, especially near large dolostone clast, drill cut, angular, crinoidal, pitted dark grey, lighter interior at 156.0', 11.16% kaolin.
157.0'	162.0'	16773	Kss - as above, more matrix, higher percentage heavies (garnet), garnetiferous hematitic siliceous conglomerate 1.0" at 161.5', oblate, fewer large vari-coloured silica clasts, one area of powdered red/brown, bean shaped area at 161.75' - highly garnetiferous, 6.15% kaolin.
162.0'	167.0'	16774	Kss - medium grain, white, minor illite and heavies, clay mottling, pliable, buff at upper contact, white with some areas of chocolate, coarse grain, 9.97% kaolin.
167.0'	172.0'	16775	Kss - medium grain, white, minor illite and heavies, garnetiferous haematitic siliceous conglomerate found downsection, 5.52% kaolin.
172.0'	177.0'	16776	Kss - as above, 8.43% kaolin.
177.0'	182.0'	16777	Kss - as above, 179.0' - 180.0' - coarse grain in a medium grain and clay matrix, clay - mottled medium and light brown, 180.0' - 182.0' - highly garnetiferous with several large loosely aggregated garnetiferous haematitic siliceous conglomerates, 11.82% kaolin.
182.0'	187.0'	16778	Kss - medium grain, buff, minor illite, high percentage garnet & heavies, 5.19% kaolin.
187.0'	192.0'	16779	Kss - as above, some areas of sandy clay - buff, pliable, illitic, 7.75% kaolin.
192.0'	197.0'	16780	Kss - as above, 8.28% kaolin.
197.0'	201.0'	16781	Kss - coarse grain vari-coloured silica in a medium grain matrix, first half buff the 0.5' of clay mottling with kss, clay - pliable medium and light brown, after medium grain, light brown, minor illite and heavies, then frequent large rounded clasts in a medium grain matrix in last 0.5', 2

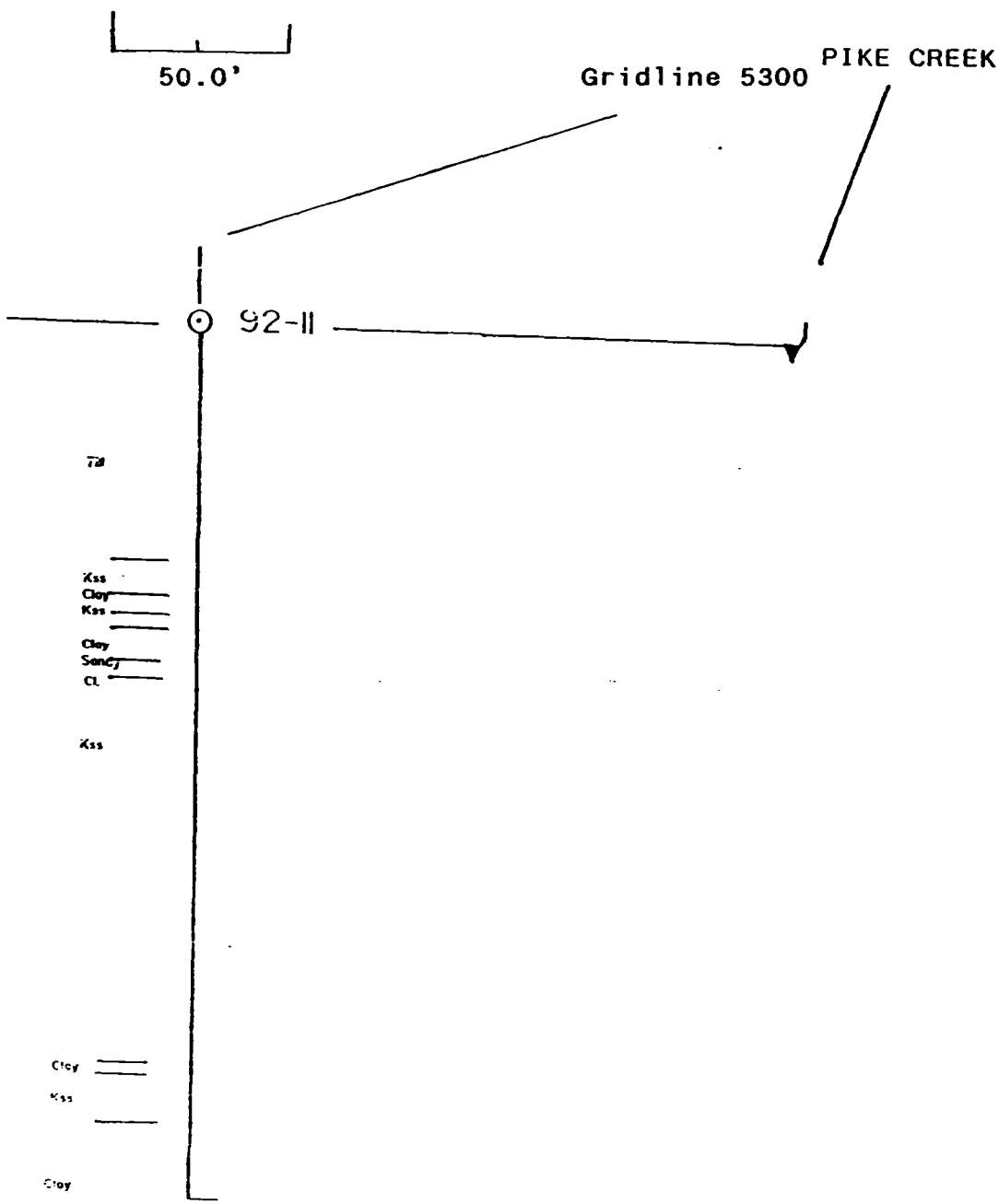
			dolostone clasts - grey exterior, lighter interior, pitted colonial coral, 11.70% kaolin.
201.0'	205.0'	16782	Kss - as above, large dolostone at 203.5', very large solitary horn coral, 10.46% kaolin.
205.0'	209.0'	16783	Kss - as above from 205.0' - 206.0', then becoming medium grain with minor illite and heavies, buff, 7.92% kaolin.
209.0'	213.0'	16784	Sandy Clay & Kss - medium grain, white kss with alternating fine grain sandy clay - pliable, dark buff, highly illitic, garnetiferous hematitic conglomerate, very large - drill cut at kss/sandy clay contact, high percentage garnet and hematite as heavies, 10.63% kaolin.
213.0'	216.0'	16785	Sandy Clay, Clay & Kss - as above, clay clots - pliable, medium brown and buff with discontinuous laminations, some carbonaceous material, sandy clay - as above - more clay-rich, 15.49% kaolin.
216.0'	219.0'	16786	Kss - chocolate brown, medium grain, minor illite and heavies, 4.66% kaolin.
219.0'	222.0'	16787	Kss - as above, last 2.0' coarse grain, beginning as coarse grain in a medium grain matrix, chocolate brown, minor illite and heavies, vari-coloured silica, 5.37% kaolin.
222.0'	225.0'	16788	Kss - coarse grain, as above, 4.0" of dark brown, illitic, pliable sandy clay at 224.0', 11.14% kaolin.
225.0'	229.25'	16789	Kss - medium grain, light brown, some yellow, external chocolate brown contamination, grading to coarse grain, vari-coloured silica, minor illite and heavies, 7.32% kaolin.
229.25'	232.0'	16790	Clay & Sandy Clay - alternating, extremely competent, chocolate brown clay, weakly fissile, carbonaceous, interbedded with buff illitic carbonaceous sandy clay, sulphureous smell, 70.25% kaolin.
232.0'	235.0'	N/S	Lignite - one solid piece - no clay.
235.0'	237.0'	16791	Clay - as above, 78.84% kaolin.

237.0'	242.0'	16792	Clay - as above, lower half lighter in colour due to areal exposure, excess core in the other box marked save, 79.59% kaolin.
242.0'	245.5'	16793	Clay - as previous, some rusty areas near first few feet as well as areas of powdery haematitic or lignitic material, some areas silty, 77.14% kaolin.
245.5'	246.0'	N/S	Lignite
246.0'	250.0'	16794	Clay - as above, upper 1.5' - highly lignitic, 71.14% kaolin.

EOH - 250.0'

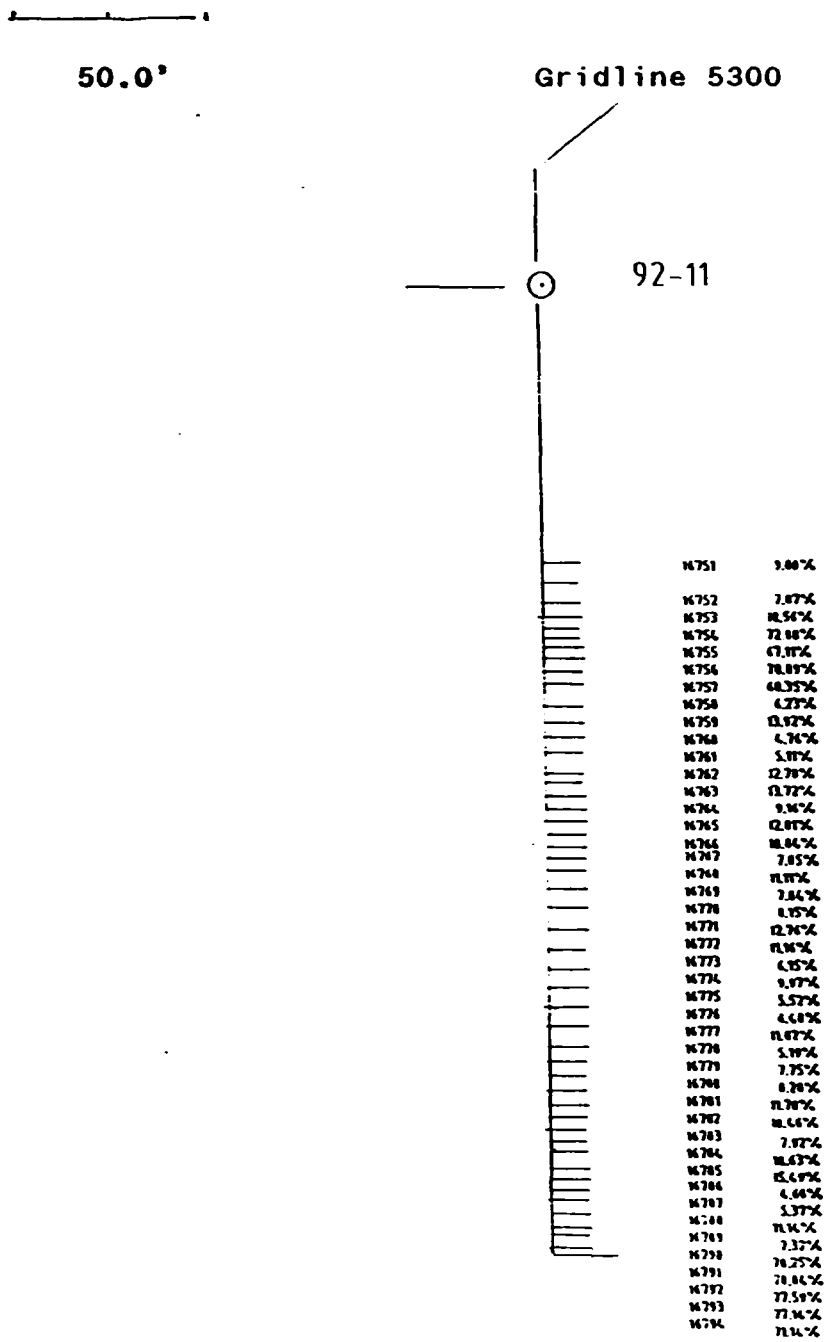
Section 92-11

Claim No.: P 835800
Hole Length: 250.0'
Overburden Depth: 68.0'
Scale: 1.0" = 50.0' or 1:600
Astronomic Azimuth: 50° 09' 08" W. 82° 08' 53" N
Location: 470.0' at 215° to claim post no. 1
Northing: 750 N
Easting: 5300 E
Dip: -90°



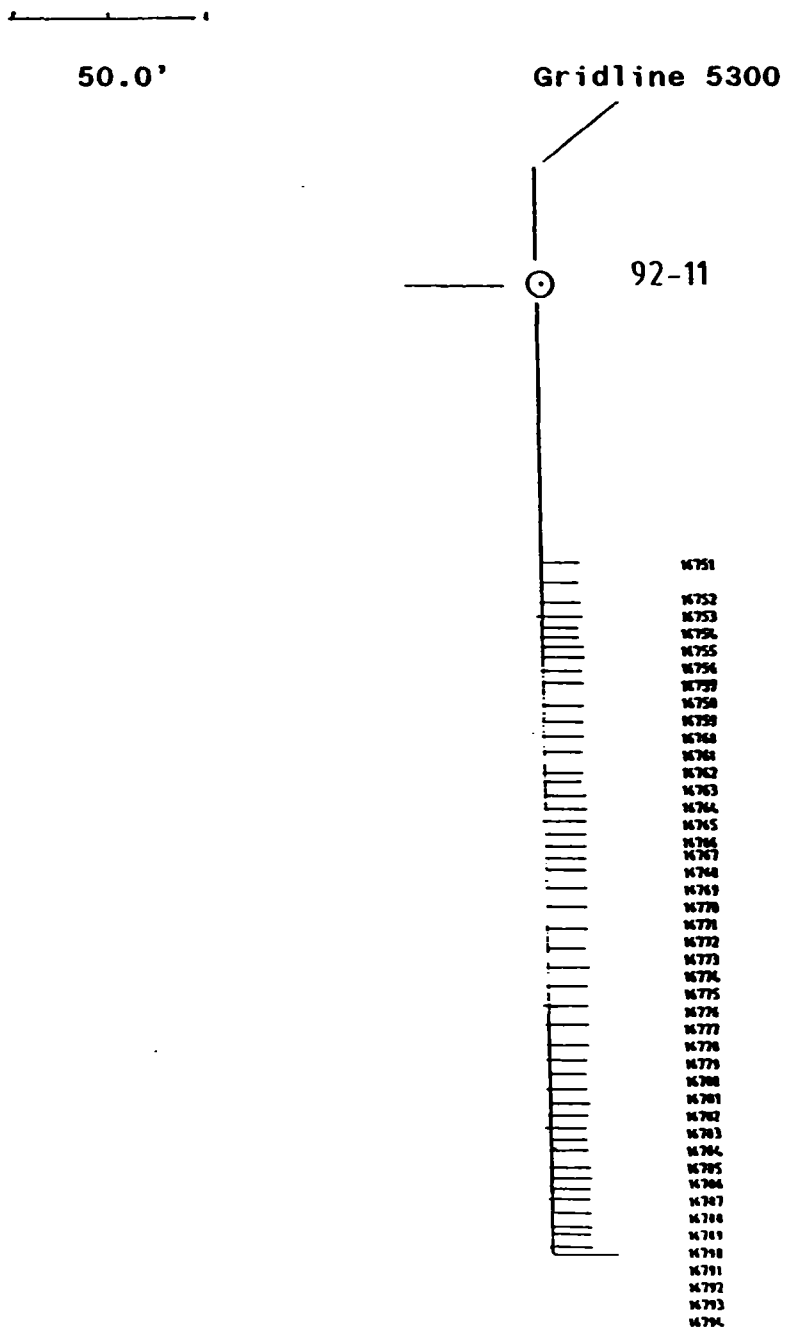
Section 92-11

Claim No.: P 835800
Hole Length: 250.0'
Overburden Depth: 68.0'
Scale: 1.0" = 50.0' or 1:600
Astronomic Azimuth: 50° 09' 08" W. 82° 08' 53" N
Location: 470.0' at 215° to claim post no. 1
Northing: 750 N
Easting: 5300 E
Dip: -90°



Section 92-11

Claim No.: P 835800
Hole Length: 250.0'
Overburden Depth: 68.0'
Scale: 1.0" = 50.0' or 1:600
Astronomic Azimuth: 50° 09' 08" W. 82° 08' 53" N
Location: 470.0' at 215° to claim post no. 1
Northing: 750 N
Easting: 5300 E
Dip: -90°



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APR 2 6 1995
MINING LANDS BRANCH

000078

ROTARY DRILL HOLE RECORD

Drilling Started: February 18, 1989
Drilling Finished: February 19, 1989
Drilling Co.: Midwest
Dip Collar: -90°
Hole Length: 176.0'
Overburden Depth: 125.0'
Claim No.: P 1089049
Northing: 1600 N
Easting: 9800 E
Azimuth: 50° 09' 23" N, 82° 04' 49" W
Location: 1130.0' at 271° to Claim Post No. 1
Property: Emerson

Logged By: A. Casselman
Logged: Sept. 18, 1989
Core Size: 3.5"
Core Storage:
Mineral Research Canada
R. R. # 2
Parry Sound ON P2A 2W8
Hole No.: 89-219

SUMMARY

From	To	Description	
0.0'	5.0'	Peat	
5.0'	26.0'	Fluvial Sediments	
26.0'	108.0'	Glacial Clay Till	
108.0'	111.0'	Sand	
111.0'	123.0'	Gravel	
123.0'	125.0'	Sand	Pleistocene - Overburden
125.0'	151.0'	Kaolin Silica Sand (Kss)	Cretaceous
151.0'	176.0'	Sandy Clay	

2.1595 6

EOH - 176.0'

MINERAL RESEARCH
CANADA
1 INDUSTRIAL RD. RR2
PARRY SOUND, ONTARIO
CANADA P2A 2W8
FAX (705) 378-5123 BUS (705) 378-2416

DATE

Detail Log 89-219

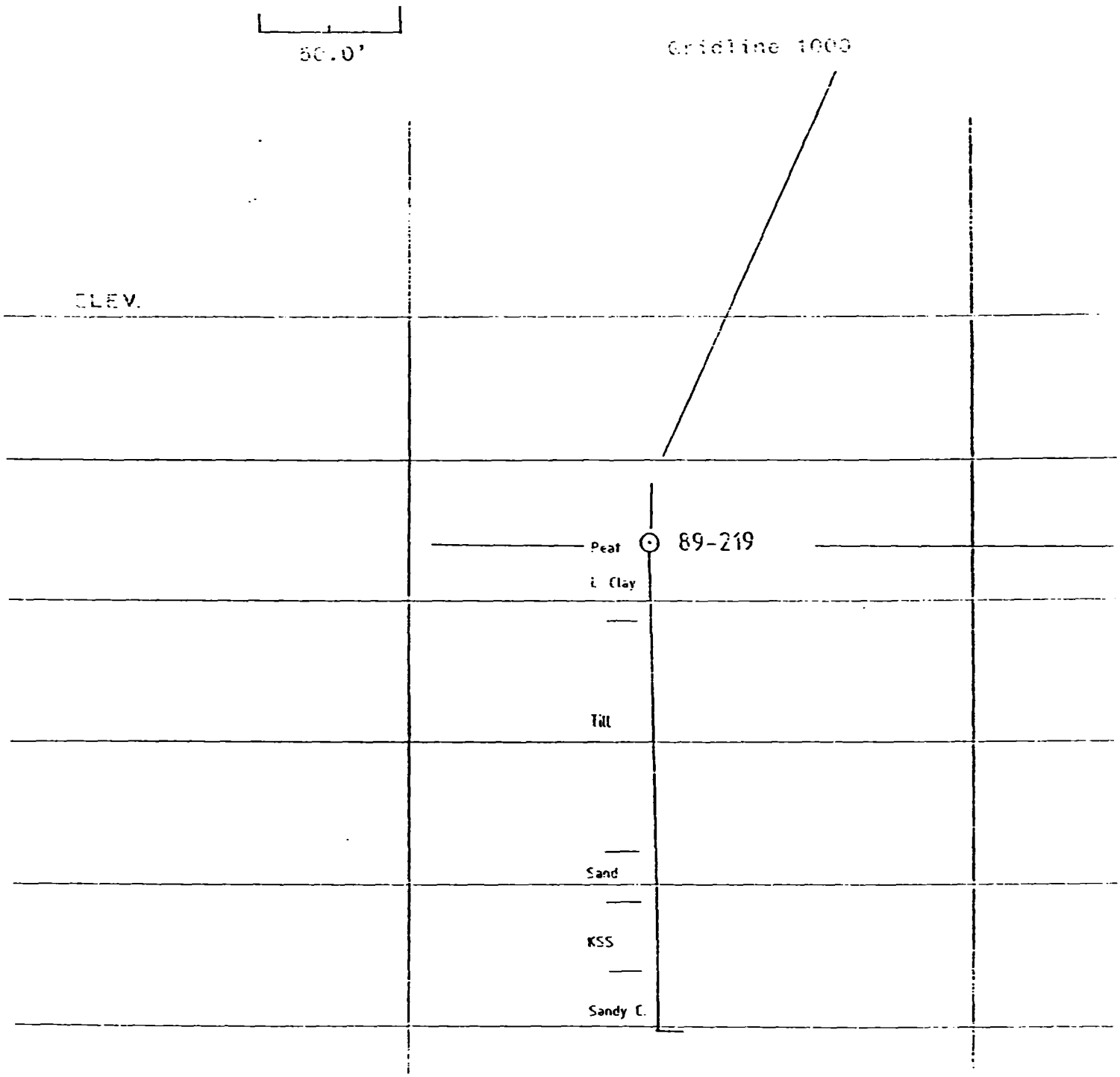
From	To	Sample No.	Description
0.0'	5.0'		Peat
5.0'	26.0'		Fluvial Sediments - brownish/grey, very fine grain, massive, clast-free.
26.0'	108.0'		Glacial Clay Till - brown/grey, competent, 3.0% carbonate clasts & 10.0% gneissic clasts up to 1.0".
108.0'	111.0'		Sand - minor green/grey clay, well sorted, fine grain, predominantly silica.
111.0'	123.0'		Gravel - coarse grain, coarsening downsection, clay-rich near basal contact.
123.0'	125.0'		Sand - as previous.
125.0'	130.0'	15001	Kss - fine grain, coarsening downsection to medium/fine, medium to dark brown, rust (haematite) staining, some lighter areas, 10.89% kaolin.
130.0'	136.0'	15002	Kss - poor quality, very low clay content, light to medium brown, some areas of haematite staining, increase in number and size of clasts downsection, well rounded quartz - smoky and milky, 8.78% kaolin.
136.0'	141.0'	15003	Kss - better quality than above, dried, light grey, high larger clast content, clasts up to 2.5" at 136.0' - 136.75', remainder medium grain, white, 6.99% kaolin.
141.0'	146.0'	15004	Kss - dark brown, low clay content, dried, medium and coarse grain alternating, well rounded clasts, light green outer contamination as crystals as well as clear acicular needles, 6.91% kaolin.
146.0'	151.0'	15005	Kss - as above, outer core surface has fewer crystals, but has a prevalent yellow stain on surface, kss is more yellow brown than above and has one area of dark grey, 8.84% kaolin.
151.0'	156.0'	15006	Sandy Clay and Clay - interbeds of chocolate brown clay, pliable, with large

			fragments of fossil wood interbedded with buff sandy clay, 62.63% kaolin.
156.0'	164.0'	15007	Sandy Clay & Clay - as above, greater percentages clay, 156.0' - 157.0' - Polydrill saturated (not sampled), 74.30% kaolin.
164.0'	176.0'	15008	Sandy Clay and Clay - as above, less sandy clay than the above footages, 62.25% kaolin.

EOH - 176.0'

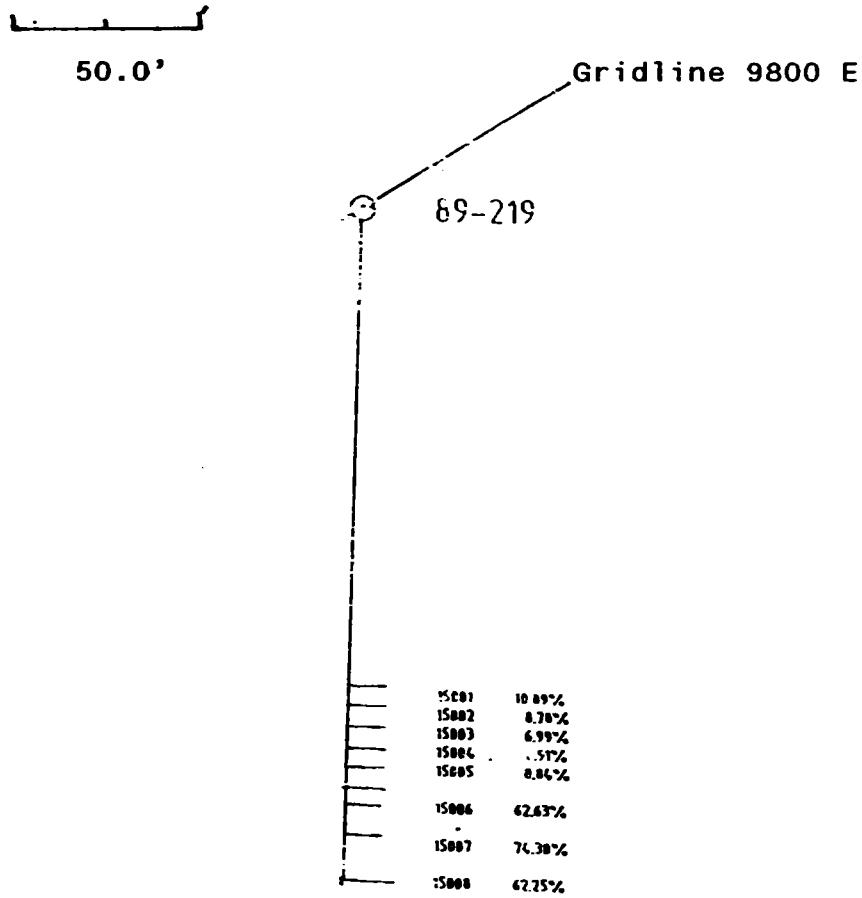
Section 89-21

Dip Collar: -90°
Length: 176.0'
Overburden Depth: 125.0'
Astronomic Azimuth: 50° 09' 23" W. 82° 04' 49" N
Location: 1130.0' at 271° to claim post no. 1
Claim No.: P 1089049
Scale: 1.0" = 50.0' or 1: 600
Northing: 1600 N
Easting: 0098 E



Section 89-219

Dip Collar: -90°
Length: 176.0'
Overburden Depth: 125.0'
Astronomic Azimuth: 50° 09' 23" N, 82° 04' 49" W
Location: 1130.0' at 271° to claim post no. 1
Claim No.: P 1089049
Scale: 1.0" = 50.0' or 1: 600
Northing: 1600 N
Easting: 9800 E



MINERAL RESEARCH CANADA INC.
1 INDUSTRIAL BLVD., R.R. 2 FOLEY
PARRY SOUND, ONTARIO P2A 2W8

ROYAL BANK OF CANADA
MAIN BRANCH
32 DUKE STREET WEST
KITCHENER, ONTARIO N2H 6L7

CHEQUE 000078
1094

PAY the sum of $2,994 and 73 cts

TO THE ORDER OF

Chemex Labs Ltd.
212 Brooksbank Avenue
North Vancouver, B.C.
V7J 2C1

DATE June 23, 1994

AMOUNT $2,994.73

MINERAL RESEARCH CANADA INC.

PER _____ AUTHORIZED SIGNATURE

⑆02482⑈003⑆ 118⑈223⑈7⑈ ⑈0000299473⑈

No $'s left

MINERAL RESEARCH CANADA INC.
1 INDUSTRIAL BLVD., R.R. 2 FOLEY
PARRY SOUND, ONTARIO P2A 2W8

ROYAL BANK OF CANADA
MAIN BRANCH
32 DUKE STREET WEST
KITCHENER, ONTARIO N2H 6L7

CHEQUE 000078
1046

PAY [illegible] 68 and 07 cts

TO THE ORDER OF

Chemex Labs Ltd.
212 Brooksbank Ave.
North Vancouver, B.C.
V7J 2C1

DATE April 11, 1994

AMOUNT $68.07

MINERAL RESEARCH CANADA INC.

PER _____ AUTHORIZED SIGNATURE

⑆02482⑈003⑆ 118⑈223⑈7⑈ ⑈0000006807⑈

No $'s left

MINERAL RESEARCH CANADA INC.
1 INDUSTRIAL BLVD., R.R. 2 FOLEY
PARRY SOUND, ONTARIO P2A 2W8

ROYAL BANK OF CANADA
MAIN BRANCH
32 DUKE STREET WEST
KITCHENER, ONTARIO N2H 6L7

000078

CHEQUE 1136

PAY TO THE ORDER OF

the sum of $3,171 and 26 cts

DATE Sept. 8, 1994

AMOUNT $3,171.26

Chemex Labs Ltd.
212 Brooksbank Avenue
North Vancouver, B.C.
V7J 2C1

MINERAL RESEARCH CANADA INC.

PER _____ AUTHORIZED SIGNATURE

⑆02482⑈003⑆ 118⑈223⑈7⑈ ⑈0000317126⑈

No $'s left

MINERAL RESEARCH CANADA INC.
1 INDUSTRIAL BLVD., R.R. 2 FOLEY
PARRY SOUND, ONTARIO P2A 2W8

ROYAL BANK OF CANADA
MAIN BRANCH
32 DUKE STREET WEST
KITCHENER, ONTARIO N2H 6L7

000078

CHEQUE 1191

PAY TO THE ORDER OF

the sum of $8,118 and 52 cts

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APR 26 1995
MINING LANDS BRANCH

DATE Nov. 17, 1994

AMOUNT $8,118.52

Chemex Labs Ltd.
212 Brooksbank Ave.
North Vancouver, B.C.
V7J 2C1

MINERAL RESEARCH CANADA INC.

PER _____ AUTHORIZED SIGNATURE

⑆02482⑈003⑆ 118⑈223⑈7⑈ ⑈0000811852⑈

$'s Left to be used later $2574.58

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

INVOICE NUMBER I9419238

BILLING INFORMATION

Date: 14-JUL-94
Project: KIPLING
P.O. No.: 0054
Account: KJE

Comments:

Billing: For analysis performed on Certificate A9419238

Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

RECEIVED
APR 26 1995
MINING LANDS BRANCH

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
51	208 - Assay ring to approx 150 mesh	2.50		
	226 - 0-5 lb crush and split	2.05		
	A-12 W.R.A ICP	21.00	25.55	1303.05

Total Cost $	1303.05
Client Discount (20%) $	-260.61
Net Cost $	1042.44
(Reg# R100938885) GST $	72.97
TOTAL PAYABLE (CDN) $	**1115.41**

Price/sample = $1,115.41/51 = $21.87

Claimed 8 samples at $21.87 = $175

2.15956

42J01NE0015 2.15956 KIPLING

050

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

Project : KIPLING
Comments: ATTN:ANNE CASSELMAN

Certificate Date: 13-JUL-94
Invoice No. : I9419238
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9419238

SAMPLE	PREP CODE		Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %
2569	208	226	13.54	0.21	0.07	1.35	0.53	0.30	0.01	0.14	0.06	76.50	0.92	6.40	100.05
2570	208	226	4.40	0.16	0.09	1.35	0.20	0.13	< 0.01	0.10	0.09	91.20	0.44	2.15	100.30
2571	208	226	4.97	0.09	0.10	0.50	0.22	0.11	< 0.01	0.09	0.06	91.90	0.39	1.85	100.30
2572	208	226	3.24	0.08	0.13	0.56	0.21	0.11	< 0.01	0.08	0.07	94.80	0.17	1.16	100.60
2573	208	226	3.37	0.09	0.03	0.30	0.22	0.10	< 0.01	0.10	0.01	93.80	0.09	1.21	99.33
2574	208	226	6.83	0.03	0.04	0.45	0.24	0.08	< 0.01	< 0.01	0.02	89.60	0.19	2.74	100.25
2575	208	226	2.68	< 0.01	< 0.01	0.29	0.15	0.05	< 0.01	< 0.01	0.01	96.70	0.13	0.95	101.00
2576	208	226	6.12	0.03	0.02	0.41	0.11	0.07	< 0.01	< 0.01	0.02	90.80	0.40	2.40	100.40
4175	208	226	6.66	0.06	< 0.01	0.78	0.16	0.09	< 0.01	< 0.01	0.01	90.00	0.65	2.33	100.75
4176	208	226	2.48	0.01	< 0.01	0.39	0.11	0.06	< 0.01	< 0.01	0.02	96.50	0.09	0.98	100.65
4177	208	226	33.27	0.16	0.04	1.91	0.42	0.17	< 0.01	< 0.01	0.07	50.10	0.96	13.66	100.80
4178	208	226	7.46	0.03	0.01	0.52	0.17	0.07	< 0.01	< 0.01	0.01	89.40	0.29	3.02	101.00
4179	208	226	4.16	0.01	0.02	0.42	0.08	0.06	< 0.01	< 0.01	0.01	93.50	0.37	1.55	100.20
4180	208	226	3.92	< 0.01	0.03	0.50	0.08	0.06	< 0.01	< 0.01	0.01	94.00	0.34	1.65	100.60
4181	208	226	3.38	< 0.01	< 0.01	0.25	0.10	0.05	< 0.01	< 0.01	0.01	95.30	0.11	1.31	100.55
4182	208	226	3.30	< 0.01	< 0.01	0.33	0.11	0.05	< 0.01	< 0.01	< 0.01	95.00	0.17	1.27	100.30
4183	208	226	2.40	0.15	0.07	0.60	0.10	0.13	< 0.01	0.15	0.06	94.90	0.16	0.91	99.64
4184	208	226	3.89	0.16	0.04	0.57	0.11	0.15	< 0.01	0.15	0.06	93.00	0.09	1.51	99.74
4185	208	226	6.38	0.15	0.04	0.66	0.14	0.15	< 0.01	0.12	0.07	89.70	0.27	2.87	100.55
4186	208	226	3.44	0.14	0.04	0.43	0.09	0.12	< 0.01	0.13	0.06	95.40	0.14	1.31	101.30
4187	208	226	2.67	0.15	0.07	0.45	0.12	0.13	< 0.01	0.15	0.07	95.00	0.06	1.02	99.90
4188	208	226	3.46	0.25	0.09	0.92	0.16	0.14	< 0.01	0.16	0.07	93.00	0.08	1.51	99.85
4189	208	226	2.85	0.14	0.06	0.46	0.14	0.12	< 0.01	0.13	0.05	95.90	0.06	1.09	101.00
4190	208	226	2.71	0.14	0.07	0.44	0.16	0.12	< 0.01	0.14	0.06	94.30	0.05	0.97	99.17
4199	208	226	25.94	0.39	0.07	1.29	0.38	0.28	< 0.01	0.19	0.14	59.80	1.11	11.47	101.05
4200	208	226	10.72	0.24	0.05	0.97	0.22	0.19	< 0.01	0.16	0.07	82.60	0.78	4.44	100.45
4274	208	226	9.90	0.27	0.08	0.98	0.19	0.20	< 0.01	0.19	0.08	82.80	0.63	4.58	99.91
4275	208	226	13.33	0.22	0.04	0.86	0.28	0.22	< 0.01	0.17	0.08	78.70	0.91	5.39	100.20
4276	208	226	4.43	0.21	0.05	0.78	0.10	0.15	< 0.01	0.18	0.09	92.00	0.24	1.86	100.10
4277	208	226	9.92	0.43	0.08	1.03	0.20	0.20	< 0.01	0.18	0.13	83.10	0.68	4.37	100.35
4278	208	226	4.64	0.20	0.10	0.61	0.09	0.16	< 0.01	0.19	0.09	91.40	0.30	1.86	99.65
4279	208	226	3.49	0.17	0.07	0.56	0.08	0.13	< 0.01	0.14	0.07	93.20	0.13	1.43	99.48
4280	208	226	3.42	0.16	0.09	0.60	0.10	0.13	< 0.01	0.13	0.07	94.00	0.11	1.46	100.30
4281	208	226	5.97	0.16	0.08	0.58	0.10	0.13	< 0.01	0.14	0.07	90.20	0.22	2.37	100.05
4282	208	226	8.46	0.09	0.02	0.45	0.11	0.10	< 0.01	0.02	0.04	87.20	0.40	3.30	100.20
4283	208	226	8.79	0.02	< 0.01	0.42	0.11	0.07	< 0.01	< 0.01	0.01	86.50	0.27	3.63	99.85
4284	208	226	4.03	< 0.01	< 0.01	0.41	0.07	0.06	< 0.01	< 0.01	0.01	93.30	0.32	1.64	99.88
4285	208	226	4.63	< 0.01	0.02	0.47	0.10	0.06	< 0.01	< 0.01	0.01	92.60	0.38	1.77	100.05
4286	208	226	3.49	< 0.01	< 0.01	0.49	0.09	0.06	< 0.01	< 0.01	< 0.01	94.10	0.23	1.48	99.99
4287	208	226	3.98	< 0.01	< 0.01	0.41	0.10	0.06	< 0.01	< 0.01	0.01	94.00	0.13	1.56	100.30

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

INVOICE NUMBER I9319986

BILLING INFORMATION

Date: 14-SEP-93
Project: KIPLING
P.O. No.: 0054
Account: KJE

Comments: 930101T

Billing: For analysis performed on Certificate A9319986

Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
45	A-12 W.R.A ICP	18.00		
	O-5 lb prep quote	3.51	21.51	967.95
			Total Cost $	967.95
	(Reg# R100938885)		GST $	67.76
			TOTAL PAYABLE (CDN) $	1035.71

RECEIVED
APR 26 1995
MINING LANDS BRANCH

2.15956

Price/sample $1035.71/45 = $23.02
Claimed 13 samples at $23.02 = $299

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 416-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

Project : KIPLING
Comments: ATTN: ANNE CASSELMAN

Certificate Date: 14-SEP-93
Invoice No. : I9319986
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9319986

SAMPLE	PREP CODE		Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %
2337	208	226	3.30	0.16	0.04	0.46	0.10	0.09	< 0.01	0.19	0.09	93.05	0.18	1.08	98.75
2338	208	226	1.47	0.16	0.04	0.36	0.05	0.07	< 0.01	0.19	0.09	96.45	0.12	0.47	99.48
2339	208	226	1.75	0.16	0.04	0.41	0.05	0.08	< 0.01	0.17	0.09	96.85	0.14	0.57	100.30
2340	208	226	2.59	0.17	0.05	0.54	0.07	0.09	< 0.01	0.18	0.09	94.25	0.16	0.90	99.10
2341	208	226	3.33	0.21	0.07	0.68	0.09	0.08	< 0.01	0.18	0.08	93.50	0.12	1.19	99.54
2342	208	226	3.77	0.18	0.04	0.46	0.09	0.08	< 0.01	0.19	0.09	92.00	0.18	1.29	98.38
2343	208	226	2.95	0.19	0.07	0.46	0.10	0.08	< 0.01	0.19	0.09	94.05	0.11	0.96	99.26
2344	208	226	3.52	0.21	0.07	0.63	0.15	0.08	< 0.01	0.19	0.08	93.30	0.07	1.20	99.51
2345	208	226	3.15	0.23	0.07	0.68	0.13	0.09	< 0.01	0.20	0.09	93.65	0.07	1.10	99.47
2346	208	226	4.15	0.24	0.08	0.79	0.21	0.10	< 0.01	0.22	0.09	92.70	0.07	1.49	100.15
2347	208	226	4.81	0.23	0.13	0.68	0.22	0.09	< 0.01	0.21	0.10	91.44	0.10	1.63	99.65
2348	208	226	3.62	0.24	0.13	0.62	0.13	0.09	< 0.01	0.22	0.09	92.15	0.13	1.30	98.73
2349	208	226	3.14	0.23	0.14	0.55	0.12	0.11	< 0.01	0.23	0.11	93.50	0.16	1.04	99.34
2820	208	226	3.53	0.22	0.13	0.65	0.26	0.10	< 0.01	0.22	0.10	93.05	0.13	1.13	99.53
2821	208	226	8.63	0.25	0.15	0.86	0.28	0.12	< 0.01	0.24	0.10	85.48	0.30	3.15	99.57
2822	208	226	21.71	0.28	0.08	1.30	0.43	0.16	< 0.01	0.16	0.05	66.40	0.89	8.79	100.25
2823	208	226	14.15	0.32	0.16	1.13	0.29	0.23	< 0.01	0.29	0.12	76.05	1.22	5.82	99.79
2824	208	226	10.84	0.26	0.13	1.07	0.29	0.21	< 0.01	0.23	0.11	81.94	0.88	4.25	100.20
2825	208	226	4.98	0.22	0.15	0.65	0.16	0.12	< 0.01	0.24	0.11	90.71	0.47	1.77	99.59
2826	208	226	3.56	0.19	0.12	0.45	0.17	0.11	< 0.01	0.23	0.10	93.40	0.10	1.20	99.64
2827	208	226	3.52	0.12	0.09	0.65	0.23	0.06	< 0.01	0.12	0.06	93.50	0.16	1.40	99.92
2828	208	226	5.86	0.16	0.10	0.53	0.27	0.06	< 0.01	0.15	0.07	91.08	0.17	2.03	100.50
2829	208	226	8.60	0.17	0.06	0.79	0.20	0.08	< 0.01	0.13	0.06	86.78	0.34	3.19	100.40
2830	208	226	4.47	0.13	0.08	0.60	0.16	0.07	< 0.01	0.13	0.07	92.83	0.20	1.53	100.30
2831	208	226	5.41	0.16	0.08	0.66	0.16	0.07	< 0.01	0.13	0.08	91.25	0.23	1.97	100.20
2832	208	226	5.83	0.16	0.11	0.80	0.11	0.07	< 0.01	0.14	0.08	89.90	0.59	2.20	100.00
2833	208	226	5.39	0.17	0.12	0.81	0.20	0.07	< 0.01	0.15	0.06	90.54	0.18	2.02	99.72
2834	208	226	6.74	0.39	0.29	1.00	0.11	0.20	< 0.01	0.47	0.25	88.65	0.19	1.67	99.97
2835	208	226	3.08	0.16	0.13	0.89	0.16	0.06	< 0.01	0.16	0.07	93.10	0.09	1.13	99.04
2836	208	226	3.70	0.15	0.09	0.62	0.15	0.07	< 0.01	0.15	0.07	94.41	0.08	1.25	100.75
2837	208	226	4.15	0.13	0.07	0.58	0.18	0.07	< 0.01	0.13	0.06	93.83	0.13	1.41	100.75
2838	208	226	3.22	0.42	0.31	1.32	0.09	0.22	< 0.01	0.52	0.27	92.60	0.12	0.77	99.87
2839	208	226	4.46	0.55	0.33	1.52	0.10	0.22	0.01	0.54	0.28	90.40	0.29	1.14	99.84
2840	208	226	2.67	0.15	0.10	0.47	0.09	0.07	< 0.01	0.18	0.08	94.00	0.13	0.83	98.78
3068	208	226	16.89	0.25	0.11	0.94	0.30	0.19	< 0.01	0.21	0.12	74.45	0.71	6.65	100.85
3069	208	226	5.98	0.18	0.11	0.83	0.11	0.11	< 0.01	0.15	0.08	89.18	0.37	2.76	99.87
3070	208	226	4.23	0.39	0.29	0.94	0.05	0.22	< 0.01	0.50	0.27	91.45	0.17	0.99	99.51
3071	208	226	3.47	0.18	0.10	0.45	0.05	0.09	< 0.01	0.17	0.08	93.40	0.15	1.20	99.35
3072	208	226	10.79	0.10	0.02	0.58	0.11	0.03	< 0.01	0.08	0.04	83.88	0.38	3.98	100.00
3073	208	226	3.73	0.08	0.03	0.46	0.05	0.04	< 0.01	0.08	0.05	93.05	0.08	1.30	98.96

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

INVOICE NUMBER I9319986

BILLING INFORMATION

Date: 14-SEP-93
Project: KIPLING
P.O. No.: 0054
Account: KJE

Comments: 930101T

Billing: For analysis performed on Certificate A9319986

Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
45	A-12 W.R.A ICP	18.00		
	O-5 lb prep quote	3.51	21.51	967.95

Total Cost $ 967.95
(Reg# R100938885) GST $ 67.76

TOTAL PAYABLE (CDN) $ 1035.71

RECEIVED
APR 26 1995
MINING LANDS BRANCH

2.1595 6

Price/sample = $1035.75/45 = $23.02

Claimed 21 samples at $23.02 = $483

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 416-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

Project : KIPLING
Comments: ATTN: ANNE CASSELMAN

Certificate Date: 14-SEP-93
Invoice No. : I9319986
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9319986

SAMPLE	PREP CODE		Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %
2337	208	226	3.30	0.16	0.04	0.46	0.10	0.09	< 0.01	0.19	0.09	93.05	0.18	1.08	98.75
2338	208	226	1.47	0.16	0.04	0.36	0.05	0.07	< 0.01	0.19	0.09	96.45	0.12	0.47	99.48
2339	208	226	1.75	0.16	0.04	0.41	0.05	0.08	< 0.01	0.17	0.09	96.85	0.14	0.57	100.30
2340	208	226	2.59	0.17	0.05	0.54	0.07	0.09	< 0.01	0.18	0.09	94.25	0.16	0.90	99.10
2341	208	226	3.33	0.21	0.07	0.68	0.09	0.08	< 0.01	0.18	0.08	93.50	0.12	1.19	99.54
2342	208	226	3.77	0.18	0.04	0.46	0.09	0.08	< 0.01	0.19	0.09	92.00	0.18	1.29	98.38
2343	208	226	2.95	0.19	0.07	0.46	0.10	0.08	< 0.01	0.19	0.09	94.05	0.11	0.96	99.26
2344	208	226	3.52	0.21	0.07	0.63	0.15	0.08	< 0.01	0.19	0.08	93.30	0.07	1.20	99.51
2345	208	226	3.15	0.23	0.07	0.68	0.13	0.09	< 0.01	0.20	0.09	93.65	0.07	1.10	99.47
2346	208	226	4.15	0.24	0.08	0.79	0.21	0.10	< 0.01	0.22	0.09	92.70	0.07	1.49	100.15
2347	208	226	4.81	0.23	0.13	0.68	0.22	0.09	< 0.01	0.21	0.10	91.44	0.10	1.63	99.65
2348	208	226	3.62	0.24	0.13	0.62	0.13	0.09	< 0.01	0.22	0.09	92.15	0.13	1.30	98.73
2349	208	226	3.14	0.23	0.14	0.55	0.12	0.11	< 0.01	0.23	0.11	93.50	0.16	1.04	99.34
2820	208	226	3.53	0.22	0.13	0.65	0.26	0.10	< 0.01	0.22	0.10	93.05	0.13	1.13	99.53
2821	208	226	8.63	0.25	0.15	0.86	0.28	0.12	< 0.01	0.24	0.10	85.48	0.30	3.15	99.57
2822	208	226	21.71	0.28	0.08	1.30	0.43	0.16	< 0.01	0.16	0.05	66.40	0.89	8.79	100.25
2823	208	226	14.15	0.32	0.16	1.13	0.29	0.23	< 0.01	0.29	0.12	76.05	1.22	5.82	99.79
2824	208	226	10.84	0.26	0.13	1.07	0.29	0.21	< 0.01	0.23	0.11	81.94	0.88	4.25	100.20
2825	208	226	4.98	0.22	0.15	0.65	0.16	0.12	< 0.01	0.24	0.11	90.71	0.47	1.77	99.59
2826	208	226	3.56	0.19	0.12	0.45	0.17	0.11	< 0.01	0.23	0.10	93.40	0.10	1.20	99.64
2827	208	226	3.52	0.12	0.09	0.65	0.23	0.06	< 0.01	0.12	0.06	93.50	0.16	1.40	99.92
2828	208	226	5.86	0.16	0.10	0.53	0.27	0.06	< 0.01	0.15	0.07	91.08	0.17	2.03	100.50
2829	208	226	8.60	0.17	0.06	0.79	0.20	0.08	< 0.01	0.13	0.06	86.78	0.34	3.19	100.40
2830	208	226	4.47	0.13	0.08	0.60	0.16	0.07	< 0.01	0.13	0.07	92.83	0.20	1.53	100.30
2831	208	226	5.41	0.16	0.08	0.66	0.16	0.07	< 0.01	0.13	0.08	91.25	0.23	1.97	100.20
2832	208	226	5.83	0.16	0.11	0.80	0.11	0.07	< 0.01	0.14	0.08	89.90	0.59	2.20	100.00
2833	208	226	5.39	0.17	0.12	0.81	0.20	0.07	< 0.01	0.15	0.06	90.54	0.18	2.02	99.72
2834	208	226	6.74	0.39	0.29	1.00	0.11	0.20	< 0.01	0.47	0.25	88.65	0.19	1.67	99.97
2835	208	226	3.08	0.16	0.13	0.89	0.16	0.06	< 0.01	0.16	0.07	93.10	0.09	1.13	99.04
2836	208	226	3.70	0.15	0.09	0.62	0.15	0.07	< 0.01	0.15	0.07	94.41	0.08	1.25	100.75
2837	208	226	4.15	0.13	0.07	0.58	0.18	0.07	< 0.01	0.13	0.06	93.83	0.13	1.41	100.75
2838	208	226	3.22	0.42	0.31	1.32	0.09	0.22	< 0.01	0.52	0.27	92.60	0.12	0.77	99.87
2839	208	226	4.46	0.55	0.33	1.52	0.10	0.22	0.01	0.54	0.28	90.40	0.29	1.14	99.84
2840	208	226	2.67	0.15	0.10	0.47	0.09	0.07	< 0.01	0.18	0.08	94.00	0.13	0.83	98.78
3068	208	226	16.89	0.25	0.11	0.94	0.30	0.19	< 0.01	0.21	0.12	74.45	0.71	6.65	100.85
3069	208	226	5.98	0.18	0.11	0.83	0.11	0.11	< 0.01	0.15	0.08	89.18	0.37	2.76	99.87
3070	208	226	4.23	0.39	0.29	0.94	0.05	0.22	< 0.01	0.50	0.27	91.45	0.17	0.99	99.51
3071	208	226	3.47	0.18	0.10	0.45	0.05	0.09	< 0.01	0.17	0.08	93.40	0.15	1.20	99.35
3072	208	226	10.79	0.10	0.02	0.58	0.11	0.03	< 0.01	0.08	0.04	83.88	0.38	3.98	100.00
3073	208	226	3.73	0.08	0.03	0.46	0.05	0.04	< 0.01	0.08	0.05	93.05	0.08	1.30	98.96

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

INVOICE NUMBER: A9429034

BILLING INFORMATION

Date: 26-OCT-94
Project: KIPLING
P.O. No.: 0054
Account: KJE

Comments:

Billing: For analysis performed on Certificate A9429034

Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
120	205 - Geochem ring to approx 150 mesh	2.50		
	226 - 0-5 lb crush and split	2.05		
	ICP-24	9.95	14.50	1740.00

Total Cost $	1740.00
Client Discount (20%) $	-348.00
Net Cost $	1392.00
(Reg# R100938885) GST $	97.44
TOTAL PAYABLE (CDN) $	1489.44

RECEIVED
APR 26 1995
MINING LANDS BRANCH

2.1595 6

Price/sample = $1489.44/120 = $12.41

Claimed 31 samples at $12.41 = $385

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

Project : KIPLING
Comments: ATTN: A. CASSELMAN

Certificate Date: 26-OCT-94
Invoice No. : I9429034
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9429034

SAMPLE	PREP CODE		Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)
3571	205	226	< 0.2	4.22	80	0.5	< 2	0.06	< 0.5	5	139	7	0.64	0.19	0.03	70
3572	205	226	< 0.2	2.07	60	< 0.5	< 2	0.03	< 0.5	5	206	6	0.38	0.16	0.01	35
3573	205	226	< 0.2	1.65	40	< 0.5	< 2	0.02	< 0.5	3	201	4	0.33	0.12	0.01	30
3574	205	226	< 0.2	1.87	40	< 0.5	< 2	0.02	< 0.5	1	245	4	0.28	0.15	< 0.01	20
3575	205	226	< 0.2	2.18	50	< 0.5	< 2	0.02	< 0.5	2	258	3	0.29	0.20	< 0.01	20
15451	205	226	< 0.2	11.15	130	1.0	< 2	0.16	< 0.5	13	220	35	2.65	0.29	0.09	95
15452	205	226	< 0.2	13.20	170	1.5	< 2	0.18	< 0.5	15	237	55	5.98	0.45	0.12	185
15453	205	226	< 0.2	12.15	160	1.5	< 2	0.16	< 0.5	18	215	79	3.60	0.44	0.11	115
15454	205	226	< 0.2	5.85	90	0.5	< 2	0.06	< 0.5	7	190	26	0.69	0.24	0.04	35
15455	205	226	< 0.2	1.30	40	< 0.5	< 2	0.06	< 0.5	2	276	10	0.65	0.18	0.01	50
15456	205	226	< 0.2	1.99	50	< 0.5	2	0.03	< 0.5	3	188	7	0.40	0.32	0.01	35
15457	205	226	< 0.2	1.61	30	< 0.5	< 2	0.05	< 0.5	2	336	10	0.41	0.16	0.01	30
15458	205	226	< 0.2	1.83	30	< 0.5	< 2	0.02	< 0.5	2	253	8	0.32	0.56	0.01	25
15751	205	226	< 0.2	14.30	150	1.5	< 2	0.28	< 0.5	13	234	37	1.13	0.34	0.13	50
15752	205	226	< 0.2	3.15	50	< 0.5	< 2	0.12	< 0.5	3	264	12	0.51	0.11	0.03	30
15753	205	226	< 0.2	2.02	40	< 0.5	< 2	0.20	< 0.5	4	288	8	0.41	0.11	0.04	35
15754	205	226	< 0.2	1.62	30	< 0.5	< 2	0.02	< 0.5	1	212	4	0.25	0.07	< 0.01	15
15755	205	226	< 0.2	1.22	20	< 0.5	< 2	0.02	< 0.5	2	332	6	0.31	0.03	< 0.01	15
15756	205	226	< 0.2	1.02	20	< 0.5	< 2	0.01	< 0.5	5	271	8	0.31	0.03	< 0.01	20
15757	205	226	< 0.2	1.82	20	< 0.5	< 2	0.02	< 0.5	1	349	13	0.30	0.04	< 0.01	15
15758	205	226	< 0.2	0.98	20	< 0.5	< 2	0.02	< 0.5	1	262	11	0.27	0.02	< 0.01	15
15759	205	226	< 0.2	1.52	20	< 0.5	< 2	0.02	< 0.5	1	358	9	0.37	0.02	< 0.01	25
15760	205	226	< 0.2	1.18	20	< 0.5	< 2	0.01	< 0.5	3	335	7	0.38	0.03	< 0.01	30
15761	205	226	< 0.2	2.16	40	< 0.5	2	0.02	< 0.5	3	367	9	0.40	0.10	0.01	35
15762	205	226	< 0.2	1.16	60	< 0.5	< 2	0.01	< 0.5	1	305	6	0.27	0.23	< 0.01	15
15763	205	226	< 0.2	0.57	40	< 0.5	< 2	0.21	< 0.5	6	368	9	2.48	0.16	< 0.01	150
15764	205	226	< 0.2	13.55	160	1.0	< 2	0.13	< 0.5	33	282	49	2.72	0.39	0.11	50
15765	205	226	< 0.2	12.15	160	1.0	< 2	0.11	< 0.5	11	195	52	4.90	0.42	0.12	110
15766	205	226	< 0.2	9.99	120	0.5	< 2	0.09	< 0.5	22	153	48	1.49	0.32	0.08	100
15767	205	226	< 0.2	10.70	140	1.0	< 2	0.10	1.0	11	158	68	9.72	0.38	0.10	140
15768	205	226	< 0.2	13.05	170	1.5	< 2	0.13	< 0.5	54	202	75	1.72	0.46	0.11	65
15769	205	226	< 0.2	15.55	200	2.0	< 2	0.16	< 0.5	31	205	81	2.06	0.54	0.15	60
15770	205	226	< 0.2	15.30	170	1.5	< 2	0.10	< 0.5	13	165	71	3.38	0.50	0.14	70
15771	205	226	< 0.2	15.30	160	3.0	< 2	0.12	< 0.5	16	227	55	6.51	0.49	0.15	95
15772	205	226	< 0.2	13.60	170	3.5	< 2	0.14	< 0.5	15	202	38	7.03	0.39	0.15	175
15773	205	226	< 0.2	4.73	80	0.5	< 2	0.04	< 0.5	28	220	20	2.23	0.28	0.04	200
15774	205	226	< 0.2	8.05	120	1.0	< 2	0.09	< 0.5	24	183	31	2.22	0.31	0.09	290
15775	205	226	< 0.2	14.05	170	2.0	< 2	0.16	< 0.5	39	242	69	1.54	0.46	0.17	70
15776	205	226	< 0.2	16.70	130	3.5	< 2	0.27	< 0.5	32	239	85	1.44	0.19	0.12	165
15777	205	226	< 0.2	5.91	230	0.5	< 2	0.07	< 0.5	21	229	21	1.04	0.14	0.04	115

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

Project : KIPLING
Comments: ATTN: A. CASSELMAN

Certificate Date: 26-OCT-94
Invoice No. : I9429034
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9429034

SAMPLE	PREP CODE		Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)
[redacted]	205	226	< 0.2	17.80	130	2.5	< 2	0.16	< 0.5	26	248	34	1.54	0.22	0.11	65
[redacted]	205	226	< 0.2	6.22	80	1.0	< 2	0.07	< 0.5	17	223	32	1.50	0.22	0.06	160
[redacted]	205	226	< 0.2	14.65	170	5.5	< 2	0.24	< 0.5	56	231	72	1.24	0.32	0.15	95
[redacted]	205	226	< 0.2	12.55	150	7.5	< 2	0.32	< 0.5	42	239	65	0.94	0.22	0.15	65
16001	205	226	< 0.2	3.07	130	< 0.5	< 2	0.26	< 0.5	7	194	9	0.80	0.34	0.14	165
16002	205	226	< 0.2	4.90	70	0.5	< 2	0.06	< 0.5	6	335	12	0.56	0.19	0.03	50
16003	205	226	< 0.2	2.49	40	< 0.5	< 2	0.04	< 0.5	3	260	5	0.34	0.08	0.02	50
16004	205	226	< 0.2	3.64	50	< 0.5	< 2	0.02	< 0.5	3	236	7	0.33	0.12	0.01	30
16005	205	226	< 0.2	2.61	40	< 0.5	< 2	0.02	< 0.5	2	171	5	0.25	0.08	0.01	30
16006	205	226	< 0.2	2.89	50	< 0.5	< 2	0.04	< 0.5	1	209	6	0.30	0.09	0.02	20
16007	205	226	< 0.2	1.54	30	< 0.5	< 2	0.02	< 0.5	1	131	4	0.22	0.03	< 0.01	25
16008	205	226	< 0.2	2.36	30	< 0.5	< 2	0.03	< 0.5	2	230	7	0.30	0.07	0.01	25
16009	205	226	< 0.2	1.22	20	< 0.5	< 2	0.01	< 0.5	2	174	3	0.22	0.03	< 0.01	20
16010	205	226	< 0.2	1.64	70	< 0.5	< 2	0.02	< 0.5	2	228	7	0.38	0.06	0.01	65
16011	205	226	< 0.2	1.10	30	< 0.5	< 2	0.01	< 0.5	2	146	2	0.21	0.02	< 0.01	15
16012	205	226	< 0.2	1.29	20	< 0.5	< 2	0.01	< 0.5	1	232	4	0.24	0.02	< 0.01	10
16013	205	226	< 0.2	1.12	20	< 0.5	< 2	0.01	< 0.5	1	233	3	0.26	0.02	< 0.01	20
16014	205	226	< 0.2	1.06	70	< 0.5	< 2	0.03	< 0.5	2	295	8	0.32	0.04	0.01	30
16015	205	226	< 0.2	1.43	40	< 0.5	< 2	0.02	< 0.5	4	219	9	0.54	0.12	< 0.01	45
16016	205	226	< 0.2	1.51	50	< 0.5	< 2	0.01	< 0.5	2	238	6	0.27	0.13	< 0.01	15
16017	205	226	< 0.2	9.30	160	1.0	< 2	0.09	< 0.5	10	421	21	1.14	0.37	0.07	85
16018	205	226	< 0.2	2.79	90	< 0.5	< 2	0.04	< 0.5	3	279	7	0.42	0.19	0.03	30
16019	205	226	< 0.2	5.10	100	0.5	< 2	0.04	< 0.5	2	132	7	0.36	0.23	0.02	35
16020	205	226	< 0.2	2.25	70	< 0.5	< 2	0.02	< 0.5	< 1	172	4	0.22	0.18	0.01	15
16021	205	226	< 0.2	1.47	50	< 0.5	< 2	0.03	< 0.5	1	114	6	0.32	0.10	0.01	30
16022	205	226	< 0.2	1.94	40	< 0.5	< 2	0.02	< 0.5	< 1	175	4	0.30	0.10	0.01	20
16023	205	226	< 0.2	0.86	30	< 0.5	< 2	0.03	< 0.5	< 1	248	6	0.49	0.07	< 0.01	40
16024	205	226	< 0.2	1.12	30	< 0.5	< 2	0.02	< 0.5	2	161	6	0.39	0.06	< 0.01	30
16025	205	226	< 0.2	1.82	30	< 0.5	< 2	0.03	< 0.5	5	189	9	0.62	0.08	< 0.01	40
16026	205	226	< 0.2	1.46	30	< 0.5	< 2	0.07	< 0.5	13	227	10	0.99	0.04	0.01	85
16027	205	226	< 0.2	3.73	70	< 0.5	< 2	0.08	< 0.5	5	194	7	1.19	0.15	0.02	105
16028	205	226	< 0.2	9.98	150	1.0	< 2	0.34	1.0	55	274	82	6.91	0.37	0.09	620
16029	205	226	< 0.2	1.28	100	< 0.5	< 2	0.04	< 0.5	2	204	6	0.72	0.13	0.02	60
16030	205	226	< 0.2	15.45	140	2.0	< 2	0.20	< 0.5	126	237	56	2.21	0.25	0.09	105
16031	205	226	< 0.2	18.05	160	1.5	< 2	0.12	< 0.5	214	228	62	1.16	0.51	0.10	30
17104	205	226	< 0.2	11.90	160	2.5	< 2	0.16	< 0.5	26	219	60	0.77	0.40	0.10	45
17105	205	226	< 0.2	7.48	130	1.0	< 2	0.08	< 0.5	13	184	12	0.53	0.32	0.06	30
17106	205	226	< 0.2	1.11	50	< 0.5	< 2	0.02	< 0.5	3	238	7	0.38	0.07	0.01	45
17107	205	226	< 0.2	3.98	100	0.5	< 2	0.04	< 0.5	4	134	9	0.37	0.25	0.03	40
17108	205	226	< 0.2	1.08	30	< 0.5	< 2	0.01	< 0.5	3	270	8	0.46	0.06	< 0.01	45

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

INVOICE NUMBER I9427481

BILLING INFORMATION

Date: 13-OCT-94
Project: KIPLING
P.O. No.: 0054
Account: KJE

Comments:

Billing: For analysis performed on Certificate A9427481

Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
115	208 - Assay ring to approx 150 mesh	2.50		
	226 - 0-5 lb crush and split	2.05		
	A-12 W.R.A ICP	21.00	25.55	2938.25

Total Cost $	2938.25
Client Discount (20%) $	-587.65
Net Cost $	2350.60
(Reg# R100938885) GST $	164.54
TOTAL PAYABLE (CDN) $	2515.14

RECEIVED
APR 26 1995
MINING LANDS BRANCH

2.1595 6

Price/sample = $2515.14/115 = $21.87

Claimed 3 samples at $21.87 = $65

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

Project : KIPLING
Comments: ATTN: M. MARTIN & A. CASSELMAN

Certificate Date: 13-OCT-94
Invoice No. : I9427481
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9427481

SAMPLE	PREP CODE		Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %
15066	208	226	9.60	0.27	0.25	0.83	0.49	0.21	< 0.01	0.43	0.12	83.30	0.37	3.32	99.19
15067	208	226	3.92	0.27	0.30	0.59	0.29	0.21	< 0.01	0.47	0.14	92.00	0.14	1.27	99.60
15068	208	226	12.89	0.08	< 0.01	0.74	0.43	0.18	< 0.01	0.07	0.02	80.20	0.63	5.23	100.45
15069	208	226	15.73	0.23	< 0.01	0.68	0.49	0.24	< 0.01	0.10	0.05	69.80	0.83	11.61	99.76
15070	208	226	5.54	0.03	< 0.01	0.62	0.58	0.11	< 0.01	0.12	0.04	90.60	0.26	1.96	99.86
15071	208	226	3.88	0.10	< 0.01	1.76	0.53	0.09	0.01	0.13	0.07	90.60	0.11	2.00	99.28
15072	208	226	25.09	0.60	0.08	2.15	0.48	0.44	0.01	0.49	0.24	54.50	1.07	14.76	99.91
15073	208	226	27.10	0.63	0.03	1.89	0.48	0.55	0.01	0.40	0.24	51.50	1.13	15.72	99.68
15074	208	226	29.59	0.72	0.05	2.14	0.47	0.64	0.01	0.45	0.26	47.30	1.13	17.14	99.90
15101	208	226	8.03	0.13	0.16	0.62	0.28	0.17	< 0.01	0.26	0.11	86.70	0.51	3.11	100.10
15102	208	226	9.42	0.13	0.12	0.99	0.31	0.17	< 0.01	0.22	0.07	84.40	0.63	3.70	100.15
15103	208	226	5.57	0.77	0.25	0.80	0.34	0.32	< 0.01	0.43	0.09	88.00	0.31	2.47	99.35
15104	208	226	3.13	< 0.01	< 0.01	0.22	0.32	0.06	< 0.01	< 0.01	< 0.01	95.00	0.13	1.01	99.87
15105	208	226	2.90	< 0.01	< 0.01	0.15	0.38	0.07	< 0.01	0.02	0.01	95.10	0.11	0.91	99.65
15106	208	226	3.05	0.03	0.13	0.33	0.29	0.10	< 0.01	0.14	0.03	94.10	0.08	0.96	99.24
15107	208	226	3.46	0.03	0.07	0.26	0.45	0.10	< 0.01	0.16	0.04	94.00	0.07	1.01	99.65
15108	208	226	3.73	0.01	< 0.01	0.31	0.32	0.09	< 0.01	0.09	0.03	93.10	0.08	1.15	98.91
15109	208	226	4.58	0.02	< 0.01	0.34	0.29	0.10	< 0.01	0.09	0.02	91.90	0.22	1.56	99.12
15110	208	226	4.36	0.08	0.27	0.50	0.37	0.13	< 0.01	0.22	0.05	91.90	0.12	1.35	99.35
15111	208	226	4.51	0.14	0.46	0.70	0.54	0.16	< 0.01	0.29	0.09	90.00	0.22	1.57	98.68
15112	208	226	3.70	0.33	0.31	1.00	0.54	0.23	< 0.01	0.52	0.15	90.40	0.23	1.08	98.49
15113	208	226	4.55	0.31	0.27	0.99	0.78	0.22	< 0.01	0.45	0.14	90.10	0.17	1.40	99.38
15114	208	226	14.18	0.37	0.26	1.72	0.56	0.27	0.01	0.45	0.14	73.80	0.93	7.04	99.73
15115	208	226	24.10	0.64	0.07	1.75	0.51	0.51	0.01	0.47	0.25	56.10	1.09	14.81	100.30
15116	208	226	22.56	0.61	0.03	6.68	0.49	0.59	0.05	0.38	0.22	53.00	1.06	13.89	99.56
15117	208	226	25.16	0.50	< 0.01	2.08	0.47	0.52	0.01	0.17	0.16	54.00	1.17	15.77	100.00
15118	208	226	10.08	0.18	< 0.01	1.11	0.62	0.27	0.01	0.11	0.12	82.00	0.64	4.30	99.44
15119	208	226	10.72	0.09	< 0.01	1.00	0.68	0.25	0.01	< 0.01	0.07	81.30	0.86	4.43	99.41
15120	208	226	12.60	0.14	< 0.01	1.06	0.65	0.26	0.01	0.07	0.12	78.20	0.79	5.30	99.20
15121	208	226	9.72	0.15	< 0.01	0.87	0.58	0.19	0.01	0.11	0.10	82.90	0.79	4.13	99.55
15122	208	226	4.34	0.03	0.24	0.83	0.43	0.11	0.01	< 0.01	0.07	89.10	0.59	3.44	99.19
15123	208	226	3.52	< 0.01	< 0.01	0.90	0.96	0.02	< 0.01	< 0.01	< 0.01	90.90	0.10	3.01	99.41
17101	208	226	9.14	1.16	< 0.01	3.00	1.86	1.04	0.04	1.89	0.08	80.00	0.36	1.11	99.68
17102	208	226	24.13	0.10	< 0.01	3.68	0.34	0.20	0.01	< 0.01	0.11	60.90	1.12	9.67	100.25
17103	208	226	10.60	< 0.01	0.01	0.47	0.40	0.11	< 0.01	< 0.01	0.06	84.40	0.51	3.86	100.40

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

00070

INVOICE NUMBER I9429034

BILLING INFORMATION

Date: 26-OCT-94
Project: KIPLING
P.O. No.: 0054
Account: KJE

Comments:

Billing: For analysis performed on Certificate A9429034

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
120	205 - Geochem ring to approx 150 mesh	2.50		
	226 - 0-5 lb crush and split	2.05		
	ICP-24	9.95	14.50	1740.00

Total Cost $	1740.00
Client Discount (20%) $	-348.00
Net Cost $	1392.00
(Reg# R100938885) GST $	97.44
TOTAL PAYABLE (CDN) $	**1489.44**

RECEIVED
APR 26 1995
MINING LANDS BRANCH

2.15

Price/sample = $1489.44/120 = $12.41

Claimed 5 samples at $12.41 = $62.00

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

Project : KIPLING
Comments: ATTN: A. CASSELMAN

Certificate Date: 26-OCT-94
Invoice No. : I9429034
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9429034

SAMPLE	PREP CODE		Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
15778	205	226	< 1	0.31	99	100	14	31	0.67	177	< 10	38
15779	205	226	2	0.14	94	90	10	16	0.26	69	< 10	44
15780	205	226	< 1	0.28	150	200	20	40	0.61	161	< 10	108
15781	205	226	3	0.23	131	120	24	31	0.72	185	< 10	90
16001	205	226	1	0.26	14	60	6	44	0.20	38	< 10	16
16002	205	226	2	0.13	19	20	10	14	0.18	46	< 10	12
16003	205	226	< 1	0.08	10	< 10	4	8	0.08	28	< 10	4
16004	205	226	< 1	0.09	10	20	6	7	0.25	39	< 10	8
16005	205	226	< 1	0.05	6	20	8	6	0.24	32	< 10	8
16006	205	226	< 1	0.04	8	70	6	10	0.13	27	< 10	6
16007	205	226	1	0.01	4	10	4	11	0.14	17	< 10	4
16008	205	226	1	0.04	9	10	4	7	0.14	23	< 10	4
16009	205	226	< 1	0.03	6	10	4	7	0.09	12	< 10	4
16010	205	226	< 1	0.04	5	30	10	60	0.33	23	< 10	6
16011	205	226	< 1	0.01	4	10	4	15	0.04	8	< 10	2
16012	205	226	< 1	0.02	4	< 10	6	3	0.04	10	< 10	4
16013	205	226	< 1	0.02	4	10	8	4	0.08	11	< 10	2
16014	205	226	< 1	0.03	6	60	10	30	0.12	16	< 10	4
16015	205	226	5	0.03	11	20	10	7	0.07	16	< 10	4
16016	205	226	2	0.02	5	10	8	7	0.03	21	< 10	4
16017	205	226	1	0.19	33	60	24	19	0.48	82	< 10	74
16018	205	226	1	0.08	11	30	12	15	0.13	31	< 10	6
16019	205	226	< 1	0.09	12	40	14	19	0.35	54	< 10	12
16020	205	226	< 1	0.06	4	20	8	18	0.11	21	< 10	4
16021	205	226	3	0.02	6	20	6	7	0.12	17	< 10	6
16022	205	226	< 1	0.04	7	10	6	6	0.12	26	< 10	4
16023	205	226	1	0.01	6	20	4	5	0.07	13	< 10	4
16024	205	226	1	0.01	9	20	4	4	0.09	15	< 10	6
16025	205	226	1	0.04	17	20	4	5	0.08	23	< 10	6
16026	205	226	< 1	0.03	33	20	4	4	0.07	20	< 10	12
16027	205	226	< 1	0.07	14	20	8	10	0.19	51	< 10	8
16028	205	226	< 1	0.22	89	110	20	22	0.47	172	< 10	66
16029	205	226	< 1	0.03	6	30	6	6	0.06	17	< 10	4
16030	205	226	1	0.31	411	100	16	32	0.60	179	< 10	100
16031	205	226	< 1	0.34	718	50	24	31	0.61	131	< 10	30
17104	205	226	< 1	0.25	76	100	20	26	0.60	129	< 10	50
17105	205	226	< 1	0.15	54	60	16	18	0.57	107	< 10	26
17106	205	226	< 1	0.02	14	30	12	6	0.31	29	< 10	8
17107	205	226	< 1	0.09	16	70	16	13	0.45	60	< 10	14
17108	205	226	3	0.02	8	20	8	5	0.16	18	< 10	4

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

INVOICE NUMBER I9429035

BILLING INFORMATION

Date: 26-OCT-94
Project: KIPLING
P.O. No.: 0054
Account: KJE

RECEIVED
APR 26 1995
MINING LANDS BRANCH

Comments:

Billing: For analysis performed on Certificate A9429035

Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
120	205 - Geochem ring to approx 150 mesh	2.50		
	226 - 0-5 lb crush and split	2.05		
	ICP-24	9.95	14.50	1740.00

Total Cost $	1740.00
Client Discount (20%) $	-348.00
Net Cost $	1392.00
(Reg# R100938885) GST $	97.44
TOTAL PAYABLE (CDN) $	1489.44

Price/sample = $1489.44/120 = $12.41

Claimed 20 samples at $12.41 = $248

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

Project : KIPLING
Comments: ATTN: A. CASSELMAN

Certificate Date: 26-OCT-94
Invoice No. : I9429035
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9429035

SAMPLE	PREP CODE		Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
17109	205	226	1	0.03	8	10	6	5	0.07	10	< 10	4
17110	205	226	< 1	0.04	6	20	4	8	0.08	16	< 10	4
17111	205	226	< 1	0.03	11	10	6	6	0.10	27	< 10	4
17112	205	226	< 1	0.03	7	10	6	6	0.08	21	< 10	4
17113	205	226	1	0.01	8	< 10	4	6	0.04	14	< 10	2
17114	205	226	< 1	0.02	9	20	4	13	0.06	25	< 10	2
17115	205	226	1	0.26	84	190	14	31	0.66	201	< 10	28
17116	205	226	1	0.06	16	140	16	51	0.11	41	< 10	4
17117	205	226	< 1	0.20	78	290	22	32	0.66	134	< 10	28
17118	205	226	< 1	0.02	7	60	6	19	0.07	25	< 10	8
17119	205	226	< 1	0.19	56	250	72	29	0.58	185	< 10	28
17120	205	226	1	0.18	53	280	22	27	0.55	195	< 10	28
17121	205	226	1	0.04	17	50	6	10	0.14	35	< 10	6
17122	205	226	< 1	0.02	12	30	8	8	0.09	23	< 10	6
17123	205	226	2	0.18	47	110	18	26	0.56	78	< 10	26
17124	205	226	< 1	0.03	8	30	4	4	0.13	21	< 10	6
17125	205	226	2	0.01	9	30	6	4	0.15	17	< 10	4
17126	205	226	1	0.02	6	20	2	7	0.04	13	< 10	12
17127	205	226	< 1	0.01	4	10	< 2	6	0.04	21	< 10	2
17128	205	226	< 1	0.01	5	10	< 2	4	0.03	18	< 10	6
17151	205	226	< 1	0.85	17	190	4	145	0.13	35	< 10	26
17153	205	226	1	0.02	4	20	4	117	0.02	10	< 10	2
17154	205	226	2	0.01	6	10	2	24	0.01	9	< 10	2
17155	205	226	4	0.01	8	10	2	4	0.02	15	< 10	4
17156	205	226	2	0.01	6	20	2	4	0.03	13	< 10	2
17157	205	226	2	0.01	6	20	2	6	0.04	17	< 10	2
17159	205	226	1	0.02	9	30	2	8	0.12	40	< 10	6
17160	205	226	1	0.23	54	200	24	70	0.60	92	< 10	32
17161	205	226	4	0.01	10	30	4	8	0.10	25	< 10	6
17162	205	226	< 1	0.24	50	170	16	44	0.59	83	< 10	28
17163	205	226	2	0.01	4	20	4	4	0.06	11	< 10	4
17164	205	226	< 1	0.01	8	20	2	5	0.06	14	< 10	4
17165	205	226	2	0.02	9	20	4	7	0.10	21	< 10	4
17166	205	226	3	0.01	7	20	4	4	0.04	15	< 10	4
17167	205	226	1	0.02	6	20	4	4	0.06	25	< 10	4
17168	205	226	< 1	0.20	50	170	24	33	0.55	132	< 10	26
17169	205	226	1	0.03	9	30	4	6	0.09	54	< 10	8
17170	205	226	1	0.02	9	20	2	5	0.08	41	< 10	4
17171	205	226	1	0.19	36	120	12	24	0.55	164	< 10	24
17201	205	226	1	0.99	12	210	4	176	0.09	25	< 10	20

CERTIFICATION: Stan Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

INVOICE NUMBER I9430175

2.1595 6

BILLING INFORMATION

Date: 22-NOV-94
Project: KIPLING
P.O. No.: 0054
Account: KJE

Comments:

RECEIVED
APR 26 1995
MINING LANDS BRANCH

Billing: For analysis performed on Certificate A9430175

Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
101	205 - Geochem ring to approx 150 mesh	2.50		
	226 - 0-5 lb crush and split	2.05		
	A-12 W.R.A ICP	21.00	25.55	2580.55

Total Cost $	2580.55
Client Discount (20%) $	-516.11
Net Cost $	2064.44
(Reg# R100938885) GST $	144.51
TOTAL PAYABLE (CDN) $	2208.95

Price/sample = $2208.95/101 = $21.87

Claimed 2 samples at $21.87 = $44

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

Project : KIPLING
Comments: ATTN: A. CASSELMAN

Certificate Date: 21-NOV-94
Invoice No. : I9430175
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9430175

SAMPLE	PREP CODE		Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %
15994	205	226	2.87	0.07	< 0.01	0.43	0.03	0.08	< 0.01	0.31	0.01	94.70	0.23	1.12	99.85
15995	205	226	3.16	0.07	< 0.01	0.40	0.04	0.08	< 0.01	0.31	0.02	94.80	0.07	1.18	100.15
15996	205	226	2.48	0.06	< 0.01	0.31	0.03	0.07	< 0.01	0.18	0.02	93.90	0.10	0.97	98.12
15997	205	226	1.55	0.06	< 0.01	0.27	0.02	0.06	< 0.01	0.17	0.01	95.00	0.10	0.60	97.82
15998	205	226	1.44	0.04	< 0.01	0.38	0.02	0.06	< 0.01	0.15	0.01	96.00	0.09	0.58	98.77
15999	205	226	1.56	0.06	< 0.01	0.44	0.02	0.07	< 0.01	0.23	0.02	95.50	0.09	0.60	98.59
16000	205	226	2.19	0.08	< 0.01	0.32	0.03	0.08	< 0.01	0.25	0.02	96.10	0.09	0.84	100.00
16551	205	226	26.55	0.36	< 0.01	8.41	0.31	0.31	0.02	0.29	0.12	50.00	1.25	12.52	100.15
16552	205	226	27.58	0.31	< 0.01	6.45	0.58	0.37	0.01	0.27	0.06	49.80	1.24	13.35	100.00
16553	205	226	26.11	0.26	< 0.01	12.78	0.70	0.40	0.07	0.30	0.06	42.40	1.08	15.11	99.27
16554	205	226	21.06	0.31	< 0.01	2.74	0.38	0.35	0.01	0.28	0.12	63.80	1.07	9.28	99.40
16555	205	226	29.06	0.48	< 0.01	2.71	0.66	0.49	0.01	0.34	0.15	51.40	1.18	13.30	99.78
16556	205	226	26.09	0.42	< 0.01	1.92	0.45	0.55	0.01	0.30	0.13	56.50	1.12	11.97	99.46
16557	205	226	29.15	0.43	< 0.01	2.94	0.65	0.68	0.03	0.17	0.10	50.30	1.17	14.22	99.84
16558	205	226	24.66	0.39	< 0.01	5.06	0.49	0.54	0.04	0.21	0.09	53.40	0.99	13.38	99.25
16559	205	226	9.13	0.23	< 0.01	2.03	0.23	0.27	0.02	0.19	0.07	81.40	0.46	4.70	98.73
16560	205	226	30.75	0.43	< 0.01	6.28	0.76	0.48	0.07	0.27	0.11	44.80	0.93	15.84	100.70
16561	205	226	27.37	0.58	< 0.01	4.08	0.28	0.44	0.01	0.19	0.11	49.20	1.32	16.95	100.55
16562	205	226	21.02	0.41	< 0.01	3.37	0.32	0.51	0.02	0.25	0.12	60.50	1.49	11.36	99.37
17152	205	226	2.37	0.43	< 0.01	1.37	0.07	0.18	0.01	0.30	0.12	93.10	0.17	1.28	99.40
17158	205	226	6.27	0.20	< 0.01	0.51	0.09	0.16	< 0.01	0.22	0.09	88.50	0.29	2.53	98.86

CERTIFICATION: Ivan Bachler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

INVOICE NUMBER I9429035

BILLING INFORMATION

Date: 26-OCT-94
Project: KIPLING
P.O. No.: 0054
Account: KJE

Comments:

RECEIVED
APR 26 1995
MINING LANDS BRANCH

Billing: For analysis performed on Certificate A9429035

Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brookebank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
120	205 - Geochem ring to approx 150 mesh	2.50		
	226 - 0-5 lb crush and split	2.05		
	ICP-24	9.95	14.50	1740.00

Total Cost $	1740.00
Client Discount (20%) $	-348.00
Net Cost $	1392.00
(Reg# R100938885) GST $	97.44
TOTAL PAYABLE (CDN) $	**1489.44**

Price/sample = $1,489.44/120 = $12.41

Claimed 19 samples at $12.41 = $236

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

Project : KIPLING
Comments: ATTN: A. CASSELMAN

Certificate Date: 26-OCT-94
Invoice No. : I9429035
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9429035

SAMPLE	PREP CODE		Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)
17109	205	226	< 0.2	0.89	60	< 0.5	< 2	0.04	< 0.5	4	333	6	0.40	0.04	0.02	30
17110	205	226	< 0.2	1.38	60	< 0.5	< 2	0.06	< 0.5	4	189	5	0.26	0.08	0.02	25
17111	205	226	< 0.2	2.50	60	< 0.5	< 2	0.02	< 0.5	2	341	9	0.33	0.07	0.01	20
17112	205	226	< 0.2	2.18	30	< 0.5	< 2	0.02	< 0.5	2	318	6	0.32	0.07	< 0.01	15
17113	205	226	< 0.2	1.25	30	< 0.5	< 2	0.01	< 0.5	1	447	6	0.41	0.09	< 0.01	20
17114	205	226	< 0.2	1.99	60	< 0.5	< 2	0.02	< 0.5	2	383	4	0.32	0.16	0.01	15
17115	205	226	< 0.2	16.65	130	1.0	< 2	0.18	< 0.5	18	291	37	1.51	0.26	0.11	35
17116	205	226	< 0.2	2.67	180	< 0.5	< 2	0.03	< 0.5	3	357	8	0.45	0.13	0.01	20
17117	205	226	< 0.2	15.20	130	1.0	< 2	0.20	< 0.5	18	221	39	1.55	0.21	0.11	45
17118	205	226	< 0.2	1.79	80	< 0.5	< 2	0.02	< 0.5	2	283	4	0.30	0.12	0.01	15
17119	205	226	< 0.2	13.50	150	1.0	< 2	0.13	< 0.5	13	229	30	3.00	0.34	0.11	50
17120	205	226	< 0.2	12.40	160	0.5	< 2	0.11	< 0.5	11	241	38	3.12	0.38	0.10	55
17121	205	226	< 0.2	3.11	40	< 0.5	< 2	0.03	< 0.5	4	294	8	0.48	0.11	0.01	25
17122	205	226	< 0.2	2.01	30	< 0.5	< 2	0.02	< 0.5	3	248	4	0.36	0.08	0.01	15
17123	205	226	< 0.2	12.00	150	1.0	< 2	0.10	< 0.5	10	196	27	1.09	0.35	0.09	35
17124	205	226	< 0.2	1.77	30	< 0.5	< 2	0.02	< 0.5	2	234	4	0.33	0.08	0.01	20
17125	205	226	< 0.2	1.57	30	< 0.5	< 2	0.02	< 0.5	3	286	6	0.37	0.08	0.01	20
17126	205	226	< 0.2	1.61	40	< 0.5	< 2	0.02	< 0.5	2	281	3	0.26	0.13	< 0.01	15
17127	205	226	< 0.2	1.40	40	< 0.5	< 2	0.02	< 0.5	2	364	11	0.27	0.14	< 0.01	15
17128	205	226	< 0.2	1.33	20	< 0.5	< 2	0.01	< 0.5	2	361	2	0.30	0.08	< 0.01	15
17151	205	226	< 0.2	3.16	450	< 0.5	< 2	0.73	< 0.5	12	264	12	1.97	0.98	0.29	375
17153	205	226	< 0.2	0.80	2470	< 0.5	< 2	0.03	< 0.5	5	307	4	0.38	0.03	< 0.01	30
17154	205	226	< 0.2	0.71	2740	< 0.5	< 2	0.01	< 0.5	3	283	4	0.34	0.01	< 0.01	20
17155	205	226	< 0.2	1.31	20	< 0.5	< 2	0.01	< 0.5	5	332	8	0.48	0.02	< 0.01	30
17156	205	226	< 0.2	1.42	20	< 0.5	< 2	0.01	< 0.5	3	277	6	0.36	0.02	< 0.01	25
17157	205	226	< 0.2	1.41	20	< 0.5	< 2	0.01	< 0.5	2	334	6	0.38	0.02	< 0.01	20
17159	205	226	< 0.2	2.71	30	< 0.5	< 2	0.02	< 0.5	4	266	5	0.35	0.07	0.01	30
17160	205	226	< 0.2	14.25	200	1.5	< 2	0.11	< 0.5	13	255	37	1.25	0.41	0.09	30
17161	205	226	< 0.2	2.06	30	< 0.5	< 2	0.02	< 0.5	4	295	8	0.50	0.05	0.01	40
17162	205	226	< 0.2	13.50	160	1.5	< 2	0.11	< 0.5	13	286	22	0.81	0.37	0.08	40
17163	205	226	< 0.2	1.33	20	< 0.5	< 2	0.01	< 0.5	4	215	6	0.33	0.02	< 0.01	25
17164	205	226	< 0.2	1.61	20	< 0.5	< 2	0.01	< 0.5	2	232	4	0.28	0.03	< 0.01	15
17165	205	226	< 0.2	1.95	30	< 0.5	< 2	0.02	< 0.5	3	248	6	0.41	0.03	< 0.01	35
17166	205	226	< 0.2	1.23	20	< 0.5	< 2	0.01	< 0.5	5	341	7	0.45	0.02	< 0.01	30
17167	205	226	< 0.2	1.55	20	< 0.5	< 2	0.02	< 0.5	3	332	6	0.36	0.03	< 0.01	25
17168	205	226	< 0.2	14.00	210	1.5	< 2	0.11	< 0.5	11	183	16	1.34	0.49	0.09	85
17169	205	226	< 0.2	2.69	30	< 0.5	< 2	0.04	< 0.5	4	340	8	0.82	0.06	0.01	80
17170	205	226	< 0.2	2.40	30	< 0.5	< 2	0.02	< 0.5	2	338	7	0.41	0.07	0.01	20
17171	205	226	< 0.2	12.80	180	1.5	< 2	0.10	< 0.5	7	183	21	0.77	0.43	0.08	40
17201	205	226	< 0.2	3.06	400	< 0.5	< 2	0.64	< 0.5	9	316	9	1.21	1.01	0.28	410

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

2.1595 6

INVOICE NUMBER I9430174

BILLING INFORMATION

RECEIVED
APR 26 1995
MINING LANDS BRANCH

Date: 22-NOV-94
Project: KIPLING
P.O. No.: 0054
Account: KJE

Comments:

Billing: For analysis performed on Certificate A9430174

Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
120	205 - Geochem ring to approx 150 mesh	2.50		
	226 - 0-5 lb crush and split	2.05		
	A-12 W.R.A ICP	21.00	25.55	3066.00

Total Cost $	3066.00
Client Discount (20%) $	-613.20
Net Cost $	2452.80
(Reg# R100938885) GST $	171.70
TOTAL PAYABLE (CDN) $	**2624.50**

Price/sample = $2,624.50/120 = $21.87

Claimed 34 samples at $21.87 = $743

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

Project : KIPLING
Comments: ATTN: A. CASSELMAN

Certificate Date: 21-NOV-94
Invoice No. : I9430174
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9430174

SAMPLE	PREP CODE		Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %
15325	205	226	3.64	0.08	0.06	0.50	0.37	0.10	< 0.01	0.12	0.04	93.70	0.12	1.13	99.86
15326	205	226	3.24	0.06	0.06	0.64	0.27	0.10	< 0.01	0.10	0.03	95.60	0.09	1.08	101.25
15327	205	226	7.06	0.10	0.07	0.63	0.25	0.14	< 0.01	0.12	0.04	88.70	0.29	2.72	100.10
15328	205	226	30.82	0.30	0.09	1.34	0.56	0.33	< 0.01	0.22	0.10	50.90	1.18	10.80	96.64
15329	205	226	3.67	0.11	0.11	0.74	0.15	0.13	< 0.01	0.16	0.06	93.10	0.16	1.34	99.73
15330	205	226	31.63	0.27	0.09	1.82	0.57	0.31	< 0.01	0.22	0.12	51.00	1.15	12.16	99.34
15331	205	226	8.29	0.46	0.11	1.56	0.75	0.43	0.01	0.70	0.11	84.40	0.38	2.75	99.95
15332	205	226	13.03	0.16	0.09	0.98	0.19	0.18	< 0.01	0.18	0.09	78.80	0.66	4.94	99.30
15333	205	226	5.05	0.07	0.05	0.88	0.09	0.11	< 0.01	0.11	0.05	91.60	0.16	1.94	100.10
15334	205	226	1.85	0.08	0.06	0.90	0.03	0.12	< 0.01	0.14	0.07	95.00	0.09	0.76	99.10
15335	205	226	2.80	0.09	0.08	1.20	0.04	0.12	< 0.01	0.14	0.06	94.10	0.12	1.15	99.90
15336	205	226	2.83	0.16	0.14	1.00	0.04	0.16	< 0.01	0.25	0.09	93.20	0.12	1.06	99.05
15337	205	226	2.99	0.03	0.01	0.35	0.02	0.09	< 0.01	0.04	0.03	93.90	0.13	1.17	98.76
15338	205	226	6.29	0.07	0.02	0.39	0.06	0.12	< 0.01	0.07	0.03	90.00	0.29	2.34	99.68
15339	205	226	2.64	0.05	0.06	0.46	0.02	0.10	< 0.01	0.08	0.03	95.00	0.17	1.04	99.65
15360	205	226	3.02	0.06	0.07	0.51	0.02	0.10	< 0.01	0.08	0.04	94.00	0.12	1.16	99.18
15361	205	226	3.42	0.10	0.11	0.48	0.04	0.12	< 0.01	0.14	0.06	93.20	0.06	1.32	99.05
15362	205	226	3.63	0.16	0.13	0.84	0.08	0.15	< 0.01	0.20	0.08	92.30	0.08	1.50	99.15
15363	205	226	3.51	0.10	0.09	0.59	0.14	0.12	< 0.01	0.13	0.06	92.90	0.10	1.38	99.12
15364	205	226	28.36	0.26	0.03	4.83	0.57	0.31	0.02	0.13	0.11	52.40	1.22	12.04	100.30
15365	205	226	24.23	0.20	0.01	6.83	0.41	0.28	0.01	0.11	0.18	56.10	1.12	10.87	100.35
15366	205	226	3.88	0.26	0.06	3.18	0.10	0.13	0.01	0.09	0.06	89.50	0.25	2.67	100.20
15367	205	226	29.43	0.29	0.05	4.46	0.61	0.36	0.01	0.16	0.15	50.40	1.14	13.12	100.20
15368	205	226	29.25	0.20	0.01	3.82	0.52	0.35	0.01	0.11	0.11	53.00	1.18	11.84	100.40
15369	205	226	31.13	0.22	< 0.01	4.54	0.34	0.30	< 0.01	0.09	0.10	49.90	1.19	12.39	100.20
15370	205	226	26.77	0.27	0.04	11.63	0.42	0.36	0.01	0.14	0.17	47.90	1.21	11.68	100.60
15371	205	226	24.81	0.19	< 0.01	11.29	0.41	0.34	0.07	0.08	0.14	49.50	1.09	12.74	100.65
15372	205	226	28.48	0.23	0.08	3.09	0.44	0.38	0.03	0.19	0.14	53.70	1.14	12.32	100.20
15373	205	226	36.93	0.36	0.07	2.43	0.06	0.26	0.02	0.18	0.11	41.80	1.06	17.26	100.55
15374	205	226	27.12	0.31	0.08	3.74	0.14	0.32	0.01	0.19	0.14	54.70	1.28	12.20	100.25
15375	205	226	37.28	0.31	< 0.01	1.05	0.09	0.24	< 0.01	< 0.01	0.04	42.60	1.20	17.19	100.00
15376	205	226	38.06	0.19	< 0.01	1.67	0.10	0.21	< 0.01	< 0.01	0.02	43.00	1.19	15.58	100.00
15377	205	226	25.65	0.04	< 0.01	12.22	0.45	0.26	0.10	< 0.01	0.01	45.30	1.06	14.52	99.61
15378	205	226	31.51	0.16	< 0.01	4.85	0.54	0.35	0.02	< 0.01	0.08	48.30	1.30	13.31	100.40
15379	205	226	33.79	0.38	< 0.01	1.43	0.47	0.37	< 0.01	< 0.01	0.07	44.70	1.30	17.61	100.10
15380	205	226	34.90	0.26	< 0.01	1.26	0.11	0.23	< 0.01	0.04	0.09	47.20	1.48	14.80	100.35
15381	205	226	8.03	0.06	< 0.01	1.32	0.10	0.12	0.02	< 0.01	0.04	86.20	0.45	3.92	100.25
15382	205	226	36.36	0.15	< 0.01	1.31	0.60	0.26	< 0.01	0.06	0.06	46.40	1.19	13.97	100.35
15383	205	226	5.49	0.04	< 0.01	1.14	0.08	0.09	< 0.01	< 0.01	0.01	90.80	0.27	2.53	100.45
15384	205	226	17.64	0.14	< 0.01	4.98	0.28	0.16	0.09	< 0.01	0.06	67.50	0.72	8.33	99.90

CERTIFICATION: [signature]

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

INVOICE NUMBER I9430175

BILLING INFORMATION

RECEIVED
APR 26 1995
MINING LANDS BRANCH

Date: 22-NOV-94
Project: KIPLING
P.O. No.: 0054
Account: KJE

Comments:

Billing: For analysis performed on Certificate A9430175

Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
101	205 - Geochem ring to approx 150 mesh	2.50		
	226 - 0-5 lb crush and split	2.05		
	A-12 W.R.A ICP	21.00	25.55	2580.55

Total Cost $	2580.55
Client Discount (20%) $	-516.11
Net Cost $	2064.44
(Reg# R100938885) GST $	144.51
TOTAL PAYABLE (CDN) $	2208.95

2.1000 0

Price/sample = $2208.95/101 = $21.87

Claimed 10 Samples at $21.87 = $219

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

Project : KIPLING
Comments: ATTN: A. CASSELMAN

Certificate Date: 21-NOV-94
Invoice No. : I9430175
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9430175

SAMPLE	PREP CODE		Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %
15385	205	226	8.07	0.14	< 0.01	1.20	0.13	0.15	< 0.01	0.18	0.06	85.90	0.37	3.50	99.70
15386	205	226	5.45	0.10	< 0.01	0.81	0.18	0.12	< 0.01	0.20	0.03	90.30	0.26	2.26	99.71
15387	205	226	3.02	0.07	< 0.01	0.41	0.16	0.10	< 0.01	0.17	0.03	94.00	0.15	1.10	99.21
15388	205	226	29.61	0.20	< 0.01	1.08	0.44	0.24	< 0.01	0.19	0.05	54.80	1.22	11.29	99.12
15389	205	226	6.34	0.07	< 0.01	0.50	0.17	0.11	< 0.01	0.16	0.03	90.10	0.35	2.44	100.25
15390	205	226	6.32	0.07	< 0.01	0.55	0.16	0.11	< 0.01	0.14	0.03	90.00	0.35	2.58	100.30
15391	205	226	5.04	0.02	< 0.01	0.40	0.21	0.08	< 0.01	0.08	< 0.01	91.60	0.34	1.98	99.75
15392	205	226	4.30	0.01	< 0.01	0.34	0.22	0.07	< 0.01	0.06	< 0.01	92.70	0.18	1.59	99.47
15393	205	226	6.11	0.07	< 0.01	0.57	0.22	0.11	< 0.01	0.14	0.02	89.80	0.26	2.34	99.64
15394	205	226	27.11	0.22	< 0.01	0.97	0.23	0.21	< 0.01	0.11	0.06	59.60	1.23	10.73	100.45
15459	205	226	2.22	0.03	< 0.01	0.40	0.09	0.08	< 0.01	0.12	0.01	95.50	0.30	0.87	99.62
15460	205	226	4.23	< 0.01	< 0.01	0.35	0.20	0.06	< 0.01	0.09	< 0.01	92.70	0.11	1.59	99.33
15461	205	226	4.00	< 0.01	< 0.01	0.40	0.18	0.04	< 0.01	0.08	< 0.01	93.80	0.22	1.45	100.15
15462	205	226	21.89	0.16	< 0.01	1.36	0.20	0.19	< 0.01	0.04	0.04	65.90	1.33	8.76	99.87
15463	205	226	19.28	0.10	< 0.01	2.01	0.27	0.16	< 0.01	0.09	0.02	69.00	1.05	7.93	99.91
15464	205	226	19.31	0.10	< 0.01	1.25	0.28	0.16	< 0.01	0.08	0.01	69.70	1.06	7.87	99.82
15465	205	226	10.49	0.08	< 0.01	0.55	0.17	0.11	< 0.01	0.06	0.01	82.60	0.71	4.19	98.97
15466	205	226	3.96	0.01	< 0.01	0.75	0.13	0.06	< 0.01	0.04	< 0.01	92.70	0.14	1.64	99.43
15467	205	226	4.76	0.06	< 0.01	0.44	0.12	0.09	< 0.01	0.13	0.03	91.60	0.21	1.94	99.38
15468	205	226	4.31	0.11	< 0.01	0.56	0.12	0.13	< 0.01	0.15	0.08	92.80	0.25	1.64	100.15
15469	205	226	3.86	0.11	< 0.01	0.36	0.10	0.12	< 0.01	0.15	0.04	93.40	0.17	1.45	99.76
15470	205	226	4.39	0.07	< 0.01	0.35	0.12	0.11	< 0.01	0.09	0.02	93.00	0.15	1.67	99.97
15471	205	226	2.52	0.08	< 0.01	0.42	0.13	0.11	< 0.01	0.12	0.03	95.00	0.11	0.86	99.38
15472	205	226	1.82	0.09	< 0.01	0.62	0.07	0.11	< 0.01	0.13	0.04	96.10	0.07	0.64	99.69
15473	205	226	1.79	0.11	< 0.01	0.40	0.08	0.12	< 0.01	0.16	0.06	95.90	0.05	0.58	99.25
15474	205	226	2.04	0.04	< 0.01	0.16	0.05	0.08	< 0.01	0.04	0.02	96.50	0.06	0.78	99.77
15475	205	226	3.79	0.08	< 0.01	0.31	0.10	0.11	< 0.01	0.09	0.04	92.80	0.11	1.40	98.83
15476	205	226	5.53	0.06	< 0.01	0.42	0.08	0.10	< 0.01	0.06	0.04	90.30	0.25	2.14	98.98
15477	205	226	5.11	0.07	< 0.01	0.31	0.08	0.11	< 0.01	0.07	0.03	91.20	0.20	1.91	99.09
15478	205	226	7.22	0.09	< 0.01	0.37	0.09	0.12	< 0.01	0.10	0.04	88.60	0.29	2.65	99.57
15551	205	226	1.33	0.23	< 0.01	0.45	0.07	0.15	< 0.01	0.13	0.05	96.00	0.08	0.56	99.05
15552	205	226	2.47	0.92	< 0.01	0.51	0.17	0.32	< 0.01	0.22	0.05	92.90	0.09	1.49	99.14
15553	205	226	4.70	0.13	< 0.01	0.40	0.14	0.14	< 0.01	0.12	0.04	91.20	0.15	1.71	98.73
15554	205	226	9.97	1.99	< 0.01	1.34	0.41	0.72	< 0.01	0.36	0.10	78.50	0.30	5.35	99.04
15555	205	226	2.53	0.34	< 0.01	0.51	0.11	0.20	< 0.01	0.21	0.07	93.90	0.09	1.05	99.01
15556	205	226	6.38	0.15	< 0.01	0.45	0.20	0.15	< 0.01	0.13	0.06	89.80	0.20	2.32	99.84
15557	205	226	6.82	0.09	< 0.01	0.43	0.25	0.09	< 0.01	< 0.01	0.01	89.00	0.16	2.56	99.41
15558	205	226	4.64	0.26	< 0.01	1.12	0.18	0.10	< 0.01	< 0.01	0.01	90.60	0.13	2.01	99.05
15559	205	226	10.15	0.36	< 0.01	1.93	0.26	0.19	0.01	0.08	0.04	81.50	0.34	4.66	99.52
15560	205	226	9.42	13.73	< 0.01	2.42	1.80	4.12	0.04	1.99	0.09	51.60	0.31	14.13	99.65

CERTIFICATION: Hank Buchholz

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000.0078

INVOICE NUMBER I9429035

BILLING INFORMATION

Date: 26-OCT-94
Project: KIPLING
P.O. No.: 0054
Account: KJE

Comments:

RECEIVED
APR 26 1995
MINING LANDS BRANCH

Billing: For analysis performed on Certificate A9429035

Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
120	205 - Geochem ring to approx 150 mesh	2.50		
	226 - 0-5 lb crush and split	2.05		
	ICP-24	9.95	14.50	1740.00

Total Cost $	1740.00
Client Discount (20%) $	-348.00
Net Cost $	1392.00
(Reg# R100938885) GST $	97.44
TOTAL PAYABLE (CDN) $	1489.44

2.1595 6

Price/sample = $1,489.44/120 = $12.41
Claimed 13 samples at $12.41 = $161

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RES[illegible] CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

Project : KIPLING
Comments: ATTN: A. CASSELMAN

000078

Certificate Date: 26-OCT-94
Invoice No. : I9429035
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9429035

SAMPLE	PREP CODE		Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)
17202	205	226	< 0.2	3.90	90	< 0.5	< 2	0.09	< 0.5	6	197	9	0.41	0.20	0.04	60
17203	205	226	< 0.2	10.70	110	1.0	< 2	0.15	< 0.5	13	214	80	1.01	0.23	0.07	50
17204	205	226	< 0.2	3.57	40	< 0.5	< 2	0.03	< 0.5	2	249	4	0.34	0.10	0.01	20
17205	205	226	< 0.2	6.49	80	0.5	2	0.06	< 0.5	6	336	13	0.53	0.19	0.03	40
17206	205	226	< 0.2	3.55	40	< 0.5	< 2	0.03	< 0.5	3	251	3	0.30	0.10	0.01	20
17207	205	226	< 0.2	1.33	30	< 0.5	< 2	0.02	< 0.5	2	372	6	0.39	0.04	< 0.01	45
17208	205	226	< 0.2	1.68	20	< 0.5	6	0.02	< 0.5	3	270	4	0.33	0.04	< 0.01	25
17209	205	226	< 0.2	3.62	40	< 0.5	< 2	0.03	< 0.5	6	293	10	0.46	0.08	0.01	35
17210	205	226	< 0.2	2.50	30	< 0.5	4	0.03	< 0.5	3	317	6	0.40	0.06	0.01	30
17211	205	226	< 0.2	1.71	20	< 0.5	< 2	0.03	< 0.5	3	352	6	0.59	0.03	< 0.01	60
17212	205	226	< 0.2	0.52	10	< 0.5	2	0.01	< 0.5	2	244	4	0.34	0.01	< 0.01	20
17213	205	226	< 0.2	1.57	20	< 0.5	2	0.01	< 0.5	5	310	8	0.41	0.03	< 0.01	30
17214	205	226	< 0.2	0.72	20	< 0.5	< 2	0.01	< 0.5	5	233	4	0.27	0.01	< 0.01	15
17215	205	226	< 0.2	1.58	30	< 0.5	< 2	0.01	< 0.5	2	327	4	0.28	0.03	< 0.01	10
17216	205	226	< 0.2	1.68	20	< 0.5	< 2	0.02	< 0.5	3	344	4	0.46	0.03	< 0.01	40
17217	205	226	< 0.2	0.83	20	< 0.5	2	0.02	< 0.5	3	520	6	0.52	0.02	< 0.01	35
17218	205	226	< 0.2	1.49	50	< 0.5	< 2	0.03	< 0.5	3	331	3	0.70	0.11	< 0.01	75
17219	205	226	< 0.2	1.72	40	< 0.5	< 2	0.03	< 0.5	3	346	4	0.55	0.12	< 0.01	45
17220	205	226	< 0.2	12.05	130	1.0	< 2	0.15	< 0.5	13	233	40	2.10	0.22	0.08	40
17221	205	226	< 0.2	5.17	90	0.5	< 2	0.06	< 0.5	7	304	10	0.65	0.18	0.03	50
17222	205	226	< 0.2	2.06	70	< 0.5	2	0.02	< 0.5	3	250	5	0.36	0.15	0.01	30
17223	205	226	< 0.2	1.78	80	< 0.5	2	0.03	< 0.5	3	331	8	0.45	0.23	0.01	30
17224	205	226	< 0.2	11.35	180	1.0	< 2	0.17	< 0.5	66	269	89	2.10	0.39	0.09	150
17225	205	226	< 0.2	3.45	90	< 0.5	< 2	0.07	< 0.5	6	412	20	0.99	0.23	0.02	55
17226	205	226	< 0.2	15.10	200	1.5	2	0.16	< 0.5	17	261	45	2.40	0.57	0.14	50
17251	205	226	< 0.2	13.25	160	1.5	2	0.16	< 0.5	16	275	45	3.09	0.39	0.10	65
17252	205	226	< 0.2	6.36	90	0.5	2	0.08	< 0.5	12	203	23	0.68	0.17	0.04	45
17253	205	226	< 0.2	1.74	60	< 0.5	< 2	0.16	< 0.5	3	246	4	0.33	0.17	0.06	20
17254	205	226	< 0.2	1.75	60	< 0.5	< 2	0.06	< 0.5	2	280	5	0.31	0.14	0.02	20
17255	205	226	< 0.2	2.16	70	< 0.5	< 2	0.26	< 0.5	4	273	7	0.47	0.16	0.09	35
17256	205	226	< 0.2	1.24	40	< 0.5	2	0.02	< 0.5	1	274	4	0.31	0.09	< 0.01	20
17257	205	226	< 0.2	1.52	40	< 0.5	< 2	0.02	< 0.5	1	407	4	0.36	0.12	< 0.01	20
17258	205	226	< 0.2	15.10	250	3.0	< 2	0.18	< 0.5	18	265	39	1.24	0.42	0.11	35
17259	205	226	< 0.2	8.72	110	1.0	< 2	0.10	< 0.5	21	287	73	0.65	0.24	0.07	55
17260	205	226	< 0.2	9.83	150	2.0	< 2	0.14	< 0.5	61	216	48	0.64	0.37	0.09	50
17261	205	226	< 0.2	11.70	170	3.0	2	0.18	< 0.5	62	280	59	0.91	0.46	0.11	50
17262	205	226	< 0.2	9.34	160	2.5	< 2	0.17	< 0.5	68	253	63	0.72	0.44	0.12	50
17263	205	226	< 0.2	13.45	190	3.0	< 2	0.15	< 0.5	16	205	22	1.46	0.42	0.11	75
17301	205	226	< 0.2	1.96	40	< 0.5	< 2	0.32	< 0.5	4	329	4	0.46	0.08	0.07	35
17302	205	226	< 0.2	1.63	30	< 0.5	< 2	0.04	< 0.5	4	496	6	0.47	0.04	0.01	20

CERTIFICATION: Hart Bichler

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5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

Project : KIPLING
Comments: ATTN: A. CASSELMAN

Certificate Date: 26-OCT-94
Invoice No. : I9429035
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9429035

SAMPLE	PREP CODE		Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)
17303	205	226	< 0.2	1.79	30	< 0.5	2	0.04	< 0.5	4	413	5	0.43	0.04	0.01	25
17304	205	226	< 0.2	0.59	20	< 0.5	< 2	0.05	< 0.5	2	443	7	0.54	0.01	0.01	30
17305	205	226	< 0.2	0.94	20	< 0.5	2	0.01	< 0.5	3	258	3	0.39	0.02	< 0.01	20
17306	205	226	< 0.2	1.14	20	< 0.5	8	0.02	< 0.5	4	566	6	0.49	0.03	< 0.01	20
17307	205	226	< 0.2	1.62	30	< 0.5	2	0.13	< 0.5	3	222	3	0.75	0.03	< 0.01	125
17308	205	226	< 0.2	3.66	70	< 0.5	< 2	0.18	< 0.5	8	308	10	0.94	0.16	0.02	100
17309	205	226	< 0.2	1.87	30	< 0.5	< 2	0.06	< 0.5	3	274	6	0.54	0.06	0.01	50
17310	205	226	< 0.2	11.70	180	1.5	< 2	0.17	< 0.5	11	186	24	1.45	0.44	0.12	75
17311	205	226	< 0.2	11.60	210	1.5	< 2	0.15	< 0.5	10	247	21	0.97	0.58	0.15	45
17312	205	226	< 0.2	7.48	140	1.0	< 2	0.09	< 0.5	24	229	13	0.54	0.38	0.09	35
17313	205	226	< 0.2	4.23	120	0.5	2	0.04	< 0.5	18	219	22	0.50	0.32	0.03	35
17351	205	226	< 0.2	1.71	40	< 0.5	< 2	0.36	< 0.5	3	319	8	0.39	0.09	0.09	35
17352	205	226	< 0.2	0.80	30	< 0.5	< 2	0.25	< 0.5	2	252	4	0.33	0.06	0.05	30
17353	205	226	< 0.2	1.30	30	< 0.5	< 2	0.20	< 0.5	4	381	8	0.50	0.05	0.06	35
17354	205	226	< 0.2	1.61	30	< 0.5	< 2	0.16	< 0.5	5	233	10	0.57	0.06	0.05	45
17355	205	226	< 0.2	1.58	20	< 0.5	< 2	0.01	< 0.5	2	191	4	0.25	0.02	< 0.01	15
17356	205	226	< 0.2	1.39	20	< 0.5	< 2	0.03	< 0.5	3	444	10	0.59	0.02	0.01	40
17357	205	226	< 0.2	1.40	20	< 0.5	< 2	0.01	< 0.5	4	214	3	0.32	0.02	< 0.01	20
17358	205	226	< 0.2	1.35	20	< 0.5	< 2	0.01	< 0.5	3	399	4	0.37	0.02	< 0.01	20
17359	205	226	< 0.2	1.40	20	< 0.5	< 2	0.01	< 0.5	4	317	7	0.62	0.02	< 0.01	50
17360	205	226	< 0.2	1.16	20	< 0.5	< 2	0.01	< 0.5	1	325	6	0.34	0.02	< 0.01	20
17361	205	226	< 0.2	1.30	20	< 0.5	< 2	0.01	< 0.5	1	205	4	0.25	0.02	< 0.01	15
17362	205	226	< 0.2	1.91	30	< 0.5	< 2	0.02	< 0.5	3	404	6	0.36	0.05	< 0.01	20
17363	205	226	< 0.2	1.00	20	< 0.5	< 2	0.01	< 0.5	2	239	3	0.26	0.03	< 0.01	15
17364	205	226	< 0.2	1.39	30	< 0.5	< 2	0.02	< 0.5	3	322	11	0.36	0.04	< 0.01	15
17365	205	226	< 0.2	1.71	30	< 0.5	< 2	0.01	< 0.5	1	261	6	0.27	0.04	< 0.01	15
17366	205	226	< 0.2	1.87	30	< 0.5	< 2	0.01	< 0.5	2	387	7	0.34	0.07	< 0.01	15
17367	205	226	< 0.2	2.12	40	< 0.5	< 2	0.01	< 0.5	2	327	4	0.31	0.09	< 0.01	15
17368	205	226	< 0.2	1.38	40	< 0.5	< 2	0.01	< 0.5	1	350	5	0.31	0.11	< 0.01	15
17369	205	226	< 0.2	1.47	50	< 0.5	< 2	0.01	< 0.5	1	305	4	0.29	0.15	< 0.01	20
17370	205	226	< 0.2	2.88	80	< 0.5	< 2	0.03	< 0.5	2	405	6	0.47	0.24	0.01	35
17371	205	226	< 0.2	3.09	80	< 0.5	< 2	0.02	< 0.5	2	371	5	0.35	0.25	0.01	20
17372	205	226	< 0.2	3.20	80	< 0.5	< 2	0.03	< 0.5	2	335	8	0.46	0.21	0.01	30
17373	205	226	< 0.2	1.94	70	< 0.5	< 2	0.04	< 0.5	3	257	16	0.63	0.19	0.01	50
17374	205	226	< 0.2	5.71	90	< 0.5	< 2	0.55	5.0	65	169	15	24.8	0.15	0.12	3330
17375	205	226	< 0.2	6.76	100	0.5	< 2	0.19	< 0.5	19	242	186	2.22	0.25	0.06	210
17376	205	226	< 0.2	16.25	180	1.5	< 2	0.19	< 0.5	54	275	70	1.35	0.48	0.13	90
17377	205	226	< 0.2	16.20	170	1.5	< 2	0.18	< 0.5	35	253	80	1.64	0.43	0.13	45
17378	205	226	< 0.2	17.20	200	2.0	< 2	0.13	< 0.5	18	228	74	2.49	0.60	0.16	60
17379	205	226	< 0.2	14.50	220	2.0	< 2	0.13	0.5	15	181	70	10.50	0.57	0.16	715

CERTIFICATION: Hart Bichler

1.301

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

2.1595 C

INVOICE NUMBER I9427479

BILLING INFORMATION

RECEIVED
APR 26 1995
MINING LANDS BRANCH

Date: 13-OCT-94
Project: KIPLING
P.O. No.: 0054
Account: KJE

Comments:

Billing: For analysis performed on Certificate A9427479

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
120	208 - Assay ring to approx 150 mesh	2.50		
	226 - 0-5 lb crush and split	2.05		
	A-12 W.R.A ICP	21.00	25.55	3066.00

Total Cost $	3066.00
Client Discount (20%) $	-613.20
Net Cost $	2452.80
(Reg# R100938885) GST $	171.70
TOTAL PAYABLE (CDN) $	2624.50

Cost/sample = $2,624.50/120 = $21.87

Claimed 32 samples at $21.87 = $700

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

Project : KIPLING
Comments: ATTN: M. MARTIN & A. CASSELMAN

000078

Certificate Date: 13-OCT-94
Invoice No. : I9427479
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9427479

SAMPLE	PREP CODE		Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %
709	208	226	33.98	0.32	0.03	2.71	0.42	0.25	0.01	0.12	0.12	48.00	0.85	13.49	100.30
710	208	226	18.06	0.38	0.03	3.67	0.23	0.18	0.01	0.08	0.08	68.80	0.76	8.00	100.30
711	208	226	33.24	0.34	0.09	1.52	0.70	0.37	< 0.01	0.16	0.15	48.00	1.11	14.13	99.81
712	208	226	27.90	0.22	0.01	1.35	0.49	0.28	< 0.01	0.05	0.10	57.40	0.99	11.34	100.15
713	208	226	34.10	0.25	< 0.01	1.76	0.69	0.40	< 0.01	0.01	0.13	47.50	1.13	14.20	100.15
714	208	226	26.07	0.19	< 0.01	1.40	0.46	0.33	0.01	< 0.01	0.09	59.60	1.06	10.53	99.74
715	208	226	23.47	0.26	< 0.01	4.65	0.49	0.34	0.06	0.02	0.07	58.20	0.96	11.69	100.20
716	208	226	26.37	0.27	< 0.01	3.72	0.52	0.40	0.04	0.04	0.09	55.80	1.12	11.91	100.30
717	208	226	17.43	0.21	< 0.01	1.14	0.45	0.30	< 0.01	0.06	0.10	71.70	1.12	7.01	99.52
718	208	226	19.02	0.23	< 0.01	1.17	0.54	0.34	< 0.01	0.06	0.12	69.40	1.18	7.59	99.65
719	208	226	6.73	0.28	0.02	1.48	0.30	0.17	0.01	0.06	0.08	86.40	0.63	2.98	99.14
720	208	226	4.58	0.22	0.01	1.53	0.26	0.13	< 0.01	0.03	0.07	90.60	0.45	2.00	99.88
721	208	226	4.16	0.12	0.02	0.51	0.28	0.12	< 0.01	0.08	0.08	92.00	0.16	1.50	99.03
722	208	226	2.27	0.09	< 0.01	0.39	0.28	0.10	< 0.01	0.07	0.04	95.90	0.08	0.73	99.95
723	208	226	2.38	0.09	0.01	0.37	0.27	0.10	< 0.01	0.08	0.04	94.00	0.07	0.73	98.14
724	208	226	2.10	0.13	0.03	0.43	0.26	0.11	< 0.01	0.11	0.06	94.10	0.06	0.73	98.12
725	208	226	3.44	0.21	0.04	0.54	0.20	0.18	< 0.01	0.14	0.07	93.40	0.15	1.20	99.57
726	208	226	3.29	0.12	0.01	0.38	0.19	0.11	< 0.01	0.09	0.06	93.90	0.09	1.13	99.37
727	208	226	3.86	0.12	0.02	0.42	0.17	0.12	< 0.01	0.09	0.06	93.00	0.16	1.36	99.38
728	208	226	4.87	0.15	0.04	0.40	0.18	0.14	< 0.01	0.13	0.08	91.70	0.27	1.72	99.68
729	208	226	3.47	0.14	0.06	0.45	0.19	0.13	< 0.01	0.13	0.08	93.00	0.10	1.12	98.87
730	208	226	3.33	< 0.01	< 0.01	0.12	0.22	0.02	< 0.01	0.01	< 0.01	96.03	0.07	1.08	100.90
731	208	226	3.25	< 0.01	< 0.01	0.28	0.24	0.04	< 0.01	0.03	< 0.01	95.95	0.11	1.11	101.00
732	208	226	4.11	0.01	< 0.01	0.61	0.24	0.04	< 0.01	0.03	< 0.01	92.58	0.14	1.57	99.33
733	208	226	3.95	0.08	< 0.01	1.95	0.26	0.04	0.01	0.02	< 0.01	92.26	0.12	2.21	100.90
734	208	226	29.94	0.16	< 0.01	0.94	0.37	0.13	< 0.01	< 0.01	0.05	52.21	1.19	15.40	100.40
735	208	226	12.47	0.06	< 0.01	1.72	0.27	0.07	0.01	< 0.01	0.01	77.58	0.54	7.28	100.00
736	208	226	29.07	0.29	< 0.01	1.07	0.37	0.17	< 0.01	0.02	0.02	51.90	1.14	15.99	100.05
737	208	226	5.61	0.12	< 0.01	2.79	0.27	0.06	0.03	0.01	< 0.01	87.25	0.18	3.84	100.15
738	208	226	29.56	0.32	< 0.01	1.14	0.42	0.20	< 0.01	0.06	0.03	49.77	1.09	18.09	100.70
739	208	226	4.41	0.19	< 0.01	4.04	0.28	0.06	0.06	0.01	0.01	86.43	0.12	4.06	99.67
740	208	226	27.36	0.44	0.02	1.33	0.38	0.28	< 0.01	0.10	0.08	53.90	1.15	15.39	100.45
741	208	226	8.68	0.30	0.06	2.53	0.21	0.16	0.02	0.09	0.06	81.80	0.33	5.15	99.39
742	208	226	25.94	0.41	0.03	1.26	0.34	0.26	< 0.01	0.13	0.09	53.60	1.17	16.42	99.65
743	208	226	5.48	0.35	0.08	3.00	0.21	0.14	0.03	0.11	0.05	85.90	0.18	4.25	99.78
744	208	226	27.12	0.45	0.04	1.53	0.36	0.29	< 0.01	0.14	0.10	52.80	1.06	15.78	99.67
745	208	226	6.91	0.27	0.08	3.05	0.24	0.14	0.02	0.07	0.06	83.40	0.23	5.05	99.52
746	208	226	28.43	0.46	0.04	1.35	0.38	0.30	< 0.01	0.13	0.10	50.60	1.16	16.64	99.59
747	208	226	5.19	0.30	0.06	2.48	0.22	0.13	0.02	0.09	0.06	87.70	0.17	3.23	99.65
4701	208	226	14.09	0.21	0.03	0.89	0.22	0.19	< 0.01	0.09	0.08	77.90	0.78	5.84	100.30

CERTIFICATION: Istvan A Bechler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

Project : KIPLING
Comments: ATTN: M. MARTIN & A. CASSELMAN

Certificate Date: 13-OCT-94
Invoice No. : I9427479
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9427479

SAMPLE	PREP CODE		Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %
4702	208	226	1.78	0.13	0.07	0.52	0.13	0.12	< 0.01	0.10	0.04	95.00	0.07	0.60	98.56
4703	208	226	14.86	0.27	0.07	1.52	0.30	0.23	0.01	0.12	0.08	75.50	0.94	6.27	100.15
4704	208	226	2.94	0.15	0.08	0.67	0.14	0.14	< 0.01	0.13	0.07	93.90	0.27	1.15	99.64
4705	208	226	28.63	0.35	0.03	1.20	0.16	0.32	< 0.01	0.13	0.19	54.70	1.34	12.59	99.64
4706	208	226	27.46	0.30	0.04	4.91	0.40	0.35	0.01	0.15	0.22	52.00	1.27	11.97	99.08
4707	208	226	21.87	0.25	0.01	1.68	0.39	0.29	< 0.01	0.10	0.15	62.50	1.21	10.79	99.24
4708	208	226	20.09	0.29	0.03	1.11	0.34	0.27	< 0.01	0.09	0.15	64.00	1.15	11.74	99.26
4709	208	226	6.94	0.24	0.09	0.91	0.15	0.18	< 0.01	0.14	0.08	86.90	0.47	2.96	99.06
4710	208	226	14.50	0.30	0.09	1.58	0.22	0.22	0.01	0.14	0.10	75.10	0.97	5.96	99.19
4711	208	226	2.52	0.08	0.03	0.34	0.09	0.10	< 0.01	0.07	0.04	95.00	0.14	0.88	99.29
4712	208	226	2.06	0.09	0.05	0.34	0.08	0.10	< 0.01	0.11	0.05	96.10	0.06	0.74	99.78
4713	208	226	3.46	0.10	0.06	0.40	0.12	0.11	< 0.01	0.10	0.05	93.90	0.08	1.19	99.57
4714	208	226	2.55	0.11	0.10	0.51	0.09	0.12	< 0.01	0.15	0.06	94.90	0.15	0.91	99.65
4715	208	226	29.72	0.22	< 0.01	0.90	0.49	0.13	< 0.01	0.15	0.18	55.20	1.02	11.66	99.67
4716	208	226	28.94	0.37	0.10	1.30	0.43	0.29	< 0.01	0.20	0.16	51.60	1.03	15.99	100.40
4717	208	226	24.52	0.13	< 0.01	1.56	0.37	0.15	0.01	0.08	0.08	54.60	1.19	16.17	98.86
4718	208	226	15.14	0.24	0.09	1.19	0.25	0.21	0.01	0.15	0.11	73.60	0.98	7.23	99.20
4719	208	226	1.45	0.25	0.10	0.60	0.04	0.15	< 0.01	0.17	0.08	95.00	0.14	0.79	98.77
4720	208	226	2.70	0.26	0.11	0.65	0.06	0.15	< 0.01	0.15	0.07	94.00	0.13	1.23	99.51
4721	208	226	6.87	0.13	0.08	0.87	0.09	0.12	< 0.01	0.16	0.07	88.20	0.30	2.78	99.67
4722	208	226	20.95	0.17	< 0.01	1.10	0.22	0.14	< 0.01	< 0.01	0.07	63.90	0.80	11.62	98.97
4723	208	226	3.43	0.43	0.07	0.87	0.08	0.16	< 0.01	0.16	0.06	92.30	0.13	1.92	99.61
4724	208	226	26.32	0.54	< 0.01	0.94	0.22	0.28	< 0.01	< 0.01	0.10	44.40	0.84	26.33	99.97
4725	208	226	23.22	0.29	< 0.01	1.15	0.48	0.28	< 0.01	< 0.01	0.11	53.90	1.08	18.84	99.35
4726	208	226	4.30	0.25	0.05	1.69	0.08	0.18	0.01	0.19	0.10	90.20	0.32	2.48	99.82
4727	208	226	3.11	0.17	0.05	0.64	0.08	0.14	< 0.01	0.21	0.09	93.00	0.10	1.29	98.88
4728	208	226	2.45	0.16	0.11	0.62	0.07	0.15	< 0.01	0.26	0.11	95.00	0.08	0.82	99.83
4729	208	226	2.80	0.06	< 0.01	0.60	0.06	0.09	< 0.01	0.08	0.04	94.10	0.13	1.12	99.08
4730	208	226	7.72	0.10	< 0.01	0.82	0.12	0.12	< 0.01	0.11	0.06	87.80	0.28	3.03	100.15
4731	208	226	16.48	0.23	< 0.01	0.76	0.20	0.17	< 0.01	0.12	0.12	72.80	0.90	7.55	99.33
4732	208	226	2.32	0.09	< 0.01	0.54	0.05	0.10	< 0.01	0.11	0.06	95.00	0.06	0.85	99.18
4751	208	226	2.65	0.10	< 0.01	0.43	0.08	0.11	< 0.01	0.15	0.07	94.20	0.07	0.97	98.83
4752	208	226	2.58	0.04	< 0.01	0.31	0.09	0.09	< 0.01	0.05	0.04	94.50	0.06	0.86	98.62
4753	208	226	3.08	0.26	< 0.01	0.43	0.12	0.16	< 0.01	0.16	0.07	93.20	0.09	1.19	98.76
4754	208	226	3.66	0.04	< 0.01	0.60	0.08	0.09	< 0.01	0.03	0.05	92.80	0.15	1.44	98.94
4755	208	226	3.44	0.06	< 0.01	0.30	0.08	0.10	< 0.01	0.09	0.06	93.50	0.16	1.24	99.03
4756	208	226	2.83	0.07	< 0.01	0.28	0.08	0.10	< 0.01	0.10	0.06	93.60	0.16	1.06	98.34
4757	208	226	2.65	0.16	0.06	0.40	0.09	0.15	< 0.01	0.26	0.08	93.40	0.09	0.96	98.30
4758	208	226	3.71	0.24	0.03	1.68	0.13	0.13	0.01	0.19	0.10	91.30	0.10	1.84	99.46
4759	208	226	2.96	0.20	0.09	0.78	0.10	0.15	< 0.01	0.28	0.09	92.80	0.08	0.99	98.52

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: MINERAL RESEARCH CANADA INC.
1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

2 1995 6

INVOICE NUMBER I9429034

RECEIVED
APR 26 1995
MINING LANDS BRANCH

BILLING INFORMATION

Date: 26-OCT-94
Project: KIPLING
P.O. No.: 0054
Account: KJE

Comments:

Billing: For analysis performed on Certificate A9429034

Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
120	205 - Geochem ring to approx 150 mesh	2.50		
	226 - 0-5 lb crush and split	2.05		
	ICP-24	9.95	14.50	1740.00

Total Cost $	1740.00
Client Discount (20%) $	-348.00
Net Cost $	1392.00
(Reg# R100938885) GST $	97.44
TOTAL PAYABLE (CDN) $	1489.44

Price/sample = $1489.44/120 = $12.41
Claimed 31 samples at $12.41 = $385

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

Project : KIPLING
Comments: ATTN: A. CASSELMAN

Certificate Date: 26-OCT-94
Invoice No. : I9429034
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9429034

SAMPLE	PREP CODE		Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)
15778	205	226	< 0.2	17.80	130	2.5	< 2	0.16	< 0.5	26	248	34	1.54	0.22	0.11	65
15779	205	226	< 0.2	6.22	80	1.0	< 2	0.07	< 0.5	17	223	32	1.50	0.22	0.06	160
15780	205	226	< 0.2	14.65	170	5.5	< 2	0.24	< 0.5	56	231	72	1.24	0.32	0.15	95
15781	205	226	< 0.2	12.55	150	7.5	< 2	0.32	< 0.5	42	239	65	0.94	0.22	0.15	65
16001	205	226	< 0.2	3.07	130	< 0.5	< 2	0.26	< 0.5	7	194	9	0.80	0.34	0.14	165
16002	205	226	< 0.2	4.90	70	0.5	< 2	0.06	< 0.5	6	335	12	0.56	0.19	0.03	50
16003	205	226	< 0.2	2.49	40	< 0.5	< 2	0.04	< 0.5	3	260	5	0.34	0.08	0.02	50
16004	205	226	< 0.2	3.64	50	< 0.5	< 2	0.02	< 0.5	3	236	7	0.33	0.12	0.01	30
16005	205	226	< 0.2	2.61	40	< 0.5	< 2	0.02	< 0.5	2	171	5	0.25	0.08	0.01	30
16006	205	226	< 0.2	2.89	50	< 0.5	< 2	0.04	< 0.5	1	209	6	0.30	0.09	0.02	20
16007	205	226	< 0.2	1.54	30	< 0.5	< 2	0.02	< 0.5	1	131	4	0.22	0.03	< 0.01	25
16008	205	226	< 0.2	2.36	30	< 0.5	< 2	0.03	< 0.5	2	230	7	0.30	0.07	0.01	25
16009	205	226	< 0.2	1.22	20	< 0.5	< 2	0.01	< 0.5	2	174	3	0.22	0.03	< 0.01	20
16010	205	226	< 0.2	1.64	70	< 0.5	< 2	0.02	< 0.5	2	228	7	0.38	0.06	0.01	65
16011	205	226	< 0.2	1.10	30	< 0.5	< 2	0.01	< 0.5	2	146	2	0.21	0.02	< 0.01	15
16012	205	226	< 0.2	1.29	20	< 0.5	< 2	0.01	< 0.5	1	232	4	0.24	0.02	< 0.01	10
16013	205	226	< 0.2	1.12	20	< 0.5	< 2	0.01	< 0.5	1	233	3	0.26	0.02	< 0.01	20
16014	205	226	< 0.2	1.06	70	< 0.5	< 2	0.03	< 0.5	2	295	8	0.32	0.04	0.01	30
16015	205	226	< 0.2	1.43	40	< 0.5	< 2	0.02	< 0.5	4	219	9	0.54	0.12	< 0.01	45
16016	205	226	< 0.2	1.51	50	< 0.5	< 2	0.01	< 0.5	2	238	6	0.27	0.13	< 0.01	15
16017	205	226	< 0.2	9.30	160	1.0	< 2	0.09	< 0.5	10	421	21	1.14	0.37	0.07	85
16018	205	226	< 0.2	2.79	90	< 0.5	< 2	0.04	< 0.5	3	279	7	0.42	0.19	0.03	30
16019	205	226	< 0.2	5.10	100	0.5	< 2	0.04	< 0.5	2	132	7	0.36	0.23	0.02	35
16020	205	226	< 0.2	2.25	70	< 0.5	< 2	0.02	< 0.5	< 1	172	4	0.22	0.18	0.01	15
16021	205	226	< 0.2	1.47	50	< 0.5	< 2	0.03	< 0.5	1	114	6	0.32	0.10	0.01	30
16022	205	226	< 0.2	1.94	40	< 0.5	< 2	0.02	< 0.5	< 1	175	4	0.30	0.10	0.01	20
16023	205	226	< 0.2	0.86	30	< 0.5	< 2	0.03	< 0.5	< 1	248	6	0.49	0.07	< 0.01	40
16024	205	226	< 0.2	1.12	30	< 0.5	< 2	0.02	< 0.5	2	161	6	0.39	0.06	< 0.01	30
16025	205	226	< 0.2	1.82	30	< 0.5	< 2	0.03	< 0.5	5	189	9	0.62	0.08	< 0.01	40
16026	205	226	< 0.2	1.46	30	< 0.5	< 2	0.07	< 0.5	13	227	10	0.99	0.04	0.01	85
16027	205	226	< 0.2	3.73	70	< 0.5	< 2	0.08	< 0.5	5	194	7	1.19	0.15	0.02	105
16028	205	226	< 0.2	9.98	150	1.0	< 2	0.34	1.0	55	274	82	6.91	0.37	0.09	620
16029	205	226	< 0.2	1.28	100	< 0.5	< 2	0.04	< 0.5	2	204	6	0.72	0.13	0.02	60
16030	205	226	< 0.2	15.45	140	2.0	< 2	0.20	< 0.5	126	237	56	2.21	0.25	0.09	105
16031	205	226	< 0.2	18.05	160	1.5	< 2	0.12	< 0.5	214	228	62	1.16	0.51	0.10	30
17104	205	226	< 0.2	11.90	160	2.5	< 2	0.16	< 0.5	26	219	60	0.77	0.40	0.10	45
17105	205	226	< 0.2	7.48	130	1.0	< 2	0.08	< 0.5	13	184	12	0.53	0.32	0.06	30
17106	205	226	< 0.2	1.11	50	< 0.5	< 2	0.02	< 0.5	3	238	7	0.38	0.07	0.01	45
17107	205	226	< 0.2	3.98	100	0.5	< 2	0.04	< 0.5	4	134	9	0.37	0.25	0.03	40
17108	205	226	< 0.2	1.08	30	< 0.5	< 2	0.01	< 0.5	3	270	8	0.46	0.06	< 0.01	45

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

RECEIVED
APR 26 1995
MINING LANDS BRANCH

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

2.1595

INVOICE NUMBER I9429035

BILLING INFORMATION

Date: 26-OCT-94
Project: KIPLING
P.O. No.: 0054
Account: KJE

Comments:

Billing: For analysis performed on Certificate A9429035

Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
120	205 - Geochem ring to approx 150 mesh	2.50		
	226 - 0-5 lb crush and split	2.05		
	ICP-24	9.95	14.50	1740.00

Total Cost $	1740.00
Client Discount (20%) $	-348.00
Net Cost $	1392.00
(Reg# R100938885) GST $	97.44
TOTAL PAYABLE (CDN) $	**1489.44**

Price/sample $1,489.44/120 = $12.41
Claimed 29 samples at $12.41 = $360

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

[redacted]

Page Number : 3-A
Total Pages : 3
Certificate Date: 26-OCT-94
Invoice No. : I9429035
P.O. Number : 0054
Account : KJE

Project : KIPLING
Comments: ATTN: A. CASSELMAN

CERTIFICATE OF ANALYSIS A9429035

SAMPLE	PREP CODE		Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)
17303	205	226	< 0.2	1.79	30	< 0.5	2	0.04	< 0.5	4	413	5	0.43	0.04	0.01	25
17304	205	226	< 0.2	0.59	20	< 0.5	< 2	0.05	< 0.5	2	443	7	0.54	0.01	0.01	30
17305	205	226	< 0.2	0.94	20	< 0.5	2	0.01	< 0.5	3	258	3	0.39	0.02	< 0.01	20
17306	205	226	< 0.2	1.14	20	< 0.5	8	0.02	< 0.5	4	566	6	0.49	0.03	< 0.01	20
17307	205	226	< 0.2	1.62	30	< 0.5	2	0.13	< 0.5	3	222	3	0.75	0.03	< 0.01	125
17308	205	226	< 0.2	3.66	70	< 0.5	< 2	0.18	< 0.5	8	308	10	0.94	0.16	0.02	100
17309	205	226	< 0.2	1.87	30	< 0.5	< 2	0.06	< 0.5	3	274	6	0.54	0.06	0.01	50
17310	205	226	< 0.2	11.70	180	1.5	< 2	0.17	< 0.5	11	186	24	1.45	0.44	0.12	75
17311	205	226	< 0.2	11.60	210	1.5	< 2	0.15	< 0.5	10	247	21	0.97	0.58	0.15	45
17312	205	226	< 0.2	7.48	140	1.0	< 2	0.09	< 0.5	24	229	13	0.54	0.38	0.09	35
17313	205	226	< 0.2	4.23	120	0.5	2	0.04	< 0.5	18	219	22	0.50	0.32	0.03	35
17351	205	226	< 0.2	1.71	40	< 0.5	< 2	0.36	< 0.5	3	319	8	0.39	0.09	0.09	35
17352	205	226	< 0.2	0.80	30	< 0.5	< 2	0.25	< 0.5	2	252	4	0.33	0.06	0.05	30
17353	205	226	< 0.2	1.30	30	< 0.5	< 2	0.20	< 0.5	4	381	8	0.50	0.05	0.06	35
17354	205	226	< 0.2	1.61	30	< 0.5	< 2	0.16	< 0.5	5	233	10	0.57	0.06	0.05	45
17355	205	226	< 0.2	1.58	20	< 0.5	< 2	0.01	< 0.5	2	191	4	0.25	0.02	< 0.01	15
17356	205	226	< 0.2	1.39	20	< 0.5	< 2	0.03	< 0.5	3	444	10	0.59	0.02	0.01	40
17357	205	226	< 0.2	1.40	20	< 0.5	< 2	0.01	< 0.5	4	214	3	0.32	0.02	< 0.01	20
17358	205	226	< 0.2	1.35	20	< 0.5	< 2	0.01	< 0.5	3	399	4	0.37	0.02	< 0.01	20
17359	205	226	< 0.2	1.40	20	< 0.5	< 2	0.01	< 0.5	4	317	7	0.62	0.02	< 0.01	50
17360	205	226	< 0.2	1.16	20	< 0.5	< 2	0.01	< 0.5	1	325	6	0.34	0.02	< 0.01	20
17361	205	226	< 0.2	1.30	20	< 0.5	< 2	0.01	< 0.5	1	205	4	0.25	0.02	< 0.01	15
17362	205	226	< 0.2	1.91	30	< 0.5	< 2	0.02	< 0.5	3	404	6	0.36	0.05	< 0.01	20
17363	205	226	< 0.2	1.00	20	< 0.5	< 2	0.01	< 0.5	2	239	3	0.26	0.03	< 0.01	15
17364	205	226	< 0.2	1.39	30	< 0.5	< 2	0.02	< 0.5	3	322	11	0.36	0.04	< 0.01	15
17365	205	226	< 0.2	1.71	30	< 0.5	< 2	0.01	< 0.5	1	261	6	0.27	0.04	< 0.01	15
17366	205	226	< 0.2	1.87	30	< 0.5	< 2	0.01	< 0.5	2	387	7	0.34	0.07	< 0.01	15
17367	205	226	< 0.2	2.12	40	< 0.5	< 2	0.01	< 0.5	2	327	4	0.31	0.09	< 0.01	15
17368	205	226	< 0.2	1.38	40	< 0.5	< 2	0.01	< 0.5	1	350	5	0.31	0.11	< 0.01	15
17369	205	226	< 0.2	1.47	50	< 0.5	< 2	0.01	< 0.5	1	305	4	0.29	0.15	< 0.01	20
17370	205	226	< 0.2	2.88	80	< 0.5	< 2	0.03	< 0.5	2	405	6	0.47	0.24	0.01	35
17371	205	226	< 0.2	3.09	80	< 0.5	< 2	0.02	< 0.5	2	371	5	0.35	0.25	0.01	20
17372	205	226	< 0.2	3.20	80	< 0.5	< 2	0.03	< 0.5	2	335	8	0.46	0.21	0.01	30
17373	205	226	< 0.2	1.94	70	< 0.5	< 2	0.04	< 0.5	3	257	16	0.63	0.19	0.01	50
17374	205	226	< 0.2	5.71	90	< 0.5	< 2	0.55	5.0	65	169	15	24.8	0.15	0.12	3330
17375	205	226	< 0.2	6.76	100	0.5	< 2	0.19	< 0.5	19	242	186	2.22	0.25	0.06	210
17376	205	226	< 0.2	16.25	180	1.5	< 2	0.19	< 0.5	54	275	70	1.35	0.48	0.13	90
17377	205	226	< 0.2	16.20	170	1.5	< 2	0.18	< 0.5	35	253	80	1.64	0.43	0.13	45
17378	205	226	< 0.2	17.20	200	2.0	< 2	0.13	< 0.5	18	228	74	2.49	0.60	0.16	60
17379	205	226	< 0.2	14.50	220	2.0	< 2	0.13	0.5	15	181	70	10.50	0.57	0.16	715

CERTIFICATION: Hart Bichler

1.834

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

INVOICE NUMBER I9430174

2.1595.6

BILLING INFORMATION

RECEIVED
APR 26 1995
MINING LANDS BRANCH

Date: 22-NOV-94
Project: KIPLING
P.O. No.: 0054
Account: KJE

Comments:

Billing: For analysis performed on Certificate A9430174

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
120	205 - Geochem ring to approx 150 mesh	2.50		
	226 - 0-5 lb crush and split	2.05		
	A-12 W.R.A ICP	21.00	25.55	3066.00

Total Cost $	3066.00
Client Discount (20%) $	-613.20
Net Cost $	2452.80
(Reg# R100938885) GST $	171.70
TOTAL PAYABLE (CDN) $	2624.50

Price/sample = $2624.50/120 = $21.87

Claimed 26 samples at $21.87 = $569

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

Project : KIPLING
Comments: ATTN: A. CASSELMAN

Certificate Date: 21-NOV-94
Invoice No. : I9430174
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9430174

SAMPLE	PREP CODE		Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %
3456	205	226	3.69	0.14	0.02	0.49	0.06	0.12	< 0.01	0.07	0.02	94.30	0.14	1.28	100.35
3457	205	226	2.31	0.11	0.03	0.45	0.04	0.11	< 0.01	0.08	0.03	95.20	0.07	0.79	99.22
3458	205	226	2.22	3.25	< 0.01	0.22	0.03	0.16	< 0.01	0.13	0.02	93.00	0.04	0.70	99.77
3459	205	226	4.12	0.14	0.03	0.86	0.06	0.11	0.01	0.08	0.04	93.10	0.17	1.77	100.50
3460	205	226	3.85	0.09	0.02	0.45	0.07	0.11	< 0.01	0.07	0.03	93.00	0.14	1.45	99.28
3461	205	226	3.71	0.11	0.04	0.80	0.07	0.10	< 0.01	0.07	0.03	93.10	0.12	1.45	99.60
3462	205	226	3.63	0.10	0.06	0.74	0.10	0.11	< 0.01	0.10	0.04	93.50	0.08	1.45	99.91
3463	205	226	4.78	0.10	0.04	0.48	0.17	0.11	< 0.01	0.10	0.04	92.50	0.12	1.68	100.10
3464	205	226	3.08	0.08	0.07	0.56	0.27	0.11	< 0.01	0.10	0.04	95.00	0.16	0.92	100.40
3465	205	226	3.82	0.11	0.04	0.40	0.39	0.10	< 0.01	0.09	0.03	93.90	0.06	1.17	100.10
3466	205	226	17.82	0.18	< 0.01	1.23	0.23	0.18	< 0.01	0.07	0.04	71.60	0.96	7.44	99.75
3467	205	226	2.79	0.07	0.03	0.66	0.18	0.09	< 0.01	0.04	0.05	95.00	0.09	0.97	99.97
3468	205	226	3.72	0.06	< 0.01	0.28	0.21	0.09	< 0.01	0.04	0.05	94.00	0.12	1.28	99.85
3469	205	226	4.10	0.09	0.03	0.75	0.28	0.10	< 0.01	0.06	0.02	93.80	0.10	1.53	100.85
3470	205	226	6.74	0.15	< 0.01	0.89	0.16	0.13	< 0.01	0.05	0.06	89.20	0.38	2.69	100.45
3471	205	226	8.06	0.16	0.01	1.73	0.28	0.14	< 0.01	0.08	0.04	86.00	0.54	3.43	100.45
3472	205	226	11.14	0.18	0.01	2.61	0.29	0.15	0.02	0.06	0.03	79.90	0.89	5.24	100.50
3473	205	226	25.41	0.24	< 0.01	5.54	0.58	0.27	0.01	0.05	0.07	55.80	1.19	11.14	100.30
3474	205	226	29.50	0.35	< 0.01	1.29	0.54	0.28	< 0.01	0.08	0.06	51.70	1.18	15.44	100.40
3475	205	226	36.94	0.30	0.02	1.55	0.32	0.28	< 0.01	0.13	0.07	45.00	1.09	15.27	100.95
3476	205	226	35.71	0.30	0.01	1.57	0.55	0.30	< 0.01	0.11	0.09	46.20	1.15	15.00	101.00
3477	205	226	30.29	0.40	< 0.01	1.40	0.21	0.34	< 0.01	0.09	0.06	51.00	1.60	14.65	100.05
3478	205	226	32.73	0.29	0.02	4.00	0.47	0.38	0.01	0.11	0.07	47.30	1.31	13.75	100.45
3479	205	226	34.17	0.20	< 0.01	1.92	0.66	0.37	< 0.01	0.10	0.07	49.50	1.19	12.90	101.10
3480	205	226	31.39	0.21	< 0.01	2.97	0.70	0.35	< 0.01	0.10	0.09	50.40	1.06	13.23	100.50
3481	205	226	8.18	0.14	0.01	1.25	0.32	0.14	< 0.01	0.07	0.05	86.40	0.42	3.54	100.50
3482	205	226	4.94	0.06	< 0.01	0.46	0.26	0.11	< 0.01	0.02	0.03	91.80	0.28	1.91	99.87
3483	205	226	6.93	0.10	0.03	0.77	0.30	0.13	< 0.01	0.08	0.04	87.50	0.25	2.77	98.90
3484	205	226	15.39	0.22	0.03	1.46	0.43	0.20	< 0.01	0.10	0.05	74.30	0.61	6.79	99.58
3563	205	226	4.58	0.17	0.02	0.42	0.08	0.14	< 0.01	0.09	0.03	92.70	0.16	1.76	100.15
3564	205	226	3.43	0.09	0.02	0.51	0.06	0.11	< 0.01	0.04	0.03	94.00	0.14	1.40	99.83
3565	205	226	7.71	0.11	0.05	0.54	0.11	0.13	< 0.01	0.10	0.04	88.10	0.30	2.99	100.20
3566	205	226	2.67	0.10	0.04	0.41	0.05	0.11	< 0.01	0.09	0.03	95.00	0.04	0.96	99.50
3567	205	226	3.31	0.10	0.03	0.36	0.05	0.11	< 0.01	0.08	0.06	94.00	0.14	1.19	99.43
3568	205	226	3.87	0.09	0.05	0.53	0.06	0.11	< 0.01	0.07	0.04	93.10	0.24	1.46	99.62
3569	205	226	2.73	0.11	0.06	0.50	0.05	0.11	< 0.01	0.10	0.03	94.90	0.08	1.00	99.67
3570	205	226	8.25	0.18	0.06	0.57	0.07	0.14	< 0.01	0.12	0.05	86.40	0.40	3.55	99.79
3571	205	226	4.69	0.13	0.07	0.61	0.06	0.13	< 0.01	0.11	0.07	91.60	0.32	1.85	99.64
3572	205	226	27.74	0.30	0.01	0.88	0.12	0.19	< 0.01	0.11	0.06	58.00	1.24	11.74	100.40
3573	205	226	6.61	0.07	< 0.01	0.25	0.10	0.11	< 0.01	0.04	0.02	90.20	0.19	2.51	100.10

CERTIFICATION: Stewart Bychler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

Project : KIPLING
Comments: ATTN: A. CASSELMAN

Certificate Date: 21-NOV-94
Invoice No. : I9430174
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9430174

SAMPLE	PREP CODE		Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %
3874	205	226	3.38	0.07	0.02	0.28	0.08	0.10	< 0.01	0.08	0.02	94.90	0.08	1.16	100.15
3875	205	226	4.41	0.07	0.02	0.50	0.11	0.10	< 0.01	0.07	0.04	92.80	0.11	1.76	99.99
3876	205	226	3.37	0.06	0.02	0.34	0.13	0.09	< 0.01	0.07	0.03	95.00	0.08	1.15	100.35
3877	205	226	2.90	0.06	0.03	0.50	0.13	0.09	< 0.01	0.07	0.04	94.00	0.22	1.11	99.15
3878	205	226	3.69	0.04	0.03	0.49	0.24	0.09	< 0.01	0.06	0.02	93.90	0.09	1.32	99.97
3879	205	226	3.41	0.05	0.02	0.34	0.19	0.09	< 0.01	0.07	0.03	94.80	0.11	0.40	99.51
3880	205	226	3.65	0.04	0.02	0.44	0.28	0.08	< 0.01	0.06	0.04	94.00	0.08	1.23	99.92
3881	205	226	5.35	0.25	0.02	3.41	0.25	0.10	0.02	0.04	0.02	86.50	0.21	3.34	99.51
3882	205	226	29.80	0.26	< 0.01	2.24	0.34	0.26	< 0.01	0.08	0.07	53.40	1.41	12.12	99.98
3883	205	226	32.85	0.29	< 0.01	2.91	0.41	0.33	< 0.01	0.10	0.08	49.00	1.20	13.59	100.75
3884	205	226	26.58	0.26	< 0.01	5.73	0.46	0.28	0.01	0.05	0.10	54.40	1.06	11.46	100.40
3885	205	226	32.13	0.42	< 0.01	2.64	0.30	0.30	< 0.01	0.04	0.08	47.10	1.23	16.25	100.50
3886	205	226	33.05	0.55	< 0.01	1.24	0.14	0.27	< 0.01	0.01	0.04	46.00	1.33	18.37	101.00
3887	205	226	30.89	0.47	< 0.01	1.11	0.23	0.28	< 0.01	0.06	0.07	49.30	1.53	16.39	100.35
3888	205	226	34.83	0.18	< 0.01	5.13	0.62	0.32	0.01	0.03	0.09	44.00	1.09	14.10	100.40
13735	205	226	7.70	29.69	< 0.01	2.51	1.33	2.11	0.06	1.04	0.09	29.70	0.41	25.65	100.30
15301	205	226	4.34	0.29	< 0.01	0.55	0.09	0.17	< 0.01	0.07	0.02	92.50	0.15	1.90	100.10
15302	205	226	3.52	0.04	0.04	0.56	0.04	0.09	< 0.01	0.04	0.02	93.70	0.04	1.37	99.46
15303	205	226	3.43	0.22	0.01	0.48	0.05	0.12	< 0.01	0.06	0.04	93.70	0.10	1.46	99.67
15304	205	226	3.98	0.01	< 0.01	0.22	0.05	0.07	< 0.01	< 0.01	0.02	93.50	0.32	1.44	99.61
15305	205	226	2.21	0.03	0.02	0.38	0.03	0.08	< 0.01	0.05	0.04	96.00	0.13	0.87	99.84
15306	205	226	1.22	0.02	0.05	0.61	0.02	0.08	< 0.01	0.04	0.02	96.80	0.16	0.50	99.52
15307	205	226	1.44	2.18	< 0.01	0.34	0.02	0.12	< 0.01	0.07	0.01	95.00	0.11	0.49	99.78
15308	205	226	2.50	0.04	0.01	0.25	0.03	0.09	< 0.01	0.07	0.02	95.10	0.19	0.93	99.23
15309	205	226	2.98	0.02	0.01	0.34	0.04	0.08	< 0.01	0.04	0.01	94.80	0.14	1.08	99.54
15310	205	226	2.74	0.03	< 0.01	0.20	0.07	0.08	< 0.01	0.06	0.03	96.00	0.08	0.94	100.25
15311	205	226	5.40	0.03	< 0.01	0.37	0.16	0.08	< 0.01	0.02	0.02	92.20	0.24	2.05	100.55
15312	205	226	2.57	0.03	0.03	0.41	0.09	0.08	< 0.01	0.05	0.02	94.90	0.14	0.88	99.20
15313	205	226	2.49	0.03	0.03	0.42	0.09	0.08	< 0.01	0.06	0.02	95.00	0.11	0.90	99.23
15314	205	226	2.10	0.07	0.08	0.50	0.14	0.10	< 0.01	0.11	0.04	96.00	0.10	0.77	100.00
15315	205	226	3.38	0.17	0.18	0.60	0.19	0.16	< 0.01	0.29	0.09	93.90	0.19	1.17	100.30
15316	205	226	12.78	0.18	0.12	1.48	0.42	0.25	< 0.01	0.24	0.11	77.90	0.92	5.52	99.92
15317	205	226	4.80	0.14	0.06	1.70	0.32	0.13	0.02	0.11	0.06	90.10	0.33	2.49	100.25
15318	205	226	2.81	0.25	0.07	2.45	0.29	0.13	0.01	0.13	0.07	91.50	0.17	1.82	99.70
15319	205	226	3.06	2.48	0.01	0.93	0.35	0.15	< 0.01	0.12	0.03	90.90	0.12	1.24	99.39
15320	205	226	2.20	0.14	0.05	1.65	0.22	0.11	0.01	0.09	0.03	93.50	0.09	1.27	99.36
15321	205	226	1.42	0.14	0.07	1.62	0.08	0.11	0.01	0.10	0.04	95.00	0.06	0.89	99.54
15322	205	226	1.49	0.17	0.09	1.74	0.11	0.13	0.01	0.15	0.05	94.00	0.07	0.98	98.99
15323	205	226	1.45	0.18	0.09	1.88	0.13	0.12	0.02	0.15	0.07	95.90	0.07	0.99	101.05
15324	205	226	2.11	0.10	0.06	1.33	0.25	0.10	0.01	0.09	0.03	95.00	0.09	0.95	100.10

CERTIFICATION: [illegible]

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: MINERAL RESEARCH CANADA INC.
1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

INVOICE NUMBER I9429034

BILLING INFORMATION

RECEIVED
APR 26 1995
MINING LANDS BRANCH

Date: 26-OCT-94
Project: KIPLING
P.O. No.: 0054
Account: KJE

Comments:

Billing: For analysis performed on Certificate A9429034

Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
120	205 - Geochem ring to approx 150 mesh	2.50		
	226 - 0-5 lb crush and split	2.05		
	ICP-24	9.95	14.50	1740.00

Total Cost $	1740.00
Client Discount (20%) $	-348.00
Net Cost $	1392.00
(Reg# R100938885) GST $	97.44
TOTAL PAYABLE (CDN) $	1489.44

Claimed 28 samples at $12.41 = $347

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

Project : KIPLING
Comments: ATTN: A. CASSELMAN

Certificate Date: 26-OCT-94
Invoice No. : I9429034
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9429034

SAMPLE	PREP CODE		Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)
3507	205	226	< 0.2	1.55	30	< 0.5	< 2	0.08	< 0.5	4	283	10	0.37	0.23	0.03	35
3508	205	226	0.4	1.30	20	< 0.5	< 2	0.03	< 0.5	1	339	4	0.32	0.04	0.01	15
3509	205	226	< 0.2	1.44	20	< 0.5	< 2	0.01	< 0.5	< 1	225	4	0.23	0.09	< 0.01	10
3510	205	226	< 0.2	1.96	20	< 0.5	< 2	0.02	< 0.5	3	310	7	0.39	0.09	< 0.01	30
3511	205	226	< 0.2	0.62	20	< 0.5	< 2	0.01	< 0.5	1	188	3	0.25	0.04	< 0.01	20
3512	205	226	< 0.2	1.28	20	< 0.5	< 2	0.01	< 0.5	1	289	4	0.31	0.22	< 0.01	20
3513	205	226	< 0.2	1.14	20	< 0.5	< 2	0.03	< 0.5	1	237	6	0.35	0.06	0.01	25
3514	205	226	< 0.2	0.96	20	< 0.5	< 2	0.02	< 0.5	2	329	7	0.47	0.09	< 0.01	30
3515	205	226	< 0.2	1.60	20	< 0.5	< 2	0.01	< 0.5	3	257	4	0.29	0.09	< 0.01	20
3516	205	226	< 0.2	1.81	30	< 0.5	< 2	0.12	< 0.5	5	302	5	1.89	0.13	0.01	360
3517	205	226	< 0.2	2.03	30	< 0.5	< 2	0.08	< 0.5	3	225	4	1.21	0.07	0.01	165
3518	205	226	< 0.2	3.07	50	< 0.5	2	0.06	< 0.5	7	234	7	0.91	0.11	0.02	110
3519	205	226	< 0.2	1.60	40	< 0.5	< 2	0.02	< 0.5	2	158	3	0.25	0.09	0.01	25
3520	205	226	< 0.2	2.33	60	< 0.5	< 2	0.02	< 0.5	3	236	7	0.35	0.19	0.01	30
3521	205	226	< 0.2	1.35	40	< 0.5	< 2	0.01	< 0.5	1	184	3	0.21	0.16	< 0.01	10
3522	205	226	1.6	1.92	80	< 0.5	6	0.02	< 0.5	3	299	5	0.33	0.30	< 0.01	15
3523	205	226	< 0.2	1.28	70	< 0.5	< 2	0.02	< 0.5	2	196	4	0.33	0.24	< 0.01	20
3524	205	226	< 0.2	2.38	80	< 0.5	2	0.29	0.5	14	306	12	4.02	0.23	0.02	405
3525	205	226	< 0.2	17.25	100	2.5	< 2	0.20	< 0.5	58	279	70	0.72	0.11	0.10	210
3526	205	226	< 0.2	17.55	140	1.5	< 2	0.14	< 0.5	33	229	41	0.90	0.37	0.09	30
3527	205	226	< 0.2	16.45	160	1.5	< 2	0.18	< 0.5	34	277	81	2.17	0.40	0.16	55
3528	205	226	< 0.2	15.15	160	1.5	< 2	0.14	< 0.5	17	242	60	3.94	0.46	0.16	55
3529	205	226	< 0.2	16.75	170	4.5	< 2	0.24	< 0.5	23	228	94	1.56	0.38	0.18	45
3530	205	226	< 0.2	13.35	170	1.5	< 2	0.11	1.0	34	177	61	8.87	0.53	0.15	700
3531	205	226	< 0.2	15.40	200	2.0	< 2	0.11	< 0.5	39	184	73	1.17	0.61	0.17	70
3532	205	226	< 0.2	8.91	190	1.0	< 2	0.07	< 0.5	41	219	46	1.14	0.62	0.10	100
3533	205	226	< 0.2	11.40	200	1.0	< 2	0.11	< 0.5	27	170	49	1.13	0.81	0.12	55
3534	205	226	0.4	8.35	170	0.5	< 2	0.24	< 0.5	34	231	156	3.60	1.14	0.06	90
3559	205	226	< 0.2	2.13	50	< 0.5	< 2	0.03	< 0.5	3	138	6	0.30	0.22	0.01	20
3560	205	226	< 0.2	1.78	40	< 0.5	< 2	0.04	< 0.5	3	166	11	0.43	0.14	< 0.01	30
3561	205	226	< 0.2	2.10	40	< 0.5	< 2	0.03	< 0.5	2	223	9	0.36	0.39	0.01	35
3562	205	226	< 0.2	13.45	190	1.5	< 2	0.14	< 0.5	11	246	66	1.02	0.60	0.11	35
3563	205	226	< 0.2	5.30	60	0.5	< 2	0.06	< 0.5	5	167	15	0.45	0.25	0.03	20
3564	205	226	< 0.2	14.90	190	1.5	< 2	0.12	< 0.5	9	211	40	1.00	0.76	0.10	35
3565	205	226	< 0.2	1.73	50	< 0.5	< 2	0.06	< 0.5	5	243	8	0.70	0.26	0.01	40
3566	205	226	< 0.2	9.11	110	1.5	< 2	0.09	< 0.5	19	200	39	0.68	0.39	0.04	35
3567	205	226	< 0.2	1.81	40	< 0.5	< 2	0.06	< 0.5	7	287	12	0.63	0.29	0.01	40
3568	205	226	< 0.2	12.15	160	1.5	< 2	0.12	< 0.5	35	240	50	0.96	0.50	0.11	40
3569	205	226	< 0.2	9.84	150	1.5	< 2	0.11	< 0.5	17	208	32	0.93	0.41	0.11	45
3570	205	226	< 0.2	8.85	140	1.0	< 2	0.10	< 0.5	19	227	31	0.89	0.36	0.09	60

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

RECEIVED
APR 26 1995
LANDS BRANCH

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

INVOICE NUMBER I9429035

2.1595 6

BILLING INFORMATION

Date: 26-OCT-94
Project: KIPLING
P.O. No.: 0054
Account: KJE

Comments:

Billing: For analysis performed on Certificate A9429035

Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brookebank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
120	205 - Geochem ring to approx 150 mesh	2.50		
	226 - 0-5 lb crush and split	2.05		
	ICP-24	9.95	14.50	1740.00

Total Cost $	1740.00
Client Discount (20%) $	-348.00
Net Cost $	1392.00
(Reg# R100938885) GST $	97.44
TOTAL PAYABLE (CDN) $	**1489.44**

Cost/sample = $1489.44/120 = $12.41

Claimed 26 samples at $12.41 = $323

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

Project : KIPLING
Comments: ATTN: A. CASSELMAN

Certificate Date: 26-OCT-94
Invoice No. : I9429035
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9429035

SAMPLE	PREP CODE		Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)
17109	205	226	< 0.2	0.89	60	< 0.5	< 2	0.04	< 0.5	4	333	6	0.40	0.04	0.02	30
17110	205	226	< 0.2	1.38	60	< 0.5	< 2	0.06	< 0.5	4	189	5	0.26	0.08	0.02	25
17111	205	226	< 0.2	2.50	60	< 0.5	< 2	0.02	< 0.5	2	341	9	0.33	0.07	0.01	20
17112	205	226	< 0.2	2.18	30	< 0.5	< 2	0.02	< 0.5	2	318	6	0.32	0.07	< 0.01	15
17113	205	226	< 0.2	1.25	30	< 0.5	< 2	0.01	< 0.5	1	447	6	0.41	0.09	< 0.01	20
17114	205	226	< 0.2	1.99	60	< 0.5	< 2	0.02	< 0.5	2	383	4	0.32	0.16	0.01	15
17115	205	226	< 0.2	16.65	130	1.0	< 2	0.18	< 0.5	18	291	37	1.51	0.26	0.11	35
17116	205	226	< 0.2	2.67	180	< 0.5	< 2	0.03	< 0.5	3	357	8	0.45	0.13	0.01	20
17117	205	226	< 0.2	15.20	130	1.0	< 2	0.20	< 0.5	18	221	39	1.55	0.21	0.11	45
17118	205	226	< 0.2	1.79	80	< 0.5	< 2	0.02	< 0.5	2	283	4	0.30	0.12	0.01	15
17119	205	226	< 0.2	13.50	150	1.0	< 2	0.13	< 0.5	13	229	30	3.00	0.34	0.11	50
17120	205	226	< 0.2	12.40	160	0.5	< 2	0.11	< 0.5	11	241	38	3.12	0.38	0.10	55
17121	205	226	< 0.2	3.11	40	< 0.5	< 2	0.03	< 0.5	4	294	8	0.48	0.11	0.01	25
17122	205	226	< 0.2	2.01	30	< 0.5	< 2	0.02	< 0.5	3	248	4	0.36	0.08	0.01	15
17123	205	226	< 0.2	12.00	150	1.0	< 2	0.10	< 0.5	10	196	27	1.09	0.35	0.09	35
17124	205	226	< 0.2	1.77	30	< 0.5	< 2	0.02	< 0.5	2	234	4	0.33	0.08	0.01	20
17125	205	226	< 0.2	1.57	30	< 0.5	< 2	0.02	< 0.5	3	286	6	0.37	0.08	0.01	20
17126	205	226	< 0.2	1.61	40	< 0.5	< 2	0.02	< 0.5	2	281	3	0.26	0.13	< 0.01	15
17127	205	226	< 0.2	1.40	40	< 0.5	< 2	0.02	< 0.5	2	364	11	0.27	0.14	< 0.01	15
17128	205	226	< 0.2	1.33	20	< 0.5	< 2	0.01	< 0.5	2	361	2	0.30	0.08	< 0.01	15
17151	205	226	< 0.2	3.16	450	< 0.5	< 2	0.73	< 0.5	12	264	12	1.97	0.98	0.29	375
17153	205	226	< 0.2	0.80	2470	< 0.5	< 2	0.03	< 0.5	5	307	4	0.38	0.03	< 0.01	30
17154	205	226	< 0.2	0.71	2740	< 0.5	< 2	0.01	< 0.5	3	283	4	0.34	0.01	< 0.01	20
17155	205	226	< 0.2	1.31	20	< 0.5	< 2	0.01	< 0.5	5	332	8	0.48	0.02	< 0.01	30
17156	205	226	< 0.2	1.42	20	< 0.5	< 2	0.01	< 0.5	3	277	6	0.36	0.02	< 0.01	25
17157	205	226	< 0.2	1.41	20	< 0.5	< 2	0.01	< 0.5	2	334	6	0.38	0.02	< 0.01	20
17159	205	226	< 0.2	2.71	30	< 0.5	< 2	0.02	< 0.5	4	266	5	0.35	0.07	0.01	30
17160	205	226	< 0.2	14.25	200	1.5	< 2	0.11	< 0.5	13	255	37	1.25	0.41	0.09	30
17161	205	226	< 0.2	2.06	30	< 0.5	< 2	0.02	< 0.5	4	295	8	0.50	0.05	0.01	40
17162	205	226	< 0.2	13.50	160	1.5	< 2	0.11	< 0.5	13	286	22	0.81	0.37	0.08	40
17163	205	226	< 0.2	1.33	20	< 0.5	< 2	0.01	< 0.5	4	215	6	0.33	0.02	< 0.01	25
17164	205	226	< 0.2	1.61	20	< 0.5	< 2	0.01	< 0.5	2	232	4	0.28	0.03	< 0.01	15
17165	205	226	< 0.2	1.95	30	< 0.5	< 2	0.02	< 0.5	3	248	6	0.41	0.03	< 0.01	35
17166	205	226	< 0.2	1.23	20	< 0.5	< 2	0.01	< 0.5	5	341	7	0.45	0.02	< 0.01	30
17167	205	226	< 0.2	1.55	20	< 0.5	< 2	0.02	< 0.5	3	332	6	0.36	0.03	< 0.01	25
17168	205	226	< 0.2	14.00	210	1.5	< 2	0.11	< 0.5	11	183	16	1.34	0.49	0.09	85
17169	205	226	< 0.2	2.69	30	< 0.5	< 2	0.04	< 0.5	4	340	8	0.82	0.06	0.01	80
17170	205	226	< 0.2	2.40	30	< 0.5	< 2	0.02	< 0.5	2	338	7	0.41	0.07	0.01	20
17171	205	226	< 0.2	12.80	180	1.5	< 2	0.10	< 0.5	7	183	21	0.77	0.43	0.08	40
17201	205	226	< 0.2	3.06	400	< 0.5	< 2	0.64	< 0.5	9	316	9	1.21	1.01	0.28	410

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

[redacted]

Project : KIPLING
Comments: ATTN: A. CASSELMAN

Certificate Date: 26-OCT-94
Invoice No. : I9429035
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9429035

SAMPLE	PREP CODE		Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)
17202	205	226	< 0.2	3.90	90	< 0.5	< 2	0.09	< 0.5	6	197	9	0.41	0.20	0.04	60
17203	205	226	< 0.2	10.70	110	1.0	< 2	0.15	< 0.5	13	214	80	1.01	0.23	0.07	50
17204	205	226	< 0.2	3.57	40	< 0.5	< 2	0.03	< 0.5	2	249	4	0.34	0.10	0.01	20
17205	205	226	< 0.2	6.49	80	0.5	2	0.06	< 0.5	6	336	13	0.53	0.19	0.03	40
17206	205	226	< 0.2	3.55	40	< 0.5	< 2	0.03	< 0.5	3	251	3	0.30	0.10	0.01	20
17207	205	226	< 0.2	1.33	30	< 0.5	< 2	0.02	< 0.5	2	372	6	0.39	0.04	< 0.01	45
17208	205	226	< 0.2	1.68	20	< 0.5	6	0.02	< 0.5	3	270	4	0.33	0.04	< 0.01	25
17209	205	226	< 0.2	3.62	40	< 0.5	< 2	0.03	< 0.5	6	293	10	0.46	0.08	0.01	35
17210	205	226	< 0.2	2.50	30	< 0.5	4	0.03	< 0.5	3	317	6	0.40	0.06	0.01	30
17211	205	226	< 0.2	1.71	20	< 0.5	< 2	0.03	< 0.5	3	352	6	0.59	0.03	< 0.01	60
17212	205	226	< 0.2	0.52	10	< 0.5	2	0.01	< 0.5	2	244	4	0.34	0.01	< 0.01	20
17213	205	226	< 0.2	1.57	20	< 0.5	2	0.01	< 0.5	5	310	8	0.41	0.03	< 0.01	30
17214	205	226	< 0.2	0.72	20	< 0.5	< 2	0.01	< 0.5	5	233	4	0.27	0.01	< 0.01	15
17215	205	226	< 0.2	1.58	30	< 0.5	< 2	0.01	< 0.5	2	327	4	0.28	0.03	< 0.01	10
17216	205	226	< 0.2	1.68	20	< 0.5	< 2	0.02	< 0.5	3	344	4	0.46	0.03	< 0.01	40
17217	205	226	< 0.2	0.83	20	< 0.5	2	0.02	< 0.5	3	520	6	0.52	0.02	< 0.01	35
17218	205	226	< 0.2	1.49	50	< 0.5	< 2	0.03	< 0.5	3	331	3	0.70	0.11	< 0.01	75
17219	205	226	< 0.2	1.72	40	< 0.5	< 2	0.03	< 0.5	3	346	4	0.55	0.12	< 0.01	45
17220	205	226	< 0.2	12.05	130	1.0	< 2	0.15	< 0.5	13	233	40	2.10	0.22	0.08	40
17221	205	226	< 0.2	5.17	90	0.5	< 2	0.06	< 0.5	7	304	10	0.65	0.18	0.03	50
17222	205	226	< 0.2	2.06	70	< 0.5	2	0.02	< 0.5	3	250	5	0.36	0.15	0.01	30
17223	205	226	< 0.2	1.78	80	< 0.5	2	0.03	< 0.5	3	331	8	0.45	0.23	0.01	30
17224	205	226	< 0.2	11.35	180	1.0	< 2	0.17	< 0.5	66	269	89	2.10	0.39	0.09	150
17225	205	226	< 0.2	3.45	90	< 0.5	< 2	0.07	< 0.5	6	412	20	0.99	0.23	0.02	55
17226	205	226	< 0.2	15.10	200	1.5	2	0.16	< 0.5	17	261	45	2.40	0.57	0.14	50
17251	205	226	< 0.2	13.25	160	1.5	2	0.16	< 0.5	16	275	45	3.09	0.39	0.10	65
17252	205	226	< 0.2	6.36	90	0.5	2	0.08	< 0.5	12	203	23	0.68	0.17	0.04	45
17253	205	226	< 0.2	1.74	60	< 0.5	< 2	0.16	< 0.5	3	246	4	0.33	0.17	0.06	20
17254	205	226	< 0.2	1.75	60	< 0.5	< 2	0.06	< 0.5	2	280	5	0.31	0.14	0.02	20
17255	205	226	< 0.2	2.16	70	< 0.5	< 2	0.26	< 0.5	4	273	7	0.47	0.16	0.09	35
17256	205	226	< 0.2	1.24	40	< 0.5	2	0.02	< 0.5	1	274	4	0.31	0.09	< 0.01	20
17257	205	226	< 0.2	1.52	40	< 0.5	< 2	0.02	< 0.5	1	407	4	0.36	0.12	< 0.01	20
17258	205	226	< 0.2	15.10	250	3.0	< 2	0.18	< 0.5	18	265	39	1.24	0.42	0.11	35
17259	205	226	< 0.2	8.72	110	1.0	< 2	0.10	< 0.5	21	287	73	0.65	0.24	0.07	55
17260	205	226	< 0.2	9.83	150	2.0	< 2	0.14	< 0.5	61	216	48	0.64	0.37	0.09	50
17261	205	226	< 0.2	11.70	170	3.0	2	0.18	< 0.5	62	280	59	0.91	0.46	0.11	50
17262	205	226	< 0.2	9.34	160	2.5	< 2	0.17	< 0.5	68	253	63	0.72	0.44	0.12	50
17263	205	226	< 0.2	13.45	190	3.0	< 2	0.15	< 0.5	16	205	22	1.46	0.42	0.11	75
17301	205	226	< 0.2	1.96	40	< 0.5	< 2	0.32	< 0.5	4	329	4	0.46	0.08	0.07	35
17302	205	226	< 0.2	1.63	30	< 0.5	< 2	0.04	< 0.5	4	496	6	0.47	0.04	0.01	20

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

INVOICE NUMBER I9429034

BILLING INFORMATION

Date: 26-OCT-94
Project: KIPLING
P.O. No.: 0054
Account: KJE

Comments:

RECEIVED
APR 26 1995
MINING LAB

Billing: For analysis performed on Certificate A9429034

Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
120	205 - Geochem ring to approx 150 mesh	2.50		
	226 - 0-5 lb crush and split	2.05		
	ICP-24	9.95	14.50	1740.00

Total Cost $	1740.00
Client Discount (20%) $	-348.00
Net Cost $	1392.00
Reg# R100938885) GST $	97.44
TOTAL PAYABLE (CDN) $	1489.44

Cost/sample = $1489.44/120 = $12.41
Claimed 8 × $12.41 = $99

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

Project : KIPLING
Comments: ATTN: A. CASSELMAN

000078

Certificate Date: 26-OCT-94
Invoice No. : I9429034
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9429034

SAMPLE	PREP CODE		Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)
3571	205	226	< 0.2	4.22	80	0.5	< 2	0.06	< 0.5	5	139	7	0.64	0.19	0.03	70
3572	205	226	< 0.2	2.07	60	< 0.5	< 2	0.03	< 0.5	5	206	6	0.38	0.16	0.01	35
3573	205	226	< 0.2	1.65	40	< 0.5	< 2	0.02	< 0.5	3	201	4	0.33	0.12	0.01	30
3574	205	226	< 0.2	1.87	40	< 0.5	< 2	0.02	< 0.5	1	245	4	0.28	0.15	< 0.01	20
3575	205	226	< 0.2	2.18	50	< 0.5	< 2	0.02	< 0.5	2	258	3	0.29	0.20	< 0.01	20
15451	205	226	< 0.2	11.15	130	1.0	< 2	0.16	< 0.5	13	220	35	2.65	0.29	0.09	95
15452	205	226	< 0.2	13.20	170	1.5	< 2	0.18	< 0.5	15	237	55	5.98	0.45	0.12	185
15453	205	226	< 0.2	12.15	160	1.5	< 2	0.16	< 0.5	18	215	79	3.60	0.44	0.11	115
15454	205	226	< 0.2	5.85	90	0.5	< 2	0.06	< 0.5	7	190	26	0.69	0.24	0.04	35
15455	205	226	< 0.2	1.30	40	< 0.5	< 2	0.06	< 0.5	2	276	10	0.65	0.18	0.01	50
15456	205	226	< 0.2	1.99	50	< 0.5	2	0.03	< 0.5	3	188	7	0.40	0.32	0.01	35
15457	205	226	< 0.2	1.61	30	< 0.5	< 2	0.05	< 0.5	2	336	10	0.41	0.16	0.01	30
15458	205	226	< 0.2	1.83	30	< 0.5	< 2	0.02	< 0.5	2	253	8	0.32	0.56	0.01	25
15751	205	226	< 0.2	14.30	150	1.5	< 2	0.28	< 0.5	13	234	37	1.13	0.34	0.13	50
15752	205	226	< 0.2	3.15	50	< 0.5	< 2	0.12	< 0.5	3	264	12	0.51	0.11	0.03	30
15753	205	226	< 0.2	2.02	40	< 0.5	< 2	0.20	< 0.5	4	288	8	0.41	0.11	0.04	35
15754	205	226	< 0.2	1.62	30	< 0.5	< 2	0.02	< 0.5	1	212	4	0.25	0.07	< 0.01	15
15755	205	226	< 0.2	1.22	20	< 0.5	< 2	0.02	< 0.5	2	332	6	0.31	0.03	< 0.01	15
15756	205	226	< 0.2	1.02	20	< 0.5	< 2	0.01	< 0.5	5	271	8	0.31	0.03	< 0.01	20
15757	205	226	< 0.2	1.82	20	< 0.5	< 2	0.02	< 0.5	1	349	13	0.30	0.04	< 0.01	15
15758	205	226	< 0.2	0.98	20	< 0.5	< 2	0.02	< 0.5	1	262	11	0.27	0.02	< 0.01	15
15759	205	226	< 0.2	1.52	20	< 0.5	< 2	0.02	< 0.5	1	358	9	0.37	0.02	< 0.01	25
15760	205	226	< 0.2	1.18	20	< 0.5	< 2	0.01	< 0.5	3	335	7	0.38	0.03	< 0.01	30
15761	205	226	< 0.2	2.16	40	< 0.5	2	0.02	< 0.5	3	367	9	0.40	0.10	0.01	35
15762	205	226	< 0.2	1.16	60	< 0.5	< 2	0.01	< 0.5	1	305	6	0.27	0.23	< 0.01	15
15763	205	226	< 0.2	0.57	40	< 0.5	< 2	0.21	< 0.5	6	368	9	2.48	0.16	< 0.01	150
15764	205	226	< 0.2	13.55	160	1.0	< 2	0.13	< 0.5	33	282	49	2.72	0.39	0.11	50
15765	205	226	< 0.2	12.15	160	1.0	< 2	0.11	< 0.5	11	195	52	4.90	0.42	0.12	110
15766	205	226	< 0.2	9.99	120	0.5	< 2	0.09	< 0.5	22	153	48	1.49	0.32	0.08	100
15767	205	226	< 0.2	10.70	140	1.0	< 2	0.10	1.0	11	158	68	9.72	0.38	0.10	140
15768	205	226	< 0.2	13.05	170	1.5	< 2	0.13	< 0.5	54	202	75	1.72	0.46	0.11	65
15769	205	226	< 0.2	15.55	200	2.0	< 2	0.16	< 0.5	31	205	81	2.06	0.54	0.15	60
15770	205	226	< 0.2	15.30	170	1.5	< 2	0.10	< 0.5	13	165	71	3.38	0.50	0.14	70
15771	205	226	< 0.2	15.30	160	3.0	< 2	0.12	< 0.5	16	227	55	6.51	0.49	0.15	95
15772	205	226	< 0.2	13.60	170	3.5	< 2	0.14	< 0.5	15	202	38	7.03	0.39	0.15	175
15773	205	226	< 0.2	4.73	80	0.5	< 2	0.04	< 0.5	28	220	20	2.23	0.28	0.04	200
15774	205	226	< 0.2	8.05	120	1.0	< 2	0.09	< 0.5	24	183	31	2.22	0.31	0.09	290
15775	205	226	< 0.2	14.05	170	2.0	< 2	0.16	< 0.5	39	242	69	1.54	0.46	0.17	70
15776	205	226	< 0.2	16.70	130	3.5	< 2	0.27	< 0.5	32	239	85	1.44	0.19	0.12	165
15777	205	226	< 0.2	5.91	230	0.5	< 2	0.07	< 0.5	21	229	21	1.04	0.14	0.04	115

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

INVOICE NUMBER I9430175

BILLING INFORMATION

Date: 22-NOV-94
Project: KIPLING
P.O. No.: 0054
Account: KJE

Comments:

RECEIVED
APR 26 1995
MINING LANDS BRANCH

Billing: For analysis performed on Certificate A9430175

Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
101	205 - Geochem ring to approx 150 mesh	2.50		
	226 - 0-5 lb crush and split	2.05		
	A-12 W.R.A ICP	21.00	25.55	2580.55

2.1595 6

Total Cost	$	2580.55
Client Discount (20%)	$	-516.11
Net Cost	$	2064.44
(Reg# R100938885) GST	$	144.51
TOTAL PAYABLE (CDN)	**$**	**2208.95**

Cost/sample = $2,208.95/101 = $21.87

Claimed 20 samples at $21.87 = $437

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

1 INDUSTRI...
PARRY SOUND, ON
P2A 2W8

000078

Project : KIPLING
Comments: ATTN: A. CASSELMAN

Certificate Date: 21-NOV-94
Invoice No. : I9430175
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9430175

SAMPLE	PREP CODE		Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %
15385	205	226	8.07	0.14	< 0.01	1.20	0.13	0.15	< 0.01	0.18	0.06	85.90	0.37	3.50	99.70
15386	205	226	5.45	0.10	< 0.01	0.81	0.18	0.12	< 0.01	0.20	0.03	90.30	0.26	2.26	99.71
15387	205	226	3.02	0.07	< 0.01	0.41	0.16	0.10	< 0.01	0.17	0.03	94.00	0.15	1.10	99.21
15388	205	226	29.61	0.20	< 0.01	1.08	0.44	0.24	< 0.01	0.19	0.05	54.80	1.22	11.29	99.12
15389	205	226	6.34	0.07	< 0.01	0.50	0.17	0.11	< 0.01	0.16	0.03	90.10	0.35	2.44	100.25
15390	205	226	6.32	0.07	< 0.01	0.55	0.16	0.11	< 0.01	0.14	0.03	90.00	0.35	2.58	100.30
15391	205	226	5.04	0.02	< 0.01	0.40	0.21	0.08	< 0.01	0.08	< 0.01	91.60	0.34	1.98	99.75
15392	205	226	4.30	0.01	< 0.01	0.34	0.22	0.07	< 0.01	0.06	< 0.01	92.70	0.18	1.59	99.47
15393	205	226	6.11	0.07	< 0.01	0.57	0.22	0.11	< 0.01	0.14	0.02	89.80	0.26	2.34	99.64
15394	205	226	27.11	0.22	< 0.01	0.97	0.23	0.21	< 0.01	0.11	0.06	59.60	1.23	10.73	100.45
15459	205	226	2.22	0.03	< 0.01	0.40	0.09	0.08	< 0.01	0.12	0.01	95.50	0.30	0.87	99.62
15460	205	226	4.23	< 0.01	< 0.01	0.35	0.20	0.06	< 0.01	0.09	< 0.01	92.70	0.11	1.59	99.33
15461	205	226	4.00	< 0.01	< 0.01	0.40	0.18	0.04	< 0.01	0.08	< 0.01	93.80	0.22	1.45	100.15
15462	205	226	21.89	0.16	< 0.01	1.36	0.20	0.19	< 0.01	0.04	0.04	65.90	1.33	8.76	99.87
15463	205	226	19.28	0.10	< 0.01	2.01	0.27	0.16	< 0.01	0.09	0.02	69.00	1.05	7.93	99.91
15464	205	226	19.31	0.10	< 0.01	1.25	0.28	0.16	< 0.01	0.08	0.01	69.70	1.06	7.87	99.82
15465	205	226	10.49	0.08	< 0.01	0.85	0.17	0.11	< 0.01	0.06	0.01	82.60	0.71	4.19	98.97
15466	205	226	3.96	0.01	< 0.01	0.75	0.13	0.06	< 0.01	0.04	< 0.01	92.70	0.14	1.64	99.43
15467	205	226	4.76	0.06	< 0.01	0.44	0.12	0.09	< 0.01	0.13	0.03	91.60	0.21	1.94	99.38
15468	205	226	4.31	0.11	< 0.01	0.56	0.12	0.13	< 0.01	0.15	0.08	92.80	0.25	1.64	100.15
15469	205	226	3.86	0.11	< 0.01	0.36	0.10	0.12	< 0.01	0.15	0.04	93.40	0.17	1.45	99.76
15470	205	226	4.39	0.07	< 0.01	0.35	0.12	0.11	< 0.01	0.09	0.02	93.00	0.15	1.67	99.97
15471	205	226	2.52	0.08	< 0.01	0.42	0.13	0.11	< 0.01	0.12	0.03	95.00	0.11	0.86	99.38
15472	205	226	1.82	0.09	< 0.01	0.62	0.07	0.11	< 0.01	0.13	0.04	96.10	0.07	0.64	99.69
15473	205	226	1.79	0.11	< 0.01	0.40	0.08	0.12	< 0.01	0.16	0.06	95.90	0.05	0.58	99.25
15474	205	226	2.04	0.04	< 0.01	0.16	0.05	0.08	< 0.01	0.04	0.02	96.50	0.06	0.78	99.77
15475	205	226	3.79	0.08	< 0.01	0.31	0.10	0.11	< 0.01	0.09	0.04	92.80	0.11	1.40	98.83
15476	205	226	5.53	0.06	< 0.01	0.42	0.08	0.10	< 0.01	0.06	0.04	90.30	0.25	2.14	98.98
15477	205	226	5.11	0.07	< 0.01	0.31	0.08	0.11	< 0.01	0.07	0.03	91.20	0.20	1.91	99.09
15478	205	226	7.22	0.09	< 0.01	0.37	0.09	0.12	< 0.01	0.10	0.04	88.60	0.29	2.65	99.57
15551	205	226	1.33	0.23	< 0.01	0.45	0.07	0.15	< 0.01	0.13	0.05	96.00	0.08	0.56	99.05
15552	205	226	2.47	0.92	< 0.01	0.51	0.17	0.32	< 0.01	0.22	0.05	92.90	0.09	1.49	99.14
15553	205	226	4.70	0.13	< 0.01	0.40	0.14	0.14	< 0.01	0.12	0.04	91.20	0.15	1.71	98.73
15554	205	226	9.97	1.99	< 0.01	1.34	0.41	0.72	< 0.01	0.36	0.10	78.50	0.30	5.35	99.04
15555	205	226	2.53	0.34	< 0.01	0.51	0.11	0.20	< 0.01	0.21	0.07	93.90	0.09	1.05	99.01
15556	205	226	6.38	0.15	< 0.01	0.45	0.20	0.15	< 0.01	0.13	0.06	89.80	0.20	2.32	99.84
15557	205	226	6.82	0.09	< 0.01	0.43	0.25	0.09	< 0.01	< 0.01	0.01	89.00	0.16	2.56	99.41
15558	205	226	4.64	0.26	< 0.01	1.12	0.18	0.10	< 0.01	< 0.01	0.01	90.60	0.13	2.01	99.05
15559	205	226	10.15	0.36	< 0.01	1.93	0.26	0.19	0.01	0.08	0.04	81.50	0.34	4.66	99.52
15560	205	226	9.42	13.73	< 0.01	2.42	1.80	4.12	0.04	1.99	0.09	51.60	0.31	14.13	99.65

CERTIFICATION: Hart Bochner

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

INVOICE NUMBER I9430175

BILLING INFORMATION

Date: 22-NOV-94
Project: KIPLING
P.O. No.: 0054
Account: KJE

APR 26 1995
MINING LANDS BRANCH

Comments:

Billing: For analysis performed on Certificate A9430175

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
101	205 - Geochem ring to approx 150 mesh	2.50		
	226 - 0-5 lb crush and split	2.05		
	A-12 W.R.A ICP	21.00	25.55	2580.55

Total Cost $	2580.55
Client Discount (20%) $	-516.11
Net Cost $	2064.44
(Reg# R100938885) GST $	144.51
TOTAL PAYABLE (CDN) $	2208.95

Claimed 30 samples at $21.87 = $656

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

Project : KIPLING
Comments: ATTN: A. CASSELMAN

Certificate Date: 21-NOV-94
Invoice No. : I9430175
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9430175

SAMPLE	PREP CODE		Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %
15385	205	226	8.07	0.14	< 0.01	1.20	0.13	0.15	< 0.01	0.18	0.06	85.90	0.37	3.50	99.70
15386	205	226	5.45	0.10	< 0.01	0.81	0.18	0.12	< 0.01	0.20	0.03	90.30	0.26	2.26	99.71
15387	205	226	3.02	0.07	< 0.01	0.41	0.16	0.10	< 0.01	0.17	0.03	94.00	0.15	1.10	99.21
15388	205	226	29.61	0.20	< 0.01	1.08	0.44	0.24	< 0.01	0.19	0.05	54.80	1.22	11.29	99.12
15389	205	226	6.34	0.07	< 0.01	0.50	0.17	0.11	< 0.01	0.16	0.03	90.10	0.35	2.44	100.25
15390	205	226	6.32	0.07	< 0.01	0.55	0.16	0.11	< 0.01	0.14	0.03	90.00	0.35	2.58	100.30
15391	205	226	5.04	0.02	< 0.01	0.40	0.21	0.08	< 0.01	0.08	< 0.01	91.60	0.34	1.98	99.75
15392	205	226	4.30	0.01	< 0.01	0.34	0.22	0.07	< 0.01	0.06	< 0.01	92.70	0.18	1.59	99.47
15393	205	226	6.11	0.07	< 0.01	0.57	0.22	0.11	< 0.01	0.14	0.02	89.80	0.26	2.34	99.64
15394	205	226	27.11	0.22	< 0.01	0.97	0.23	0.21	< 0.01	0.11	0.06	59.60	1.23	10.73	100.45
15459	205	226	2.22	0.03	< 0.01	0.40	0.09	0.08	< 0.01	0.12	0.01	95.50	0.30	0.87	99.62
15460	205	226	4.23	< 0.01	< 0.01	0.35	0.20	0.06	< 0.01	0.09	< 0.01	92.70	0.11	1.59	99.33
15461	205	226	4.00	< 0.01	< 0.01	0.40	0.18	0.04	< 0.01	0.08	< 0.01	93.80	0.22	1.45	100.15
15462	205	226	21.89	0.16	< 0.01	1.36	0.20	0.19	< 0.01	0.04	0.04	65.90	1.33	8.76	99.87
15463	205	226	19.28	0.10	< 0.01	2.01	0.27	0.16	< 0.01	0.09	0.02	69.00	1.05	7.93	99.91
15464	205	226	19.31	0.10	< 0.01	1.25	0.28	0.16	< 0.01	0.08	0.01	69.70	1.06	7.87	99.82
15465	205	226	10.49	0.08	< 0.01	0.55	0.17	0.11	< 0.01	0.06	0.01	82.60	0.71	4.19	98.97
15466	205	226	3.96	0.01	< 0.01	0.75	0.13	0.06	< 0.01	0.04	< 0.01	92.70	0.14	1.64	99.43
15467	205	226	4.76	0.06	< 0.01	0.44	0.12	0.09	< 0.01	0.13	0.03	91.60	0.21	1.94	99.38
15468	205	226	4.31	0.11	< 0.01	0.56	0.12	0.13	< 0.01	0.15	0.08	92.80	0.25	1.64	100.15
15469	205	226	3.86	0.11	< 0.01	0.36	0.10	0.12	< 0.01	0.15	0.04	93.40	0.17	1.45	99.76
15470	205	226	4.39	0.07	< 0.01	0.35	0.12	0.11	< 0.01	0.09	0.02	93.00	0.15	1.67	99.97
15471	205	226	2.52	0.08	< 0.01	0.42	0.13	0.11	< 0.01	0.12	0.03	95.00	0.11	0.86	99.38
15472	205	226	1.82	0.09	< 0.01	0.62	0.07	0.11	< 0.01	0.13	0.04	96.10	0.07	0.64	99.69
15473	205	226	1.79	0.11	< 0.01	0.40	0.08	0.12	< 0.01	0.16	0.06	95.90	0.05	0.58	99.25
15474	205	226	2.04	0.04	< 0.01	0.16	0.05	0.08	< 0.01	0.04	0.02	96.50	0.06	0.78	99.77
15475	205	226	3.79	0.08	< 0.01	0.31	0.10	0.11	< 0.01	0.09	0.04	92.80	0.11	1.40	98.83
15476	205	226	5.53	0.06	< 0.01	0.42	0.08	0.10	< 0.01	0.06	0.04	90.30	0.25	2.14	98.98
15477	205	226	5.11	0.07	< 0.01	0.31	0.08	0.11	< 0.01	0.07	0.03	91.20	0.20	1.91	99.09
15478	205	226	7.22	0.09	< 0.01	0.37	0.09	0.12	< 0.01	0.10	0.04	88.60	0.29	2.65	99.57
15551	205	226	1.33	0.23	< 0.01	0.45	0.07	0.15	< 0.01	0.13	0.05	96.00	0.08	0.56	99.05
15552	205	226	2.47	0.92	< 0.01	0.51	0.17	0.32	< 0.01	0.22	0.05	92.90	0.09	1.49	99.14
15553	205	226	4.70	0.13	< 0.01	0.40	0.14	0.14	< 0.01	0.12	0.04	91.20	0.15	1.71	98.73
15554	205	226	9.97	1.99	< 0.01	1.34	0.41	0.72	< 0.01	0.36	0.10	78.50	0.30	5.35	99.04
15555	205	226	2.53	0.34	< 0.01	0.51	0.11	0.20	< 0.01	0.21	0.07	93.90	0.09	1.05	99.01
15556	205	226	6.38	0.15	< 0.01	0.45	0.20	0.15	< 0.01	0.13	0.06	89.80	0.20	2.32	99.84
15557	205	226	6.82	0.09	< 0.01	0.43	0.25	0.09	< 0.01	< 0.01	0.01	89.00	0.16	2.56	99.41
15558	205	226	4.64	0.26	< 0.01	1.12	0.18	0.10	< 0.01	< 0.01	0.01	90.60	0.13	2.01	99.05
15559	205	226	10.15	0.36	< 0.01	1.93	0.26	0.19	0.01	0.08	0.04	81.50	0.34	4.66	99.52
15560	205	226	9.42	13.73	< 0.01	2.42	1.80	4.12	0.04	1.99	0.09	51.60	0.31	14.13	99.65

CERTIFICATION: Stewart Buchler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

Project : KIPLING
Comments: ATTN: A. CASSELMAN

000078

Certificate Date: 21-NOV-94
Invoice No. : I9430175
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9430175

SAMPLE	PREP CODE		Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %
15561	205	226	24.17	0.70	< 0.01	1.20	0.60	0.46	< 0.01	0.24	0.07	47.50	1.15	24.68	100.75
15562	205	226	11.15	0.39	< 0.01	1.38	0.24	0.26	< 0.01	0.26	0.08	79.70	0.75	6.01	100.20
15563	205	226	19.40	0.57	< 0.01	0.85	0.48	0.38	< 0.01	0.19	0.07	53.10	1.01	25.12	101.15
15564	205	226	6.80	0.13	< 0.01	0.87	0.27	0.14	< 0.01	0.14	0.04	87.60	0.44	2.88	99.31
15565	205	226	3.38	0.02	< 0.01	0.35	0.26	0.08	< 0.01	0.11	< 0.01	93.00	0.19	1.21	98.60
15566	205	226	24.76	0.45	< 0.01	1.07	0.38	0.23	< 0.01	0.16	0.06	57.10	1.12	14.14	99.47
15567	205	226	29.10	0.31	< 0.01	1.20	0.44	0.23	< 0.01	0.11	0.05	51.60	1.10	14.49	98.63
15568	205	226	6.74	0.21	< 0.01	0.81	0.40	0.13	< 0.01	0.12	0.01	85.30	0.30	4.80	98.82
15569	205	226	28.28	0.41	< 0.01	1.23	0.45	0.26	< 0.01	0.15	0.06	50.30	1.08	17.62	99.84
15570	205	226	28.83	0.42	< 0.01	1.17	0.46	0.26	< 0.01	0.08	0.04	49.20	1.12	17.82	99.40
15571	205	226	23.17	0.27	< 0.01	1.00	0.36	0.19	< 0.01	0.06	0.03	61.50	1.17	11.72	99.47
15572	205	226	27.83	0.39	< 0.01	1.14	0.38	0.23	< 0.01	0.04	0.03	52.10	1.15	16.80	100.10
15573	205	226	23.22	0.31	< 0.01	1.01	0.36	0.22	< 0.01	0.13	0.04	60.80	1.16	11.90	99.15
15574	205	226	10.47	0.11	< 0.01	0.53	0.35	0.12	< 0.01	0.04	0.01	82.00	0.64	4.58	98.85
15575	205	226	11.96	0.15	< 0.01	0.77	0.28	0.15	< 0.01	0.16	0.03	80.20	0.69	5.07	99.46
15576	205	226	6.08	0.10	< 0.01	0.86	0.18	0.11	0.01	0.11	0.02	89.30	0.57	2.46	99.80
15577	205	226	4.49	0.06	< 0.01	0.48	0.20	0.09	< 0.01	0.05	0.02	91.60	0.54	1.76	99.29
15578	205	226	3.91	0.04	< 0.01	0.46	0.15	0.08	< 0.01	0.04	< 0.01	92.80	0.20	1.45	99.13
15579	205	226	3.74	0.05	< 0.01	0.30	0.10	0.08	< 0.01	0.05	0.01	93.00	0.25	1.36	98.94
15580	205	226	3.39	0.08	< 0.01	0.58	0.58	0.09	< 0.01	0.06	0.02	93.30	0.25	1.33	99.68
15974	205	226	32.43	0.37	< 0.01	2.72	0.49	0.35	< 0.01	0.11	0.03	46.40	1.23	15.54	99.67
15975	205	226	23.82	0.06	< 0.01	7.76	0.46	0.25	0.04	0.08	< 0.01	55.00	1.03	12.19	100.70
15976	205	226	27.26	0.14	< 0.01	7.40	0.55	0.31	0.05	0.06	0.01	50.10	1.05	13.54	100.45
15977	205	226	29.23	0.25	< 0.01	7.39	0.60	0.39	0.16	0.14	0.08	47.00	1.08	14.49	100.80
15978	205	226	16.68	0.13	< 0.01	6.73	0.43	0.24	0.08	0.09	0.02	65.80	0.91	9.60	100.70
15979	205	226	27.83	0.22	< 0.01	7.33	0.59	0.35	0.07	0.05	0.02	48.60	1.07	14.25	100.40
15980	205	226	24.50	0.28	< 0.01	5.12	0.31	0.33	0.07	0.02	0.04	56.40	1.38	12.29	100.75
15981	205	226	23.54	0.24	< 0.01	11.41	0.48	0.36	0.09	0.03	0.06	49.10	1.24	13.25	99.80
15982	205	226	24.70	0.25	< 0.01	6.42	0.61	0.39	0.01	0.04	0.11	57.00	1.33	10.28	101.15
15983	205	226	2.04	0.11	< 0.01	1.34	0.16	0.10	0.01	< 0.01	0.03	92.30	0.13	1.24	97.46
15984	205	226	3.62	0.08	< 0.01	0.46	0.20	0.10	< 0.01	< 0.01	0.02	92.80	0.10	1.40	98.78
15985	205	226	3.14	0.08	< 0.01	0.43	0.15	0.10	< 0.01	0.03	0.01	93.80	0.06	1.12	98.92
15986	205	226	2.55	< 0.01	< 0.01	0.22	0.10	0.06	< 0.01	< 0.01	< 0.01	95.00	0.10	0.92	98.95
15987	205	226	2.56	0.08	< 0.01	0.11	0.09	0.09	< 0.01	0.02	0.02	94.90	0.11	0.88	98.86
15988	205	226	1.28	0.08	< 0.01	0.34	0.08	0.10	< 0.01	0.02	0.01	95.90	0.10	0.46	98.37
15989	205	226	23.92	0.39	< 0.01	1.31	0.49	0.32	< 0.01	0.07	0.07	59.70	1.30	11.10	98.67
15990	205	226	23.03	0.46	< 0.01	0.97	0.46	0.31	< 0.01	0.04	0.05	56.70	1.29	16.18	99.49
15991	205	226	13.31	0.15	< 0.01	0.68	0.27	0.18	< 0.01	< 0.01	0.02	78.30	0.75	5.86	99.52
15992	205	226	25.69	0.31	< 0.01	1.29	0.57	0.31	< 0.01	< 0.01	0.04	58.30	1.35	11.23	99.09
15993	205	226	2.98	0.10	< 0.01	0.46	0.06	0.11	< 0.01	0.05	0.07	93.00	0.15	1.09	98.07

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

INVOICE NUMBER I9427479

BILLING INFORMATION

RECEIVED
APR 26 1995
MINING LANDS DIVISION

Date: 13-OCT-94
Project: KIPLING
P.O. No.: 0054
Account: KJE

Comments:

Billing: For analysis performed on Certificate A9427479

Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
120	208 - Assay ring to approx 150 mesh	2.50		
	226 - 0-5 lb crush and split	2.05		
	A-12 W.R.A ICP	21.00	25.55	3066.00

2.1595 6

Total Cost $	3066.00
Client Discount (20%) $	-613.20
Net Cost $	2452.80
(Reg# R100938885) GST $	171.70
TOTAL PAYABLE (CDN) $	2624.50

Claimed 23 Samples at $21.87 = $503

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

Project : KIPLING
Comments: ATTN: M. MARTIN & A. CASSELMAN

000078

Certificate Date: 13-OCT-94
Invoice No. : I9427479
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9427479

SAMPLE	PREP CODE		Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %
4702	208	226	1.78	0.13	0.07	0.52	0.13	0.12	< 0.01	0.10	0.04	95.00	0.07	0.60	98.56
4703	208	226	14.86	0.27	0.07	1.52	0.30	0.23	0.01	0.12	0.08	75.50	0.94	6.27	100.15
4704	208	226	2.94	0.15	0.08	0.67	0.14	0.14	< 0.01	0.13	0.07	93.90	0.27	1.15	99.64
4705	208	226	28.63	0.35	0.03	1.20	0.16	0.32	< 0.01	0.13	0.19	54.70	1.34	12.59	99.64
4706	208	226	27.46	0.30	0.04	4.91	0.40	0.35	0.01	0.15	0.22	52.00	1.27	11.97	99.08
4707	208	226	21.87	0.25	0.01	1.68	0.39	0.29	< 0.01	0.10	0.15	62.50	1.21	10.79	99.24
4708	208	226	20.09	0.29	0.03	1.11	0.34	0.27	< 0.01	0.09	0.15	64.00	1.15	11.74	99.26
4709	208	226	6.94	0.24	0.09	0.91	0.15	0.18	< 0.01	0.14	0.08	86.90	0.47	2.96	99.06
4710	208	226	14.50	0.30	0.09	1.58	0.22	0.22	0.01	0.14	0.10	75.10	0.97	5.96	99.19
4711	208	226	2.52	0.08	0.03	0.34	0.09	0.10	< 0.01	0.07	0.04	95.00	0.14	0.88	99.29
4712	208	226	2.06	0.09	0.05	0.34	0.08	0.10	< 0.01	0.11	0.05	96.10	0.06	0.74	99.78
4713	208	226	3.46	0.10	0.06	0.40	0.12	0.11	< 0.01	0.10	0.05	93.90	0.08	1.19	99.57
4714	208	226	2.55	0.11	0.10	0.51	0.09	0.12	< 0.01	0.15	0.06	94.90	0.15	0.91	99.65
4715	208	226	29.72	0.22	< 0.01	0.90	0.49	0.13	< 0.01	0.15	0.18	55.20	1.02	11.66	99.67
4716	208	226	28.94	0.37	0.10	1.30	0.43	0.29	< 0.01	0.20	0.16	51.60	1.03	15.99	100.40
4717	208	226	24.52	0.13	< 0.01	1.56	0.37	0.15	0.01	0.08	0.08	54.60	1.19	16.17	98.86
4718	208	226	15.14	0.24	0.09	1.19	0.25	0.21	0.01	0.15	0.11	73.60	0.98	7.23	99.20
4719	208	226	1.45	0.25	0.10	0.60	0.04	0.15	< 0.01	0.17	0.08	95.00	0.14	0.79	98.77
4720	208	226	2.70	0.26	0.11	0.65	0.06	0.15	< 0.01	0.15	0.07	94.00	0.13	1.23	99.51
4721	208	226	6.87	0.13	0.08	0.87	0.09	0.12	< 0.01	0.16	0.07	88.20	0.30	2.78	99.67
4722	208	226	20.95	0.17	< 0.01	1.10	0.22	0.14	< 0.01	< 0.01	0.07	63.90	0.80	11.62	98.97
4723	208	226	3.43	0.43	0.07	0.87	0.08	0.16	< 0.01	0.16	0.06	92.30	0.13	1.92	99.61
4724	208	226	26.32	0.54	< 0.01	0.94	0.22	0.28	< 0.01	< 0.01	0.10	44.40	0.84	26.33	99.97
4725	208	226	23.22	0.29	< 0.01	1.15	0.48	0.28	< 0.01	< 0.01	0.11	53.90	1.08	18.84	99.35
4726	208	226	4.30	0.25	0.05	1.69	0.08	0.15	0.01	0.19	0.10	90.20	0.32	2.48	99.82
4727	208	226	3.11	0.17	0.05	0.64	0.08	0.14	< 0.01	0.21	0.09	93.00	0.10	1.29	98.88
4728	208	226	2.45	0.16	0.11	0.62	0.07	0.15	< 0.01	0.26	0.11	95.00	0.08	0.82	99.83
4729	208	226	2.80	0.06	< 0.01	0.60	0.06	0.09	< 0.01	0.08	0.04	94.10	0.13	1.12	99.08
4730	208	226	7.72	0.10	< 0.01	0.82	0.12	0.12	< 0.01	0.11	0.06	87.80	0.28	3.03	100.15
4731	208	226	16.48	0.23	< 0.01	0.76	0.20	0.17	< 0.01	0.12	0.12	72.80	0.90	7.55	99.33
4732	208	226	2.32	0.09	< 0.01	0.54	0.05	0.10	< 0.01	0.11	0.06	95.00	0.06	0.85	99.18
4751	208	226	2.65	0.10	< 0.01	0.43	0.08	0.11	< 0.01	0.15	0.07	94.20	0.07	0.97	98.83
4752	208	226	2.58	0.04	< 0.01	0.31	0.09	0.09	< 0.01	0.05	0.04	94.50	0.06	0.86	98.62
4753	208	226	3.08	0.26	< 0.01	0.43	0.12	0.16	< 0.01	0.16	0.07	93.20	0.09	1.19	98.76
4754	208	226	3.66	0.04	< 0.01	0.60	0.08	0.09	< 0.01	0.03	0.05	92.80	0.15	1.44	98.94
4755	208	226	3.44	0.06	< 0.01	0.30	0.08	0.10	< 0.01	0.09	0.06	93.50	0.16	1.24	99.03
4756	208	226	2.83	0.07	< 0.01	0.28	0.08	0.10	< 0.01	0.10	0.06	93.60	0.16	1.06	98.34
4757	208	226	2.65	0.16	0.06	0.40	0.09	0.15	< 0.01	0.26	0.08	93.40	0.09	0.96	98.30
4758	208	226	3.71	0.24	0.03	1.68	0.13	0.13	0.01	0.19	0.10	91.30	0.10	1.84	99.46
4759	208	226	2.96	0.20	0.09	0.78	0.10	0.15	< 0.01	0.28	0.09	92.80	0.08	0.99	98.52

CERTIFICATION: Stewart Bachler

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Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga,
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PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

Project : KIPLING
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Certificate Date: 13-OCT-94
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CERTIFICATE OF ANALYSIS A9427479

SAMPLE	PREP CODE		Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %
4760	208	226	22.68	0.18	< 0.01	1.00	0.31	0.18	< 0.01	0.16	0.09	65.30	0.88	8.74	99.52
4761	208	226	11.97	0.21	< 0.01	1.39	0.23	0.16	< 0.01	0.17	0.08	80.00	0.40	4.87	99.48
4762	208	226	32.78	0.17	< 0.01	1.19	0.66	0.26	< 0.01	< 0.01	0.16	49.90	1.14	13.87	100.15
4763	208	226	33.36	0.24	0.03	1.16	0.49	0.27	< 0.01	0.13	0.08	45.00	1.05	18.37	100.20
4764	208	226	19.63	0.18	< 0.01	1.36	0.35	0.26	< 0.01	0.04	0.14	67.80	1.24	9.19	100.20
4765	208	226	14.87	0.09	< 0.01	0.62	0.22	0.15	< 0.01	0.03	0.06	76.70	0.98	6.11	99.83
4766	208	226	2.61	< 0.01	< 0.01	0.27	0.07	0.06	< 0.01	< 0.01	0.02	95.00	0.16	1.21	99.40
4767	208	226	2.63	< 0.01	< 0.01	0.17	0.07	0.03	< 0.01	< 0.01	0.01	95.90	0.10	1.05	99.96
4768	208	226	8.30	0.14	< 0.01	0.70	0.18	0.20	< 0.01	0.11	0.14	86.00	0.41	3.74	99.92
4769	208	226	2.19	< 0.01	< 0.01	0.21	0.04	0.03	< 0.01	< 0.01	< 0.01	96.10	0.10	0.92	99.59
4770	208	226	4.91	< 0.01	< 0.01	0.90	0.05	0.04	< 0.01	< 0.01	0.01	91.50	0.19	2.16	99.76
4771	208	226	5.17	< 0.01	< 0.01	0.51	0.04	0.06	< 0.01	< 0.01	0.02	91.30	0.24	2.03	99.37
4772	208	226	4.43	< 0.01	< 0.01	0.41	0.04	0.05	< 0.01	0.02	0.02	92.50	0.16	1.69	99.32
4773	208	226	2.56	0.09	< 0.01	0.52	0.06	0.09	< 0.01	0.11	0.06	94.00	0.12	1.10	98.71
13279	208	226	3.64	0.04	< 0.01	0.42	0.04	0.09	< 0.01	0.10	0.06	93.20	0.14	1.41	99.14
13281	208	226	5.32	0.13	< 0.01	0.92	0.09	0.16	< 0.01	0.12	0.15	90.00	0.28	2.17	99.34
13282	208	226	15.00	0.20	< 0.01	0.92	0.14	0.20	< 0.01	0.19	0.16	75.90	0.71	5.91	99.33
13283	208	226	32.28	0.13	< 0.01	1.06	0.55	0.21	< 0.01	< 0.01	0.17	51.30	1.01	13.25	99.96
13285	208	226	6.75	0.12	< 0.01	1.07	0.11	0.13	< 0.01	0.18	0.13	87.90	0.33	2.81	99.53
13286	208	226	3.24	0.17	< 0.01	0.64	0.06	0.17	< 0.01	0.32	0.13	92.00	0.88	1.67	99.28
13287	208	226	5.22	0.19	< 0.01	0.60	0.06	0.17	< 0.01	0.23	0.09	90.10	0.17	1.89	98.72
13297	208	226	7.72	0.29	< 0.01	0.79	0.12	0.23	< 0.01	0.37	0.13	86.10	0.57	3.43	99.75
13298	208	226	7.73	0.35	< 0.01	0.93	0.13	0.25	< 0.01	0.43	0.16	85.10	0.56	4.01	99.65
13300	208	226	2.69	0.10	< 0.01	0.36	0.05	0.11	< 0.01	0.10	0.04	95.00	0.15	0.95	99.55
13677	208	226	9.46	0.14	< 0.01	0.82	0.15	0.15	< 0.01	0.09	0.07	85.10	0.77	3.72	100.45
13678	208	226	3.29	0.09	< 0.01	0.37	0.07	0.10	< 0.01	0.10	0.04	94.30	0.31	1.31	99.98
13679	208	226	3.10	0.09	< 0.01	0.31	0.07	0.10	< 0.01	0.11	0.05	94.60	0.13	1.16	99.72
13680	208	226	4.30	0.10	< 0.01	0.33	0.10	0.11	< 0.01	0.12	0.06	92.50	0.14	1.57	99.33
13681	208	226	8.76	0.16	< 0.01	0.63	0.11	0.16	< 0.01	0.15	0.09	86.10	0.39	3.41	99.96
13682	208	226	19.28	0.26	< 0.01	0.87	0.25	0.25	< 0.01	0.20	0.10	70.00	1.11	7.57	99.89
13683	208	226	4.81	0.12	< 0.01	0.53	0.05	0.12	< 0.01	0.13	0.06	90.10	0.22	1.77	97.91
13684	208	226	5.42	0.07	< 0.01	0.31	0.04	0.09	< 0.01	0.08	0.03	92.10	0.17	2.01	100.30
13685	208	226	4.32	0.11	< 0.01	0.37	0.04	0.11	< 0.01	0.15	0.06	93.00	0.17	1.63	99.96
13686	208	226	2.16	0.10	< 0.01	0.23	0.04	0.11	< 0.01	0.11	0.05	96.10	0.06	0.79	99.75
13687	208	226	3.35	0.11	< 0.01	0.38	0.06	0.12	< 0.01	0.15	0.06	93.70	0.12	1.19	99.24
13688	208	226	3.88	0.12	< 0.01	0.43	0.07	0.12	< 0.01	0.16	0.07	92.50	0.10	1.33	98.78
13689	208	226	4.48	0.11	< 0.01	0.43	0.10	0.12	< 0.01	0.16	0.06	91.50	0.07	1.51	98.54
13690	208	226	4.28	0.15	< 0.01	0.45	0.09	0.14	< 0.01	0.20	0.10	91.20	0.18	1.46	98.25
13691	208	226	6.44	0.15	< 0.01	0.56	0.11	0.16	< 0.01	0.22	0.08	89.60	0.36	2.40	100.10
13692	208	226	22.86	0.32	< 0.01	0.94	0.26	0.21	< 0.01	0.03	0.18	59.50	0.98	14.49	99.77

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

INVOICE NUMBER I 9 4 2 7 4 8 1

BILLING INFORMATION

Date: 13-OCT-94
Project: KIPLING
P.O. No.: 0054
Account: KJE

Comments:

APR 26 1995
MINING LANDS BRANCH

Billing: For analysis performed on Certificate A9427481

Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
115	208 - Assay ring to approx 150 mesh	2.50		
	226 - 0-5 lb crush and split	2.05		
	A-12 W.R.A ICP	21.00	25.55	2938.25

Total Cost $	2938.25
Client Discount (20%) $	-587.65
Net Cost $	2350.60
(Reg# R100938885) GST $	164.54
TOTAL PAYABLE (CDN) $	2515.14

Claimed 37 samples at $21.87 = $809

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

Project : KIPLING
Comments: ATTN: M. MARTIN & A. CASSELMAN

Certificate Date: 13-OCT-94
Invoice No. : I9427481
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9427481

SAMPLE	PREP CODE		Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %
13693	208	226	2.26	0.17	0.19	0.71	0.05	0.17	< 0.01	0.23	0.09	94.90	0.09	0.87	99.73
13694	208	226	26.90	0.42	< 0.01	1.24	0.35	0.28	< 0.01	0.14	0.12	51.50	1.08	17.85	99.88
13695	208	226	5.38	0.20	0.21	0.84	0.07	0.17	< 0.01	0.24	0.11	89.30	0.22	3.07	99.81
13696	208	226	21.96	0.36	< 0.01	1.54	0.29	0.23	< 0.01	0.18	0.12	58.90	0.95	15.91	100.45
13697	208	226	3.66	0.26	0.34	0.71	0.05	0.21	< 0.01	0.41	0.15	92.00	0.11	1.35	99.25
13698	208	226	4.65	0.53	0.28	1.78	0.05	0.22	0.01	0.35	0.14	89.00	0.18	2.32	99.51
13699	208	226	4.27	0.39	0.27	1.31	0.05	0.19	0.01	0.34	0.12	90.30	0.16	2.14	99.55
13700	208	226	2.33	0.40	0.32	1.25	0.04	0.21	< 0.01	0.37	0.13	91.00	0.13	1.07	97.25
13734	208	226	1.26	26.45	< 0.01	1.37	0.06	20.90	0.05	0.26	< 0.01	12.00	0.07	37.43	99.85
13749	208	226	36.15	1.11	0.01	0.27	0.76	1.02	0.01	0.28	0.12	45.10	0.01	15.99	100.85
13750	208	226	34.38	0.36	0.06	0.37	2.89	0.59	0.03	0.36	0.16	48.70	0.02	12.97	100.90
13800	208	226	15.06	0.23	0.27	0.35	1.15	0.34	0.02	0.16	0.12	76.30	0.01	5.23	99.24
13804	208	226	3.25	< 0.01	< 0.01	0.15	0.05	0.07	< 0.01	< 0.01	0.03	94.00	0.10	1.25	98.90
13815	208	226	3.42	< 0.01	< 0.01	0.08	0.06	0.04	< 0.01	< 0.01	0.02	93.90	0.10	1.31	98.93
13816	208	226	3.12	< 0.01	< 0.01	0.04	0.06	0.04	< 0.01	< 0.01	0.02	95.10	0.13	1.24	99.75
13817	208	226	4.27	0.04	0.01	0.33	0.08	0.07	< 0.01	< 0.01	0.03	91.20	0.13	1.85	98.01
13818	208	226	8.71	0.01	< 0.01	0.54	0.16	0.07	< 0.01	< 0.01	0.05	85.30	0.25	3.32	98.41
13819	208	226	22.35	0.31	0.04	1.02	0.46	0.28	< 0.01	0.26	0.14	64.30	0.98	9.27	99.41
13820	208	226	16.64	0.11	< 0.01	0.87	0.41	0.16	< 0.01	< 0.01	0.08	74.20	0.51	6.31	99.29
13821	208	226	25.51	0.50	0.02	1.32	0.37	0.34	< 0.01	0.24	0.14	53.40	1.17	15.91	98.92
13822	208	226	26.89	0.50	< 0.01	1.09	0.46	0.35	< 0.01	< 0.01	0.10	47.00	1.06	23.66	101.10
13823	208	226	25.20	0.52	0.03	1.34	0.47	0.38	< 0.01	0.24	0.14	50.40	1.11	20.26	100.10
13824	208	226	22.60	0.55	0.12	1.57	0.46	0.42	< 0.01	0.37	0.18	53.10	0.93	18.44	98.74
13825	208	226	2.86	0.07	0.17	1.11	0.11	0.10	< 0.01	0.07	0.07	92.30	0.18	2.89	99.93
13826	208	226	23.76	0.59	0.15	1.36	0.42	0.38	< 0.01	0.39	0.21	56.60	1.13	14.98	99.97
13827	208	226	8.03	0.12	0.27	0.54	0.13	0.14	< 0.01	0.12	0.10	86.50	0.58	3.21	99.74
13828	208	226	23.28	0.23	0.26	0.99	0.45	0.30	< 0.01	0.18	0.14	63.80	1.24	9.23	100.10
13829	208	226	3.30	0.14	0.43	0.47	0.06	0.14	< 0.01	0.19	0.10	92.00	0.41	1.37	98.61
13830	208	226	5.26	< 0.01	0.33	0.26	0.10	< 0.01	< 0.01	< 0.01	< 0.01	90.90	0.46	2.39	99.70
13831	208	226	3.52	< 0.01	0.37	< 0.01	0.08	< 0.01	< 0.01	< 0.01	< 0.01	94.70	0.21	1.29	100.15
13832	208	226	3.60	< 0.01	0.22	0.13	0.10	< 0.01	< 0.01	< 0.01	< 0.01	94.20	0.12	1.37	99.74
13833	208	226	3.27	< 0.01	0.14	0.06	0.08	< 0.01	< 0.01	< 0.01	< 0.01	94.30	0.13	1.32	99.30
13834	208	226	4.23	< 0.01	0.28	0.06	0.19	< 0.01	< 0.01	< 0.01	< 0.01	93.40	0.09	1.47	99.72
13835	208	226	4.21	< 0.01	0.36	0.05	0.11	< 0.01	< 0.01	< 0.01	< 0.01	93.50	0.13	1.52	99.88
13836	208	226	2.27	< 0.01	0.21	0.26	0.07	< 0.01	< 0.01	< 0.01	< 0.01	95.50	0.67	0.84	99.82
13837	208	226	1.07	< 0.01	< 0.01	< 0.01	0.04	< 0.01	< 0.01	< 0.01	< 0.01	98.00	0.10	0.43	99.64
13838	208	226	3.09	< 0.01	< 0.01	0.20	0.08	< 0.01	< 0.01	< 0.01	< 0.01	95.10	0.06	1.24	99.77
13839	208	226	3.04	< 0.01	0.10	0.04	0.06	< 0.01	< 0.01	< 0.01	< 0.01	95.30	0.06	1.20	99.80
13840	208	226	10.84	0.14	0.18	0.81	0.13	0.11	< 0.01	0.02	0.10	81.60	0.60	5.07	99.60
13841	208	226	17.34	0.13	0.17	0.60	0.16	0.13	< 0.01	0.06	0.11	73.20	0.89	7.03	99.82

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000178

Project : KIPLING
Comments: ATTN: M. MARTIN & A. CASSELMAN

Certificate Date: 13-OCT-94
Invoice No. : I9427481
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9427481

SAMPLE	PREP CODE		Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %
13842	208	226	2.58	< 0.01	0.08	0.40	0.06	0.06	< 0.01	< 0.01	0.05	95.00	0.51	1.01	99.75
13843	208	226	3.04	< 0.01	0.07	0.25	0.07	0.05	< 0.01	< 0.01	0.04	94.80	0.25	1.12	99.69
13844	208	226	5.06	0.02	0.12	0.47	0.08	0.07	< 0.01	< 0.01	0.04	92.20	0.37	1.92	100.35
13845	208	226	3.99	0.04	0.14	0.54	0.08	0.08	< 0.01	< 0.01	0.07	92.70	0.35	1.63	99.62
13846	208	226	5.04	0.01	0.10	0.58	0.10	0.06	< 0.01	< 0.01	0.04	91.00	0.20	1.83	98.96
13847	208	226	5.54	0.02	0.22	0.37	0.09	0.09	< 0.01	0.03	0.06	91.50	0.25	2.07	100.25
13848	208	226	15.67	0.17	0.19	0.84	0.18	0.13	< 0.01	0.07	0.12	70.40	0.87	11.50	100.15
13849	208	226	3.16	0.01	0.22	0.48	0.11	0.06	< 0.01	0.07	0.07	94.60	0.14	1.20	100.10
13850	208	226	1.69	< 0.01	0.26	0.26	0.06	0.06	< 0.01	0.09	0.07	97.00	0.07	0.59	100.15
14145	208	226	14.31	0.11	0.24	0.54	0.16	0.13	< 0.01	0.10	0.10	77.20	0.82	6.15	99.86
14146	208	226	6.83	0.10	< 0.01	0.72	0.08	0.13	< 0.01	0.20	0.12	88.30	0.62	2.72	99.82
14147	208	226	5.30	0.10	< 0.01	0.53	0.06	0.13	< 0.01	0.19	0.12	90.40	0.64	2.13	99.60
14148	208	226	2.12	0.06	< 0.01	0.40	0.03	0.10	< 0.01	0.17	0.11	95.00	0.41	0.79	99.19
14149	208	226	3.14	0.10	< 0.01	0.45	0.05	0.10	< 0.01	0.13	0.09	93.50	0.17	2.33	100.05
14150	208	226	1.59	0.09	< 0.01	0.88	0.06	0.12	< 0.01	0.23	0.11	95.00	0.28	1.12	99.48
14214	208	226	4.51	0.09	< 0.01	0.55	0.08	0.11	< 0.01	0.18	0.10	92.40	0.13	1.55	99.70
14217	208	226	28.68	0.46	< 0.01	1.10	0.43	0.33	< 0.01	0.02	0.14	54.20	1.19	16.90	103.45
15001	208	226	4.30	< 0.01	< 0.01	1.03	0.07	< 0.01	< 0.01	< 0.01	< 0.01	90.90	0.84	2.11	99.25
15002	208	226	3.47	< 0.01	< 0.01	0.57	0.05	< 0.01	< 0.01	< 0.01	< 0.01	93.90	0.41	1.57	99.97
15003	208	226	2.76	< 0.01	< 0.01	0.13	0.05	< 0.01	< 0.01	< 0.01	< 0.01	95.60	0.07	1.13	99.74
15004	208	226	2.73	< 0.01	< 0.01	0.77	0.08	0.02	< 0.01	< 0.01	< 0.01	90.60	0.10	1.73	96.03
15005	208	226	3.49	< 0.01	< 0.01	1.14	0.16	0.05	< 0.01	< 0.01	0.02	89.30	0.17	3.03	97.36
15006	208	226	24.74	0.37	< 0.01	1.40	0.45	0.31	< 0.01	0.35	0.18	51.50	0.77	11.87	91.94
15007	208	226	29.35	0.40	< 0.01	1.77	0.63	0.36	0.01	0.31	0.18	57.50	0.91	13.91	105.35
15008	208	226	24.59	0.31	< 0.01	1.68	0.28	0.32	< 0.01	0.25	0.15	57.10	0.89	13.49	99.06
15051	208	226	6.78	< 0.01	< 0.01	0.20	0.13	< 0.01	< 0.01	< 0.01	0.01	89.80	0.39	2.79	100.10
15052	208	226	3.25	< 0.01	< 0.01	0.25	0.06	< 0.01	< 0.01	< 0.01	0.02	95.00	0.16	0.99	99.73
15053	208	226	11.98	0.36	< 0.01	3.02	0.21	0.09	0.03	< 0.01	0.10	78.50	0.65	4.95	99.89
15054	208	226	3.55	< 0.01	< 0.01	0.40	0.18	0.04	< 0.01	< 0.01	0.06	94.00	0.16	1.09	99.48
15055	208	226	3.73	< 0.01	< 0.01	0.44	0.23	0.03	< 0.01	< 0.01	0.04	93.80	0.26	1.39	99.92
15056	208	226	22.01	0.47	< 0.01	2.03	0.33	0.40	0.01	0.34	0.20	63.10	1.30	9.90	100.10
15057	208	226	2.46	0.04	< 0.01	0.54	0.16	0.11	< 0.01	0.08	0.10	95.00	0.13	0.85	99.47
15058	208	226	19.95	0.46	0.02	2.35	0.33	0.40	0.01	0.38	0.17	66.80	1.09	8.89	100.85
15059	208	226	11.18	0.09	< 0.01	0.76	0.31	0.18	< 0.01	0.09	0.17	80.10	0.79	4.10	97.77
15060	208	226	9.94	0.30	< 0.01	0.98	0.33	0.24	< 0.01	0.34	0.20	82.10	0.72	3.89	99.04
15061	208	226	4.49	0.28	< 0.01	0.70	0.32	0.23	< 0.01	0.40	0.16	90.80	0.23	1.52	99.13
15062	208	226	4.58	0.23	< 0.01	0.67	0.49	0.19	< 0.01	0.31	0.13	91.00	0.11	1.40	99.11
15063	208	226	4.78	0.29	< 0.01	0.76	0.54	0.23	< 0.01	0.39	0.20	90.90	0.12	1.50	99.71
15064	208	226	7.23	0.30	< 0.01	0.83	0.49	0.22	< 0.01	0.37	0.16	86.90	0.23	2.45	99.18
15065	208	226	8.59	0.32	< 0.01	0.83	0.57	0.25	< 0.01	0.42	0.19	84.20	0.28	3.02	98.67

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

INVOICE NUMBER I9427481

BILLING INFORMATION

RECEIVED
APR 26 1995
MINING LANDS BRANCH

Date: 13-OCT-94
Project: KIPLING
P.O. No.: 0054
Account: KJE

Comments:

Billing: For analysis performed on Certificate A9427481

Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
115	208 - Assay ring to approx 150 mesh	2.50		
	226 - 0-5 lb crush and split	2.05		
	A-12 W.R.A ICP	21.00	25.55	2938.25

Total Cost $	2938.25
Client Discount (20%) $	-587.65
Net Cost $	2350.60
(Reg# R100938885) GST $	164.54
TOTAL PAYABLE (CDN) $	2515.14

2.1595 6

Claimed 8 samples at $21.87 = $175

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

Project : KIPLING
Comments: ATTN: M. MARTIN & A. CASSELMAN

Certificate Date: 13-OCT-94
Invoice No. : I9427481
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Account : KJE

CERTIFICATE OF ANALYSIS A9427481

SAMPLE	PREP CODE		Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %
13842	208	226	2.58	< 0.01	0.08	0.40	0.06	0.06	< 0.01	< 0.01	0.05	95.00	0.51	1.01	99.75
13843	208	226	3.04	< 0.01	0.07	0.25	0.07	0.05	< 0.01	< 0.01	0.04	94.80	0.25	1.12	99.69
13844	208	226	5.06	0.02	0.12	0.47	0.08	0.07	< 0.01	< 0.01	0.04	92.20	0.37	1.92	100.35
13845	208	226	3.99	0.04	0.14	0.54	0.08	0.08	< 0.01	< 0.01	0.07	92.70	0.35	1.63	99.62
13846	208	226	5.04	0.01	0.10	0.58	0.10	0.06	< 0.01	< 0.01	0.04	91.00	0.20	1.83	98.96
13847	208	226	5.54	0.02	0.22	0.37	0.09	0.09	< 0.01	0.03	0.06	91.50	0.25	2.07	100.25
13848	208	226	15.67	0.17	0.19	0.84	0.18	0.13	< 0.01	0.07	0.12	70.40	0.87	11.50	100.15
13849	208	226	3.16	0.01	0.22	0.48	0.11	0.06	< 0.01	0.07	0.07	94.60	0.14	1.20	100.10
13850	208	226	1.69	< 0.01	0.26	0.26	0.06	0.06	< 0.01	0.09	0.07	97.00	0.07	0.59	100.15
14145	208	226	14.31	0.11	0.24	0.54	0.16	0.13	< 0.01	0.10	0.10	77.20	0.82	6.15	99.86
14146	208	226	6.83	0.10	< 0.01	0.72	0.08	0.13	< 0.01	0.20	0.12	88.30	0.62	2.72	99.82
14147	208	226	5.30	0.10	< 0.01	0.53	0.06	0.13	< 0.01	0.19	0.12	90.40	0.64	2.13	99.60
14148	208	226	2.12	0.06	< 0.01	0.40	0.03	0.10	< 0.01	0.17	0.11	95.00	0.41	0.79	99.19
14149	208	226	3.14	0.10	< 0.01	0.45	0.05	0.10	< 0.01	0.13	0.09	93.50	0.17	2.33	100.05
14150	208	226	1.59	0.09	< 0.01	0.88	0.06	0.12	< 0.01	0.23	0.11	95.00	0.28	1.12	99.48
14214	208	226	4.51	0.09	< 0.01	0.55	0.08	0.11	< 0.01	0.18	0.10	92.40	0.13	1.55	99.70
14217	208	226	28.68	0.46	< 0.01	1.10	0.43	0.33	< 0.01	0.02	0.14	54.20	1.19	16.90	103.45
15001	208	226	4.30	< 0.01	< 0.01	1.03	0.07	< 0.01	< 0.01	< 0.01	< 0.01	90.90	0.84	2.11	99.25
15002	208	226	3.47	< 0.01	< 0.01	0.57	0.05	< 0.01	< 0.01	< 0.01	< 0.01	93.90	0.41	1.57	99.97
15003	208	226	2.76	< 0.01	< 0.01	0.13	0.05	< 0.01	< 0.01	< 0.01	< 0.01	95.60	0.07	1.13	99.74
15004	208	226	2.73	< 0.01	< 0.01	0.77	0.08	0.02	< 0.01	< 0.01	< 0.01	90.60	0.10	1.73	96.03
15005	208	226	3.49	< 0.01	< 0.01	1.14	0.16	0.05	< 0.01	< 0.01	0.02	89.30	0.17	3.03	97.36
15006	208	226	24.74	0.37	< 0.01	1.40	0.45	0.31	< 0.01	0.35	0.18	51.50	0.77	11.87	91.94
15007	208	226	29.35	0.40	< 0.01	1.77	0.63	0.36	0.01	0.31	0.18	57.50	0.91	13.91	105.35
15008	208	226	24.59	0.31	< 0.01	1.68	0.28	0.32	< 0.01	0.25	0.15	57.10	0.89	13.49	99.06
15051	208	226	6.78	< 0.01	< 0.01	0.20	0.13	< 0.01	< 0.01	< 0.01	0.01	89.80	0.39	2.79	100.10
15052	208	226	3.25	< 0.01	< 0.01	0.25	0.06	< 0.01	< 0.01	< 0.01	0.02	95.00	0.16	0.99	99.73
15053	208	226	11.98	0.36	< 0.01	3.02	0.21	0.09	0.03	< 0.01	0.10	78.50	0.65	4.95	99.89
15054	208	226	3.55	< 0.01	< 0.01	0.40	0.18	0.04	< 0.01	< 0.01	0.06	94.00	0.16	1.09	99.48
15055	208	226	3.73	< 0.01	< 0.01	0.44	0.23	0.03	< 0.01	< 0.01	0.04	93.80	0.26	1.39	99.92
15056	208	226	22.01	0.47	< 0.01	2.03	0.33	0.40	0.01	0.34	0.20	63.10	1.30	9.90	100.10
15057	208	226	2.46	0.04	< 0.01	0.54	0.16	0.11	< 0.01	0.08	0.10	95.00	0.13	0.85	99.47
15058	208	226	19.95	0.46	0.02	2.35	0.33	0.40	0.01	0.38	0.17	66.80	1.09	8.89	100.85
15059	208	226	11.18	0.09	< 0.01	0.76	0.31	0.18	< 0.01	0.09	0.17	80.10	0.79	4.10	97.77
15060	208	226	9.94	0.30	< 0.01	0.98	0.33	0.24	< 0.01	0.34	0.20	82.10	0.72	3.89	99.04
15061	208	226	4.49	0.28	< 0.01	0.70	0.32	0.23	< 0.01	0.40	0.16	90.80	0.23	1.52	99.13
15062	208	226	4.58	0.23	< 0.01	0.67	0.49	0.19	< 0.01	0.31	0.13	91.00	0.11	1.40	99.11
15063	208	226	4.78	0.29	< 0.01	0.76	0.54	0.23	< 0.01	0.39	0.20	90.90	0.12	1.50	99.71
15064	208	226	7.23	0.30	< 0.01	0.83	0.49	0.22	< 0.01	0.37	0.16	86.90	0.23	2.45	99.18
15065	208	226	8.59	0.32	< 0.01	0.83	0.57	0.25	< 0.01	0.42	0.19	84.20	0.28	3.02	98.67

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

INVOICE NUMBER I 9 4 2 7 4 8 1

BILLING INFORMATION

Date: 13-OCT-94
Project: KIPLING
P.O. No.: 0054
Account: KJE

Comments:

APR 26 1995
MINING LANDS BRANCH

Billing: For analysis performed on Certificate A9427481

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
115	208 - Assay ring to approx 150 mesh	2.50		
	226 - 0-5 lb crush and split	2.05		
	A-12 W.R.A ICP	21.00	25.55	2938.25

Total Cost $	2938.25
Client Discount (20%) $	-587.65
Net Cost $	2350.60
(Reg# R100938885) GST $	164.54
TOTAL PAYABLE (CDN) $	2515.14

Claimed 23 samples at $21.87 = 503

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

Project : KIPLING
Comments: ATTN: M. MARTIN & A. CASSELMAN

Certificate Date: 13-OCT-94
Invoice No. : I9427481
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9427481

SAMPLE	PREP CODE		Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %
15066	208	226	9.60	0.27	0.25	0.83	0.49	0.21	< 0.01	0.43	0.12	83.30	0.37	3.32	99.19
15067	208	226	3.92	0.27	0.30	0.59	0.29	0.21	< 0.01	0.47	0.14	92.00	0.14	1.27	99.60
15068	208	226	12.89	0.08	< 0.01	0.74	0.43	0.18	< 0.01	0.07	0.02	80.20	0.63	5.23	100.45
15069	208	226	15.73	0.23	< 0.01	0.68	0.49	0.24	< 0.01	0.10	0.05	69.80	0.83	11.61	99.76
15070	208	226	5.54	0.03	< 0.01	0.62	0.58	0.11	< 0.01	0.12	0.04	90.60	0.26	1.96	99.86
15071	208	226	3.88	0.10	< 0.01	1.76	0.53	0.09	0.01	0.13	0.07	90.60	0.11	2.00	99.28
15072	208	226	25.09	0.60	0.08	2.15	0.48	0.44	0.01	0.49	0.24	54.50	1.07	14.76	99.91
15073	208	226	27.10	0.63	0.03	1.89	0.48	0.55	0.01	0.40	0.24	51.50	1.13	15.72	99.68
15074	208	226	29.59	0.72	0.05	2.14	0.47	0.64	0.01	0.45	0.26	47.30	1.13	17.14	99.90
15101	208	226	8.03	0.13	0.16	0.62	0.28	0.17	< 0.01	0.26	0.11	86.70	0.51	3.11	100.10
15102	208	226	9.42	0.13	0.12	0.99	0.31	0.17	< 0.01	0.22	0.07	84.40	0.63	3.70	100.15
15103	208	226	5.57	0.77	0.25	0.80	0.34	0.32	< 0.01	0.43	0.09	88.00	0.31	2.47	99.35
15104	208	226	3.13	< 0.01	< 0.01	0.22	0.32	0.06	< 0.01	< 0.01	< 0.01	95.00	0.13	1.01	99.87
15105	208	226	2.90	< 0.01	< 0.01	0.15	0.38	0.07	< 0.01	0.02	0.01	95.10	0.11	0.91	99.65
15106	208	226	3.05	0.03	0.13	0.33	0.29	0.10	< 0.01	0.14	0.03	94.10	0.08	0.96	99.24
15107	208	226	3.46	0.03	0.07	0.26	0.45	0.10	< 0.01	0.16	0.04	94.00	0.07	1.01	99.65
15108	208	226	3.73	0.01	< 0.01	0.31	0.32	0.09	< 0.01	0.09	0.03	93.10	0.08	1.15	98.91
15109	208	226	4.58	0.02	< 0.01	0.34	0.29	0.10	< 0.01	0.09	0.02	91.90	0.22	1.56	99.12
15110	208	226	4.36	0.08	0.27	0.50	0.37	0.13	< 0.01	0.22	0.05	91.90	0.12	1.35	99.35
15111	208	226	4.51	0.14	0.46	0.70	0.54	0.16	< 0.01	0.29	0.09	90.00	0.22	1.57	98.68
15112	208	226	3.70	0.33	0.31	1.00	0.54	0.23	< 0.01	0.52	0.15	90.40	0.23	1.08	98.49
15113	208	226	4.55	0.31	0.27	0.99	0.78	0.22	< 0.01	0.45	0.14	90.10	0.17	1.40	99.38
15114	208	226	14.18	0.37	0.26	1.72	0.56	0.27	0.01	0.45	0.14	73.80	0.93	7.04	99.73
15115	208	226	24.10	0.64	0.07	1.75	0.51	0.51	0.01	0.47	0.25	56.10	1.09	14.81	100.30
15116	208	226	22.56	0.61	0.03	6.68	0.49	0.59	0.05	0.38	0.22	53.00	1.06	13.89	99.56
15117	208	226	25.16	0.50	< 0.01	2.08	0.47	0.52	0.01	0.17	0.16	54.00	1.17	15.77	100.00
15118	208	226	10.08	0.18	< 0.01	1.11	0.62	0.27	0.01	0.11	0.12	82.00	0.64	4.30	99.44
15119	208	226	10.72	0.09	< 0.01	1.00	0.68	0.25	0.01	< 0.01	0.07	81.30	0.86	4.43	99.41
15120	208	226	12.60	0.14	< 0.01	1.06	0.65	0.26	0.01	0.07	0.12	78.20	0.79	5.30	99.20
15121	208	226	9.72	0.15	< 0.01	0.87	0.58	0.19	0.01	0.11	0.10	82.90	0.79	4.13	99.55
15122	208	226	4.34	0.03	0.24	0.83	0.43	0.11	0.01	< 0.01	0.07	89.10	0.59	3.44	99.19
15123	208	226	3.52	< 0.01	< 0.01	0.90	0.96	0.02	< 0.01	< 0.01	< 0.01	90.90	0.10	3.01	99.41
17101	208	226	9.14	1.16	< 0.01	3.00	1.86	1.04	0.04	1.89	0.08	80.00	0.36	1.11	99.68
17102	208	226	24.13	0.10	< 0.01	3.68	0.34	0.20	0.01	< 0.01	0.11	60.90	1.12	9.67	100.25
17103	208	226	10.60	< 0.01	0.01	0.47	0.40	0.11	< 0.01	< 0.01	0.06	84.40	0.51	3.86	100.40

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

INVOICE NUMBER I9427479

BILLING INFORMATION

RECEIVED
APR 26 1995
MINING LANDS BRANCH

Date: 13-OCT-94
Project: KIPLING
P.O. No.: 0054
Account: KJE

Comments:

Billing: For analysis performed on Certificate A9427479

Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
120	208 - Assay ring to approx 150 mesh	2.50		
	226 - 0-5 lb crush and split	2.05		
	A-12 W.R.A ICP	21.00	25.55	3066.00

2.1595 6

Total Cost $	3066.00
Client Discount (20%) $	-613.20
Net Cost $	2452.80
(Reg# R100938885) GST $	171.70
TOTAL PAYABLE (CDN) $	2624.50

Claimed 39 samples at $21.87 = $853

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

Project : KIPLING
Comments: ATTN: M. MARTIN & A. CASSELMAN

Certificate Date: 13-OCT-94
Invoice No. : I9427479
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9427479

SAMPLE	PREP CODE		Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %
709	208	226	33.98	0.32	0.03	2.71	0.42	0.25	0.01	0.12	0.12	48.00	0.85	13.49	100.30
710	208	226	18.06	0.38	0.03	3.67	0.23	0.18	0.01	0.08	0.08	68.80	0.76	8.00	100.30
711	208	226	33.24	0.34	0.09	1.52	0.70	0.37	< 0.01	0.16	0.15	48.00	1.11	14.13	99.81
712	208	226	27.90	0.22	0.01	1.35	0.49	0.28	< 0.01	0.05	0.10	57.40	0.99	11.34	100.15
713	208	226	34.10	0.25	< 0.01	1.76	0.69	0.40	< 0.01	0.01	0.13	47.50	1.13	14.20	100.15
714	208	226	26.07	0.19	< 0.01	1.40	0.46	0.33	0.01	< 0.01	0.09	59.60	1.06	10.53	99.74
715	208	226	23.47	0.26	< 0.01	4.65	0.49	0.34	0.06	0.02	0.07	58.20	0.96	11.69	100.20
716	208	226	26.37	0.27	< 0.01	3.72	0.52	0.40	0.04	0.04	0.09	55.80	1.12	11.91	100.30
717	208	226	17.43	0.21	< 0.01	1.14	0.45	0.30	< 0.01	0.06	0.10	71.70	1.12	7.01	99.52
718	208	226	19.02	0.23	< 0.01	1.17	0.54	0.34	< 0.01	0.06	0.12	69.40	1.18	7.59	99.65
719	208	226	6.73	0.28	0.02	1.48	0.30	0.17	0.01	0.06	0.08	86.40	0.63	2.98	99.14
720	208	226	4.58	0.22	0.01	1.53	0.26	0.13	< 0.01	0.03	0.07	90.60	0.45	2.00	99.88
721	208	226	4.16	0.12	0.02	0.51	0.28	0.12	< 0.01	0.08	0.08	92.00	0.16	1.50	99.03
722	208	226	2.27	0.09	< 0.01	0.39	0.28	0.10	< 0.01	0.07	0.04	95.90	0.08	0.73	99.95
723	208	226	2.38	0.09	0.01	0.37	0.27	0.10	< 0.01	0.08	0.04	94.00	0.07	0.73	98.14
724	208	226	2.10	0.13	0.03	0.43	0.26	0.11	< 0.01	0.11	0.06	94.10	0.06	0.73	98.12
725	208	226	3.44	0.21	0.04	0.54	0.20	0.18	< 0.01	0.14	0.07	93.40	0.15	1.20	99.57
726	208	226	3.29	0.12	0.01	0.38	0.19	0.11	< 0.01	0.09	0.06	93.90	0.09	1.13	99.37
727	208	226	3.86	0.12	0.02	0.42	0.17	0.12	< 0.01	0.09	0.06	93.00	0.16	1.36	99.38
728	208	226	4.87	0.15	0.04	0.40	0.18	0.14	< 0.01	0.13	0.08	91.70	0.27	1.72	99.68
729	208	226	3.47	0.14	0.06	0.45	0.19	0.13	< 0.01	0.13	0.08	93.00	0.10	1.12	98.87
730	208	226	3.33	< 0.01	< 0.01	0.12	0.22	0.02	< 0.01	0.01	< 0.01	96.03	0.07	1.08	100.90
731	208	226	3.25	< 0.01	< 0.01	0.28	0.24	0.04	< 0.01	0.03	< 0.01	95.95	0.11	1.11	101.00
732	208	226	4.11	0.01	< 0.01	0.61	0.24	0.04	< 0.01	0.03	< 0.01	92.58	0.14	1.57	99.33
733	208	226	3.95	0.08	< 0.01	1.95	0.26	0.04	0.01	0.02	< 0.01	92.26	0.12	2.21	100.90
734	208	226	29.94	0.16	< 0.01	0.94	0.37	0.13	< 0.01	< 0.01	0.05	52.21	1.19	15.40	100.40
735	208	226	12.47	0.06	< 0.01	1.72	0.27	0.07	0.01	< 0.01	0.01	77.58	0.54	7.28	100.00
736	208	226	29.07	0.29	< 0.01	1.07	0.37	0.17	< 0.01	0.02	0.02	51.90	1.14	15.99	100.05
737	208	226	5.61	0.12	< 0.01	2.79	0.27	0.06	0.03	0.01	< 0.01	87.25	0.18	3.84	100.15
738	208	226	29.56	0.32	< 0.01	1.14	0.42	0.20	< 0.01	0.06	0.03	49.77	1.09	18.09	100.70
739	208	226	4.41	0.19	< 0.01	4.04	0.28	0.06	0.06	0.01	0.01	86.43	0.12	4.06	99.67
740	208	226	27.36	0.44	0.02	1.33	0.38	0.28	< 0.01	0.10	0.08	53.90	1.15	15.39	100.45
741	208	226	8.68	0.30	0.06	2.53	0.21	0.16	0.02	0.09	0.06	81.80	0.33	5.15	99.39
742	208	226	25.94	0.41	0.03	1.26	0.34	0.26	< 0.01	0.13	0.09	53.60	1.17	16.42	99.65
743	208	226	5.48	0.35	0.08	3.00	0.21	0.14	0.03	0.11	0.05	85.90	0.18	4.25	99.78
744	208	226	27.12	0.45	0.04	1.53	0.36	0.29	< 0.01	0.14	0.10	52.80	1.06	15.78	99.67
745	208	226	6.91	0.27	0.08	3.05	0.24	0.14	0.02	0.07	0.06	83.40	0.23	5.05	99.52
746	208	226	28.43	0.46	0.04	1.35	0.38	0.30	< 0.01	0.13	0.10	50.60	1.16	16.64	99.59
747	208	226	5.19	0.30	0.06	2.48	0.22	0.13	0.02	0.09	0.06	87.70	0.17	3.23	99.65
4701	208	226	14.09	0.21	0.03	0.89	0.22	0.19	< 0.01	0.09	0.08	77.90	0.78	5.84	100.30

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

* 078

INVOICE NUMBER I9427479

BILLING INFORMATION

RECEIVED
APR 26 1995
MINING LANDS BRANCH

Date: 13-OCT-94
Project: KIPLING
P.O. No.: 0054
Account: KJE

Comments:

Billing: For analysis performed on Certificate A9427479

Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
120	208 - Assay ring to approx 150 mesh	2.50		
	226 - 0-5 lb crush and split	2.05		
	A-12 W.R.A ICP	21.00	25.55	3066.00

Total Cost $	3066.00
Client Discount (20%) $	-613.20
Net Cost $	2452.80
(Reg# R100938885) GST $	171.70
TOTAL PAYABLE (CDN) $	**2624.50**

2 PROJ

Price/sample = $2624.50/120 = $21.87

Claimed 10 samples at $21.87 = $219

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

Project : KIPLING
Comments: ATTN: M. MARTIN & A. CASSELMAN

Certificate Date: 13-OCT-94
Invoice No : 19427479
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9427479

SAMPLE	PREP CODE		Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %
4760	208	226	22.68	0.18	< 0.01	1.00	0.31	0.18	< 0.01	0.16	0.09	65.30	0.88	8.74	99.[illegible]2
4761	208	226	11.97	0.21	< 0.01	1.39	0.23	0.16	< 0.01	0.17	0.08	80.00	0.40	4.87	99.[illegible]8
4762	208	226	32.78	0.17	< 0.01	1.19	0.66	0.26	< 0.01	< 0.01	0.16	49.90	1.14	13.87	100.[illegible]5
4763	208	226	33.36	0.24	0.03	1.16	0.49	0.27	< 0.01	0.13	0.08	45.00	1.05	18.37	100.[illegible]0
4764	208	226	19.63	0.18	< 0.01	1.36	0.35	0.26	< 0.01	0.04	0.14	67.80	1.24	9.19	100.[illegible]0
4765	208	226	14.87	0.09	< 0.01	0.62	0.22	0.15	< 0.01	0.03	0.06	76.70	0.98	6.11	99.[illegible]3
4766	208	226	2.61	< 0.01	< 0.01	0.27	0.07	0.06	< 0.01	< 0.01	0.02	95.00	0.16	1.21	99.[illegible]0
4767	208	226	2.63	< 0.01	< 0.01	0.17	0.07	0.03	< 0.01	< 0.01	0.01	95.90	0.10	1.05	99.[illegible]
4768	208	226	8.30	0.14	< 0.01	0.70	0.18	0.20	< 0.01	0.11	0.14	86.00	0.41	3.74	99.[illegible]
4769	208	226	2.19	< 0.01	< 0.01	0.21	0.04	0.03	< 0.01	< 0.01	< 0.01	96.10	0.10	0.92	99.[illegible]
4770	208	226	4.91	< 0.01	< 0.01	0.90	0.05	0.04	< 0.01	< 0.01	0.01	91.50	0.19	2.16	99.[illegible]
4771	208	226	5.17	< 0.01	< 0.01	0.51	0.04	0.06	< 0.01	< 0.01	0.02	91.30	0.24	2.03	99.[illegible]
4772	208	226	4.43	< 0.01	< 0.01	0.41	0.04	0.05	< 0.01	0.02	0.02	92.50	0.16	1.69	99.[illegible]
4773	208	226	2.56	0.09	< 0.01	0.52	0.06	0.09	< 0.01	0.11	0.06	94.00	0.12	1.10	99.[illegible]
13279	208	226	3.64	0.04	< 0.01	0.42	0.04	0.09	< 0.01	0.10	0.06	93.20	0.14	1.41	99.[illegible]
13281	208	226	5.32	0.13	< 0.01	0.92	0.09	0.16	< 0.01	0.12	0.15	90.00	0.28	2.17	99.[illegible]
13282	208	226	15.00	0.20	< 0.01	0.92	0.14	0.20	< 0.01	0.19	0.16	75.90	0.71	5.91	99.[illegible]
13283	208	226	32.28	0.13	< 0.01	1.06	0.55	0.21	< 0.01	< 0.01	0.17	51.30	1.01	13.25	99.[illegible]
13285	208	226	6.75	0.12	< 0.01	1.07	0.11	0.13	< 0.01	0.18	0.13	87.90	0.33	2.81	99.[illegible]
13286	208	226	3.24	0.17	< 0.01	0.64	0.06	0.17	< 0.01	0.32	0.13	92.00	0.88	1.67	99.[illegible]
13287	208	226	5.22	0.19	< 0.01	0.60	0.06	0.17	< 0.01	0.23	0.09	90.10	0.17	1.89	98.[illegible]
13297	208	226	7.72	0.29	< 0.01	0.79	0.12	0.23	< 0.01	0.37	0.13	86.10	0.57	3.43	99.[illegible]
13298	208	226	7.73	0.35	< 0.01	0.93	0.13	0.25	< 0.01	0.43	0.16	85.10	0.56	4.01	99.[illegible]5
13300	208	226	2.69	0.10	< 0.01	0.36	0.05	0.11	< 0.01	0.10	0.04	95.00	0.15	0.95	99.[illegible]
13677	208	226	9.46	0.14	< 0.01	0.82	0.15	0.15	< 0.01	0.09	0.07	85.10	0.77	3.72	100.[illegible]5
13678	208	226	3.29	0.09	< 0.01	0.37	0.07	0.10	< 0.01	0.10	0.04	94.30	0.31	1.31	99.[illegible]
13679	208	226	3.10	0.09	< 0.01	0.31	0.07	0.10	< 0.01	0.11	0.05	94.60	0.13	1.16	99.[illegible]
13680	208	226	4.30	0.10	< 0.01	0.33	0.10	0.11	< 0.01	0.12	0.06	92.50	0.14	1.57	99.[illegible]
13681	208	226	8.76	0.16	< 0.01	0.63	0.11	0.16	< 0.01	0.15	0.09	86.10	0.39	3.41	99.[illegible]
13682	208	226	19.28	0.26	< 0.01	0.87	0.25	0.25	< 0.01	0.20	0.10	70.00	1.11	7.57	99.[illegible]
13683	208	226	4.81	0.12	< 0.01	0.53	0.05	0.12	< 0.01	0.13	0.06	90.10	0.22	1.77	97.[illegible]
13684	208	226	5.42	0.07	< 0.01	0.31	0.04	0.09	< 0.01	0.08	0.03	92.10	0.17	2.01	100.[illegible]
13685	208	226	4.32	0.11	< 0.01	0.37	0.04	0.11	< 0.01	0.15	0.06	93.00	0.17	1.63	99.[illegible]
13686	208	226	2.16	0.10	< 0.01	0.23	0.04	0.11	< 0.01	0.11	0.05	96.10	0.06	0.79	99.[illegible]
13687	208	226	3.35	0.11	< 0.01	0.38	0.06	0.12	< 0.01	0.15	0.06	93.70	0.12	1.19	99.[illegible]
13688	208	226	3.88	0.12	< 0.01	0.43	0.07	0.12	< 0.01	0.16	0.07	92.50	0.10	1.33	98.[illegible]
13689	208	226	4.48	0.11	< 0.01	0.43	0.10	0.12	< 0.01	0.16	0.06	91.50	0.07	1.51	98.[illegible]4
13690	208	226	4.28	0.15	< 0.01	0.45	0.09	0.14	< 0.01	0.20	0.10	91.20	0.18	1.46	98.[illegible]5
13691	208	226	6.44	0.15	< 0.01	0.56	0.11	0.16	< 0.01	0.22	0.08	89.60	0.36	2.40	100.[illegible]
13692	208	226	22.86	0.32	< 0.01	0.94	0.26	0.21	< 0.01	0.03	0.18	59.50	0.98	14.49	99.7[illegible]

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

000078

INVOICE NUMBER I9427481

BILLING INFORMATION

Date: 13-OCT-94
Project: KIPLING
P.O. No.: 0054
Account: KJE

Comments:

RECEIVED
APR 26 1995
MINING LANDS BRANCH

Billing: For analysis performed on Certificate A9427481

Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
115	208 - Assay ring to approx 150 mesh	2.50		
	226 - 0-5 lb crush and split	2.05		
	A-12 W.R.A ICP	21.00	25.55	2938.25

Total Cost $	2938.25
Client Discount (20%) $	-587.65
Net Cost $	2350.60
(Reg# R100938885) GST $	164.54
TOTAL PAYABLE (CDN) $	2515.14

2.1595 6

Claim of 24 samples at $21.87 = $525

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

Project : KIPLING
Comments: ATTN: M. MARTIN & A. CASSELMAN

Certificate Date: 13-OCT-94
Invoice No. : I9427481
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9427481

SAMPLE	PREP CODE		Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %
13842	208	226	2.58	< 0.01	0.08	0.40	0.06	0.06	< 0.01	< 0.01	0.05	95.00	0.51	1.01	99.75
13843	208	226	3.04	< 0.01	0.07	0.25	0.07	0.05	< 0.01	< 0.01	0.04	94.80	0.25	1.12	99.69
13844	208	226	5.06	0.02	0.12	0.47	0.08	0.07	< 0.01	< 0.01	0.04	92.20	0.37	1.92	100.35
13845	208	226	3.99	0.04	0.14	0.54	0.08	0.08	< 0.01	< 0.01	0.07	92.70	0.35	1.63	99.62
13846	208	226	5.04	0.01	0.10	0.58	0.10	0.06	< 0.01	< 0.01	0.04	91.00	0.20	1.83	98.96
13847	208	226	5.54	0.02	0.22	0.37	0.09	0.09	< 0.01	0.03	0.06	91.50	0.25	2.07	100.25
13848	208	226	15.67	0.17	0.19	0.84	0.18	0.13	< 0.01	0.07	0.12	70.40	0.87	11.50	100.15
13849	208	226	3.16	0.01	0.22	0.48	0.11	0.06	< 0.01	0.07	0.07	94.60	0.14	1.20	100.10
13850	208	226	1.69	< 0.01	0.26	0.26	0.06	0.06	< 0.01	0.09	0.07	97.00	0.07	0.59	100.15
14145	208	226	14.31	0.11	0.24	0.54	0.16	0.13	< 0.01	0.10	0.10	77.20	0.82	6.15	99.86
14146	208	226	6.83	0.10	< 0.01	0.72	0.08	0.13	< 0.01	0.20	0.12	88.30	0.62	2.72	99.82
14147	208	226	5.30	0.10	< 0.01	0.53	0.06	0.13	< 0.01	0.19	0.12	90.40	0.64	2.13	99.60
14148	208	226	2.12	0.06	< 0.01	0.40	0.03	0.10	< 0.01	0.17	0.11	95.00	0.41	0.79	99.19
14149	208	226	3.14	0.10	< 0.01	0.45	0.05	0.10	< 0.01	0.13	0.09	93.50	0.17	2.33	100.05
14150	208	226	1.59	0.09	< 0.01	0.88	0.06	0.12	< 0.01	0.23	0.11	95.00	0.28	1.12	99.48
14214	208	226	4.51	0.09	< 0.01	0.55	0.08	0.11	< 0.01	0.18	0.10	92.40	0.13	1.55	99.70
14217	208	226	28.68	0.46	< 0.01	1.10	0.43	0.33	< 0.01	0.02	0.14	54.20	1.19	16.90	103.45
15001	208	226	4.30	< 0.01	< 0.01	1.03	0.07	< 0.01	< 0.01	< 0.01	< 0.01	90.90	0.84	2.11	99.25
15002	208	226	3.47	< 0.01	< 0.01	0.57	0.05	< 0.01	< 0.01	< 0.01	< 0.01	93.90	0.41	1.57	99.97
15003	208	226	2.76	< 0.01	< 0.01	0.13	0.05	< 0.01	< 0.01	< 0.01	< 0.01	95.60	0.07	1.13	99.74
15004	208	226	2.73	< 0.01	< 0.01	0.77	0.08	0.02	< 0.01	< 0.01	< 0.01	90.60	0.10	1.73	96.03
15005	208	226	3.49	< 0.01	< 0.01	1.14	0.16	0.05	< 0.01	< 0.01	0.02	89.30	0.17	3.03	97.36
15006	208	226	24.74	0.37	< 0.01	1.40	0.45	0.31	< 0.01	0.35	0.18	51.50	0.77	11.87	91.94
15007	208	226	29.35	0.40	< 0.01	1.77	0.63	0.36	0.01	0.31	0.18	57.50	0.91	13.91	105.35
15008	208	226	24.59	0.31	< 0.01	1.68	0.28	0.32	< 0.01	0.25	0.15	57.10	0.89	13.49	99.06
15051	208	226	6.78	< 0.01	< 0.01	0.20	0.13	< 0.01	< 0.01	< 0.01	0.01	89.80	0.39	2.79	100.10
15052	208	226	3.25	< 0.01	< 0.01	0.25	0.06	< 0.01	< 0.01	< 0.01	0.02	95.00	0.16	0.99	99.73
15053	208	226	11.98	0.36	< 0.01	3.02	0.21	0.09	0.03	< 0.01	0.10	78.50	0.65	4.95	99.89
15054	208	226	3.55	< 0.01	< 0.01	0.40	0.18	0.04	< 0.01	< 0.01	0.06	94.00	0.16	1.09	99.48
15055	208	226	3.73	< 0.01	< 0.01	0.44	0.23	0.03	< 0.01	< 0.01	0.04	93.80	0.26	1.39	99.92
15056	208	226	22.01	0.47	< 0.01	2.03	0.33	0.40	0.01	0.34	0.20	63.10	1.30	9.90	100.10
15057	208	226	2.46	0.04	< 0.01	0.54	0.16	0.11	< 0.01	0.08	0.10	95.00	0.13	0.85	99.47
15058	208	226	19.95	0.46	0.02	2.35	0.33	0.40	0.01	0.38	0.17	66.80	1.09	8.89	100.85
15059	208	226	11.18	0.09	< 0.01	0.76	0.31	0.18	< 0.01	0.09	0.17	80.10	0.79	4.10	97.77
15060	208	226	9.94	0.30	< 0.01	0.98	0.33	0.24	< 0.01	0.34	0.20	82.10	0.72	3.89	99.04
15061	208	226	4.49	0.28	< 0.01	0.70	0.32	0.23	< 0.01	0.40	0.16	90.80	0.23	1.52	99.13
15062	208	226	4.58	0.23	< 0.01	0.67	0.49	0.19	< 0.01	0.31	0.13	91.00	0.11	1.40	99.11
15063	208	226	4.78	0.29	< 0.01	0.76	0.54	0.23	< 0.01	0.39	0.20	90.90	0.12	1.50	99.71
15064	208	226	7.23	0.30	< 0.01	0.83	0.49	0.22	< 0.01	0.37	0.16	86.90	0.23	2.45	99.18
15065	208	226	8.59	0.32	< 0.01	0.83	0.57	0.25	< 0.01	0.42	0.19	84.20	0.28	3.02	98.67

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

To: MINERAL RESEARCH CANADA INC.

1 INDUSTRIAL BLVD.
PARRY SOUND, ON
P2A 2W8

00 0078

Project : KIPLING
Comments: ATTN: M. MARTIN & A. CASSELMAN

Certificate Date: 13-OCT-94
Invoice No. : I9427481
P.O. Number : 0054
Account : KJE

CERTIFICATE OF ANALYSIS A9427481

SAMPLE	PREP CODE		Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %
15066	208	226	9.60	0.27	0.25	0.83	0.49	0.21	< 0.01	0.43	0.12	83.30	0.37	3.32	99.19
15067	208	226	3.92	0.27	0.30	0.59	0.29	0.21	< 0.01	0.47	0.14	92.00	0.14	1.27	99.60
15068	208	226	12.89	0.08	< 0.01	0.74	0.43	0.18	< 0.01	0.07	0.02	80.20	0.63	5.23	100.45
15069	208	226	15.73	0.23	< 0.01	0.68	0.49	0.24	< 0.01	0.10	0.05	69.80	0.83	11.61	99.76
15070	208	226	5.54	0.03	< 0.01	0.62	0.58	0.11	< 0.01	0.12	0.04	90.60	0.26	1.96	99.86
15071	208	226	3.88	0.10	< 0.01	1.76	0.53	0.09	0.01	0.13	0.07	90.60	0.11	2.00	99.28
15072	208	226	25.09	0.60	0.08	2.15	0.48	0.44	0.01	0.49	0.24	54.50	1.07	14.76	99.91
15073	208	226	27.10	0.63	0.03	1.89	0.48	0.55	0.01	0.40	0.24	51.50	1.13	15.72	99.68
15074	208	226	29.59	0.72	0.05	2.14	0.47	0.64	0.01	0.45	0.26	47.30	1.13	17.14	99.90
15101	208	226	8.03	0.13	0.16	0.62	0.28	0.17	< 0.01	0.26	0.11	86.70	0.51	3.11	100.10
15102	208	226	9.42	0.13	0.12	0.99	0.31	0.17	< 0.01	0.22	0.07	84.40	0.63	3.70	100.15
15103	208	226	5.57	0.77	0.25	0.80	0.34	0.32	< 0.01	0.43	0.09	88.00	0.31	2.47	99.35
15104	208	226	3.13	< 0.01	< 0.01	0.22	0.32	0.06	< 0.01	< 0.01	< 0.01	95.00	0.13	1.01	99.87
15105	208	226	2.90	< 0.01	< 0.01	0.15	0.38	0.07	< 0.01	0.02	0.01	95.10	0.11	0.91	99.65
15106	208	226	3.05	0.03	0.13	0.33	0.29	0.10	< 0.01	0.14	0.03	94.10	0.08	0.96	99.24
15107	208	226	3.46	0.03	0.07	0.26	0.45	0.10	< 0.01	0.16	0.04	94.00	0.07	1.01	99.65
15108	208	226	3.73	0.01	< 0.01	0.31	0.32	0.09	< 0.01	0.09	0.03	93.10	0.08	1.15	98.91
15109	208	226	4.58	0.02	< 0.01	0.34	0.29	0.10	< 0.01	0.09	0.02	91.90	0.22	1.56	99.12
15110	208	226	4.36	0.08	0.27	0.50	0.37	0.13	< 0.01	0.22	0.05	91.90	0.12	1.35	99.35
15111	208	226	4.51	0.14	0.46	0.70	0.54	0.16	< 0.01	0.29	0.09	90.00	0.22	1.57	98.68
15112	208	226	3.70	0.33	0.31	1.00	0.54	0.23	< 0.01	0.52	0.15	90.40	0.23	1.08	98.49
15113	208	226	4.55	0.31	0.27	0.99	0.78	0.22	< 0.01	0.45	0.14	90.10	0.17	1.40	99.38
15114	208	226	14.18	0.37	0.26	1.72	0.56	0.27	0.01	0.45	0.14	73.80	0.93	7.04	99.73
15115	208	226	24.10	0.64	0.07	1.75	0.51	0.51	0.01	0.47	0.25	56.10	1.09	14.81	100.30
15116	208	226	22.56	0.61	0.03	6.68	0.49	0.59	0.05	0.38	0.22	53.00	1.06	13.89	99.56
15117	208	226	25.16	0.50	< 0.01	2.08	0.47	0.52	0.01	0.17	0.16	54.00	1.17	15.77	100.00
15118	208	226	10.08	0.18	< 0.01	1.11	0.62	0.27	0.01	0.11	0.12	82.00	0.64	4.30	99.44
15119	208	226	10.72	0.09	< 0.01	1.00	0.68	0.25	0.01	< 0.01	0.07	81.30	0.86	4.43	99.41
15120	208	226	12.60	0.14	< 0.01	1.06	0.65	0.26	0.01	0.07	0.12	78.20	0.79	5.30	99.20
15121	208	226	9.72	0.15	< 0.01	0.87	0.58	0.19	0.01	0.11	0.10	82.90	0.79	4.13	99.55
15122	208	226	4.34	0.03	0.24	0.83	0.43	0.11	0.01	< 0.01	0.07	89.10	0.59	3.44	99.19
15123	208	226	3.52	< 0.01	< 0.01	0.90	0.96	0.02	< 0.01	< 0.01	< 0.01	90.90	0.10	3.01	99.41
17101	208	226	9.14	1.16	< 0.01	3.00	1.86	1.04	0.04	1.89	0.08	80.00	0.36	1.11	99.68
17102	208	226	24.13	0.10	< 0.01	3.68	0.34	0.20	0.01	< 0.01	0.11	60.90	1.12	9.67	100.25
17103	208	226	10.60	< 0.01	0.01	0.47	0.40	0.11	< 0.01	< 0.01	0.06	84.40	0.51	3.86	100.40

CERTIFICATION: Hart Bichler

Ministry of Northern Development and Mines
Ontario

Report of Work Conducted After Recording Claim

Mining Act

Transaction No. W9560.00048

Personal information collected on this form is obtained under the authority of the M this collection should be directed to the Provincial Manager, Mining Lands, Min Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

42J01NE0015 2.15956 KIPLING

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Instructions:
- Please type or print and submit in duplicate.
- Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
- A separate copy of this form must be completed for each Work Group.
- Technical reports and maps must accompany this form in duplicate.
- A sketch, showing the claims the work is assigned to, must accompany this form.

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Recorded Holder(s): Great Lakes Kaolin Inc		Client No.: 22,553
Address: 100 Shirley Ave. Kitchener ON N2B 2E1		Telephone No.: (519) 744-5956
Mining Division: Porcupine	Township/Area: Kipling / Emerson	M or G Plan No.:
Dates Work Performed From: Sept 14, 1993	To: Nov. 22, 1994	

Work Performed (Check One Work Group Only)

	Work Group	Type
	Geotechnical Survey	
	Physical Work, Including Drilling	
	Rehabilitation	
	Other Authorized Work	
	Assays	WRA - Chemex Labs Ltd.
	Assignment from Reserve	

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Total Assessment Work Claimed on the Attached Statement of Costs $ 10,583 + Part B 21,640 = 32,123

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
Chemex Labs Ltd.	575 Tinbuckle Blvd. Mississauga ON L4W 3J3
Anne Casselman	Mineral Research Canada Inc
	R.R #2 Parry Sound ON P2A 2W2

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date: JAN. 23/95	Recorded Holder or Agent (Signature):

X

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying: Anne Casselman - as above

Telephone No.: (705) 378-2416	Date: Feb 4, 1995	Certified By (Signature):

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Total Value Cr. Recorded	Date Recorded	Mining Recorder (or Agent)	Received Stamp
10,583.00	Deemed Approval Date: MAY 12, 1995	Date Approved	RECEIVED FEB 10 1995
	Date Notice for Amendments Sent		

0241 (03.91)

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Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
N/A ✓	T19482	1	2239	0	2239	0
N/A ✓	T21582	1	347	0	347	0
N/A ✓	P825777	1	219	0	211	8
N/A ✓	T21584	1	385	0	385	0
N/A ✓	T21586	1	1191	0	1191	0
N/A ✓	P91135	1	360	0	360	0
N/A ✓	P825796	1	809	0	809	0
N/A ✓	P825794	1	700	0	700	0
N/A ✓	P825803	1	1023	0	1023	0
N/A ✓	P825805	1	957	0	957	0
N/A ✓	P825808	1	656	0	656	0
N/A ✓	P825810	1	853	0	278	575
N/A ✓	P900041	1	503	0	503	0
N/A ✓	P970195	1	161	0	161	0
N/A	P1089038	1	0	400	0	0
N/A	P1089039	1	0	400	0	0
N/A	P1089040	1	0	400	0	0
	25 +1		10,583	10 000	10000	583
	Total Number of Claims		Total Value Work Done	Total Value Work Applied	Total Assigned From	Total Reserve

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Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to priorize the deletion of credits. Please mark (✓) one of the following:

1. ☑ Credits are to be cut back starting with the claim listed last, working backwards.
2. ☐ Credits are to be cut back equally over all claims contained in this report of work.
3. ☐ Credits are to be cut back as priorized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.

Signature: X

Date: JAN. 23/95

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Numéro de rapport sur les travaux exécutés pour l'affectation de la réserve	Numéro de claim	Nombre d'unités	Valeur des travaux d'évaluation exécutés sur ce claim	Valeur affectée à ce claim	Valeur transférée de ce claim	Réserve : travaux à réclamer à une date ultérieure
NIA	P1089041	1	0	400	0	0
NIA	P1089042	1	0	400	0	0
NIA	P1089043	1	0	400	0	0
NIA	P1089044	1	0	400	0	0
NIA	P1089045	1	0	400	0	0
NIA	P1089046	1	0	400	0	0
NIA	P1089047	1	0	400	0	0
NIA	P1089048	1	0	400	0	0
NIA	P1089049	1	175	400	0	0
NIA	P1089050	1	0	400	0	0
NIA	P1089051	1	0	400	0	0
NIA	P1089052	1	0	400	0	0
NIA	P1089053	1	0	400	0	0
NIA	P1089054	1	0	400	0	0
NIA	P1089055	1	0	400	0	0
NIA	P1089056	1	0	400	0	0
NIA	P1089057	1	0	400	0	0
		Nombre total de claims	Valeur totale des travaux exécutés	Valeur totale des travaux qui a été affectée	Total transféré	Réserve totale

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Mining Recorder

Les crédits que vous réclamez dans le présent rapport peuvent être réduits. Afin de diminuer les conséquences défavorables de telles réductions, veuillez indiquer l'ordre dans lequel vous désirez qu'elles soient appliquées à vos claims. Veuillez cocher (✓) l'une des options suivantes :

1. ☐ Les crédits doivent être réduits en commençant par le dernier claim sur la liste.
2. ☐ Les crédits doivent être réduits également entre tous les claims figurant dans le présent rapport.
3. ☐ Les crédits doivent être réduits selon l'ordre donné en annexe.

Si vous n'avez pas choisi d'option, la première sera appliquée.

Note 1 : Examples d'ententes bénéficiaires : conversions non enregistrées, ententes sur des options, protocoles d'entente, etc. relatifs aux claims.

Note 2: Si des travaux ont été exécutés sur un terrain faisant l'objet de lettres patentes ou d'un bail, veuillez remplir ce qui suit:

Je certifie que le titulaire du terrain faisant l'objet de travaux ont été exécutés	Le titulaire possédant le terrain enregistré possède des lettres patentes ou du bail	Le titulaire sur le moment où les	Signature	Date

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
N/A	P1089058	1	0	400	0	0
N/A	P1089059	1	0	400	0	0
N/A	P1089060	1	0	400	0	0
N/A	P1089061	1	0	400	0	0
N/A	P1089062	1	0	400	0	0
	Total Number of Claims		Total Value Work Done	Total Value Work Applied	Total Assigned From	Total Reserve

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Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

1. ☐ Credits are to be cut back starting with the claim listed last, working backwards.
2. ☐ Credits are to be cut back equally over all claims contained in this report of work.
3. ☐ Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder of the patented or leased land at the time the work was performed.

Signature

Date

Ontario

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des mines

Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

Transaction No./N° de transaction

Part 'A'

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et servirent à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type WRA 34 X 23.02	782	
	329 X 21.87	7195	
	~~210 X 12.41~~	2606	10,583
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
	Total Direct Costs Total des coûts directs		10,583

+ Part B 21,840

2. Indirect Costs/Coûts indirects

** Note: When claiming Rehabilitation work indirect costs are not allowable as assessment work.
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type		
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilisation			
	Sub Total of Indirect Costs Total partiel des coûts indirects		
	Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)		
	Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs) / Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)		

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Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à ce effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
x 0.50 =	

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Évaluation totale demandée
x 0,50 =	

Certification Verifying Statement of Costs

I hereby certify:
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as PRESIDENT (Recorded Holder, Agent, Position in Company) I am authorized to make this certification

Attestation de l'état des coûts

J'atteste par la présente :
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint

Et qu'à titre de _____ (titulaire enregistré, représentant, poste occupé dans la compagnie) je suis autorisé à faire cette attestation.

Signature: X

Date: JAN. 23/95

0212 (04/91)

Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre

Ministry of Northern Development and Mines
Ontario

Report of Work Conducted After Recording Claim

Mining Act

Transaction Number: W 9560.00047

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

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Instructions:
- Please type or print and submit in duplicate.
- Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
- A separate copy of this form must be completed for each Work Group.
- Technical reports and maps must accompany this form in duplicate.
- A sketch, showing the claims the work is assigned to, must accompany this form.

" " PART B

Recorded Holder(s): Great Lakes Kaolin Inc		Client No. 22553
Address: 100 Shirley Ave, Kitchener, Ontario N2B 2E1		Telephone No.
Mining Division: Porcupine	Township/Area: Kipling/Emerson	M or G Plan No.
Dates Work Performed From: Oct. 27/94	To: Dec. 13/94	

Work Performed (Check One Work Group Only)

	Work Group	Type
	Geotechnical Survey	
	Physical Work, Including Drilling	
	Rehabilitation	
	Other Authorized Work	Subsection 18(9)
	Assays	
	Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs $ 21,840 + PART "B" $10,583

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
Kaarina Malmstrom	RR#2, Parry Sound, Ontario P2A 2W8

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(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date: JAN. 23/95	Recorded Holder or Agent (Signature): *

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying: KAARINA MALMSTROM - AS ABOVE		
Telepone No.: (705)-372-2416	Date: Febr/1st/95	Certified By (Signature): Kaarina Malmstrom

For Office Use Only

Total Value Cr. Recorded	Date Recorded	Mining Recorder (undated)	Received Stamp
21,840.	Deemed Approval Date: MAY 12, 1995	Date Approved	RECEIVED FEB 10 1995
	Date Notice for Amendments Sent		

0241 (03/91)

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
N/A	P 825800	1	12,320	0	11,680	640
N/A	T 81586	1	5,880	0	5,880	0
N/A	P 970195	1	3,640	0	3,640	0
N/A	P1089063	1	0	400	0	0
N/A	P1089064	1	0	400	0	0
N/A	P1089065	1	0	400	0	0
N/A	P1089066	1	0	400	0	0
N/A	P1089067	1	0	400	0	0
N/A	P1089068	1	0	400	0	0
N/A	P1089069	1	0	400	0	0
N/A	P1089070	1	0	400	0	0
N/A	P1089071	1	0	400	0	0
N/A	P1089072	1	0	400	0	0
N/A	P1089073	1	0	400	0	0
N/A	P1089078	1	0	400	0	0
N/A	P1089079	1	0	400	0	0
N/A	P1089080	1	0	400	0	0
	53+(3)		21,840	21,200	21,200	640
	Total Number of Claims		Total Value Work Done	Total Value Work Applied	Total Assigned From	Total Reserve

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Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to priorize the deletion of credits. Please mark (✓) one of the following:

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Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.

Signature: *

Date: JAN. 23/95

0241 (03/91)

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
N/A	P 1089081	1	0	400	0	0
N/A	P 1089082	1	0	400	0	0
N/A	P 1089083	1	0	400	0	0
N/A	P 1089084	1	0	400	0	0
N/A	P 1089085	1	0	400	0	0
N/A	P 1089086	1	0	400	0	0
N/A	P 1089087	1	0	400	0	0
N/A	P 1089088	1	0	400	0	0
N/A	P 1089089	1	0	400	0	0
N/A	P 1089090	1	0	400	0	0
N/A	P 1089091	1	0	400	0	0
N/A	P 1089092	1	0	400	0	0
N/A	P 1089093	1	0	400	0	0
N/A	P 1089094	1	0	400	0	0
N/A	P 1089095	1	0	400	0	0
N/A	P 1089096	1	0	400	0	0
N/A	P 1089097	1	0	400	0	0
	Total Number of Claims		Total Value Work Done	Total Value Work Applied	Total Assigned From	Total Reserve

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MINING LANDS BRANCH

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Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

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Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc... with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.

Signature

Date

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
N/A	P1089098	1	0	400	0	0
N/A	P1089099	1	0	400	0	0
N/A	P1089100	1	0	400	0	0
N/A	P1089101	1	0	400	0	0
N/A	P1089102	1	0	400	0	0
N/A	P1089103	1	0	400	0	0
N/A	P1089104	1	0	400	0	0
N/A	P1089105	1	0	400	0	0
N/A	P1089106	1	0	400	0	0
N/A	P1089107	1	0	400	0	0
N/A	P1089108	1	0	400	0	0
N/A	P1089109	1	0	400	0	0
N/A	P1089110	1	0	400	0	0
N/A	P1089111	1	0	400	0	0
N/A	P1090037	1	0	400	0	0
N/A	P1090038	1	0	400	0	0
N/A	P1090039	1	0	400	0	0
	Total Number of Claims		Total Value Work Done	Total Value Work Applied	Total Assigned From	Total Reserve

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APR 26 1995
Mining Lands Section

2.15959

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

1. ☐ Credits are to be cut back starting with the claim listed last, working backwards.
2. ☐ Credits are to be cut back equally over all claims contained in this report of work.
3. ☐ Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1. Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2. If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.

Signature

Date

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
N/A	P1090040	1	0	400	0	0
N/A	P1090041	1	0	400	0	0
N/A	P1090042	1	0	400	0	0
N/A	P1090043	1	0	400	0	0
N/A	P1090044	1	0	400	0	0
	Total Number of Claims		Total Value Work Done	Total Value Work Applied	Total Assigned From	Total Reserve

RECEIVED
APR 2 0 1998
MINING CLAIMS UNIT

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to priorize the deletion of credits. Please mark (✓) one of the following:

1. ☐ Credits are to be cut back starting with the claim listed last, working backwards.
2. ☐ Credits are to be cut back equally over all claims contained in this report of work.
3. ☐ Credits are to be cut back as priorized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.	Signature	Date

Ministry of Northern Development and Mines
Ontario

Ministère du Développement du Nord et des mines

Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines 2.15956 D D B

Transaction No./N° de transaction W9560.00047

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule son recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser tout queston sur la collece de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type ROTAP 78 x $105	$ 8,190	
	MOISTORE 78 x $45	$ 3,510	
	SEDIGRAPH 78 x $130	$ 10,140	$ 21,840
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
		Total Direct Costs Total des coûts directs	$ 21,840
		+ PARTA **	10,583
		TOTAL	32,423

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

2. Indirect Costs/Coûts indirects

** Note: When claiming Rehabilitation work indirect costs are not allowable as assessment work.
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type		
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilisation			
		Sub Total of Indirect Costs Total partiel des coûts indirects	
		Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)	
		Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs) Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)	

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

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Filing Discounts

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
× 0.50 =	

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Evaluation totale demandée
× 0,50 =	

Certification: Verifying Statement of Costs

I hereby certify:
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as * PRESIDENT I am authorized
(Recorded Holder, Agent, Position in Company)

to make this certification

Attestation de l'état des coûts

J'atteste par la présente :
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule du rapport de travail ci-joint.

Et qu'à titre de _____ je suis autorisé
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature *

Date JAN. 23/95

2212 (04-91)

Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.

Ontario

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

Geoscience Approvals Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (705) 670-5853
Fax: (705) 670-5863

April 27, 1995

Our File: 2.15956
Transaction #: W9560.00047
W9560.00048

Mining Recorder
Ministry of Northern Development & Mines
60 Wilson Avenue, 1st Floor
Timmins, Ontario
P4N 2S7

Dear Sir:

Subject: APPROVAL OF ASSESSMENT WORK CREDITS ON MINING CLAIMS P.825800 ET AL IN KIPLING AND EMERSON TOWNSHIPS

Assessment work credits have been approved as outlined on the original reports of work. The credits have been approved under Section 17, Assays for W9560.00048 and Section 18(9), Data for W9560.00047, Mining Act Regulations.

The approval date is April 27, 1995.

If you have any questions regarding this correspondence, please contact Lucille Jerome at (705) 670-5855.

Yours sincerely,

Ron C. Gashinski
Senior Manager, Mining Lands Section
Mining and Land Management Branch
Mines and Minerals Division

LJ/jl
Enclosure:

cc: Resident Geologist
Timmins, Ontario

Assessment Files Library
Sudbury, Ontario

Ontario

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

60 Wilson Avenue
Timmins, Ontario
P4N 2S7

(705) 360-8330
Fax: 264-8723

000078

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APR 26 1995
MINING LANDS BRANCH

October 13, 1992

Ms. Anne Casselman
Mineral Research Canada Inc.
1 Industrial Blvd., R.R. #2
Parry Sound, Ontario
P2A 2W8

Dear Ms. Casselman:

Subject: Report of Work Submitted for Lab Tests
Kipling and Emerson Townships

I am unable to record your report of work. In accordance with section 7(2) of the Assessment Work Regulations, you must provide certified copies of the parcel registers or documentation showing that the company held a beneficial interest in the patented claims at the time the work was performed. This is required for both the patented mining claim on which the work was done and for those patented claims being used as a link for assignment purposes.

Yours sincerely,

Gary White

Gary White
Mining Recorder
Porcupine Mining Division

GW/tb

Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Mining Lands Section
159 Cedar Street, 4th Floor
Sudbury, Ontario
P3E 6A5

Telephone: (705) 670-7264
Fax: (705) 670-7262

June 24, 1991

Anne Casselman
Mineral Research Canada
1 Industrial Blvd.
R. R. #2
Parry Sound, Ontario
P2A 2W8

Dear Anne:

Subject: Kaolin Laboratory Work as Assessment Credit

I have read the material you forwarded, and contacted Brookfield Engineering and Ortech International to discuss the costs for the various lab tests.

1) COSTS FOR THE LAB TESTS

a) Viscosity

I called Brookfield Engineering Laboratories in Stoughton Mass. regarding their lab costs. They charge $80.00 US per hour. Ortech also uses a Brookfield instrument to perform viscosity tests. The enclosed correspondence outlines their fees, approximately $35.00 per sample for large batches.

Using your estimates for sample prep and run time about 40 minutes, Brookfield's charges for lab time, and Ortech's fees, I have arrived at $50.00 per sample for your Viscosity Test.

b) Other costs you provided

The fee schedule you provided for Ortech International January 9, 1991 and a new schedule obtained on June 18, 1991 were used in conjunction with your estimates to arrive at the following costs per sample for the other tests:

.../2

Abrasion	(your estimate)	$ 150.00
Silica Fractionation with Ro Tap:	(Ortech)	$ 105.00
Particle Size Distribution with Sedigraph:	(Ortech)	$ 130.00
Moisture:	(Ortech)	$ 45.00
Brightness:	(Ortech)	$ 100.00
pH:	(your estimate)	$ 10.00

Most people include their time to prepare the report. You can add the cost of your time to compile and prepare the data and report also. I have included some copies of the Work Forms.

2) CONTENT OF THE REPORT

The report should be presented using the following table of contents:

1) Location and access to property

2) Claim numbers

3) Ownership

4) Summary of exploration work to date

   Brief outline of what has been done on the property: Drilling Program, Other Work.

5) Explanation of the tests.

   For each test outline:

- equipment used.
- parameter or property of Kaolin tested.
- the importance of testing this property of the Kaolin.
- what "good" results are, (ie) high brightness, low abrasion, etc.
- include a presentation of commercially acceptable properties

.../3

Notes:

1) For Sedigraph Particle Size Distribution, provide a brief explanation of how to interpret the graphs, ie which parameter belongs to the bar graph, and which belongs to the curve.

2) Explain the results for brightness. A "brightness" is presented and several other data values. Which are of use in your determination of whether the product is usable.

3) Explain why the moisture test is needed

4) Data:

I have proposed a format to present the data. Note that if you currently use a different method of compiling and presenting data in a similar fashion, it will probably be fine. Call me if you have any questions.

However you chose to present the data, you must reference the results to a drill hole location, depth and sample number. If drill logs are filed then include the Work Report number for reference. If the logs are not filed, please include them.

a) Spread sheet format for Viscosity, Abrasion, pH, and Brightness

hole#	sample#	parametres				
		Viscosity (CPS)	Abrasion routine	gm/M2	pH	Brightness

Printouts for Sedigraph Particle Size are fine as presented. Ro-tap results are also fine as presented. You will have to organize the results on a per hole basis as outlined above.

5 Discussion of results

6) Recommendations for follow up work

Maps and Sketches:

1) Location map for property

2) Location map of drill holes

.../4

Appendix

Wood's Kaolin Paper

3) **FILING AS ASSESSMENT WORK**

You will have to file this Report under "Other Authorized Work". It can be accepted under sub Section 18(9) of the Mining Act Regulations:

"Applications of new methodology or presentation of previously submitted field data which contribute new informatioon ot the geotechnical database."

I have enclosed a Sample Statement of Costs which you can follow to complete the documentation for filing, and copies of the Work Report Forms.

If you have any questions, please contact me at this office.

Yours truly,

Blair Kite

Blair Kite
Supervisor Mining Lands Tenure
Mines & Minerals Division

BK/jl
Enclosures:

5.0 PRICING

RE: OUR QUOTATION NUMBER 930101T

CHEMEX CODE	DESCRIPTION	MINERAL RESEARCH CANADA INC. PRICE PER SAMPLE
226/208	Crush/split (up to 5 lbs material) Ring, pulverize to -150 mesh (>90%) (200-250 gram material)	$ 3.51
217	Dry and pulverize the sample (up to 200 gram material) to -150 mesh (>90%)	$1.76
214/225	Handling charge for pulps not prepared in house	NO CHARGE
A12	Majors only - whole rock package includes major oxides as well as loss on ignition	$18.00

Please include our reference number 930101T on all sample shipments related to this project.

PREPARED FOR MINERALS RESEARCH CANADA INC.

JANUARY 6, 1993

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APR 26 1995
MINING

Yours truly,

2.1595 6

Adriana Alexanru
Analytical Lab Manager

AA/tmn

ERIC M. KRAUSHAAR, B.A., LL.B.
BARRISTER SOLICITOR NOTARY PUBLIC

000078

675 RIVERBEND DRIVE
KITCHENER, ONTARIO
N2K 3S3
TELEPHONE (519) 743-3911
FACSIMILE (519) 742-1841

December 8, 1992

Mr. Gary White
Mining Recorder
Porcupine Mining Division
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

2.15956

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APR 26 1995
MINING LANDS BRANCH

Dear Mr. White,

Re: Transfer of Claims from 798839 Ontario Limited to Great Lakes Kaolin Inc.

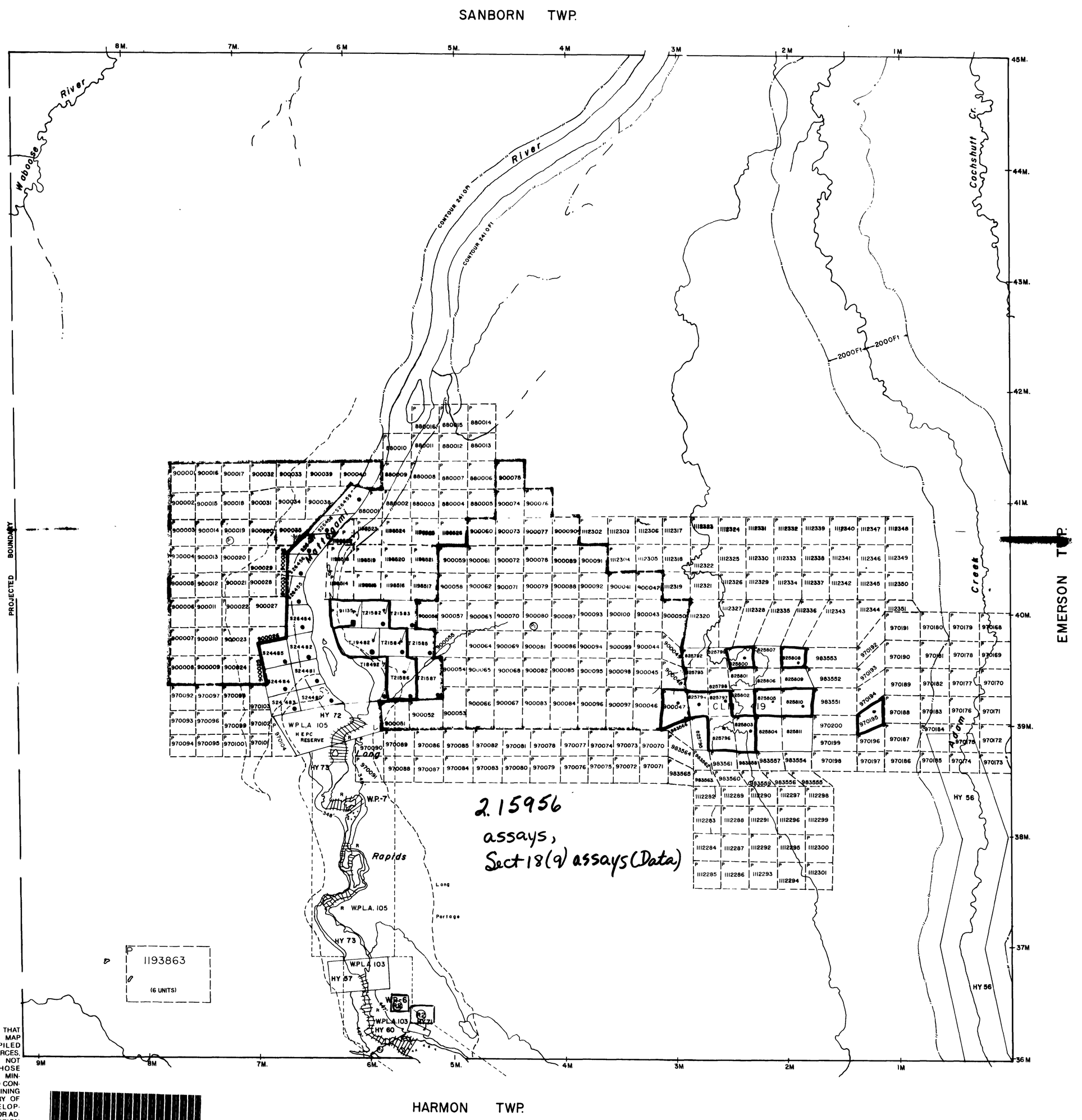
This is further to our recent telephone conversation with a view to clarifying consequences of the above transaction. The issue concerns allocation of the benefits of work done on claims owned by 798839 Ontario Limited (herein "798839") to Great Lakes Kaolin Inc. (herein "GLK") as subsequent owner.

I can confirm to you that I am solicitor for each of the two companies refer to. GLK was set up for the purpose of continuing the mining exploration work carried on to that time by 798839, and accordingly it was intended to benefit from that work. This was done as a corporate restructuring, and the beneficial shareholder interest of both companies was at all material times the same.

Accordingly, I request that you record the work done by 798839 on your records for the benefit of GLK. Please advise if you require anything further.

Yours very truly,

Eric M. Kraushaar
EMK/rs



THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON

200

LEGEND

- HIGHWAY AND ROUTE No
- OTHER ROADS
- TRAILS
- SURVEYED LINES
  - TOWNSHIPS, BASE LINES, ETC.
  - LOTS, MINING CLAIMS, PARCELS, ETC
- UNSURVEYED LINES
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" , SURFACE RIGHTS ONLY	◓
" , MINING RIGHTS ONLY	◒
LEASE SURFACE & MINING RIGHTS	■
" , SURFACE RIGHTS ONLY	⬒
" , MINING RIGHTS ONLY	⬓
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	(R)
CANCELLED	⊗
SAND & GRAVEL	(S)

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP 380, SEC 63, SUBSEC 1

·NOTES·

FLOODING RESERVATION TO CONTOUR ELEVATION 241·0 Ft FROM GRAND RAPIDS TO TAILWATER OF KIPLING G.S.T. RESERVED FOR ONTARIO HYDRO.

FLOODING RESERVATION ON ADAM CREEK EXTENDED TO 2000' EACH SIDE OF CENTERLINE OF CREEK, RESERVED FOR ONTARIO HYDRO.

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY

S.R.O. – SURFACE RIGHTS ONLY

M.+S. – MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File

(R1) LAND NOT OPEN FOR STAKING, SEC. 31(1) OF THE MINING ACT R.S.O. 1980

(R2) MINING AND SURFACE RIGHTS WITHDRAWN FROM PROSPECTING, STAKING OUT, SALE OR LEASE UNDER SECTION 35 OF THE MINING ACT R.S.O. 1990 ORDER NO. W-P 38/94 NER DATED 94-MAY-02

1995

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000

METRES 0 200 1000 (1 KM) 2000 (2 KM)

ACRES 40 HECTARES 16

2.1595

TOWNSHIP OF

KIPLING

RECEIVED APR 26 1995 MINING LANDS BRANCH

DISTRICT

COCHRANE

MINING DIVISION

PORCUPINE

Ontario — Ministry of Natural Resources — Ministry of Northern Development and Mines

ACTIVATED AUG 18/93 BY D.C. / CHECKED BY L.K.

Date	Plan No
JULY 1986	G-896

National Topographic Series

MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

PORCUPINE MINING DIVISION

SCALE: 40 CHAINS 1 INCH

(R2) NRO 26/85 MR+SR RE-OPENED JULY 15/85

2.15956

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MINING LANDS BRANCH

400' Surface rights reservation around all lakes and rivers.

Areas withdrawn from staking under Section 43 of the Mining Act, R S O 1970

Order No	File	Date	Disposition

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON

FLOODING RIGHTS RESERVED TO 2000 FT EACH SIDE OF CENTRE LINE OF ADAMS CREEK TO ONTARIO HYDRO

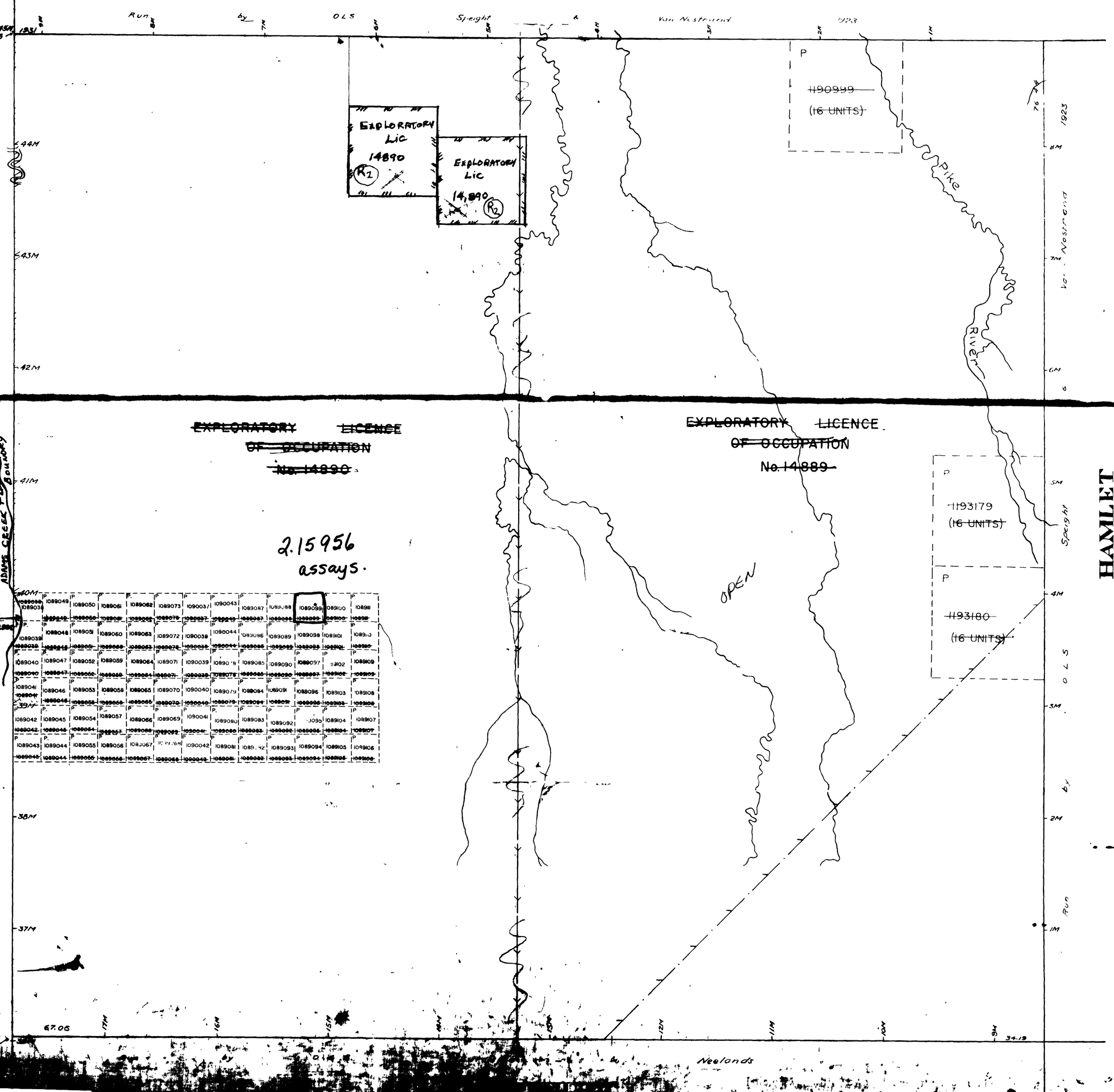
LEGEND

CANCELLED	C
PATENTED LAND	(P)
CROWN LAND SALE	C.S.
LEASES	(L)
LOCATED LAND	LOC
LICENSE OF OCCUPATION	L.O
MINING RIGHTS ONLY	MRO
SURFACE RIGHTS ONLY	SRO

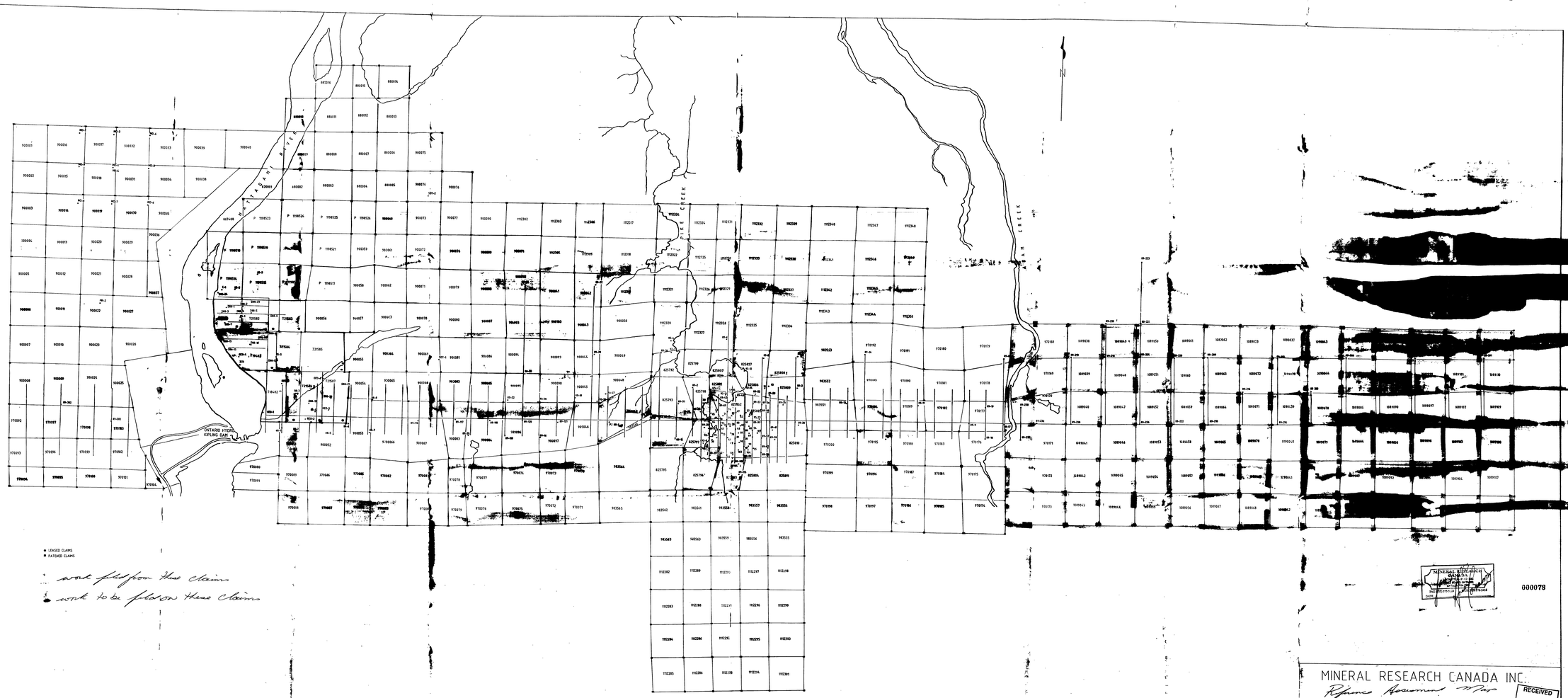
HECLA

KIPLING

HAMLET



42J01NE0016 2.15956 KIPLING
210



● LEASED CLAIMS
● PATENTED CLAIMS

work filed from these claims
work to be filed on these claims

MINERAL RESEARCH CANADA INC.

Refine Assessment Map

DRILL HOLE PLAN

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APR 2 6 1989
MINING LAND SECTION

2.1505.6

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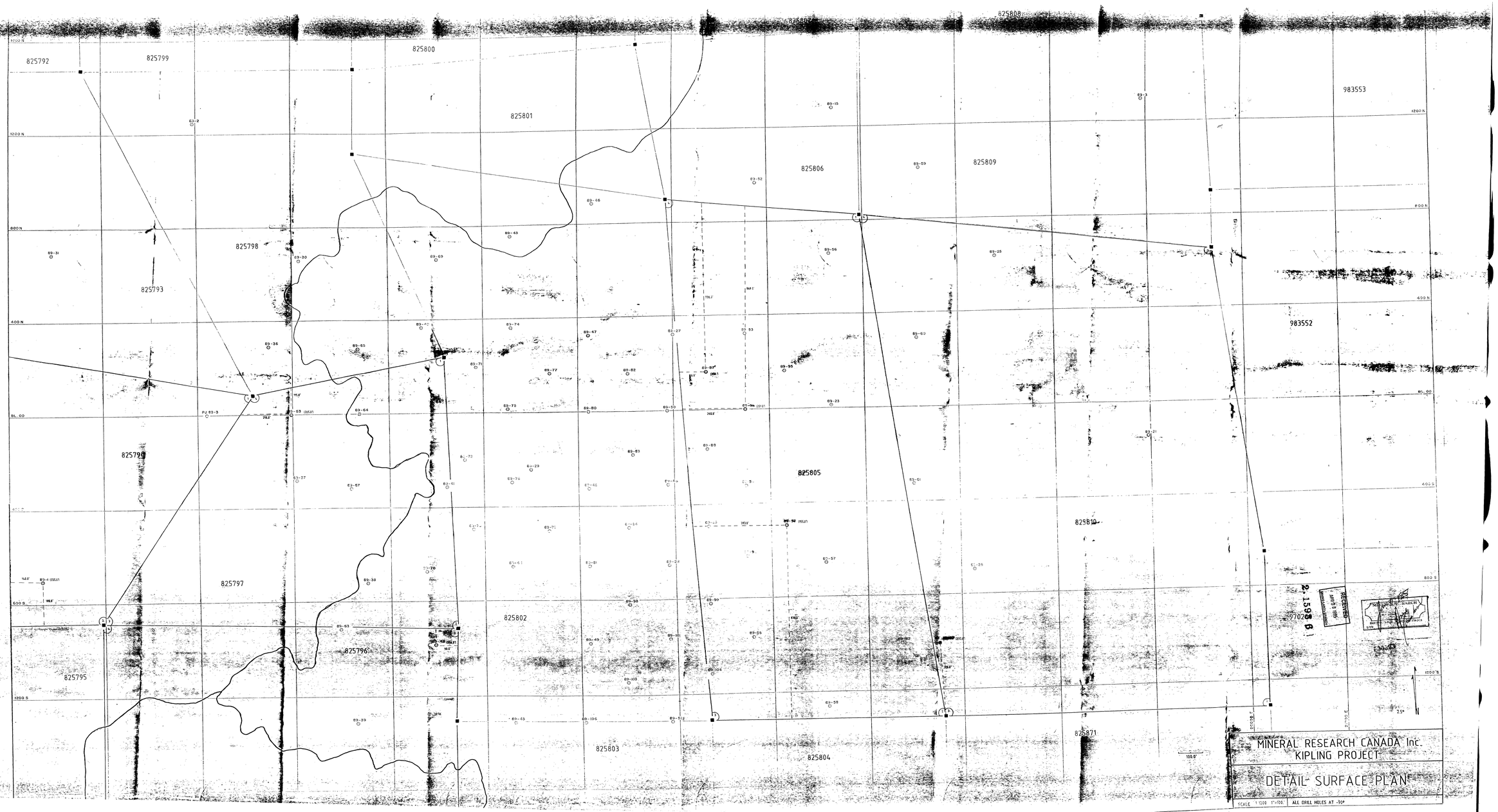
000073

SCALE: 1:12000 1"=1000	DRAWING NO:	DATE: JULY 1989

220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983552
825794
825805
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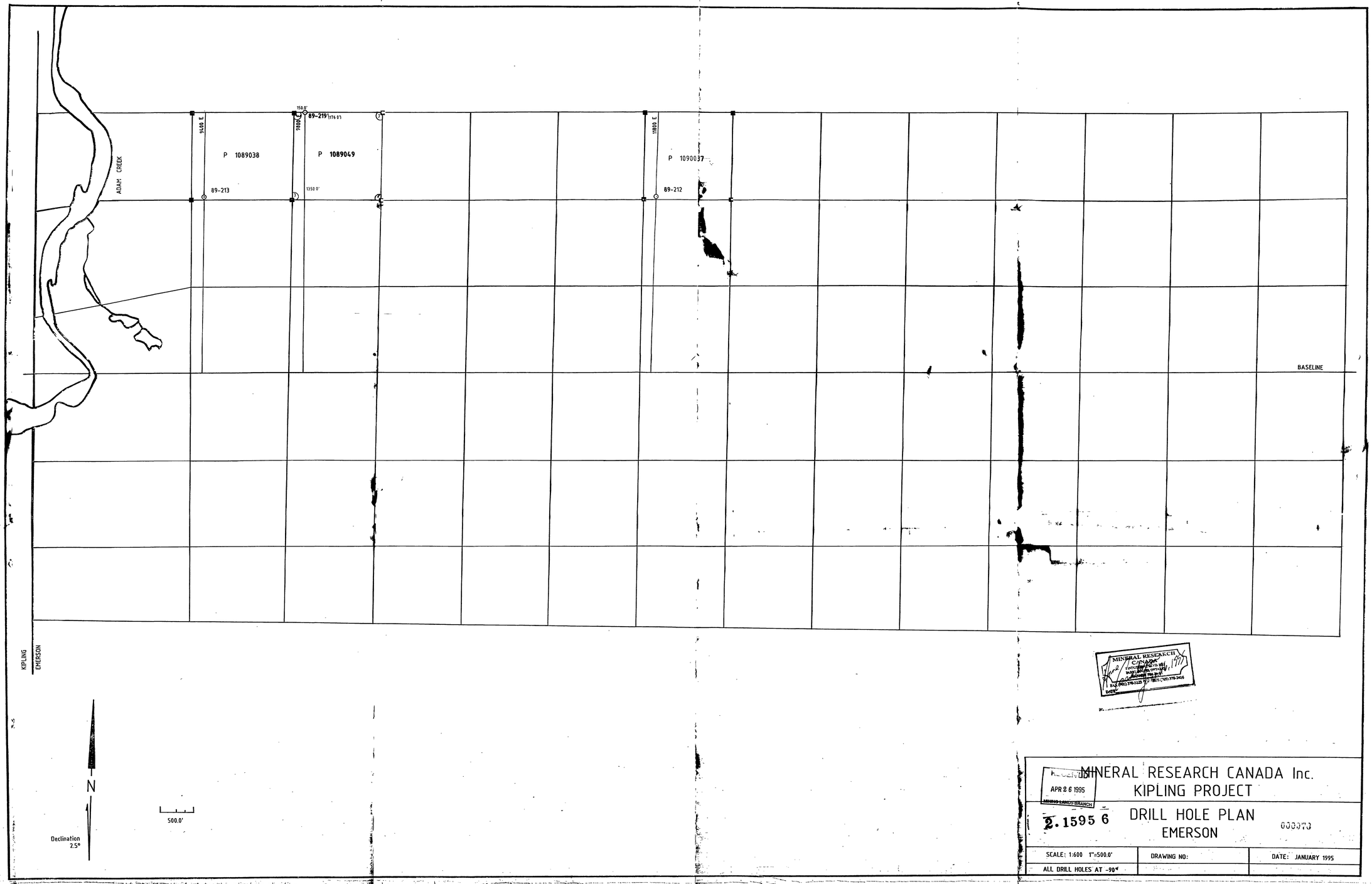
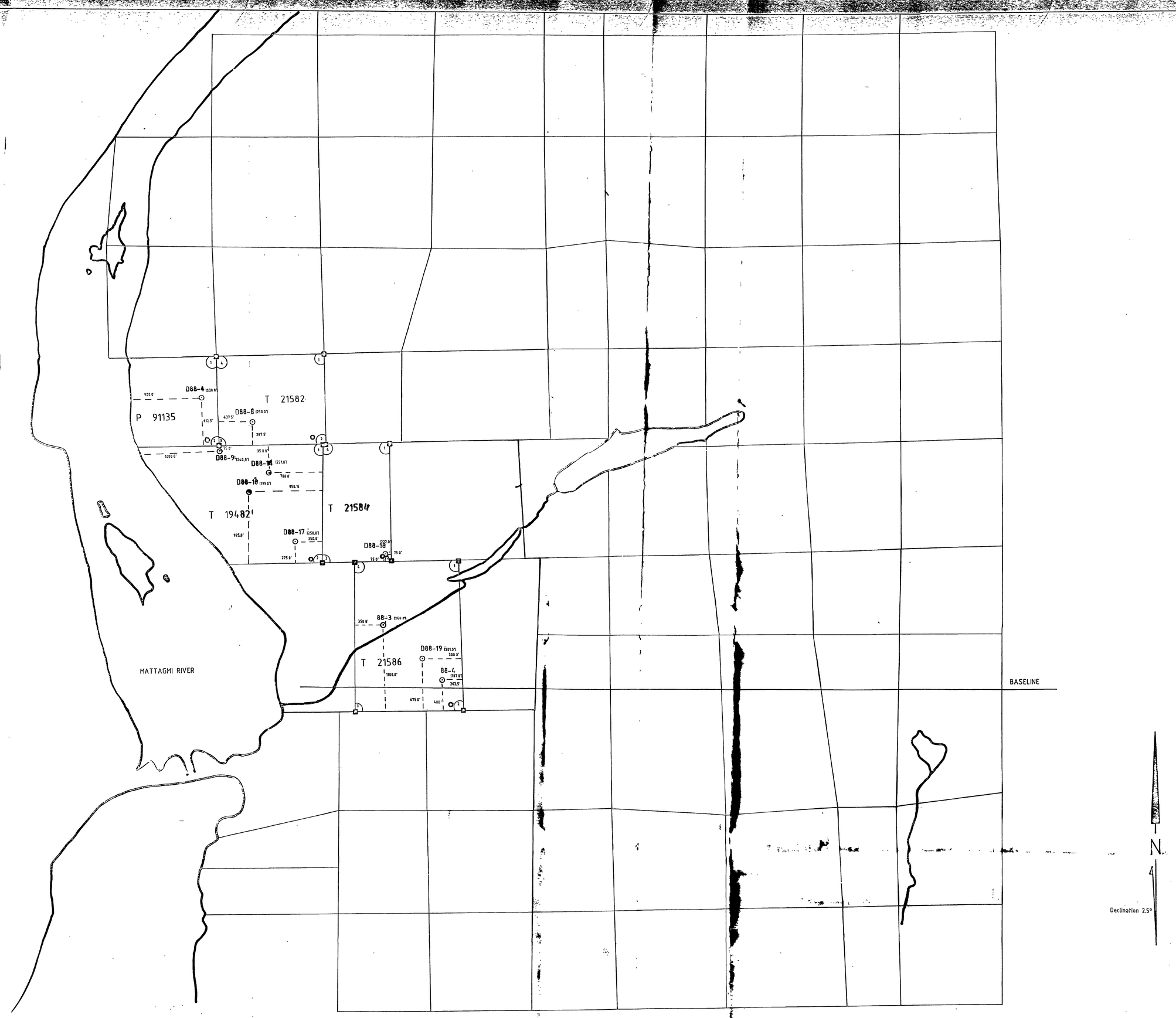
825797
825802
825796
825795
825803
825804
825871
1200 N
800 N
400 N
BL. 00
400 S
800 S
1200 S
MINERAL RESEARCH CANADA Inc.
KIPLING PROJECT
DETAIL SURFACE PLAN
SCALE 1:200 1"=100'
ALL DRILL HOLES AT -90°
RECEIVED
2.1598 B
97028



RECEIVED
APR 26 1995
MINING LANDS BRANCH

2.1595 6

000370



Claim Post
Patented Claim
Leased Claim

500.0'

2.15953

MINERAL RESEARCH CANADA Inc.

KIPLING PROJECT

DRILL HOLE PLAN

DOUGLAS

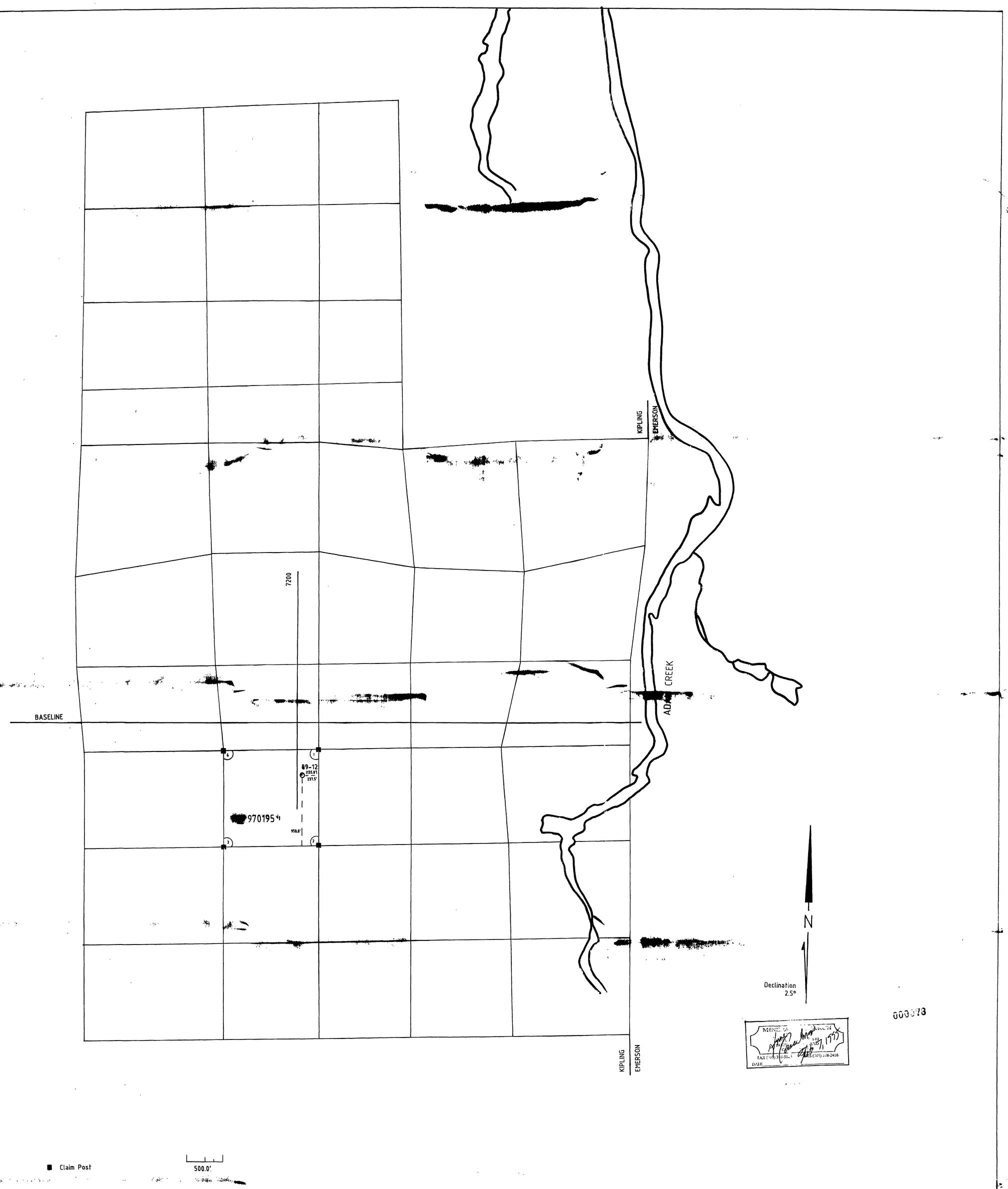
RECEIVED
APR 26 1995
MINERALS BRANCH

000073

SCALE 1:600 1.0"=500.0'	DRAWING No:	DATE: FEBRUARY 1995
ALL DRILL HOLES AT -90°		

42J01NE0015 2.15953 KIPLING

250



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MINERAL RESEARCH CANADA Inc.
KIPLING PROJECT 2.1595 6

DRILL HOLE PLAN
ADAM CREEK EAST

RECEIVED
APR 26 1995
MINING LANDS BRANCH

SCALE: 1:600 1.0"=500.0'	DRAWING No.	DATE: FEBRUARY 1995
ALL DRILL HOLES AT -90°		

SING OF MINING CLAIMS

P 825792,P 825793,P 825794,P 825795,P 825796,P 825797,P 825798,
P 825799,P 825800,P 825601,P 825802,P 825803,P 825804,P 825805,
P 825806,P 825807,P 825808,P 825809,P 825810 AND P 825811

TOWNSHIP OF KIPLING

DISTRICT OF COCHRANE

SCALE – 1 inch = 400 feet
1 : 4200

400.0'

SCHEDULE					
PART	MINING CLAIM	ACRES	HECTARES	PARCEL	RIGHTS
1	CLM 419	662.13'	267.956	CROWN	SURFACE AND MINING
TOTAL AREA		662.13	267.956		
KIPLING TOWNSHIP					

P 900092
89-24
P 900044
89-20
P 900095
89-32
92-30
P 900045
89-18
92-28
P900048
92-27
PJ88-1
P 900047
89-120
89-16
89-119
P 900097
P 900096
P 1112320
92-4
92-3
P 1112328
89-6
P 1112335
P 1112336
P 1112343
P 825792
P 825793
92-29
P 825798
P 825800
P 825807
89-5
92-12
92-14
P 825806
92-15
92-13
P 825802
P 825803
P 825794
PJ88-2
PJ88-3
SOLAR OBSERVATION
P 825797
92-7
89-113
89-114
CLM 419
3.70'(120m)RES = 246.09Ac(99.589ha)
REM.LAND = 416.04Ac(168.367ha)
TOTAL = 662.13Ac(267.956ha)
P 825804
P 825808
P 883553
P 883552
P 883551
P 870200
P 870199
P 883558
P 883557
P 883554
Declination 2.5°

RECEIVED
APR 26 1995
MINING LANDS BRANCH

2.1595 6

MINERAL RESEARCH CANADA INC.
1 LONG LAKE ROAD, BOX
SUDBURY, ONTARIO
P3A 1R8
FAX (705) 3794122 BUS (705) 379-2413
DATE

KEY PLAN
SCALE – 1 inch = 2640 feet

CLM 419
PROPOSED ACCESS ROAD
KIPLING
EMERSON
TOWNSHIP OF
TOWNSHIP OF
ROAD
35M
36M

LEGEND

□	DENOTES	PLANTED MONUMENT (CLAIM POSTS)
■	DENOTES	FOUND MONUMENT (CLAIM POSTS)
IB	DENOTES	5/8 IN SQ IRON BAR 2.0 FT LONG
SIB	DENOTES	1 IN SQ IRON BAR 4.0 FT LONG
2SIB	DENOTES	1 IN SQ IRON BAR 2.0 FT LONG
BC	DENOTES	BRASS CAP
WIT	DENOTES	WITNESS
WP	DENOTES	WOODEN GUIDE POST
BT	DENOTES	BEARING TREE
PLT	DENOTES	PLANTED
FD	DENOTES	FOUND

ALL HANGING LINES HAVE BEEN VERIFIED
- ALL DRILL HOLES DIP AT -90°

MINERAL RESEARCH CANADA Inc.

KIPLING DRILL PLAN

000078

BEARING NOTE

BEARINGS ARE ASTRONOMIC AND ARE DERIVED FROM SOLAR OBSERVATIONS AT CORNER 2E CLM 419 (LONGITUDE 82°06'50") AND REFERRED TO THE MERIDIAN THROUGH THE CENTRE OF KIPLING TOWNSHIP (LONGITUDE 82°10'30")