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MINERAL RESEARCH CANADA

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Canada P2A 2W8

LOCATION AND ACCESS TO PROPERTY

The kaolin/silica project claims are located in the townships of Kipling and Emerson in the area of the and comprises the claims historically known as the Douglas property. The property is 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 807 from Smooth Rock Falls to Fraserdale (approximately 45 miles). Then a private Ontario Hydro road may be taken west for 40 miles to Smoky Falls dam. A road then continues north for approximately 6 miles to the Kipling dam.

CLAIM NUMBERS

The kaolin/silica property consists of 258 (as of Oct 24, 1991), as well as 8 patented and one leased claim. The claim numbers are 1089038 to 1089073, 1089078 to 1809111, 1090037 to 1090044, 1112282 to 1112306, 1112317 to 1112351, 82592 to 825811, 880001 to 880016, 970070 to 970104, 970168 to 970200, and 983551 to 983566.

The claims numbers that this work is to be filed on are 1112282 - 1112306 & 1112317 - 1112351.

OWNERSHIP

The claims are wholly owned by 798839 operating as Mineral Research Canada.

PREVIOUS WORK

The property history as compiled by A.C. Gourley (1989) sites Robert Bell of the GSC as the first person to document the presence of 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 and 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.

15 holes were drilled in 1959-60 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 feet north of the Douglas property in 1962. This hole is now known as C-1 after the ownership transferral to the Chesterfield Mining and Exploration Co. Ltd.

Exploration in this area continued in 1970, when Indusmin Ltd. drilled nine holes. The overburden depth in this area was approximately 100 ft.

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

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

Drilling was again conducted during 1981 by Selco Ltd after a airborne magnetometer survey. 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 failed to complete option payments on the property and resulted in forfeiture.

In 1989 the Douglas property was acquired by 788839 Ontario Ltd. (under the management of James Bay Kaolin Corporation) as well as adjoining claims were staked to bring the total to 380 claims. An exhaustive drilling program was undertaken of 168 holes. Samples were Whole Rock Assayed, STEM work was undertaken, viscosity, abrasion, particle size distributions, isometric projections, various separation techniques developed as well the construction of a pilot plant began.

In 1990 James Bay Kaolin was relieved of its managerial duties due to an improper rendering of accounts. The testing work continues under the name of Mineral Research Canada (a division of 798839 Ontario Ltd).

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 incorporation 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 TE - 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 Einlechner 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 $100 g/m^2$.

A. *Amundson*

ROTARY DRILL HOLE RECORD

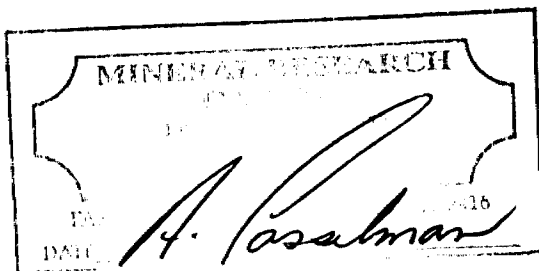
Drilling Started: March 16, 1989	Logged By: A. Casselman
Drilling Finished: March 17, 1989	Logged: Sept. 11-12, 1989
Length: 86.0'	Drilling Co. Midwest Drill.
Claim No.: 825803	Core: 3.5"
Property: Kipling	Dip Collar: -90
Northing: 618 S	Core Storage:
Easting: 5595 E	Mineral Research Canada
Overburden Depth: 38.0'	R. R. # 2
Hole Number: 89-115	Parry Sound, ON
	P2A 2W8

SUMMARY

From	To	Description
0.0'	5.0'	Peat
5.0	13.5	Glacial Sandy Clay Till
13.5'	38.0'	Glacial Silty Clay Till Pleistocene - Overburden
38.0'	86.0'	Highly Altered Contact Zone Cretaceous Presumably extremely decomposed Bedrock

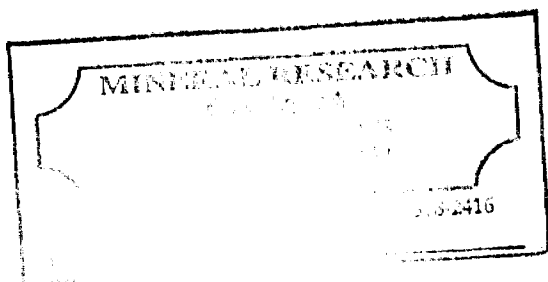
EOH - 86.0'

2. 14898



Detail Log 89-115

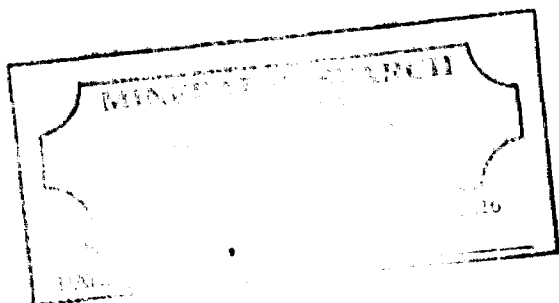
From	To	Sample No.	Description
0.0'	5.0'		Peat
5.0'	13.5'		Glacial Sandy Clay Till - medium to fine grain, red/brown, highly compacted where there is areal exposure, becoming more chocolate brown downsection.
13.5'	38.0'		Glacial Silty Clay Till - silty, medium grey with rare, small shale-like clasts, from 13.5 - 16.0' clast size greatly increases, up to 4.5" from 16.0' - 18.0', from 18.0' - 25.0' clasts are fewer and smaller, 25.0' - 30.0' - till is fissile and crumbly, with rare 0.5" carbonate clasts, 30.0' - 38.0' - highly competent, medium grey, silty numerous gneissic clasts up to 0.25".
38.0'	41.0'	551	Alteration Material - kaolin is found as clots and finely dispersed throughout and as laminations, no feldspathic matter but, garnet & epidote are disseminated, high biotite and chlorite contents, quartz is angular (milky and smoky), generally the material is green with pink areas due to the presence of disseminated garnet, 39.5% clay size particles, basically three groups of particle sizes (39.24% kaolin by calculation from WRA - in this instance the calculation is obviously of no use.)
41.0'	46.0'	552	Alteration Material - as above, less kaolin, more finely dispersed, garnet is less disseminated, predominantly green with kaolin clots, as well as dispersed kaolin, a more compacted portion of about 0.5' at 49.0'. 44.86% kaolin.
46.0'	51.0'	553	Alteration Material - 46.0' - 47.0' - higher kaolin content, well laminated, 47.0' - 48.0' - finely disseminated chlorite with very few



kaolin laminations, 49.0 - 51.0' - strongly laminated, higher kaolin contents, more apparent garnet and silica. 49.44% kaolin.

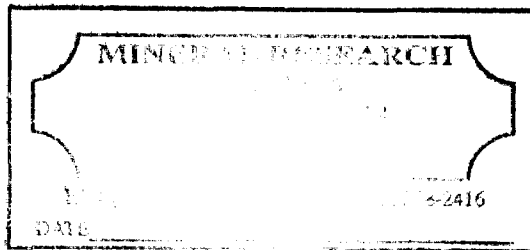
51.0'	57.0'	554	Alteration Material - as from 49.0 - 51.0' not as heavily laminated. 46.68% kaolin.
57.0	63.0'	555	Alteration Material - as above, green, pink and white. 45.39% kaolin.
63.0'	65.0'	556	Alteration Material - as above, less green, higher kaolin and garnet content. 57.67% kaolin.
65.0'	71.0'	557	Alteration Material - as above, higher kaolin content, fewer laminations. 43.95% kaolin.
71.0	73.0	558	Alteration Material - dark green, segmented, crumbly, very few garnets present, less disseminated than previous, rare small kaolin clots, higher biotite and sericite/serpentine content, perhaps as the result of a mafic package. 43.59% kaolin.
73.0'	76.0'	559	Alteration Material - as at 65.0 - 71.0', high kaolin content in the form of seams, no apparent garnet, high chlorite and serpentine content. 44.18% kaolin.
76.0'	79.0'	560	Alteration Material - dark green, as previous at 71.0 - 73.0'. 36.23% kaolin.
79.0'	86.0'	561	Alteration Material as above, fissile, dark green, low kaolin content, no apparent garnet or silica, biotite, chlorite and serpentine are common. 41.87% kaolin.

EOH - 86.0'



SECTION 89-115

Claim No.: 825803
Length: 86.0'
Overburden Depth: 38.0'
Northing: 618 S
Easting: 5595 E
Scale: 1.0" = 50.0'
Dip Collar: -90



89-115

Sandy Till

Silty Till

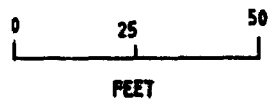
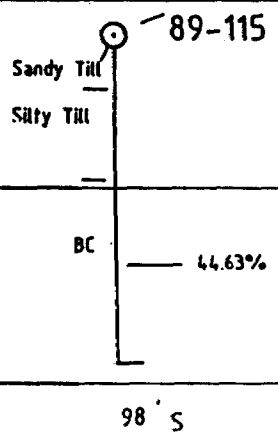
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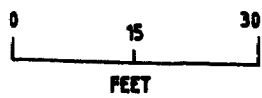
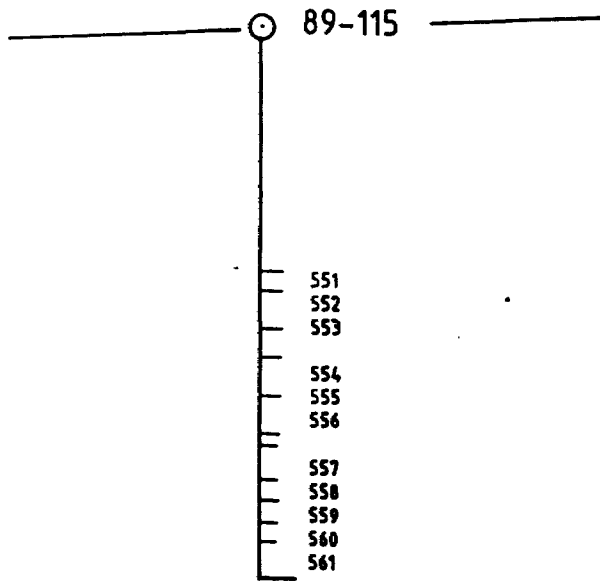
98' S

A. Cassman



MINNESOTA GEOLOGICAL SURVEY
ST. PAUL, MINN.
1915
A. Casselman





ROTARY DRILL HOLE RECORD

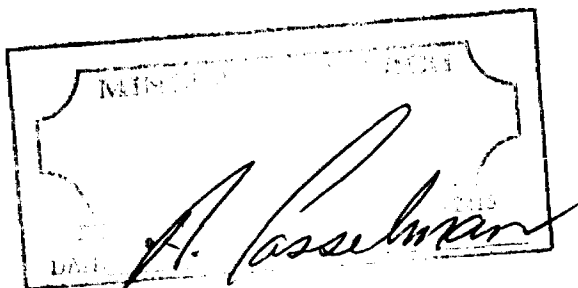
Drilling Started - March 15, 1969
 Drilling Finished - March 16, 1969
 Length - 196.0'
 Claim No. - 828800
 Property - Mining
 Dip Corral - 750
 Hole No. - 84 - 111
 Overburden - 94.0'

Logged By - A. Casselman
 Date Logged - Oct. 3, 1989
 Drill Co. - Midwest Track
 Core - 3.5"
 Northing - 630 S
 Easting - 5550 E
 Core Storage -
 Mineral Research Canada
 R. R. # 2
 Parry Sound, ON
 P2A 2W6

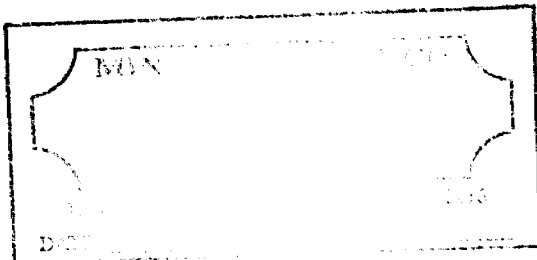
Summary

From	To	Description
0.0	1.0	Peat
1.0	7.0	Clay - rich 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	118.0	Clay
118.0	118.0	Kss
118.0	121.0	Clay
121.0	130.0	sandy Clay
130.0	131.0	Kss
130.0	135.0	Lignite, Clay & Sandy Clay
135.0	136.0	Kss
136.0	146.0	Clay

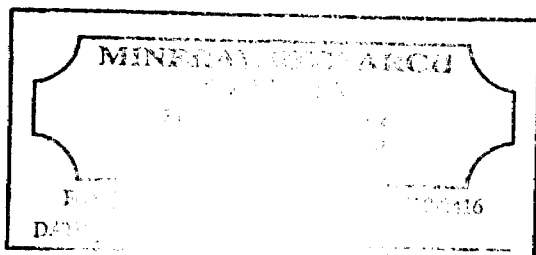
EOH - 196.0'



From	To	Sample No.	Description
0.0	1.0		Feat
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	12.0		Till - clast-free, dark brown with green/grey clay clots from 11.0 - 12.0', competent.
12.0	31.0		Till - dark brown - sandy, with clasts up to 4.0" of carbonate and gneissic lithologies, clasts are angular to sub-angular, competent. *
31.0	36.0		Till - medium brown, clast-free, dried, fissile.
36.0	41.0		Till - as previously described - *
41.0	44.0		Till - as above, less sandy.
44.0	46.0	15051	Kss - medium grain, white, minor illite and heavies.
46.0	101.0	15052	Kss - as above.
101.0	102.0	15053	Kss - as above, lower contact contains sandy clay with large rounded smoky quartz clasts, buff, high illite content.
106.0	111.0	15054	Kss - as above, sandy clay interspersed.
111.0	113.0	15055	Kss - as above, light grey.
113.0	118.0	15056	Clay - pliable, grading from yellow at upper contact to orange, then from red to buff & grey mottled at lower contact.



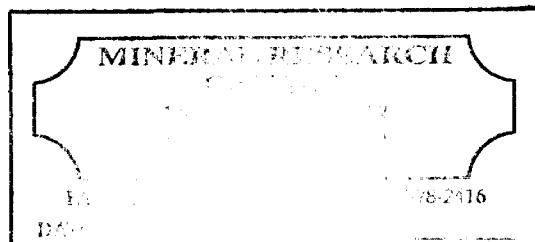
115.0	116.0	15057	Kss - light brown, minor heavies, medium grain, rare larger rounded milky quartz, low clay content.
116.0	121.0	15058	Clay - red & grey mottled, pliable, grading into grey clay, then to grey sandy clay, medium grain with minor illite and heavies, also concord purple clots, some what pinkish at lower contact, at 118.0, the red colouration ends.
121.0	126.0	15059	Sandy Clay - grey, competent, medium grain, minor illite and heavies, purple clots & seams, one disseminated pyrite nodule, 1.0", surrounded by purple staining, at 125.0.'
126.0	130.0	15060	Sandy Clay - as above.
130.0	136.0	15161	Kss - fine grain, white, grey/brown, minor illite and heavies.
136.0	141.0	15162	Kss - medium grain, coarsening downward to coarse grain, white to light grey, minor illite, and heavies.
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 gypsum), (2) 4.0" dolomitic sandstone clasts, grey, medium grain, darker weathered surface, rounded, fossiliferous, - primarily crinoids - Devonian material.
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.
150.0	156.0	15065	Kss - medium grain, grey, 156.0 - 156.75 is buff sandy clay with a high illite content.
156.0	161.0	15066	Kss - medium grain, light grey, minor illite and heavies, 156.0 - 156.0



contains inclusions of sandy clay as previously described.

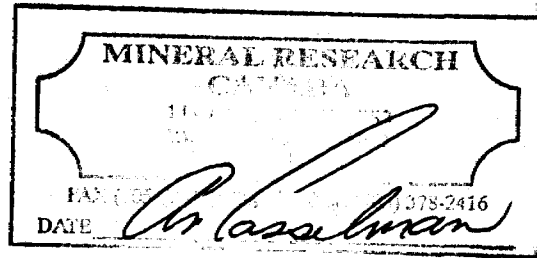
161.0	166.0	15067	Kss - medium grain & coarse grain alternating, light to medium grey, vari-coloured sub-rounded silica, high illite in medium grain portion.
166.0	168.0	15068	Kss - medium grain, medium brown, dried.
168.0	169.5	15069	Lignite, Clay, & Sandy Clay - Black fibrous, compressed fossil wood beds interbedded with light brown, pliable clay, as well as chocolate brown and black sandy clay with minor illite.
169.5	176.0	15070	Kss - white, dried, medium grain, with larger smoky quartz clasts up to 2.0", rounded.
176.0	183.0	15071	Kss - coarsening and darkening downward from light to medium brown, and from medium to coarse grain.
183.0	188.0	15072	Clay - 0.0" of buff to dark brown sandy clay, with black laminations, high illite contents, clay is black, disk-like, greasy, and highly competent.
188.0	191.0	15073	Clay - black, grading from pliable to fissile to frequent brown laminations, some illite.
191.0	196.0	15074	Clay - black as above.

EOH - 196.0'



Section 89-113

Claim Number - 025003
Northing - 050 S
Easting - 5550 E
Dip Collar - -90
Length - 198.0'
Overburden Depth - 111.0'
Scale - 1.0' = 50.0'



MINERAL RESEARCH
 DATE: *A. Cassman*
 2416

89-113

Sand/Grav. —

Glacial Till

KSS —

Clay —

Sandy Clay —

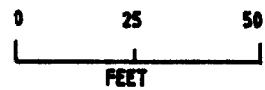
KSS

Lignite ==

KSS —

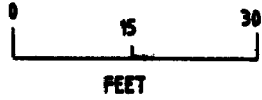
Clay —

20' N



89-113

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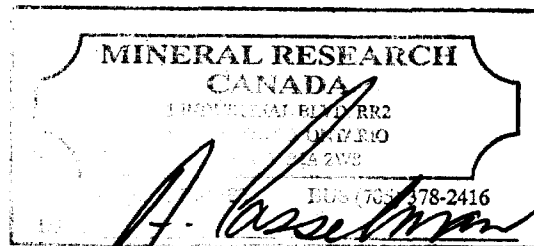
ROTARY DRILL HOLE RECORD

Started: March 15, 1989
 Finished: March 15, 1989
 Length: 205.0'
 Claim No.: 825803
 Northing: 520 S
 Easting: 5440 E
 Logged: Oct. 11, 1989
 Overburden Depth : 116.0'
 Hole Number: 89-114

Logged By: A. Casselman
 Drill Co.: Midwest Track
 Core Size: 3.5"
 Property: Kipling
 Dip Collar: -90
 Core Storage:
 Mineral Research Canada
 R. R. # 2
 Parry Sound, ON
 P2A 2W8

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



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.
110.0	115.0	15102	Sandy Clay - as above.
115.0	117.0	15103	Kss - medium grain, lightening downsection from chocolate brown to white, minor heavies.
117.0'	121.0	15104	Kss - medium grain, minor illite and heavies, white.

121.0'	126.0'	15105	Kss - coarse grain, coarsening downsection, vari-coloured silica, rounded.
126.0'	130.0	15106	Kss - as above.
130.0'	135.0	15107	Kss - as above.
135.0'	139.0'	15108	Kss - as above, with numerous white pliable clay clots, up to 0.5".
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.
144.0	150.0	15110	Kss - coarse grain as above.
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.
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.
160.0	165.0	15113	Kss - coarse grain, darkening downsection, large rounded yellow cherts and smoky quartz clasts in a medium grain matrix.
165.0	170.0	15114	Sandy Clay - chocolate brown, with black laminations, some mottled areas of lighter and darker.
170.0	175.0	15115	Sandy Clay - as above.
175.0	180.0	15116	Sandy Clay - black, highly competent, medium grain.
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.
185.0	190.0	15118	Sandy Clay - chocolate brown, with black carbonaceous seams, relatively high sand content, minor illite.
190.0	195.0	15119	Sandy Clay - as above.

SECTION 89-114

Claim No.: 825803
Depth: 205.0'
Dip Collar: -90
Northing: 520 S
Easting: 5440 E
Scale: 1.0" = 50.0'
Overburden Depth: 100.0'

195.0' 201.0' 15120 Sandy Clay as above - increasing number of pliable clay clots downsection.

201.0' 204.0' 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.

204.0' 205.0' 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.

EOH - 205.0'

MINNESOTA RESEARCH
CORPORATION
12000
10
PHONE 375-2416
A. Cassman

○ 89-114

L, Clay/Sand

Sand

Glacial Till

Sandy Clay

KSS

Sandy Clay

Clay

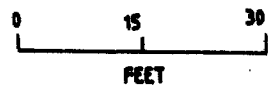
Sandy Clay

KSS

0 25 50
FEET

89-114

- 15101
- 15102
- 15103
- 15104
- 15105
- 15106
- 15107
- 15108
- 15109
- 15110
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- 15120
- 15121
- 15122



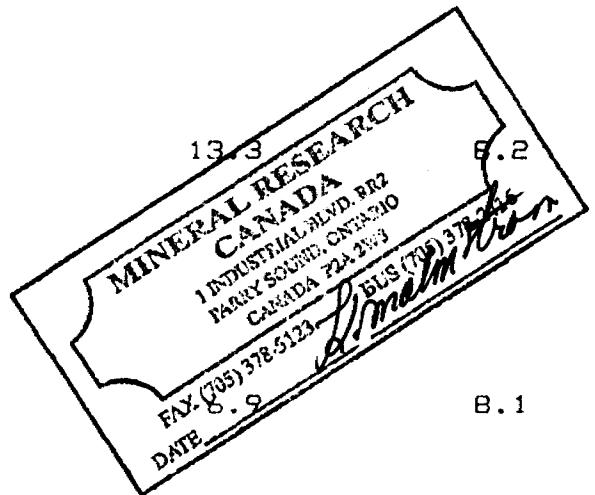
MINERAL RESEACH CANADA

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

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
89-113 15051 94.0- 96.0'	+ 4	1.3	10.2	8.2
	+ 40	9.3		
	+100	65.5		
	+200	7.2		
	+325	2.6		
	-325	14.1		
15052 96.0-101.0'	+ 4	0.7	10.6	8.2
	+ 40	63.7		
	+100	26.7		
	+200	1.6		
	+325	0.8		
	-325	6.5		
15053 101.0-106.0'	+ 4	0.7	12.3	8.2
	+ 40	40.5		
	+100	36.1		
	+200	4.6		
	+325	2.1		
	-325	16.0		
15054 106.0-111.0'	+ 4	0.9	13.3	8.2
	+ 40	41.7		
	+100	42.1		
	+200	3.6		
	+325	1.6		
	-325	10.1		
15055 111.0-113.0'	+ 4	1.1	8.9	8.1
	+ 40	59.2		
	+100	16.3		
	+200	4.6		
	+325	2.7		
	-325	16.1		



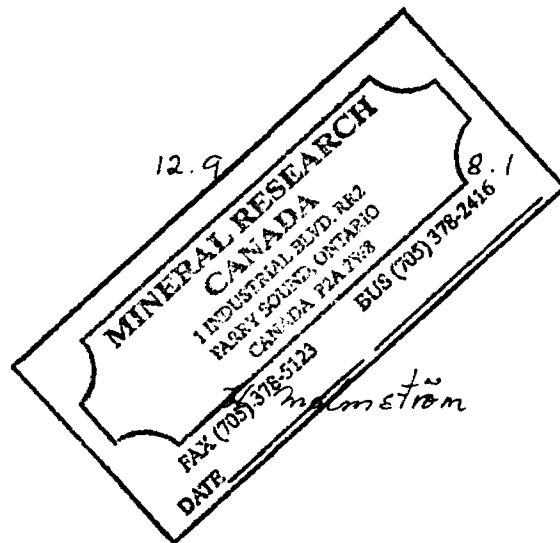
MINERAL RESEARCH CANADA

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

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
89-113 15056 113.0 - 115.0'	+ 4	0		
	+ 40	0		
	+100	2.0	16.7	8.1
	+200	4.2		
	+325	6.4		
	-325	87.4		
15057 115.0 - 116.0'	+ 4	0.9		
	+ 40	76.9		
	+100	11.7	3.1	8.2
	+200	2.0		
	+325	1.2		
	-325	7.3		
15058 116.0 - 121.0'	+ 4	0		
	+ 40	0.1		
	+100	21.6	13.1	8.1
	+200	31.2		
	+325	5.4		
	-325	42.7		
15059 121.0 - 126.0'	+ 4	0		
	+ 40	0.1		
	+100	58.6	14.1	8.1
	+200	17.1		
	+325	3.9		
	-325	20.3		
15060 126.0 - 130.0'	+ 4	0		
	+ 40	0.1		
	+100	33.5	12.9	8.1
	+200	26.4		
	+325	5.5		
	-325	34.5		



89-113

Kaolin

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PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA /217
 SAMPLE ID: Hole 89-113 # 15051
 SUBMITTER: James Day Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 11:00:00 10/13/89
 REPRT 11:17:35 10/13/89
 TOT RUN TIME 0:17:19
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7262 cc

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.10 μ m

MODAL DIAMETER: 4.34 μ m

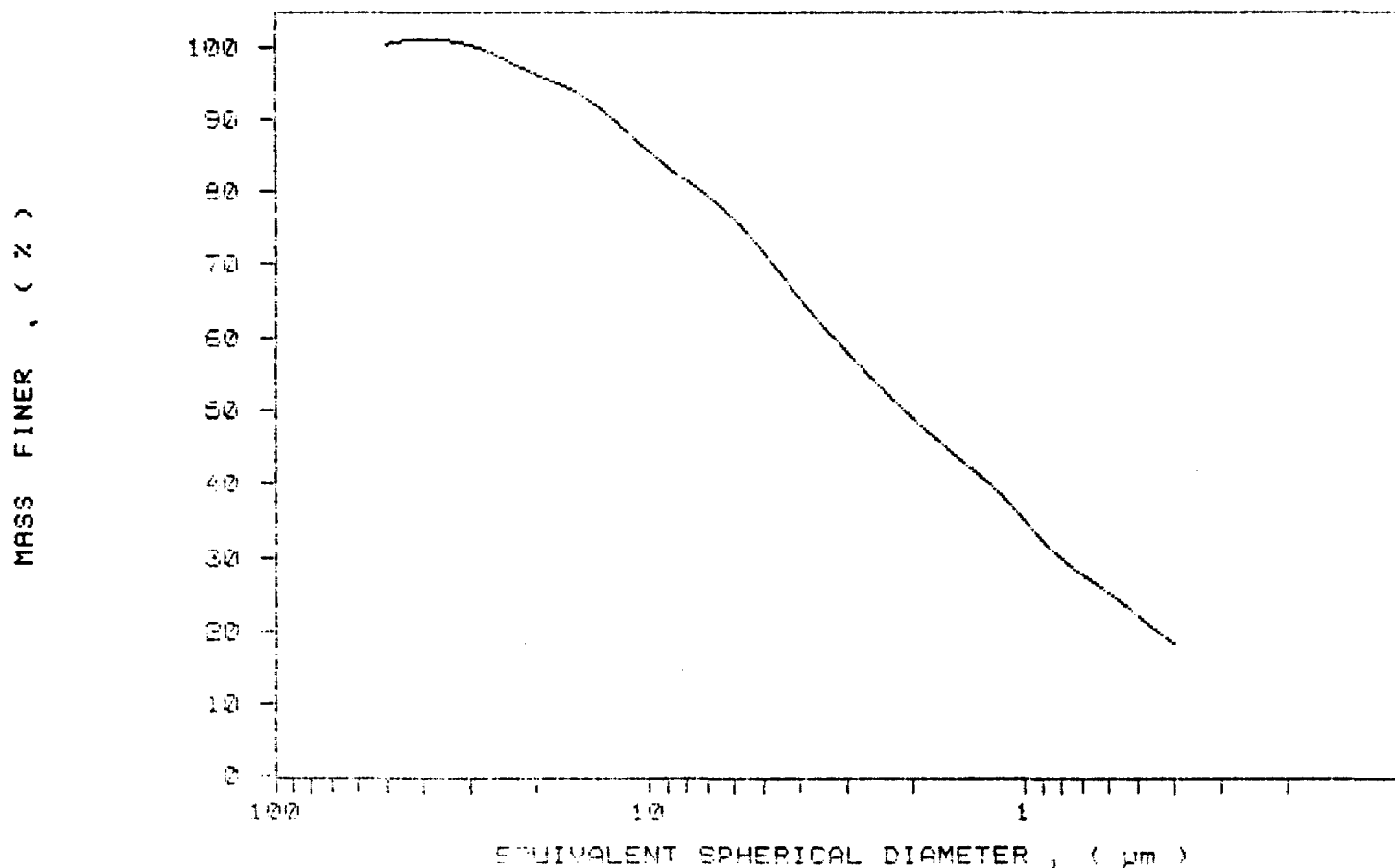
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	100.4	-0.4
40.00	101.0	-0.6
30.00	100.2	0.8
25.00	98.5	1.6
20.00	96.2	2.3
15.00	93.2	3.1
10.00	89.4	3.7
8.00	81.6	3.8
6.00	76.2	5.4
5.00	71.7	4.5
4.00	65.2	6.5
3.00	58.1	7.2
2.00	48.9	9.1
1.50	43.4	5.5
1.00	34.0	9.4
0.75	28.7	5.3
0.50	23.2	4.5
0.30	22.0	1.2
0.40	18.0	3.0



SAMPLE DIRECTORY/NUMBER: DATA1 /217
SAMPLE ID: Hole 89-113 # 15051
SUBMITTER: James bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 11:00:00 10/13/89
REPRI 11:17:35 10/13/89
TOT RUN TIME 0:17:19
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7202 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA1 /218
 SAMPLE ID: Hole 89-113 # 15052
 SUBMITTER: James bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 95.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 11:37:40 10/13/89
 REPT 11:55:18 10/13/89
 TOT RUN TIME 0:17:18
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7201 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

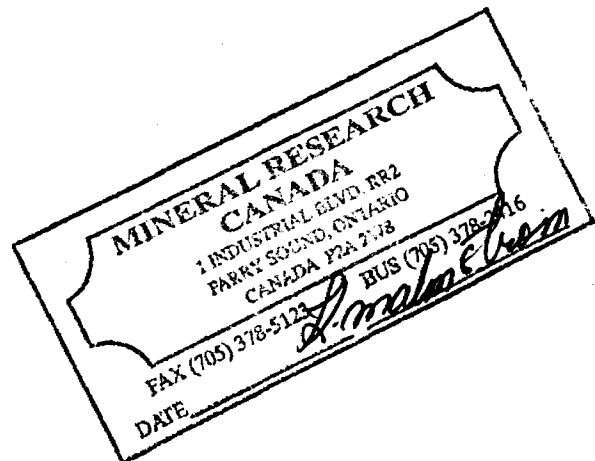
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

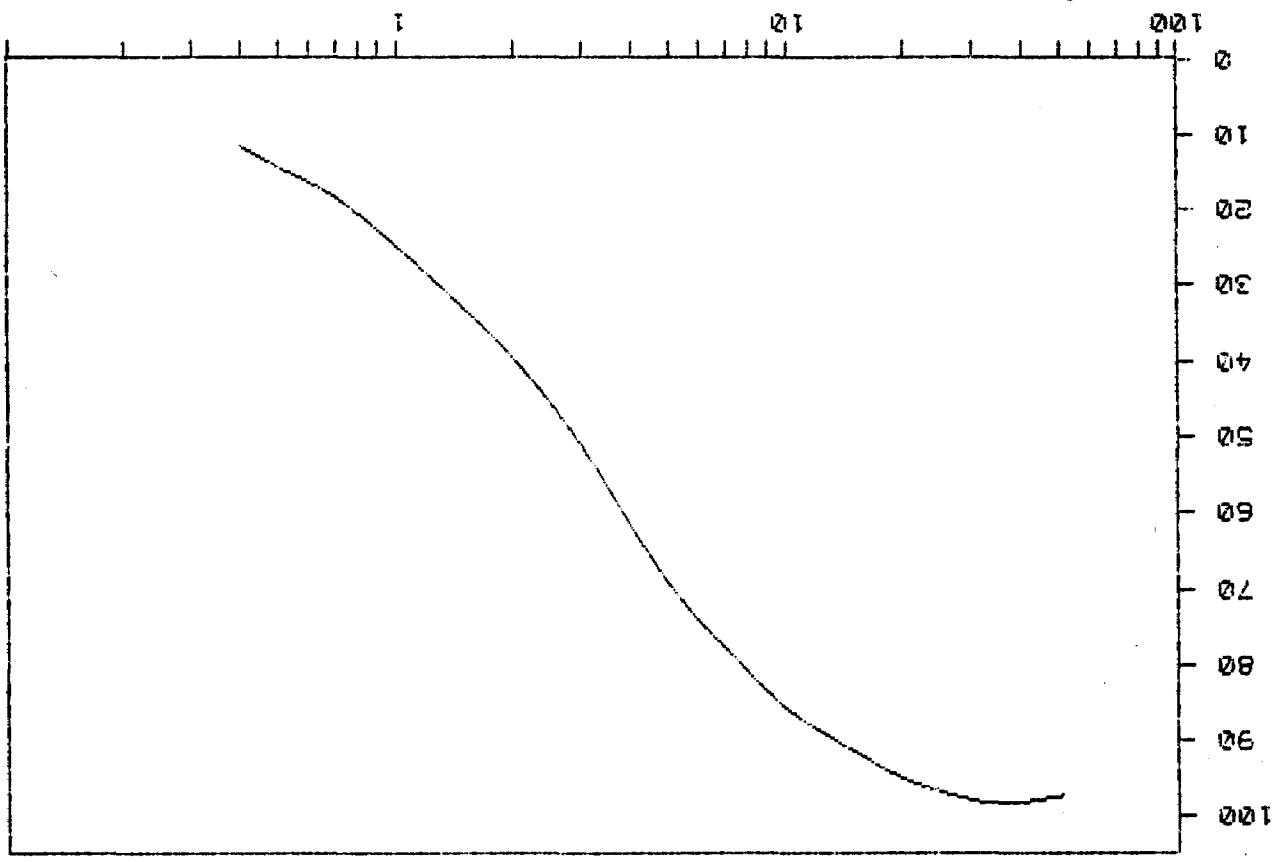
MEDIAN DIAMETER: 2.86 μ m

MODAL DIAMETER: 3.79 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	97.2	2.8
40.00	98.0	-0.8
30.00	97.8	0.2
25.00	96.7	1.1
20.00	95.1	1.7
15.00	91.5	3.5
10.00	85.8	5.7
8.00	81.0	4.8
6.00	74.8	6.7
5.00	69.4	4.9
4.00	61.8	7.6
3.00	51.5	10.3
2.00	39.7	11.8
1.50	33.1	6.6
1.00	24.8	8.4
0.80	20.6	4.2
0.60	16.4	4.2
0.50	14.6	2.0
0.40	11.6	2.8



MASS FINER , (%)



CUMULATIVE MASS PERCENT FINER VS. DIAMETER

SAMPLE DIRECTORY/NUMBER: DATA /218
 SAMPLE ID: Hole 89-113 # 15052
 SUBMITTER: James Day Co.
 OPERATOR: Kaatina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C
 RUN TYPE: Standard
 LOT RUN TIME 0:17:18
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7201 cp
 START 11:57:40 10/13/89
 REPT 11:55:18 10/13/89
 UNIT NUMBER: 1

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Kaatin

Kaolin

SediGraph 5100 V2.00

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SAMPLE DIRECTORY/NUMBER: DATA1 /219
 SAMPLE ID: Hole 89-113 # 15058
 SUBMITTER: James Bay co.
 OPERATOR: kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 12:07:53 10/13/89
 REPRT 12:25:38 10/13/89
 TOT RUN TIME 0:17:24
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7202 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

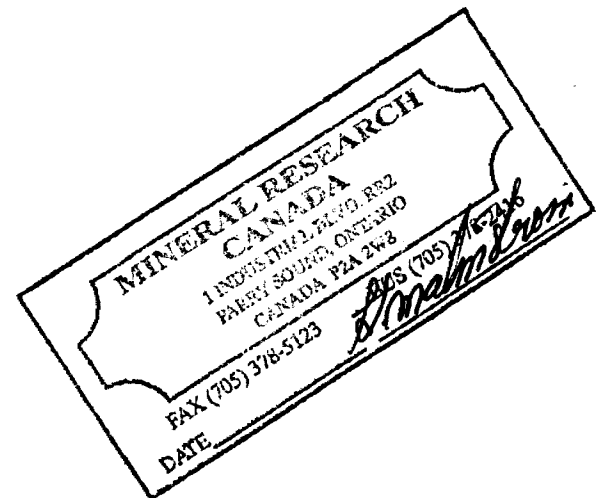
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.77 μ m

MODAL DIAMETER: 3.58 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	100.9	-0.9
40.00	99.2	1.7
30.00	97.8	1.5
25.00	96.0	1.8
20.00	93.6	2.4
15.00	89.7	3.9
10.00	82.8	6.8
8.00	77.4	5.4
6.00	70.4	7.1
5.00	66.1	4.3
4.00	60.2	5.9
3.00	52.1	8.2
2.00	42.2	9.8
1.50	36.1	6.1
1.00	27.3	8.8
0.80	22.0	5.3
0.60	16.0	6.0
0.50	13.0	3.0
0.40	9.2	3.8



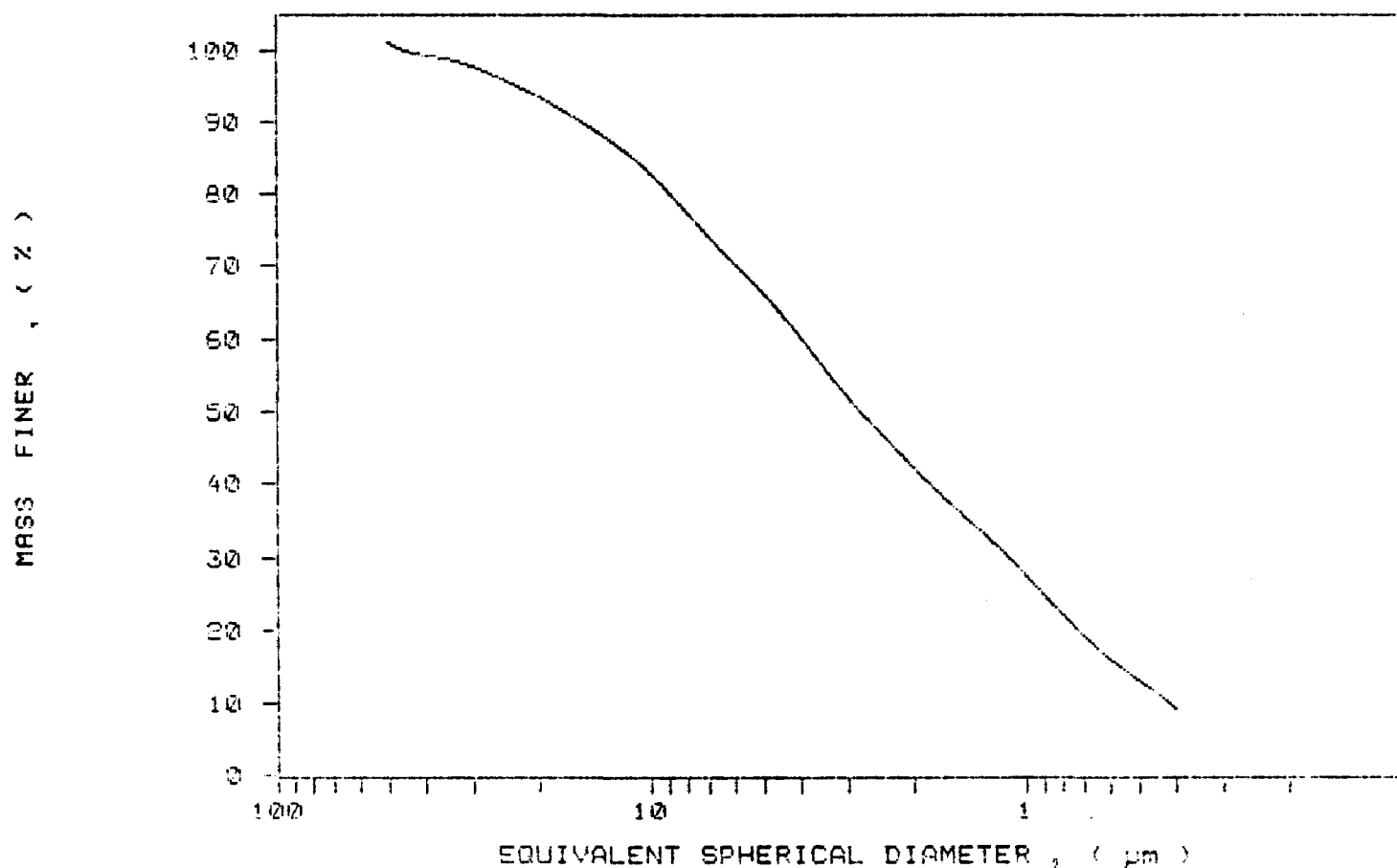
Kaolin

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PAGE 2

SAMPLE DIRECTORY/NUMBER: DATA1 /219	UNIT NUMBER: 1
SAMPLE ID: Hole 89-113 # 15053	START 12:07:53 10/13/89
SUBMITTER: James Bay co.	REPRT 12:25:38 10/13/89
OPERATOR: kaarina	TOT RUN TIME 0:17:24
SAMPLE TYPE: Clay	SAM DENS: 2.6500 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9940 g/cc
ANALYSIS TEMP: 35.2 deg C	LIQ VISC: 0.7202 cp
RUN TYPE: Standard	

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

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PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA1 /220
 SAMPLE ID: Hole 89-113 # 15054
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 13:09:05 10/13/89
 REPT 13:26:45 10/13/89
 TOT RUN TIME 0:17:20
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7202 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.38 μ m MODAL DIAMETER: 1.82 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	101.2	-1.2
40.00	98.9	2.3
30.00	96.8	2.1
25.00	95.6	1.2
20.00	92.9	2.7
15.00	88.9	3.9
10.00	83.5	5.5
8.00	79.2	4.3
6.00	73.2	6.0
5.00	69.4	3.8
4.00	63.8	5.5
3.00	56.1	7.7
2.00	44.8	11.3
1.50	35.1	9.7
1.00	25.7	9.4
0.80	21.5	4.2
0.60	16.3	3.2
0.50	16.1	2.1
0.40	11.4	4.8



Kaolin

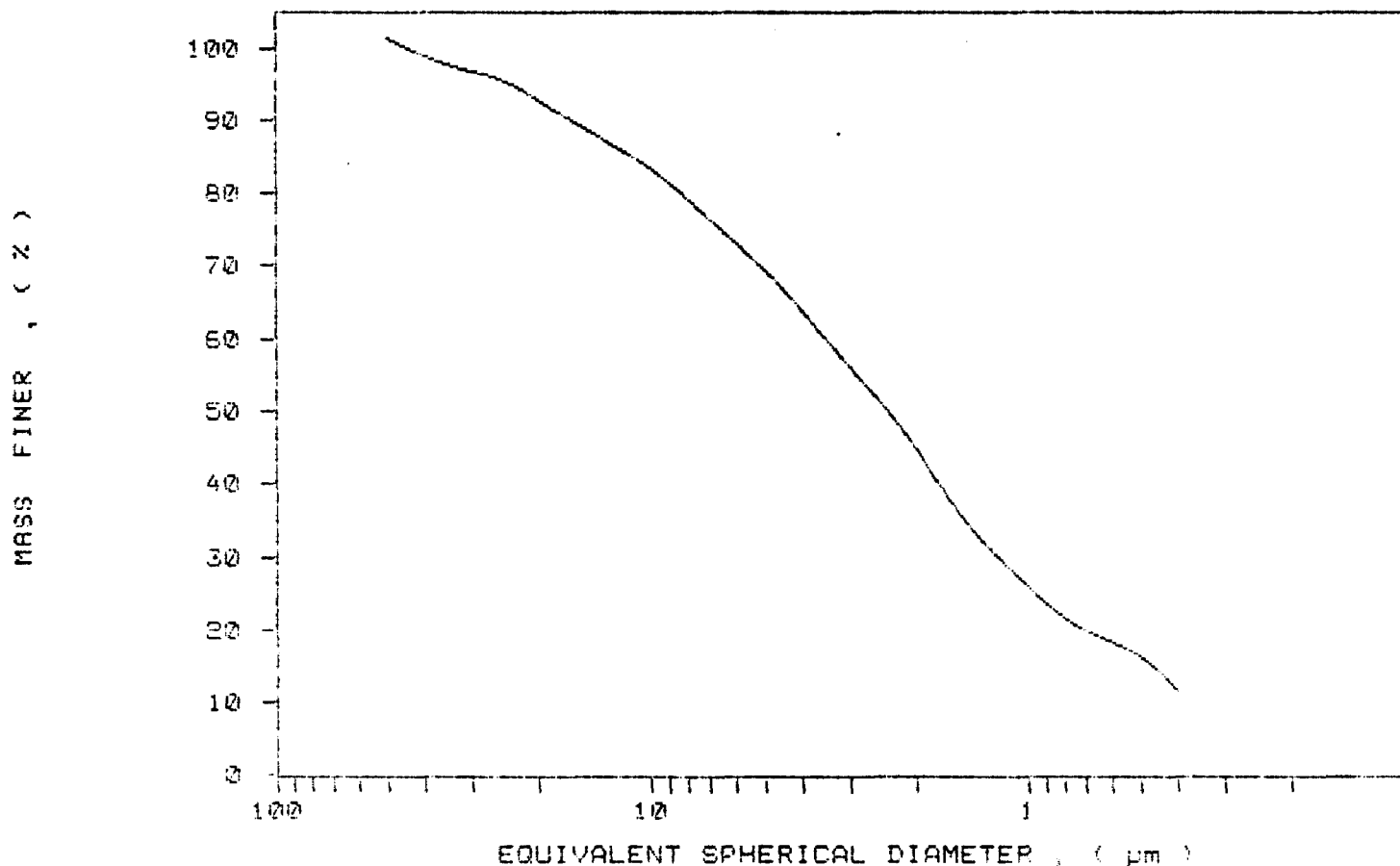
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PAGE 2

SAMPLE DIRECTORY/NUMBER: DATA1 /220
SAMPLE ID: Hole 89-113 # 15054
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 13:09:05 10/13/89
REPT 13:26:45 10/13/89
TOT RUN TIME 0:17:20
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7202 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

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PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA1 /221
 SAMPLE ID: Hole 89-113 # 15055
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 13:41:07 10/13/89
 REPT 13:58:54 10/13/89
 TOT RUN TIME 0:17:26
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7201 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.30 μ m

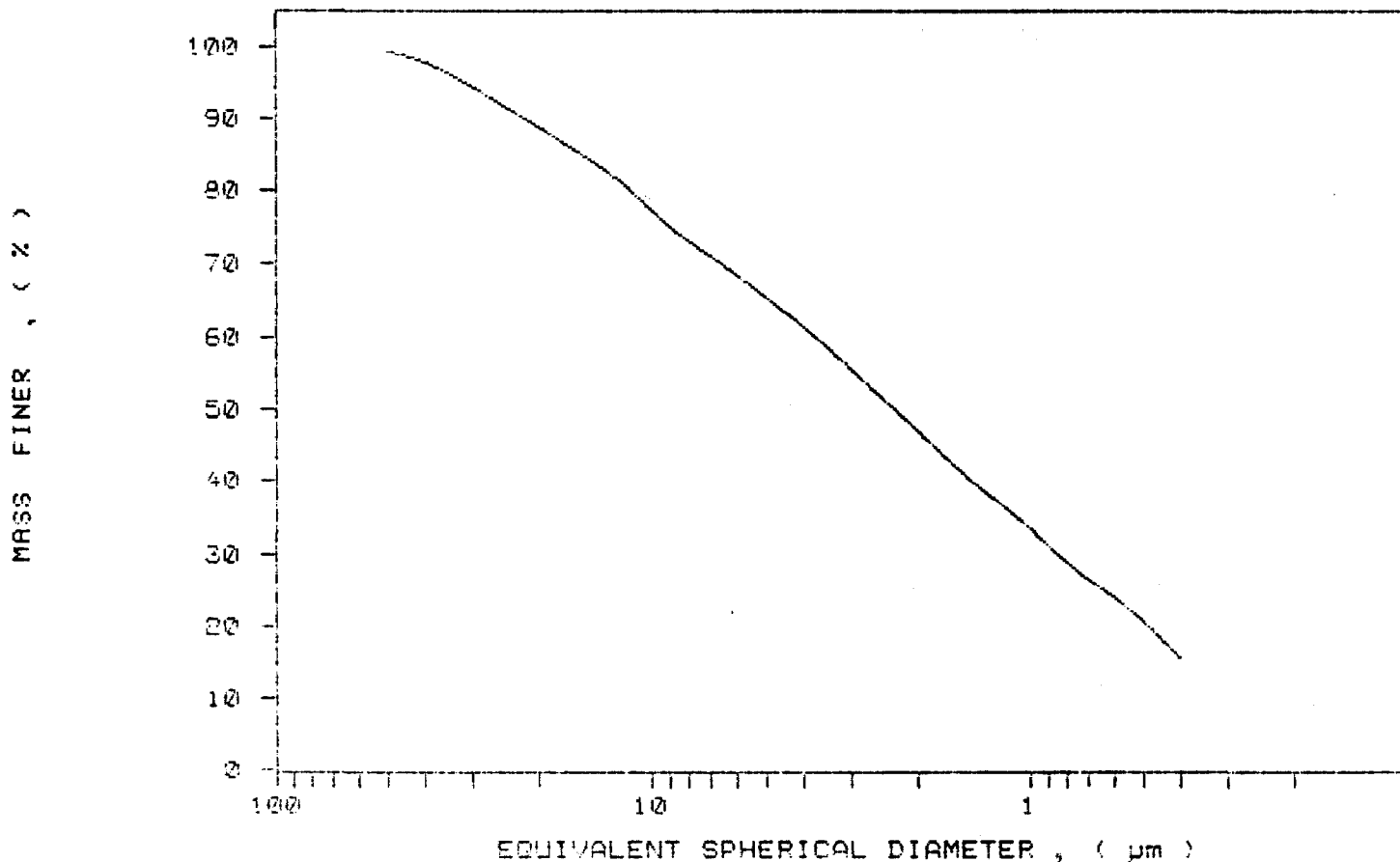
MODAL DIAMETER: 0.45 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.2	0.8
40.00	97.8	1.4
30.00	94.4	3.4
25.00	92.0	2.5
20.00	88.9	3.1
15.00	84.7	4.2
10.00	77.3	7.4
8.00	73.2	4.2
6.00	68.6	4.5
5.00	65.4	3.3
4.00	61.3	4.0
3.00	55.6	5.7
2.00	47.1	8.5
1.50	40.9	6.2
1.00	33.3	7.6
0.80	28.7	4.6
0.60	24.1	4.6
0.50	20.5	3.5
0.40	15.6	5.0



SAMPLE DIRECTORY/NUMBER: DATA1 /221	UNIT NUMBER: 1
SAMPLE ID: Hole 89-113 # 15055	START 13:41:07 10/13/89
SUBMITTER: James Bay Co.	REPRT 13:58:54 10/13/89
OPERATOR: Kaarina	TOT RUN TIME 0:17:26
SAMPLE TYPE: Clay	SAM DENS: 2.6500 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9940 g/cc
ANALYSIS TEMP: 35.2 deg C	LIQ VISC: 0.7201 cp
RUN TYPE: Standard	

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



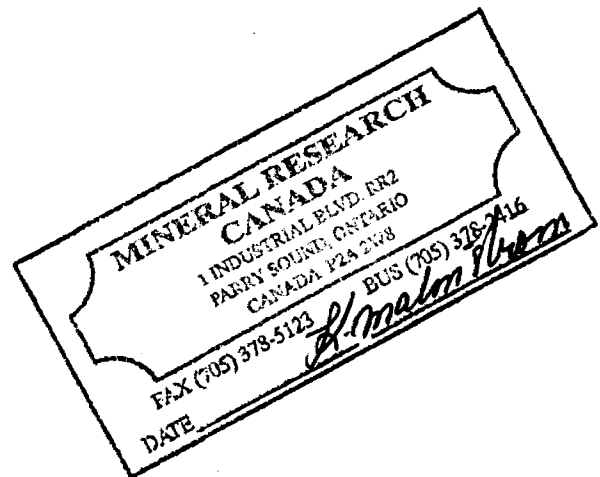
SAMPLE DIRECTORY/NUMBER: DATA1 /R22 UNIT NUMBER: 1
 SAMPLE ID: Hole 89-113 # 15056 START 14:11:48 10/13/89
 SUBMITTER: James Bay Co. REPRT 14:29:34 10/13/89
 OPERATOR: Kaarina TOT RUN TIME 0:17:26
 SAMPLE TYPE: Clay SAM DENS: 2.6500 g/cc
 LIQUID TYPE: Water LIQ DENS: 0.9940 g/cc
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard LIQ VISC: 0.7201 cp

STARTING DIAMETER: 50.00 μ m REYNOLDS NUMBER: 0.22
 ENDING DIAMETER: 0.40 μ m FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.22 μ m MODAL DIAMETER: 9.01 μ m

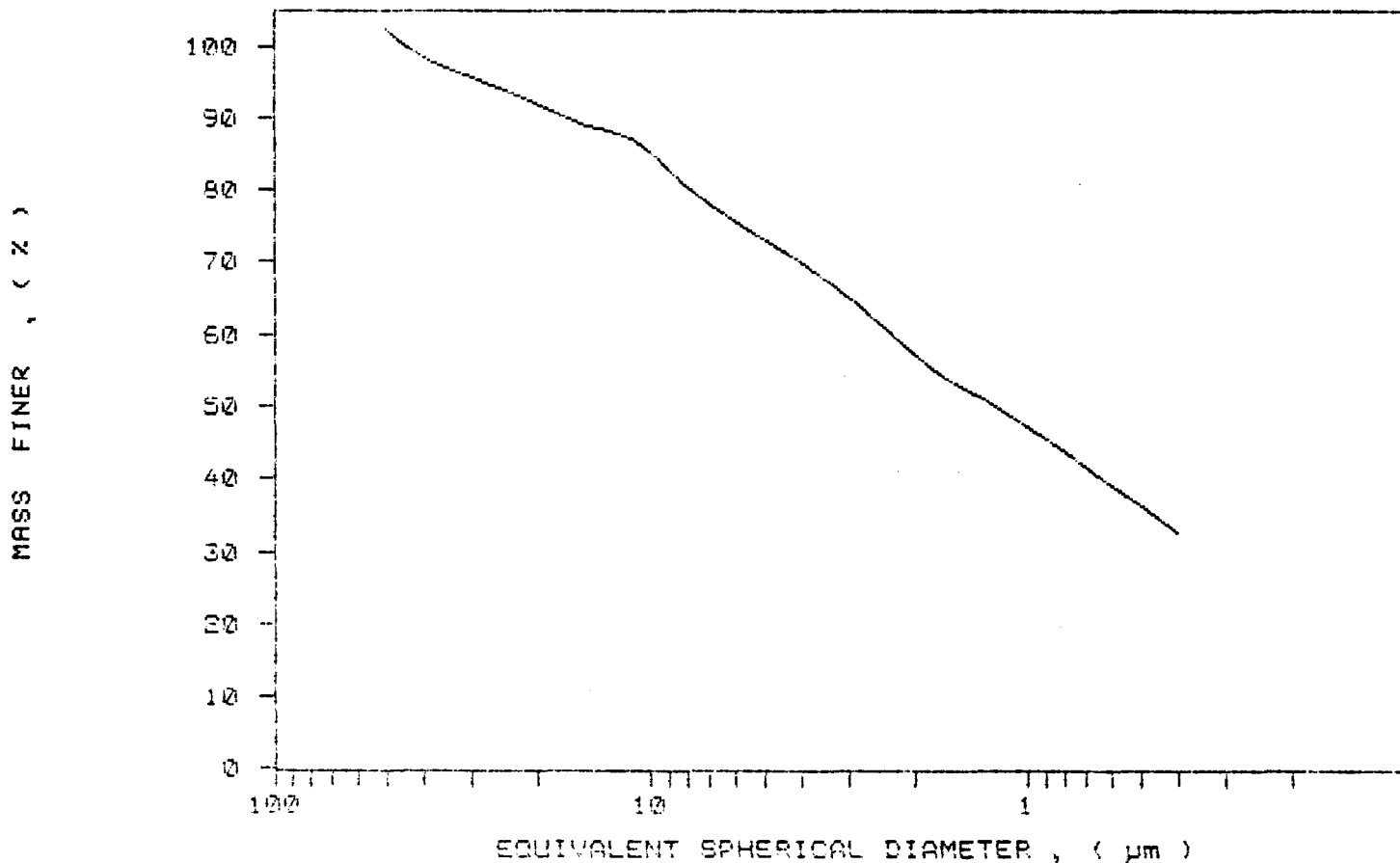
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	102.2	-2.2
40.00	98.5	3.7
30.00	95.7	2.8
25.00	94.1	1.6
20.00	92.0	2.1
15.00	89.1	2.9
10.00	85.1	4.0
8.00	80.4	4.7
6.00	75.7	4.7
5.00	73.1	2.6
4.00	70.0	3.1
3.00	65.2	4.8
2.00	57.3	7.9
1.50	52.7	4.6
1.00	47.1	5.6
0.80	43.8	3.3
0.60	39.1	4.7
0.50	36.3	2.8
0.40	32.6	3.6



SAMPLE DIRECTORY/NUMBER: DATA1 /222
SAMPLE ID: Hole 89-113 # 15056
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 14:11:48 10/13/89
REPRT 14:29:34 10/13/89
TOT RUN TIME 0:17:26
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7201 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

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PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA1 /223
 SAMPLE ID: Hole 89-118 #15057
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 08:37:52 10/16/89
 REPR 08:55:38 10/16/89
 TOT RUN TIME 0:17:25
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7204 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.84 μ m

MODAL DIAMETER: 0.40 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	96.4	3.6
40.00	96.0	0.5
30.00	95.2	0.8
25.00	93.5	1.6
20.00	90.5	3.0
15.00	85.7	4.9
10.00	79.4	6.3
8.00	76.7	2.7
6.00	72.1	4.6
5.00	69.0	3.0
4.00	64.7	4.3
3.00	58.8	5.6
2.00	51.6	7.1
1.50	45.4	6.2
1.00	38.2	7.2
0.80	33.5	4.7
0.60	27.4	6.1
0.50	24.0	3.4
0.40	18.5	5.6

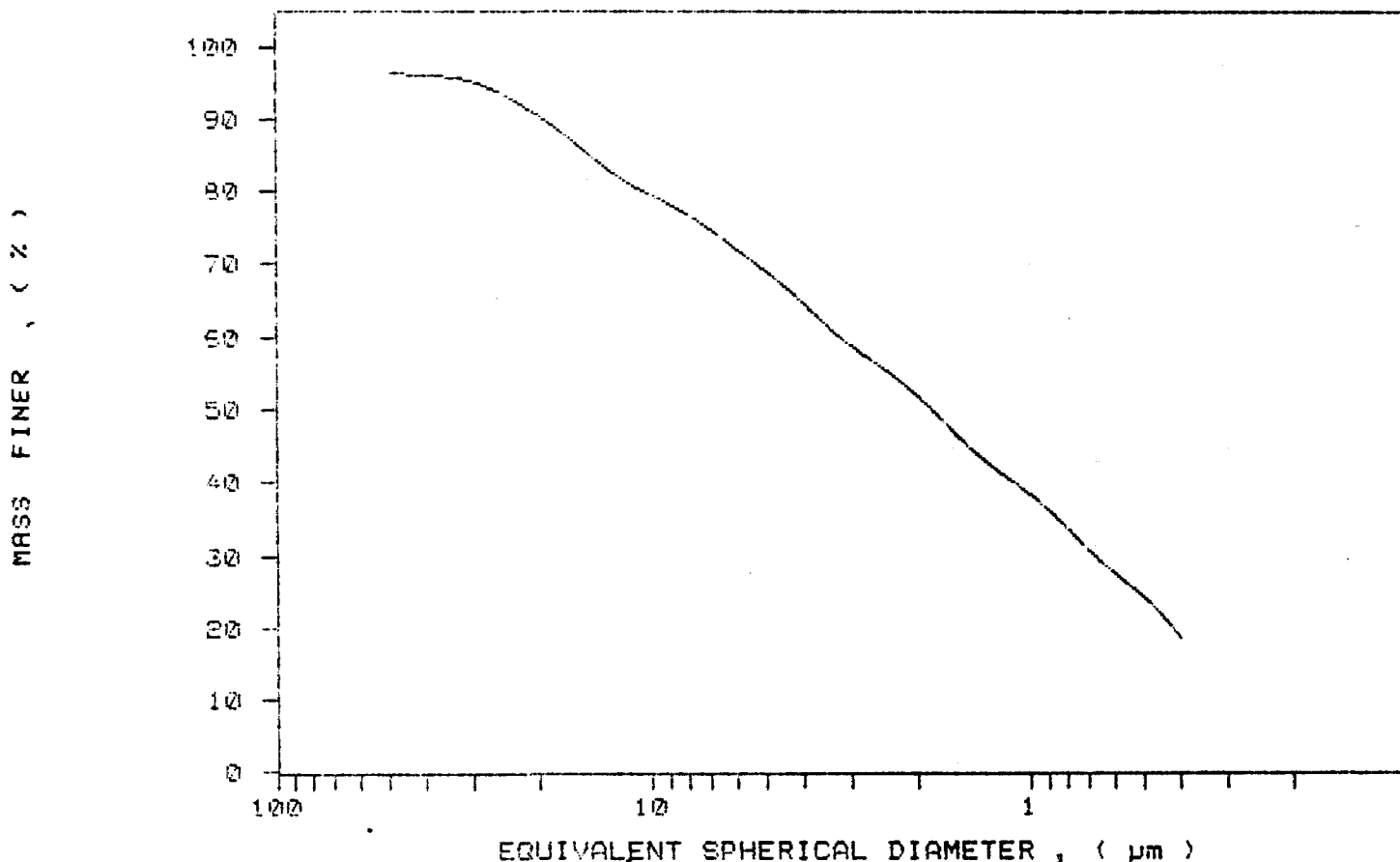


89-118

SAMPLE DIRECTOR/NUMBER: DATA1 7228
SAMPLE ID: Hole 89-118 #15037
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 25.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 08:37:52 10/16/89
REPRT 08:55:38 10/16/89
TOT RUN TIME 0:17:25
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7204 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA1 /224 UNIT NUMBER: 1
 SAMPLE ID: Hole 89-113 # 15058 START 09:09:30 10/16/89
 SUBMITTER: James Bay Co. REPR1 09:27:14 10/16/89
 OPERATOR: Kaarina TOT RUN TIME 0:17:23
 SAMPLE TYPE: Clay SAM DENS: 2.6500 g/cc
 LIQUID TYPE: Water LIQ DENS: 0.9940 g/cc
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard LIQ VISC: 0.7202 cp

STARTING DIAMETER: 50.00 μ m REYNOLDS NUMBER: 0.22
 ENDING DIAMETER: 0.40 μ m FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 0.82 μ m MODAL DIAMETER: 0.41 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.7	1.3
40.00	98.6	0.1
30.00	97.3	1.3
25.00	95.8	1.5
20.00	94.1	1.7
15.00	91.6	2.5
10.00	87.3	4.3
8.00	85.1	2.2
6.00	80.9	4.2
5.00	77.6	3.4
4.00	74.4	3.2
3.00	69.4	5.0
2.00	63.2	6.1
1.50	58.8	4.5
1.00	52.7	6.1
0.80	49.6	3.1
0.60	45.2	4.4
0.50	42.1	3.1
0.40	37.6	4.5



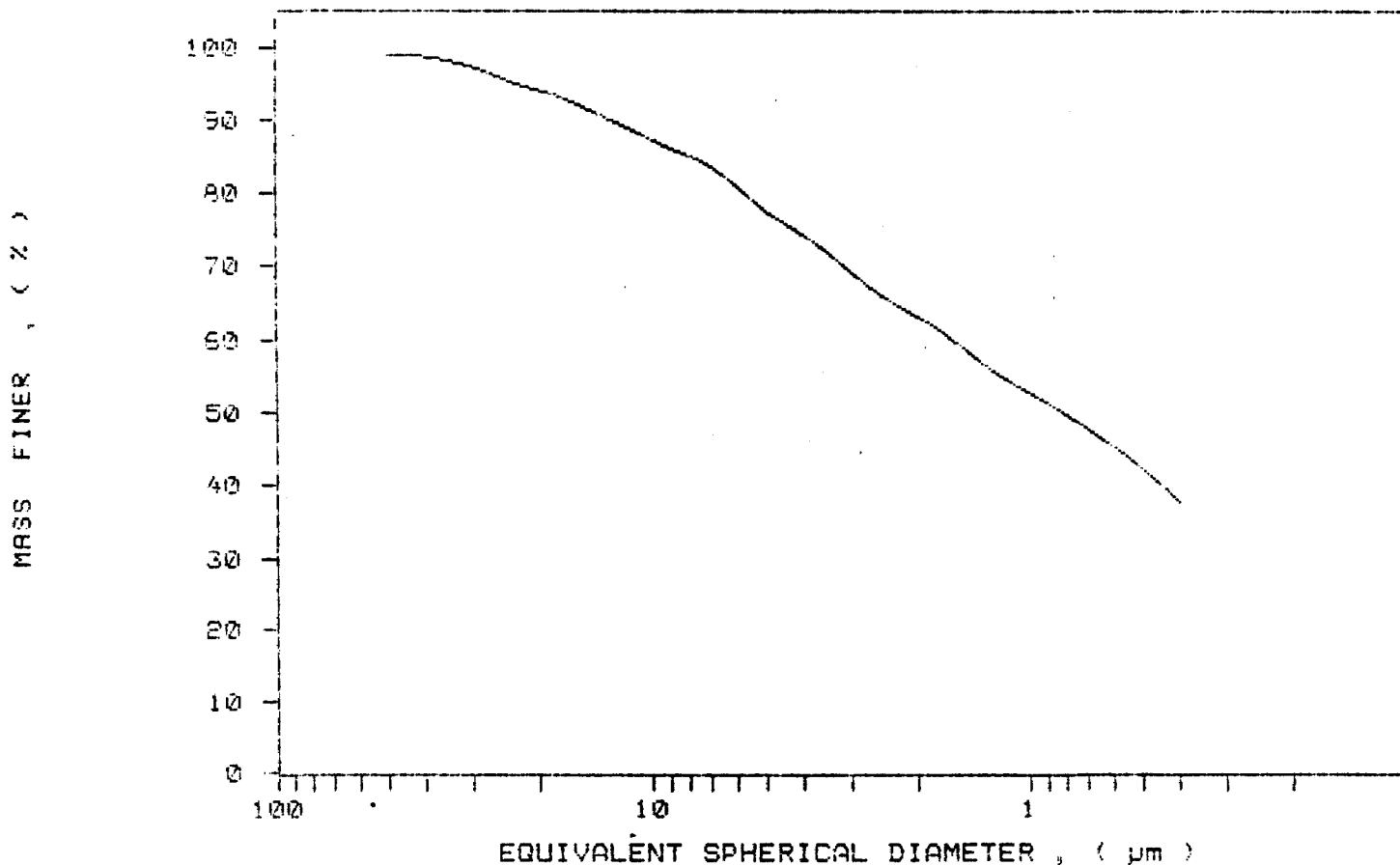
Kaolin

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PAGE 2

SAMPLE DIRECTORY/NUMBER: DATA1 /224	UNIT NUMBER: 1
SAMPLE ID: Hole 09-113 # 15056	START 09:09:30 10/16/89
SUBMITTER: James Bay Co.	REPR1 09:27:14 10/16/89
OPERATOR: Kaarina	TOT RUN TIME 0:17:23
SAMPLE TYPE: Clay	SAM DENS: 2.8500 g/cc
LIQUID TYPE: water	LIQ DENS: 0.9940 g/cc
ANALYSIS TEMP: 33.2 deg C	RUN TYPE: Standard
	LIQ VISC: 0.7202 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

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PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA1 /225
SAMPLE ID: Hole 89-113 # 15059
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 09:41:34 10/16/89
REPRT 09:59:22 10/16/89
TOT RUN TIME 0:17:29
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7202 cp

STARTING DIAMETER: 50.00 μ m
ENDING DIAMETER: 0.40 μ m

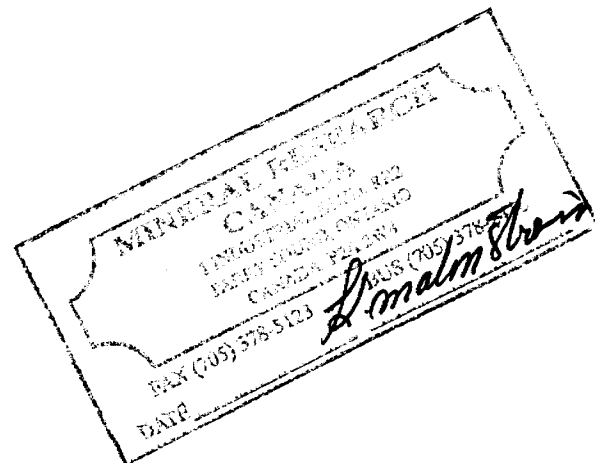
REYNOLDS NUMBER: 0.22
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.08 μ m

MODAL DIAMETER: 4.69 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.3	1.7
40.00	97.7	0.6
30.00	96.4	1.3
25.00	95.4	0.9
20.00	93.8	1.6
15.00	90.5	3.3
10.00	83.1	7.4
8.00	79.0	4.1
6.00	74.0	5.1
5.00	69.2	4.7
4.00	62.9	6.3
3.00	56.2	6.7
2.00	49.2	7.0
1.50	42.0	6.4
1.00	35.7	7.1
0.80	32.4	3.3
0.60	26.4	6.0
0.50	22.4	4.0
0.40	17.6	4.9



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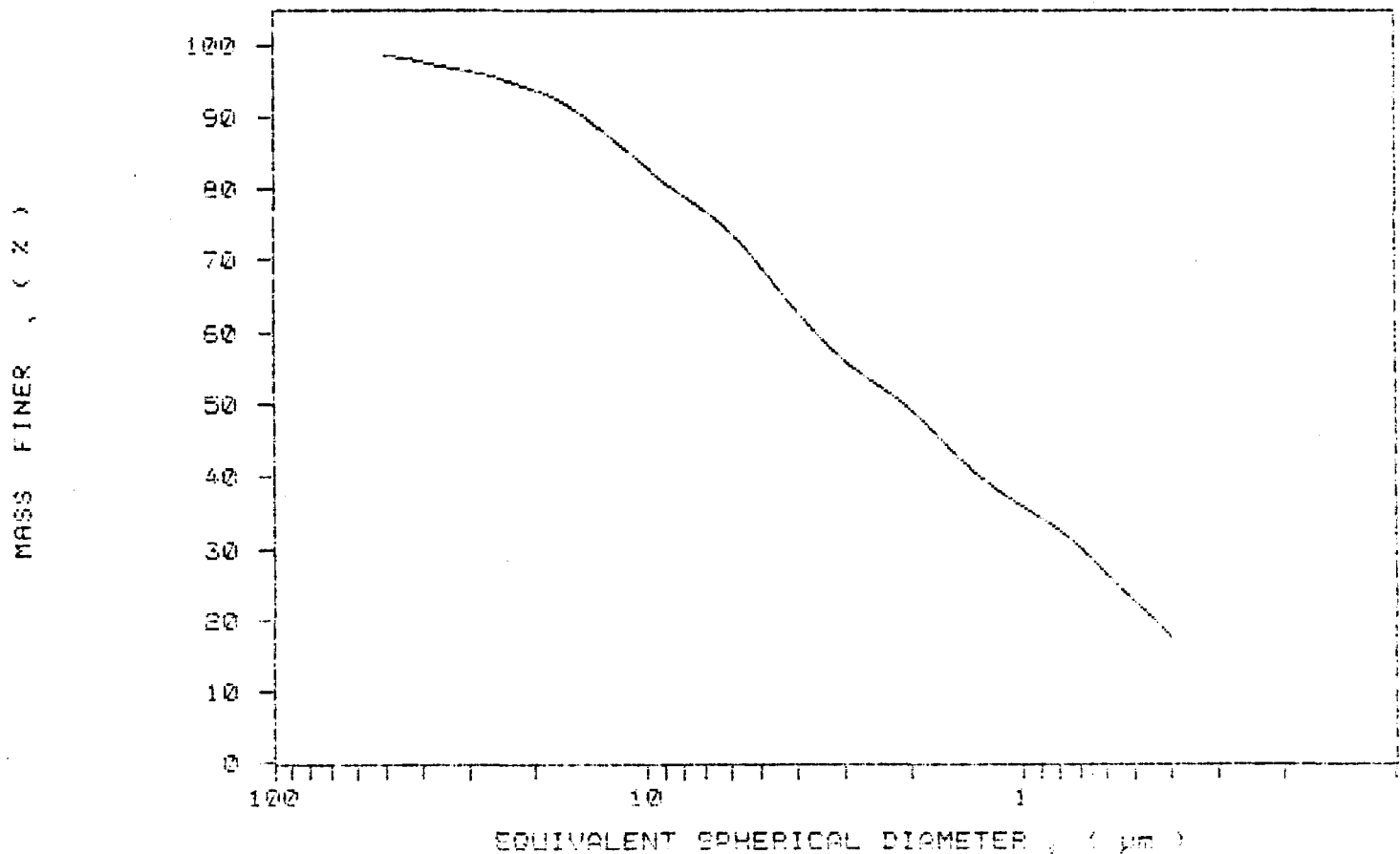
SediGraph 5100 V2.00

PAGE 2

SAMPLE DIRECTORY/NUMBER: DATA1 /225
SAMPLE ID: Hole 89-113 # 15059
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 09:41:34 10/16/89
REPT 09:59:22 10/16/89
TOT RUN TIME 0:17:29
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7202 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA1 /226
SAMPLE ID: Hole 89-113 # 13080
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 25.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 10:14:42 10/16/89
REPT 10:32:32 10/16/89
TOT RUN TIME 0:17:29
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7202 cp

STARTING DIAMETER: 50.00 μ m
ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.34 μ m

MODAL DIAMETER: 0.40 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	91.8	8.2
40.00	95.9	-4.1
30.00	96.4	-0.5
25.00	95.2	1.2
20.00	93.5	1.7
15.00	90.8	2.8
10.00	84.4	6.3
8.00	80.3	4.2
6.00	76.8	6.5
5.00	74.4	2.4
4.00	70.0	4.3
3.00	64.4	5.7
2.00	57.8	6.6
1.50	52.4	5.4
1.00	49.6	8.8
0.80	38.7	4.9
0.60	31.2	7.6
0.50	26.1	5.0
0.40	19.6	6.8



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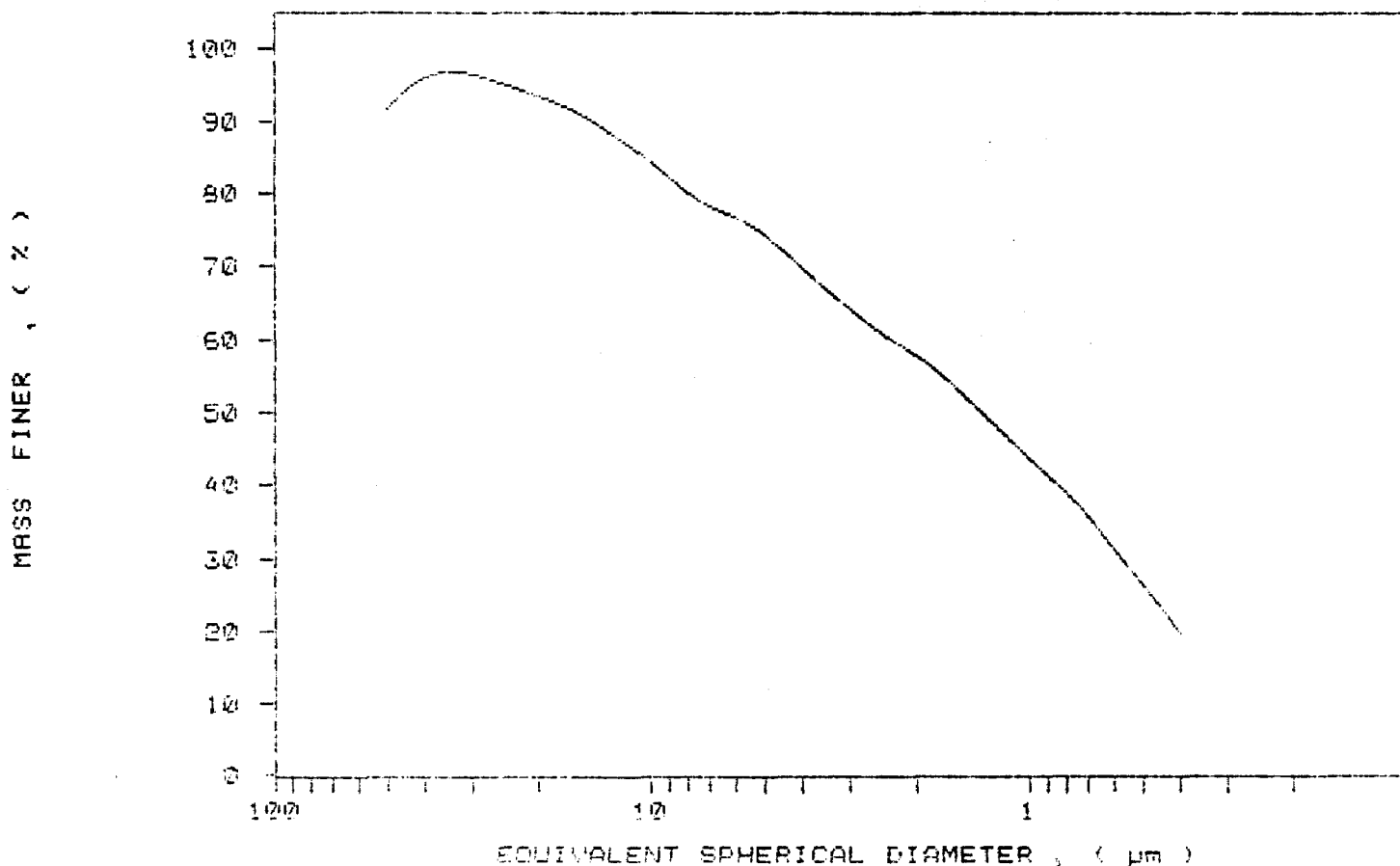
SediGraph 5100 V2.00

PAGE 2

SAMPLE DIRECTORY/NUMBER: DATA1 /225
SAMPLE ID: Hole 89-113 # 15060
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 10:14:42 10/16/89
REPRT 10:32:32 10/16/89
TOT RUN TIME 0:17:25
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7202 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



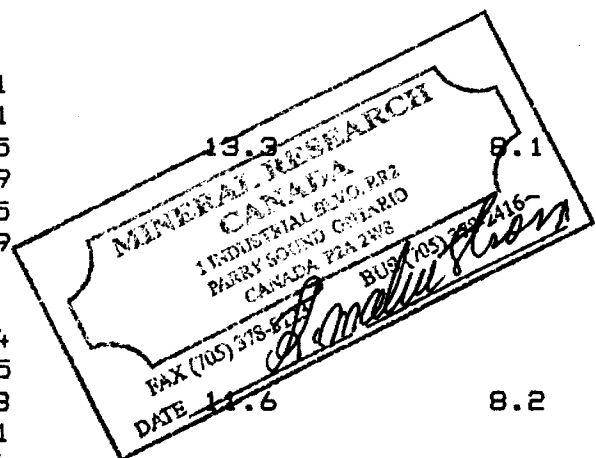
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1 INDUSTRIAL BLVD., RR2
 PARRY SOUND, ON. CANADA
 P2A 2W8

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
89-114 15101 107.0-110.0'	+ 4	0.0	11.6	8.2
	+ 40	0.3		
	+100	52.3		
	+200	18.2		
	+325	3.5		
	-325	25.7		
15102 110.0-115.0'	+ 4	0.0	13.1	8.2
	+ 40	0.7		
	+100	53.1		
	+200	14.7		
	+325	4.1		
	-325	27.4		
15103 115.0-117.0'	+ 4	0.0	11.8	8.1
	+ 40	26.3		
	+100	51.6		
	+200	7.0		
	+325	1.9		
	-325	13.2		
15104 117.0-121.0'	+ 4	0.1	13.3	8.1
	+ 40	56.1		
	+100	31.5		
	+200	2.9		
	+325	1.5		
	-325	7.9		
15105 121.0-126.0'	+ 4	0.4	11.6	8.2
	+ 40	32.5		
	+100	48.8		
	+200	5.1		
	+325	1.4		
	-325	11.8		



Kaolin

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PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA1 /213
 SAMPLE ID: Hole 89-114 # 15101
 SUBMITTER: James bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 08:40:10 10/13/89
 REPRT 08:57:45 10/13/89
 TOT RUN TIME 0:17:15
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7204 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

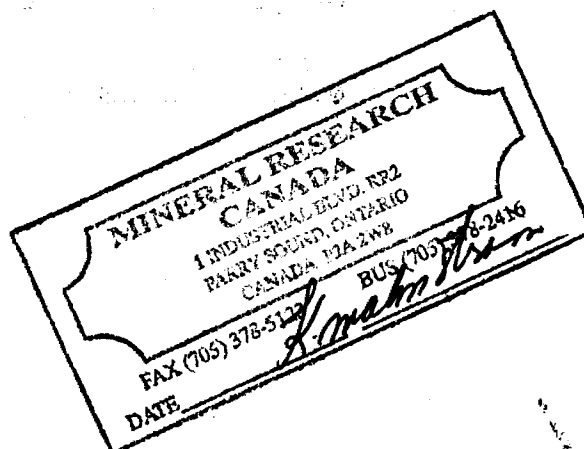
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.32 μ m

MODAL DIAMETER: 4.02 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	100.6	-0.6
40.00	99.0	1.6
30.00	98.2	0.8
25.00	98.3	1.9
20.00	93.5	2.8
15.00	89.9	3.5
10.00	84.5	5.4
8.00	81.9	2.6
6.00	77.0	5.0
5.00	73.4	3.6
4.00	68.6	4.8
3.00	62.8	5.8
2.00	55.7	7.1
1.50	51.6	4.0
1.00	46.0	5.6
0.80	42.6	3.2
0.60	38.4	4.4
0.50	34.6	3.5
0.40	30.9	4.0



88-112

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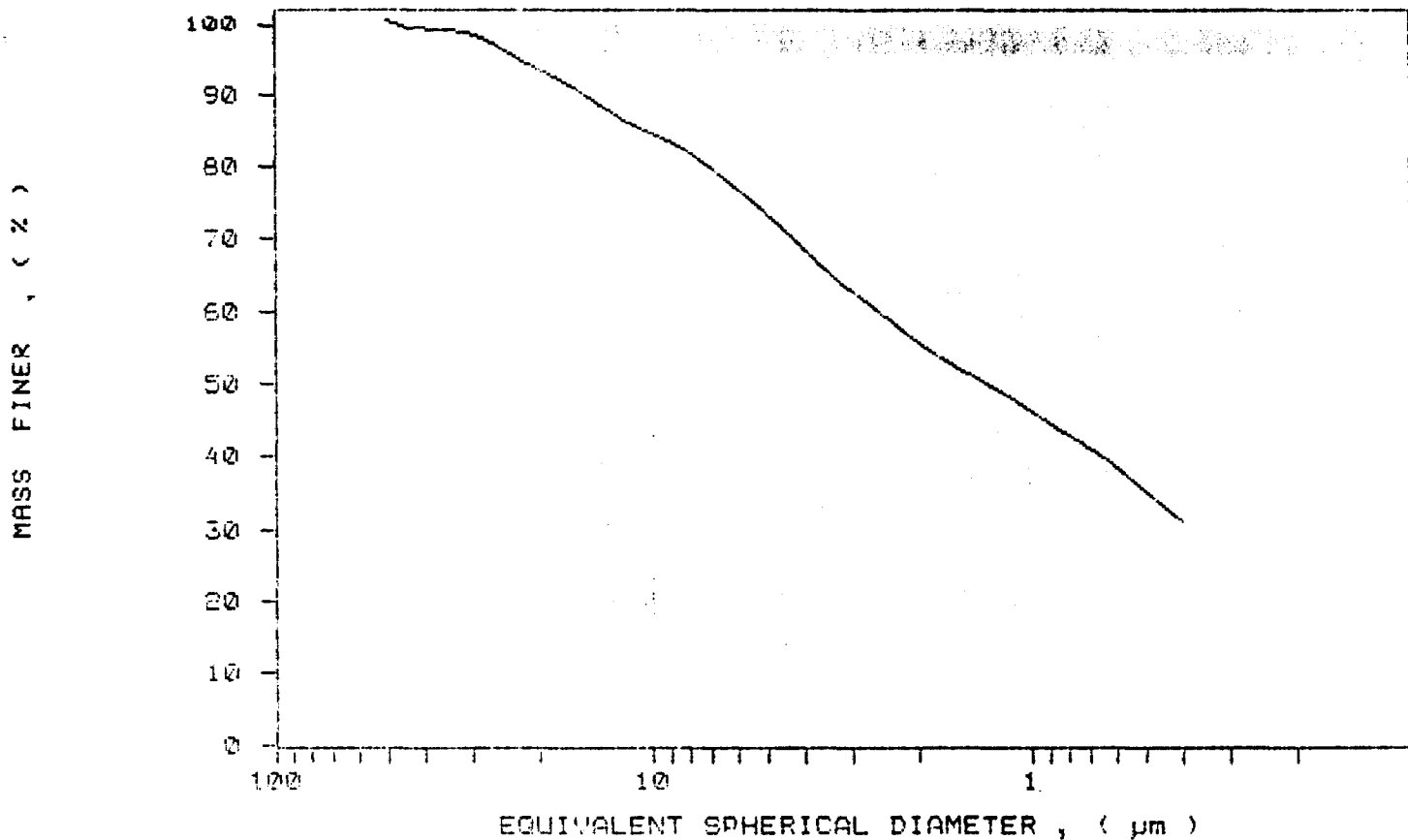
89-114

PAGE 2

SAMPLE DIRECTORY/NUMBER: DATA1 /213
SAMPLE ID: Hole 89-114 # 15101
SUBMITTER: James bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 08:40:10 10/13/89
REPT 08:57:45 10/13/89
TOT RUN TIME 0:17:15
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7204 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA1 /214
 SAMPLE ID: Hole 89-114 # 15102
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 09:14:08 10/13/89
 REPRT 09:32:01 10/13/89
 TOT RUN TIME 0:17:34
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7202 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

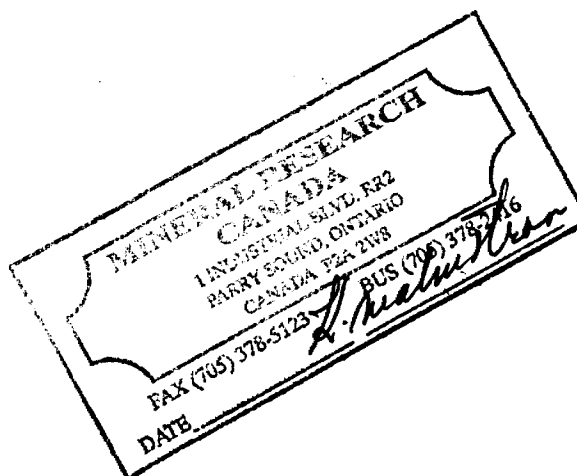
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.43 μ m

MODAL DIAMETER: 1.16 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.3	1.7
40.00	99.6	-1.3
30.00	98.0	1.6
25.00	96.8	1.2
20.00	94.5	2.3
15.00	90.3	4.2
10.00	84.2	6.1
8.00	81.1	3.1
6.00	77.1	4.0
5.00	74.5	2.6
4.00	69.9	4.6
3.00	63.6	6.4
2.00	56.4	7.1
1.50	51.2	5.2
1.00	38.9	12.3
0.80	33.6	5.1
0.60	29.0	4.6
0.50	26.1	2.8
0.40	23.5	2.6



Kaolin

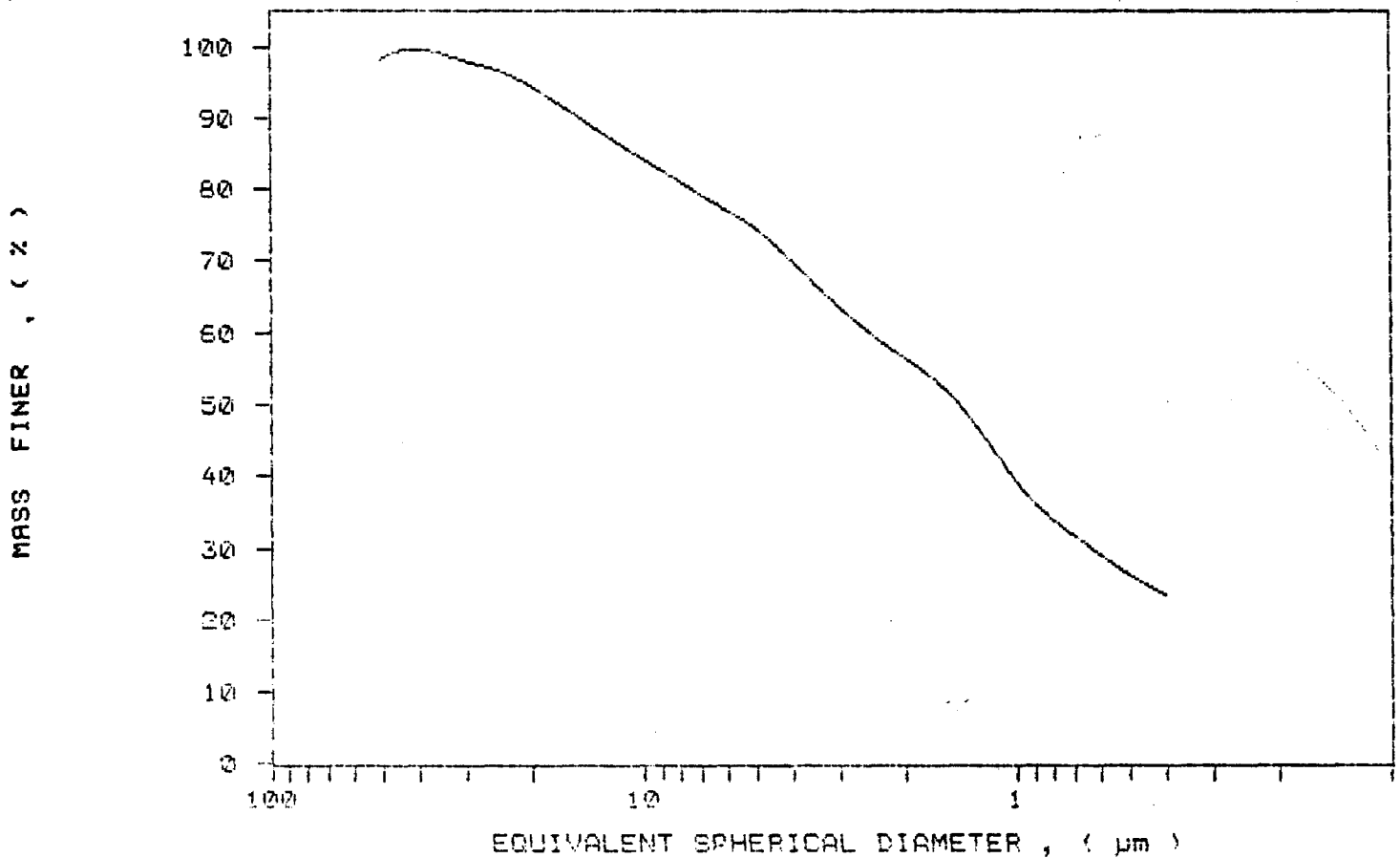
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PAGE 2

SAMPLE DIRECTORY/NUMBER: DATA1 /214
SAMPLE ID: Hole 89-114 # 15102
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 09:14:08 10/13/89
REPT 09:32:01 10/13/89
TOT RUN TIME 0:17:34
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7202 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



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Kaolin

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA1 /215
 SAMPLE ID: Hole 89-114 # 15103
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 09:45:04 10/13/89
 REPR 10:02:54 10/13/89
 TOT RUN TIME 0:17:30
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7202 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.26 μ m

MODAL DIAMETER: 2.20 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	97.6	2.4
40.00	96.9	0.7
30.00	95.6	1.2
25.00	94.1	1.6
20.00	91.6	2.5
15.00	88.3	3.3
10.00	81.4	6.9
8.00	77.2	4.1
6.00	71.6	5.7
5.00	68.4	3.2
4.00	64.1	4.4
3.00	57.1	7.0
2.00	46.8	10.3
1.50	39.6	7.2
1.00	30.1	9.5
0.80	25.3	4.8
0.60	19.9	5.4
0.50	17.3	2.6
0.40	14.8	2.5



Kaolin

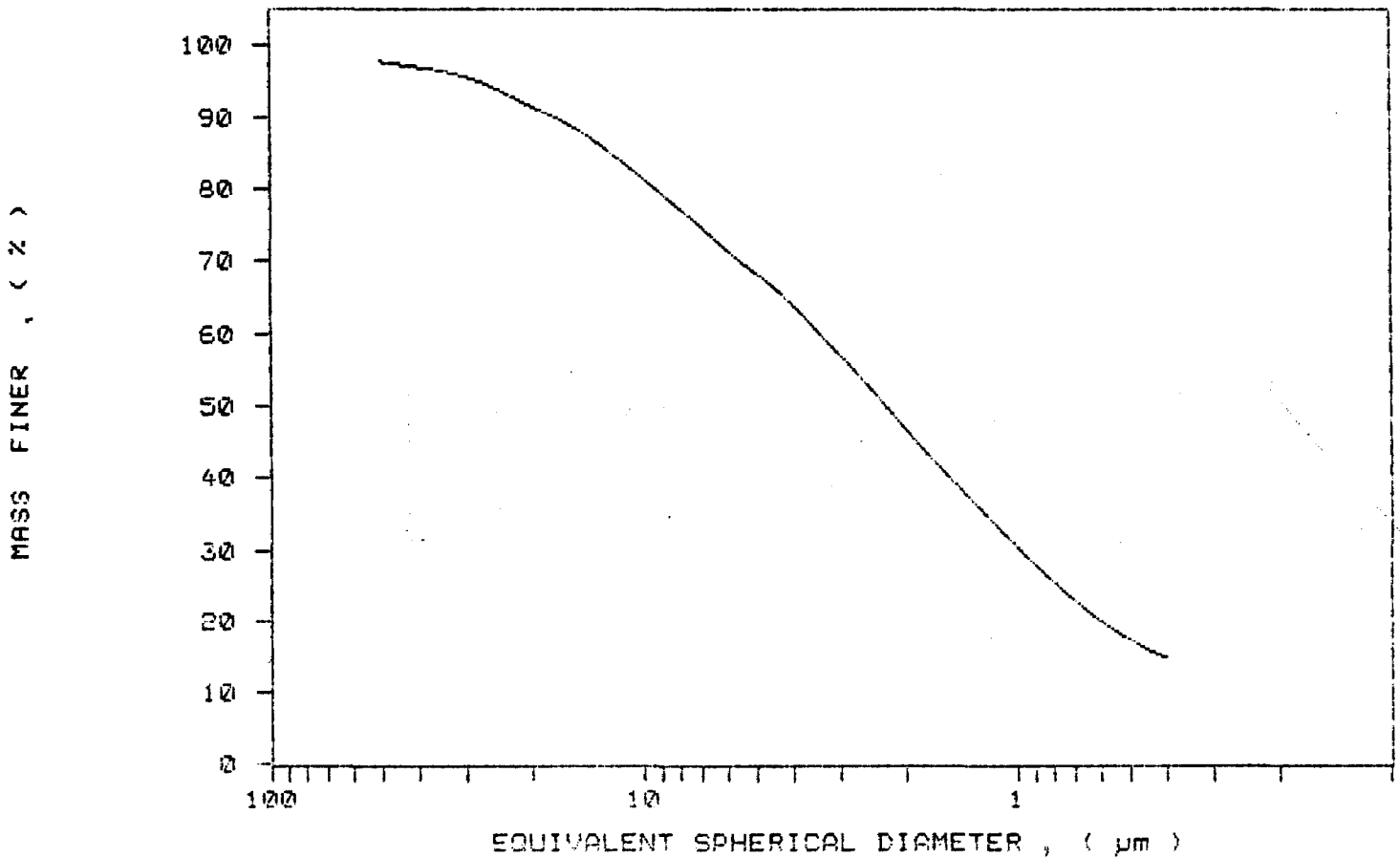
SediGraph 5100 V2.00

PAGE 2

SAMPLE DIRECTORY/NUMBER: DATA1 /215
SAMPLE ID: Hole 89-114 # 15103
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 09:45:04 10/13/89
REPRT 10:02:54 10/13/89
TOT RUN TIME 0:17:30
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7202 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

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PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA1 /216
 SAMPLE ID: Hole 89-114 # 15104
 SUBMITTER: James bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:17:08 10/13/89
 REPT 10:34:53 10/13/89
 TOT RUN TIME 0:17:24
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7202 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.72 μ m

MODAL DIAMETER: 2.78 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	96.7	3.3
40.00	97.2	-0.5
30.00	95.8	1.4
25.00	93.9	1.9
20.00	91.5	2.3
15.00	87.4	4.1
10.00	80.5	6.9
8.00	75.9	4.6
6.00	69.8	6.1
5.00	65.4	4.4
4.00	60.3	5.1
3.00	52.7	7.6
2.00	42.2	10.5
1.50	36.8	5.4
1.00	27.7	9.1
0.60	22.8	4.8
0.50	19.2	3.6
0.40	15.2	2.3



Kaolin

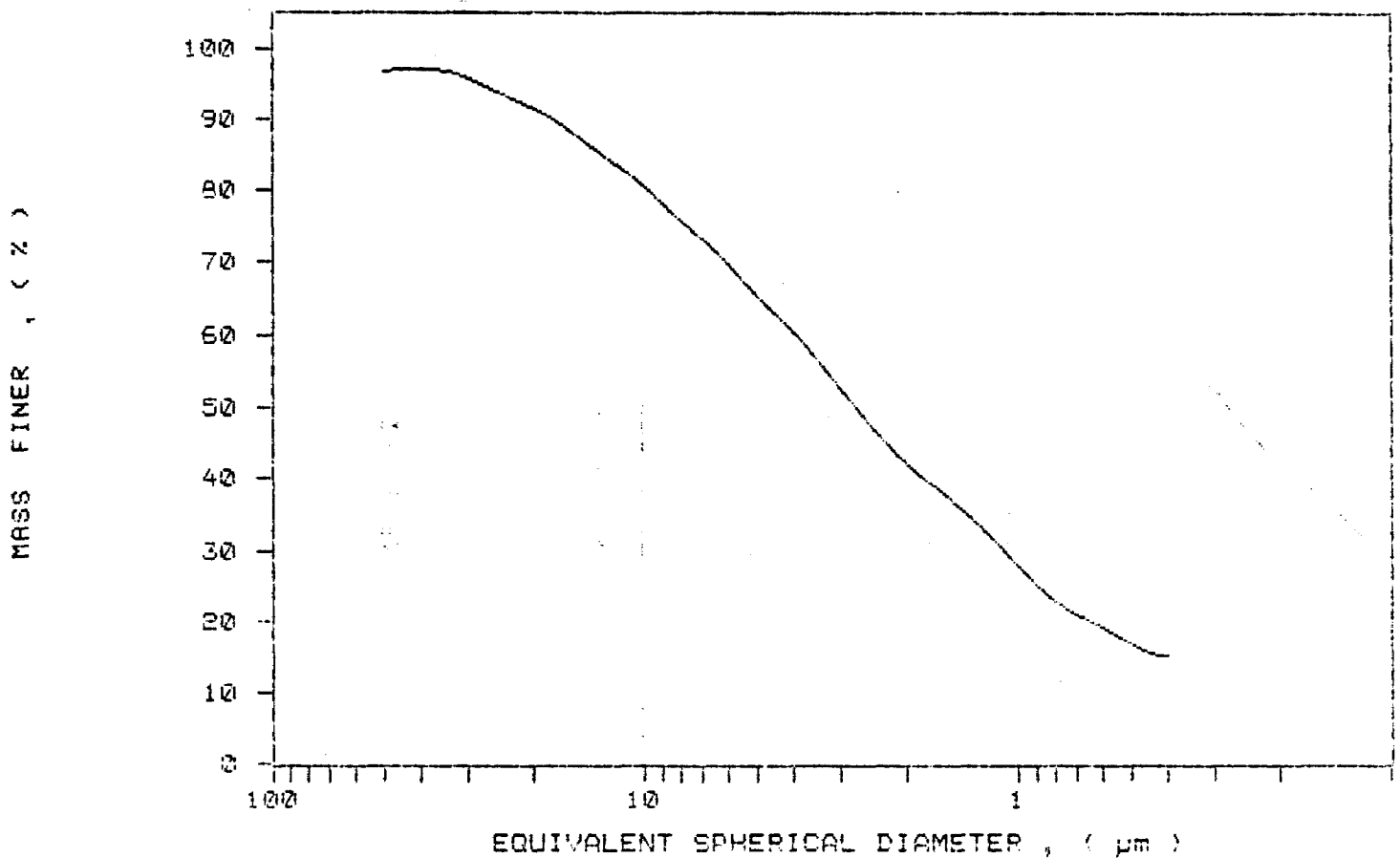
SediGraph 5100 V2.00

PAGE 2

SAMPLE DIRECTORY/NUMBER: DATA1 /216
SAMPLE ID: Hole 89-114 # 15104
SUBMITTER: James bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 10:17:08 10/13/89
REPRT 10:34:53 10/13/89
TOT RUN TIME 0:17:24
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7202 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA1 /2E7
 SAMPLE ID: Hole 29-114 # 1E105
 SUBMITTER: James Bay Co.
 OPERATOR: Kearina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 25.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:45:20 10/16/89
 REPT 10:47:14 10/16/91
 TOT RUN TIME 0:17:32
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7201 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.18 μ m

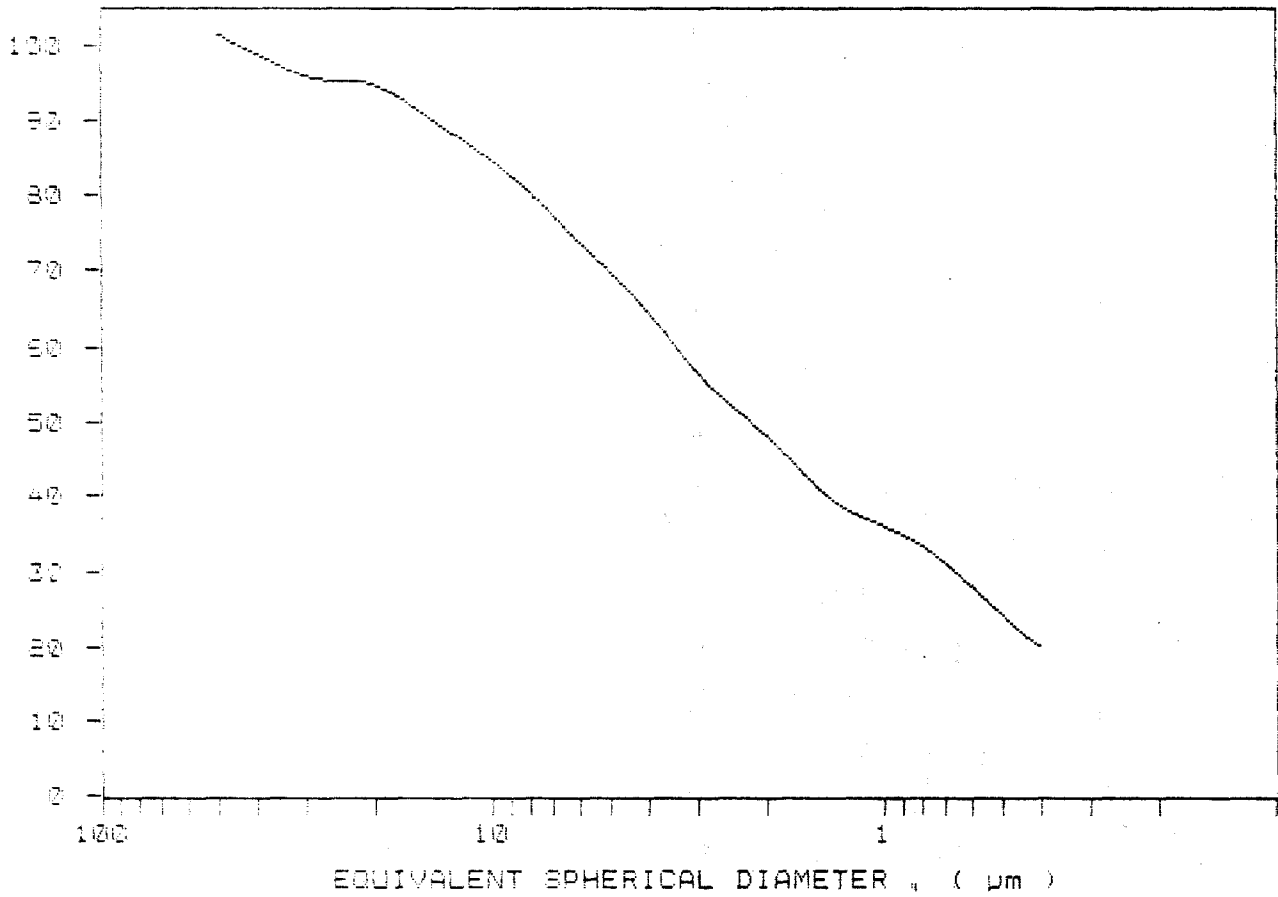
MODAL DIAMETER: 3.51 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	101.4	-1.4
40.00	98.0	2.6
30.00	95.3	2.9
25.00	93.4	0.5
20.00	94.9	0.6
15.00	90.9	2.9
10.00	84.5	6.4
6.00	80.2	4.2
5.00	73.7	6.6
5.00	69.2	0.9
4.00	64.6	5.2
3.00	56.7	7.9
2.00	48.2	8.4
1.50	41.4	6.9
1.00	35.9	5.5
0.80	33.6	2.6
0.50	27.9	5.4
0.50	24.1	0.6
0.40	20.1	4.0



SAMPLE DIRECTORY/NUMBER: DATA1 /227	UNIT NUMBER: 1
SAMPLE ID: Hole 89-114 # 15105	START 10:45:20 10/16/89
SUBMITTER: James Bay Co.	REPRT 10:47:14 10/16/91
OPERATOR: Kaarina	TOT RUN TIME 0:17:32
SAMPLE TYPE: Clay	SAM DENS: 2.6500 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9940 g/cc
ANALYSIS TEMP: 25.5 deg C	LIQ VISC: 0.7201 cp
RUN TYPE: Standard	

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



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1 INDUSTRIAL BLVD., RR2
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ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
89-115 551 38.0-41.0'	+ 4	0.8	0.3	8.0
	+ 40	22.2		
	+100	41.9		
	+200	16.0		
	+325	7.8		
	-325	4.3		
552 41.0-46.0'	+ 4	0.3	13.9	8.0
	+ 40	22.1		
	+100	46.4		
	+200	12.6		
	+325	4.7		
	-325	13.9		
553 46.0-51.0'	+ 4	0	11.5	8.0
	+ 40	9.3		
	+100	25.2		
	+200	21.3		
	+325	4.0		
	-325	40.2		
554 51.0-57.0'	+ 4	1.1	11.3	8.1
	+ 40	17.7		
	+100	44.6		
	+200	14.2		
	+325	5.2		
	-325	17.2		
555 57.0-63.0'	+ 4	0	13.1	8.1
	+ 40	14.4		
	+100	39.7		
	+200	11.9		
	+325	5.4		
	-325	28.6		

MINERAL RESEARCH CANADA
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MINERAL RESEARCH CANADA

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
89-115 556 63.0-65.0'	+ 4	0.1	7.8	8.1
	+ 40	25.3		
	+100	50.2		
	+200	10.5		
	+325	5.3		
	-325	8.6		
557 65.0-71.0'	+ 4	0	3.0	8.1
	+ 40	19.4		
	+100	44.5		
	+200	13.9		
	+325	7.3		
	-325	14.9		
558 71.0-73.0'	+ 4	0.1	12.3	8.1
	+ 40	16.8		
	+100	31.5		
	+200	11.2		
	+325	4.6		
	-325	35.9		
559 73.0-76.0'	+ 4	1.2	4.6	8.2
	+ 40	44.5		
	+100	17.8		
	+200	9.9		
	+325	1.6		
	-325	25.0		
560 76.0-79.0'	+ 4	3.9	24.8	8.1
	+ 40	36.9		
	+100	11.7		
	+200	7.5		
	+325	6.3		
	-325	33.7		

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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 %	pH (20% SOLIDS)
89-115 56! 790-86.0'	+ 4	0.7	6.1	2.1
	+ 40	12.1		
	+100	10.8		
	+200	5.3		
	+325	4.0		
	-325	67.1		
	+ 4			
	+ 40			
	+100			
	+200			
	+325			
	-325			
	+ 4			
	+ 40			
	+100			
	+200			
	+325			
	-325			
	+ 4			
	+ 40			
	+100			
	+200			
	+325			
	-325			

MINERAL RESEARCH CANADA	
1 INDUSTRIAL BLVD. RR2 PARRY SOUND, ONTARIO	
<i>W. Macdonald & Son</i>	
FAX (705) 378-5123	BUS (705) 378-2416
DATE	

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SAMPLE DIRECTORY/NUMBER: DATA1 /197
 SAMPLE ID: # 551
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 09:28:22 10/06/89
 REPRT 09:46:07 10/06/89
 TOT RUN TIME 0:17:24
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7177 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 4.37 μ m

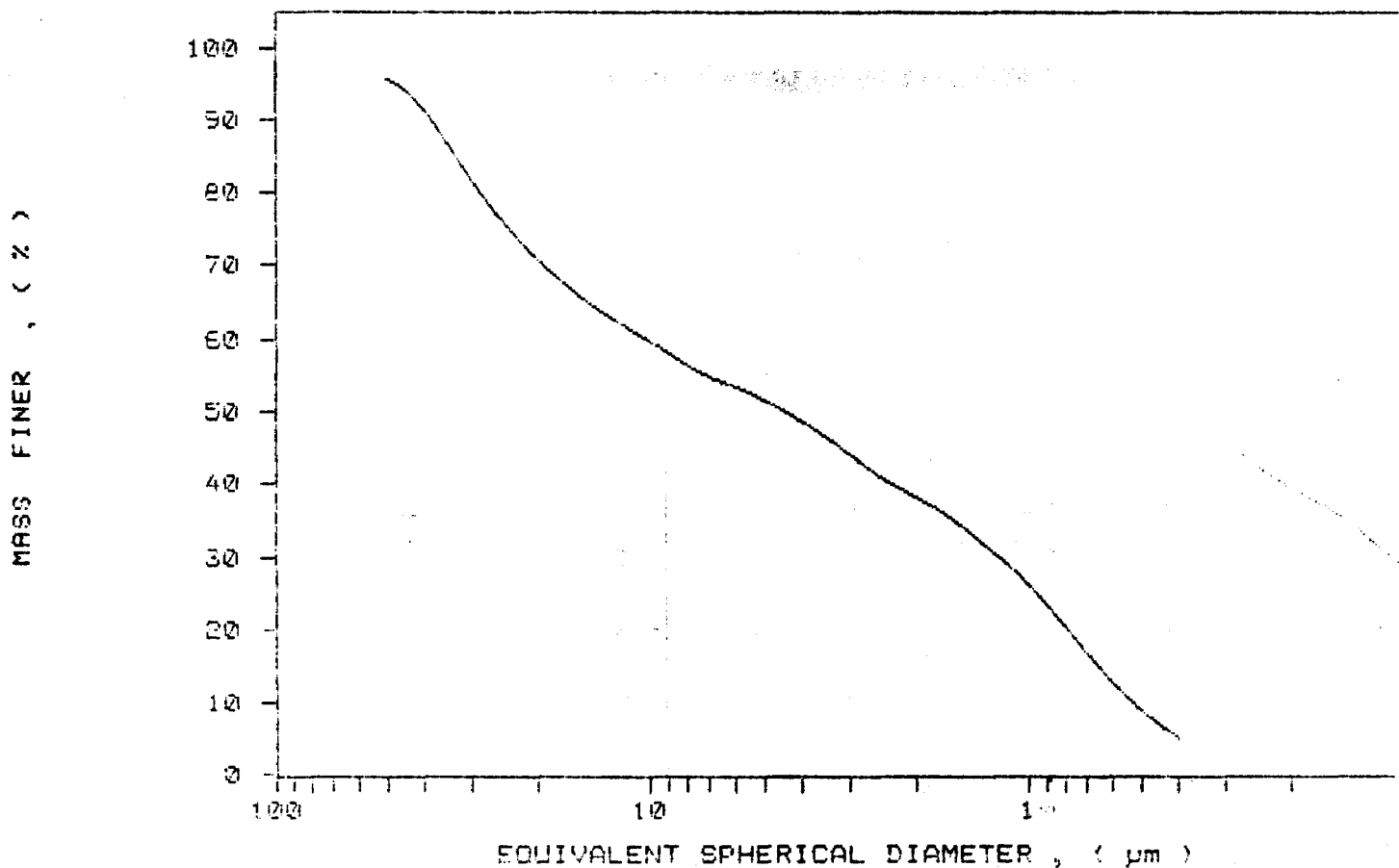
MODAL DIAMETER: 33.64 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	95.7	4.3
40.00	91.4	4.3
30.00	81.9	9.5
25.00	76.5	5.4
20.00	71.0	5.5
15.00	65.5	5.5
10.00	59.7	5.7
8.00	56.5	3.2
6.00	53.7	2.9
5.00	51.8	1.9
4.00	48.8	2.9
3.00	44.4	4.5
2.00	38.3	6.0
1.50	34.2	4.2
1.00	26.0	8.1
0.80	20.4	5.7
0.60	12.9	7.5
0.50	8.9	4.0
0.40	5.2	3.7

SAMPLE DIRECTORY/NUMBER: DATA1 /197
SAMPLE ID: # 551
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 09:28:22 10/06/89
REPRT 09:46:07 10/06/89
TOT RUN TIME 0:17:24
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7177 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA1 /198
 SAMPLE ID: # 552
 SUBMITTER: James bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:05:30 10/06/89
 REPRT 10:23:09 10/06/89
 TOT RUN TIME 0:17:18
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7176 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.79 μ m

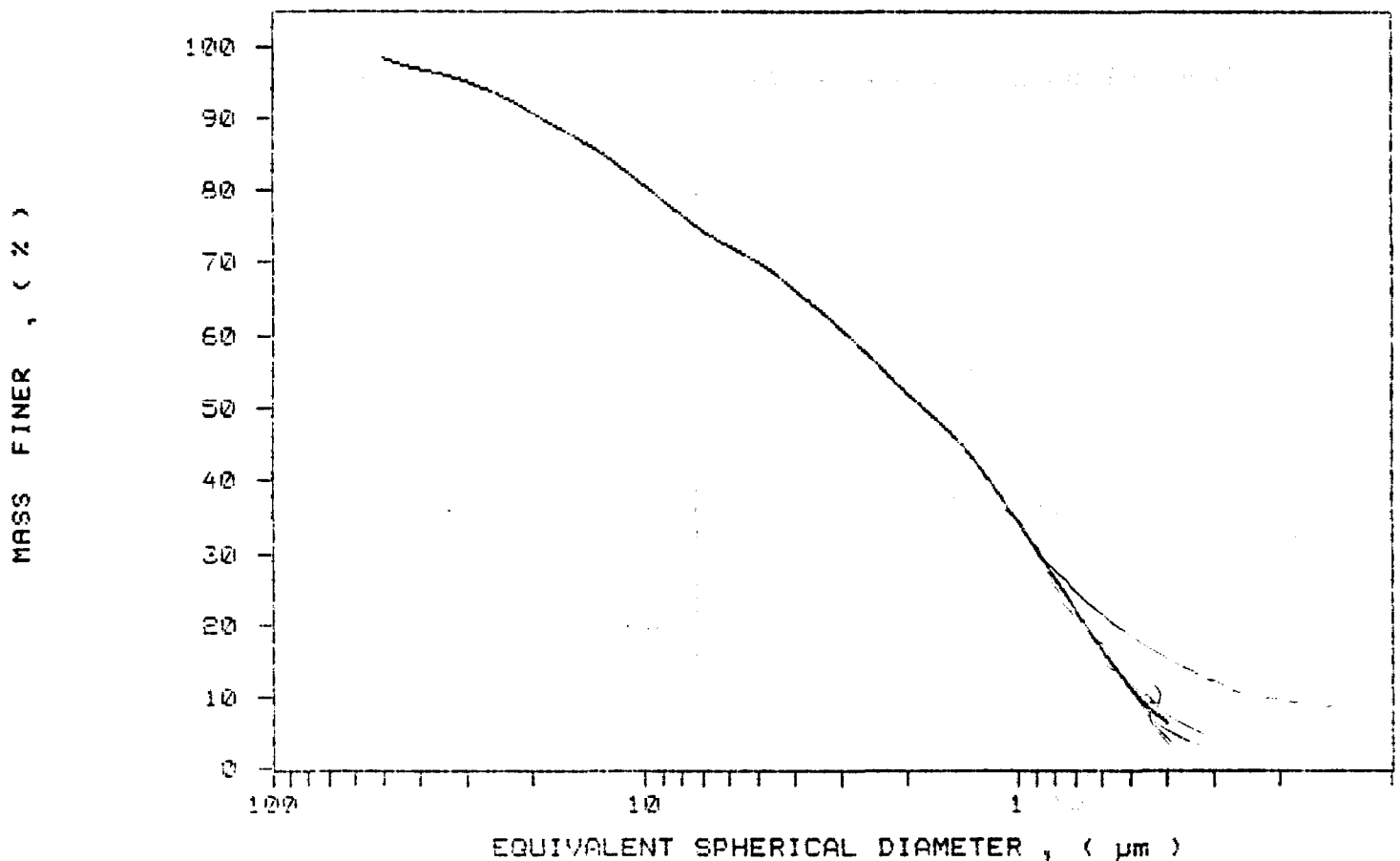
MODAL DIAMETER: 0.76 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.4	1.6
40.00	96.9	1.5
30.00	95.2	1.7
25.00	93.5	1.6
20.00	90.8	2.7
15.00	87.0	3.8
10.00	80.6	6.4
8.00	76.6	4.0
6.00	72.3	4.3
5.00	70.1	2.2
4.00	66.4	3.7
3.00	60.9	5.4
2.00	52.3	8.7
1.50	46.3	6.0
1.00	34.1	12.2
0.80	26.3	7.6
0.60	16.7	9.8
0.50	11.2	5.4
0.40	6.6	4.6

SAMPLE DIRECTORY/NUMBER: DATA1 /198
SAMPLE ID: # 552
SUBMITTER: James bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 10:05:30 10/06/89
REPT 10:23:09 10/06/89
TOT RUN TIME 0:17:18
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7176 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA1 /209
 SAMPLE ID: # 553
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 09:10:18 10/10/89
 REPRY 09:27:56 10/10/89
 TOT RUN TIME 0:17:15
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7178 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 4.16 μ m MODAL DIAMETER: 30.13 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	92.4	7.6
40.00	91.0	1.4
30.00	83.4	7.6
25.00	78.2	5.2
20.00	72.7	5.5
15.00	67.3	5.4
10.00	60.4	6.8
8.00	57.7	2.8
6.00	55.0	2.7
5.00	53.0	1.9
4.00	49.3	3.7
3.00	45.1	4.2
2.00	40.3	4.8
1.50	35.8	4.4
1.00	28.0	7.8
0.80	23.1	4.9
0.60	15.3	7.8
0.50	11.2	4.0
0.40	7.3	4.0

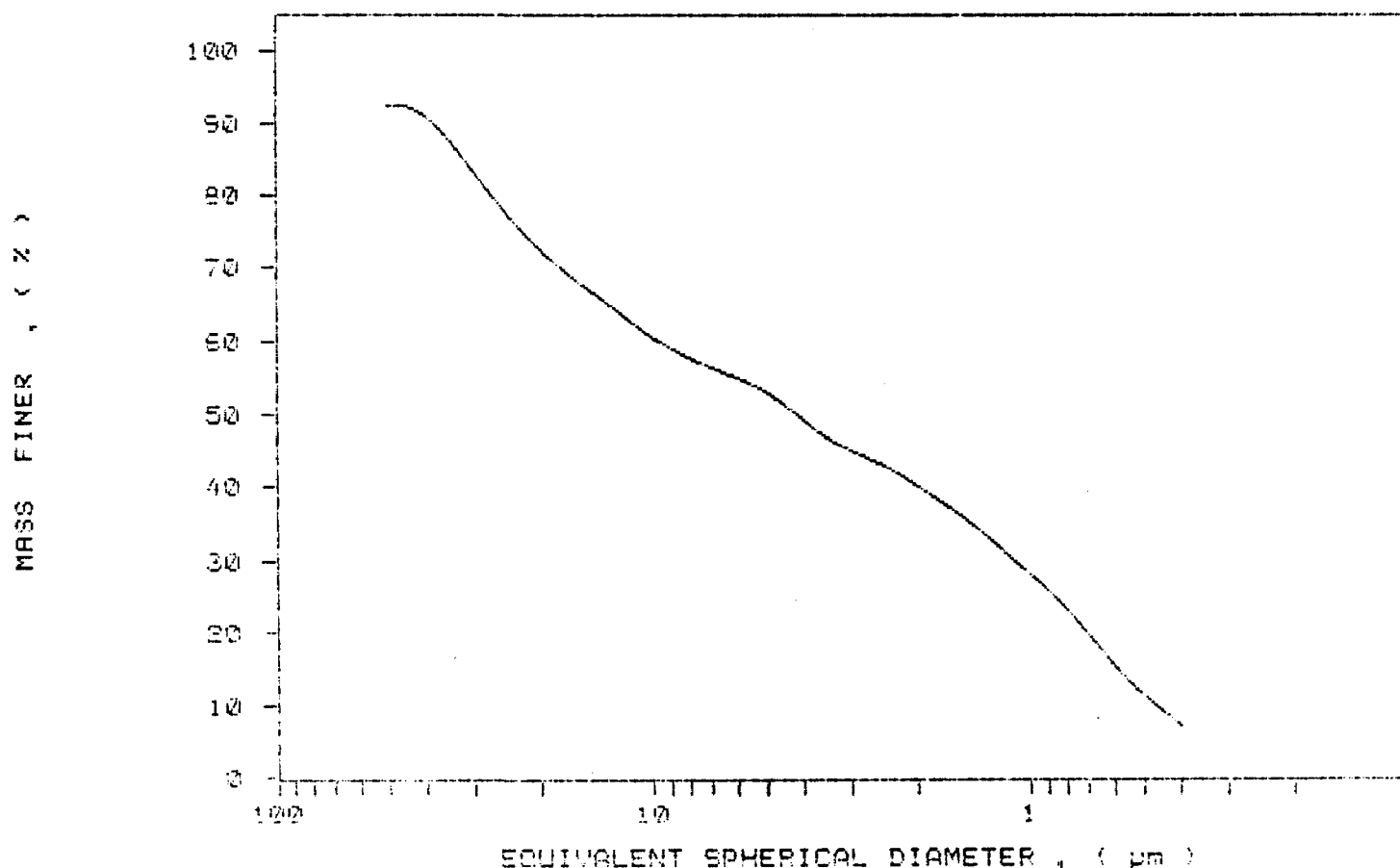
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SAMPLE DIRECTORY/NUMBER: DATA1 /203	UNIT NUMBER: 1
SAMPLE ID: # 553	START 09:10:18 10/10/89
SUBMITTER: James Bay Co.	REPRT 09:27:56 10/10/89
OPERATOR: Kaarina	TOT RUN TIME 0:17:15
SAMPLE TYPE: Clay	SAM DENS: 2.6500 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9940 g/cc
ANALYSIS TEMP: 35.3 deg C	LIQ VISC: 0.7178 cp
RUN TYPE: Standard	

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA1 /202
 SAMPLE ID: # 554
 SUBMITTER: James bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 13:33:07 10/06/89
 REPRT 13:50:43 10/06/89
 TOT RUN TIME 0:17:16
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7175 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.05 μ m

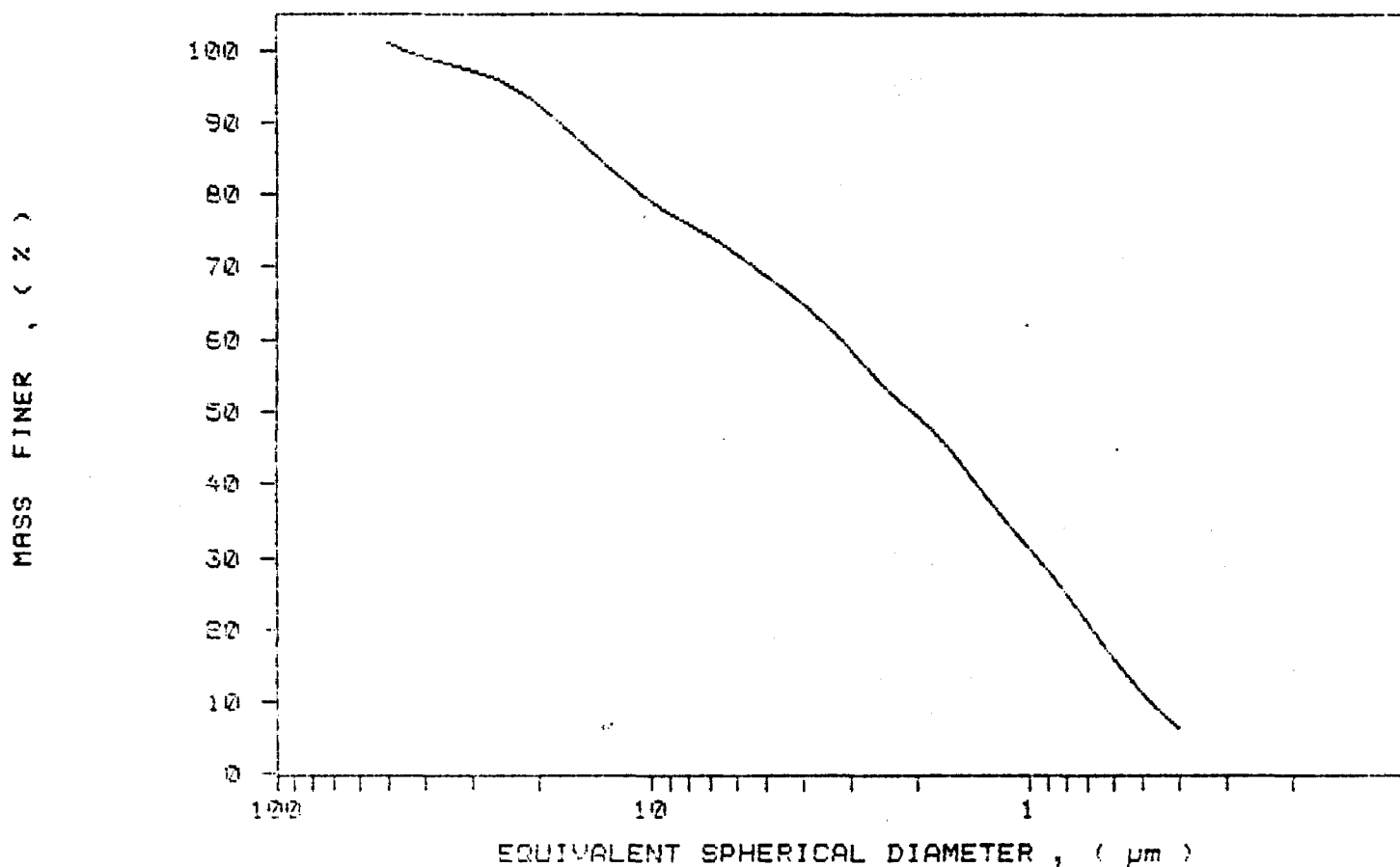
MODAL DIAMETER: 0.73 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	100.9	-0.9
40.00	99.0	2.0
30.00	97.2	1.8
25.00	95.7	1.5
20.00	92.5	3.2
15.00	86.7	5.8
10.00	78.9	7.7
8.00	76.0	3.0
6.00	71.9	4.1
5.00	68.8	3.0
4.00	64.8	4.0
3.00	58.6	6.2
2.00	49.5	9.1
1.50	42.5	7.0
1.00	31.0	11.4
0.80	24.8	6.2
0.60	16.0	8.8
0.50	11.1	4.9
0.40	6.3	4.8

SAMPLE DIRECTORY/NUMBER: DATA1 /202
SAMPLE ID: # 554
SUBMITTER: James bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 13:33:07 10/06/89
REPRT 13:50:43 10/06/89
TOT RUN TIME 0:17:16
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7175 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



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SAMPLE DIRECTORY/NUMBER: DATA1 /204
SAMPLE ID: # 555
SUBMITTER: James bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 09:43:20 10/10/89
REPT 10:00:56 10/10/89
TOT RUN TIME 0:17:16
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7177 cp

STARTING DIAMETER: 50.00 μ m
ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
FULL SCALE MASS %: 100

MASS DISTRIBUTION

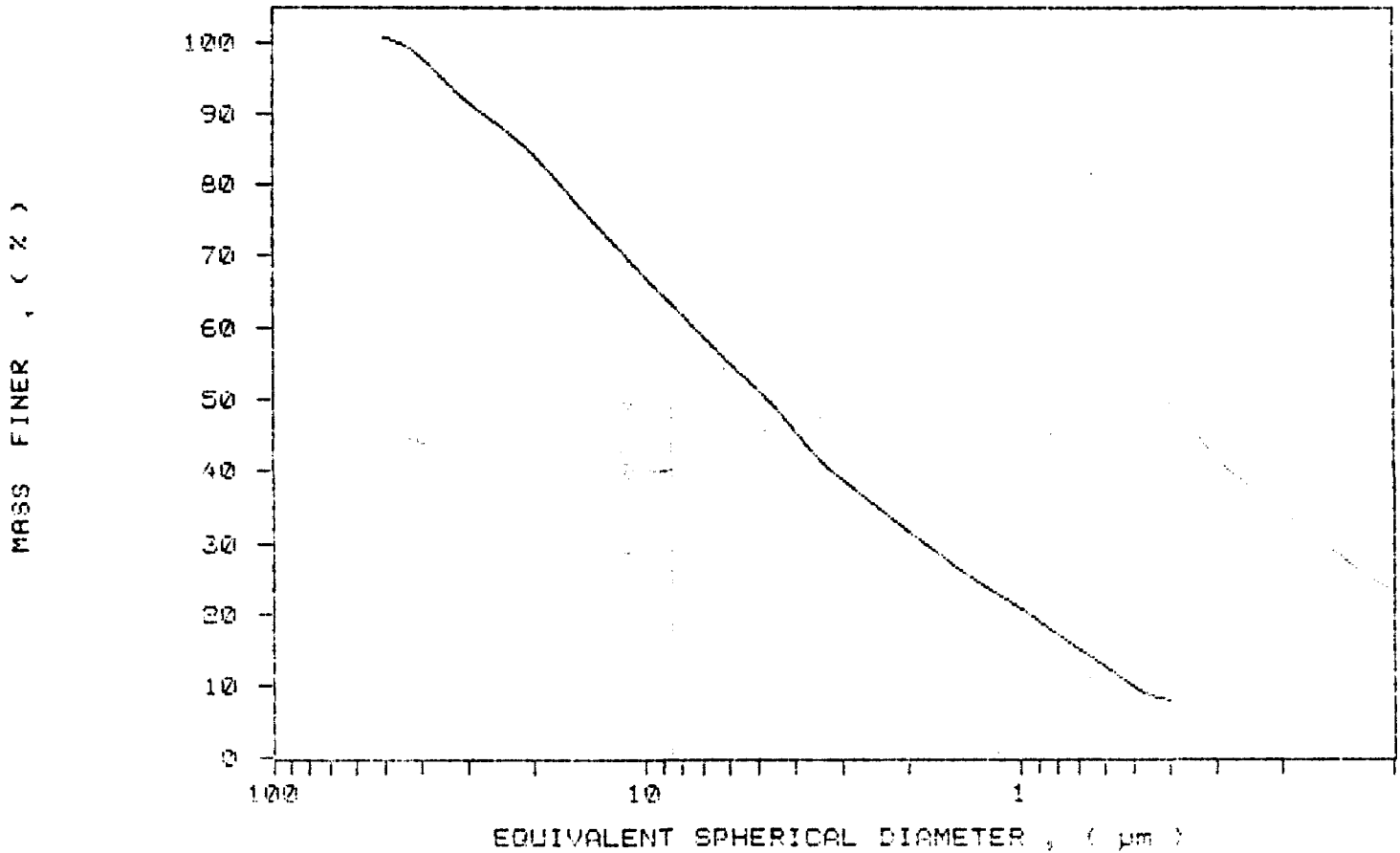
MEDIAN DIAMETER: 4.72 μ m MODAL DIAMETER: 4.02 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	100.6	-0.6
40.00	98.0	2.6
30.00	91.3	6.2
25.00	88.7	3.1
20.00	84.4	4.3
15.00	77.0	7.3
10.00	67.1	9.9
8.00	61.3	5.3
6.00	55.2	6.6
5.00	51.3	3.9
4.00	45.7	5.6
3.00	38.9	6.8
2.00	31.7	7.2
1.50	26.9	4.9
1.00	20.7	6.2
0.80	17.1	3.5
0.60	12.8	4.3
0.50	9.8	2.9
0.40	8.1	1.7

SAMPLE DIRECTORY/NUMBER: DATA1 /204
SAMPLE ID: # 555
SUBMITTER: James bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 09:43:20 10/10/89
REPT 10:00:56 10/10/89
TOT RUN TIME 0:17:16
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7177 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA1 /205
 SAMPLE ID: # 556
 SUBMITTER: James bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:18:59 10/10/89
 REPT 10:36:33 10/10/89
 TOT RUN TIME 0:17:12
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7177 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.86 μ m

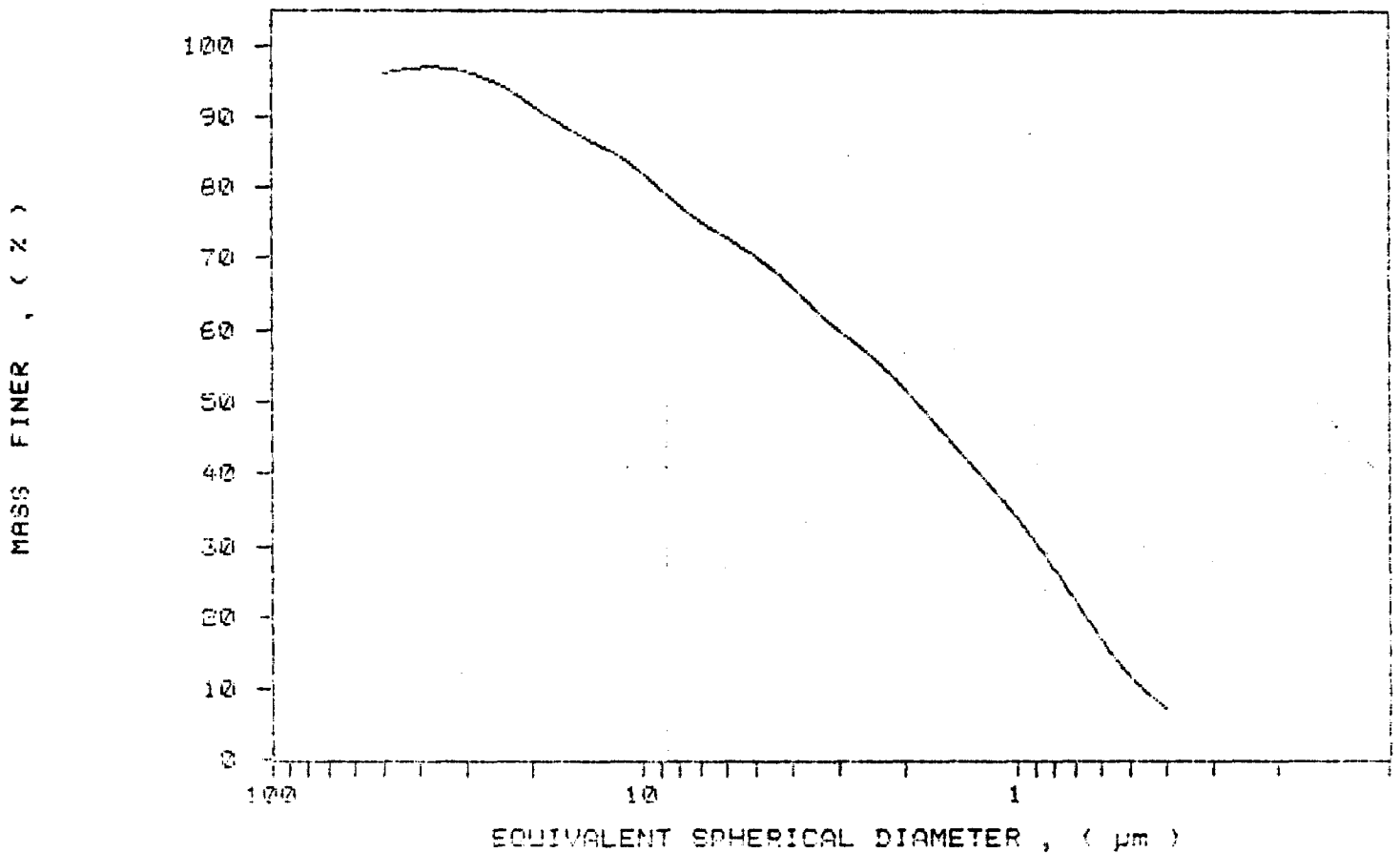
MODAL DIAMETER: 0.72 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	96.0	4.0
40.00	96.9	-0.9
30.00	96.3	0.6
25.00	94.8	1.5
20.00	91.8	3.0
15.00	87.6	4.1
10.00	82.0	5.6
8.00	77.5	4.5
6.00	73.1	4.4
5.00	70.3	2.7
4.00	66.1	4.3
3.00	60.0	6.0
2.00	51.8	8.2
1.50	44.3	7.5
1.00	33.7	10.6
0.80	26.6	7.1
0.60	16.8	9.8
0.50	11.7	5.2
0.40	7.0	4.6

SAMPLE DIRECTORY/NUMBER: DATA1 /205
SAMPLE ID: # 556
SUBMITTER: James bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 10:18:59 10/10/89
REPT 10:36:33 10/10/89
TOT RUN TIME 0:17:12
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7177 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA1 /206
 SAMPLE ID: # 557
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:51:59 10/10/89
 REPRT 11:09:32 10/10/89
 TOT RUN TIME 0:17:14
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7178 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 7.86 μ m

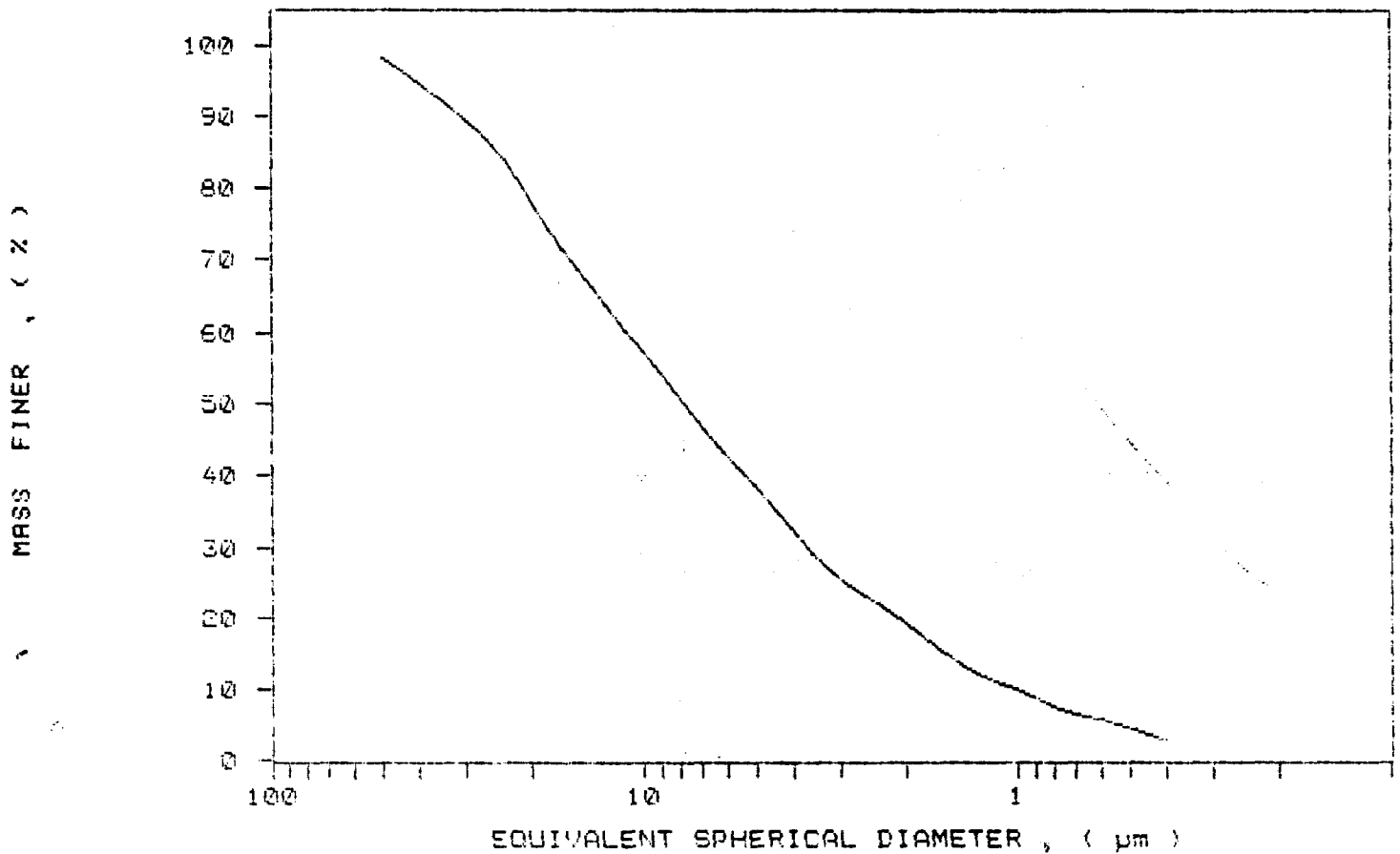
MODAL DIAMETER: 20.12 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.2	1.8
40.00	94.7	3.5
30.00	89.6	5.1
25.00	85.6	4.0
20.00	78.1	7.4
15.00	68.6	9.5
10.00	57.0	11.6
8.00	50.5	6.5
6.00	42.7	7.9
5.00	38.1	4.5
4.00	32.1	6.0
3.00	25.5	6.6
2.00	19.2	6.3
1.50	14.3	4.9
1.00	9.8	4.4
0.80	7.5	2.3
0.60	5.7	1.8
0.50	4.5	1.2
0.40	2.6	1.7

SAMPLE DIRECTORY/NUMBER: DATA1 /206
SAMPLE ID: # 557
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 25.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 10:51:59 10/10/89
REPRT 11:09:32 10/10/89
TOT RUN TIME 0:17:14
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7178 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



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SAMPLE DIRECTORY/NUMBER: DATA1 /210
 SAMPLE ID: # 558
 SUBMITTER: James bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 14:18:34 10/10/89
 REPR1 14:36:00 10/10/89
 TOT RUN TIME 0:17:05
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7177 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

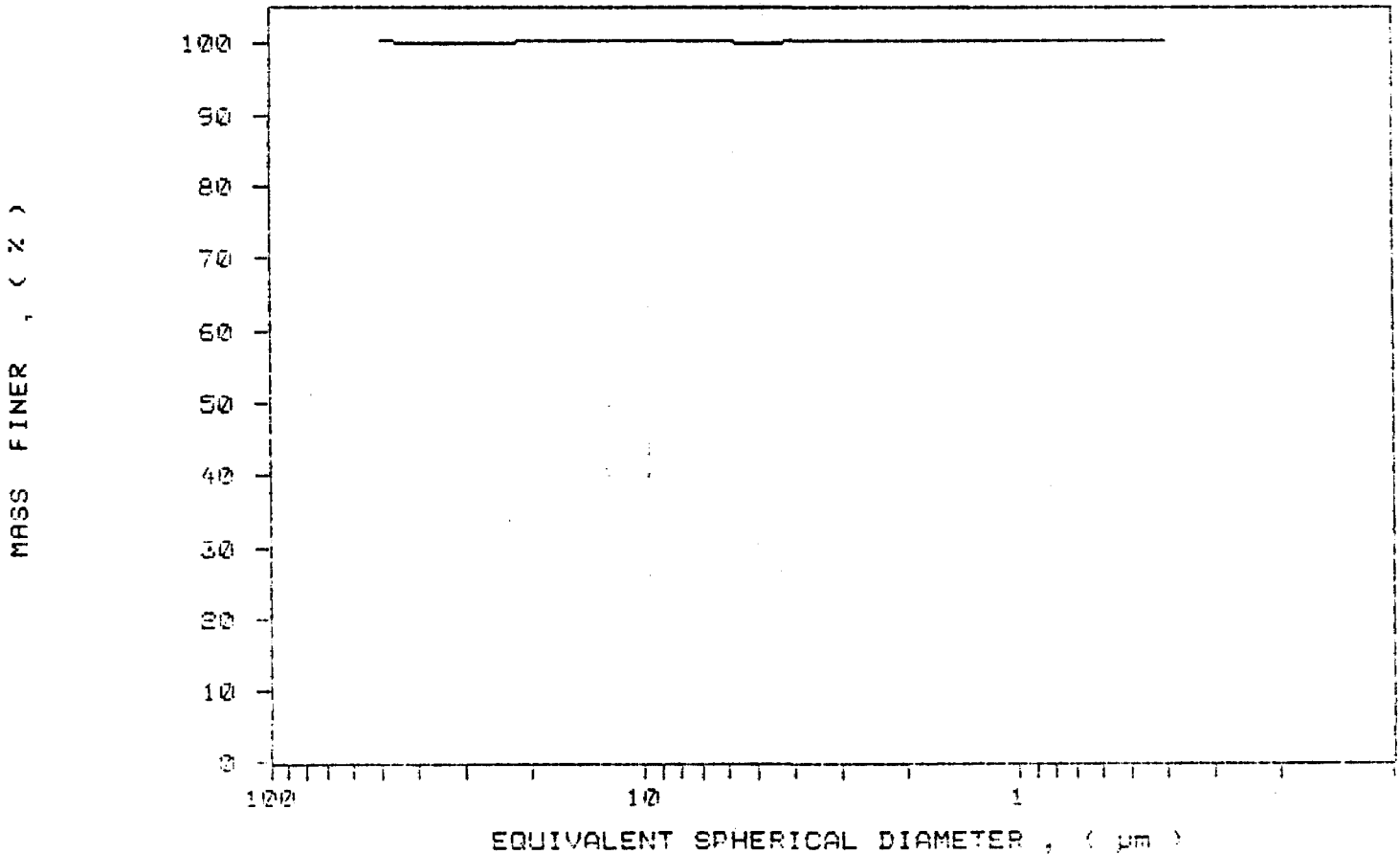
MEDIAN DIAMETER: NOT AVAILABLE

MODAL DIAMETER: 50.05 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	100.1	-0.1
40.00	100.0	0.2
30.00	100.0	-0.0
25.00	100.0	-0.0
20.00	100.1	-0.0
15.00	100.1	-0.0
10.00	100.1	0.0
8.00	100.1	0.0
6.00	100.1	0.0
5.00	100.1	0.0
4.00	100.1	-0.0
3.00	100.1	-0.1
2.00	100.2	-0.1
1.50	100.2	0.0
1.00	100.2	0.0
0.80	100.2	-0.0
0.60	100.3	-0.1
0.50	100.3	0.0
0.40	100.2	0.0

SAMPLE DIRECTORY/NUMBER: DATA1 /210	UNIT NUMBER: 1
SAMPLE ID: # 558	START 14:18:34 10/10/89
SUBMITTER: James bay Co.	REPRT 14:36:00 10/10/89
OPERATOR: Kaarina	TOT RUN TIME 0:17:05
SAMPLE TYPE: Clay	SAM DENS: 2.6500 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9940 g/cc
ANALYSIS TEMP: 35.3 deg C	LIQ VISC: 0.7177 cp
RUN TYPE: Standard	

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA1 /207
 SAMPLE ID: # 559
 SUBMITTER: James bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 11:27:18 10/10/89
 REPT 11:44:49 10/10/89
 TOT RUN TIME 0:17:12
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7178 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

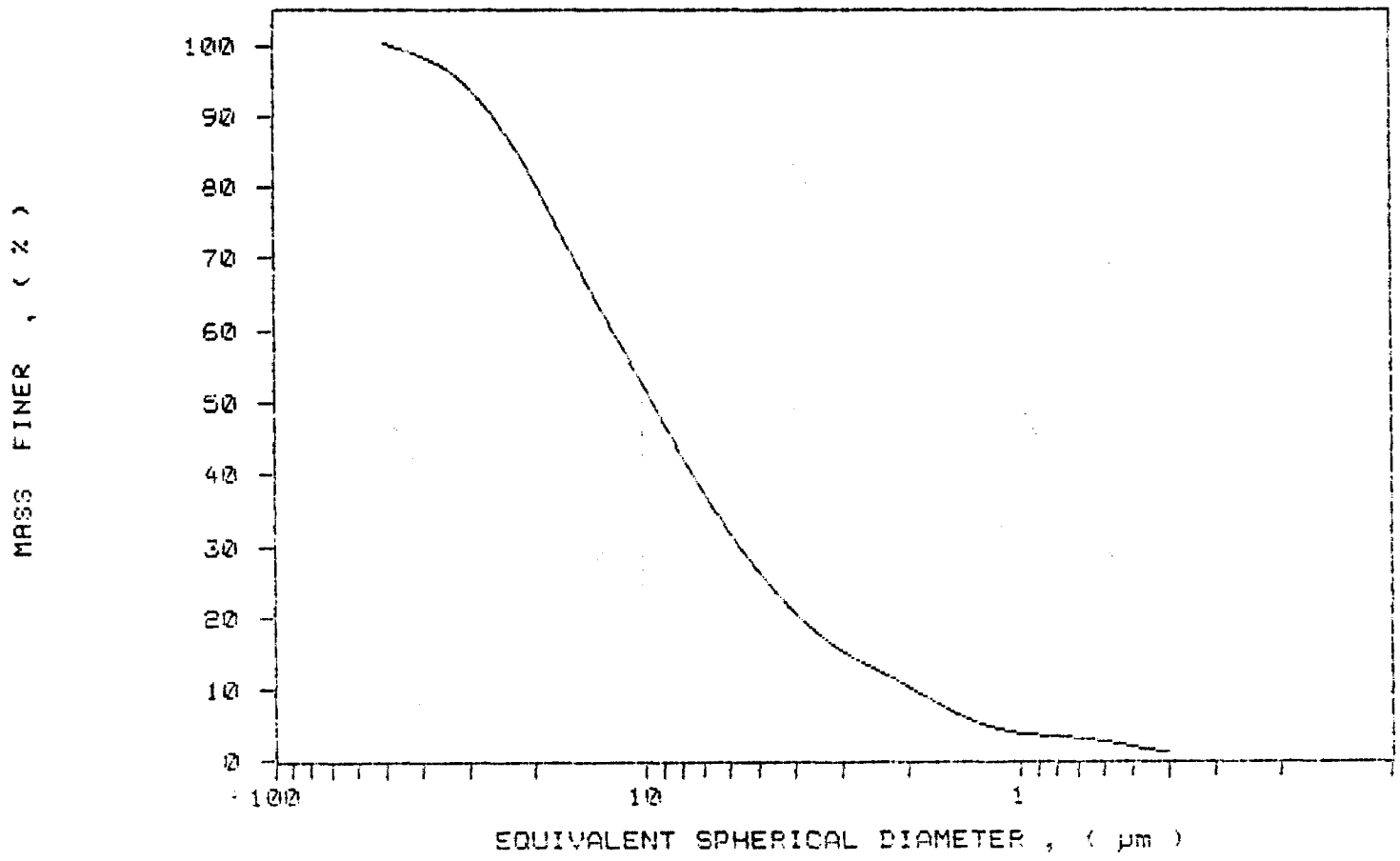
MEDIAN DIAMETER: 9.61 μ m

MODAL DIAMETER: 17.39 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	100.3	-0.3
40.00	98.5	1.8
30.00	94.2	4.3
25.00	89.3	4.9
20.00	81.1	8.2
15.00	68.3	12.8
10.00	51.6	16.7
8.00	42.4	9.2
6.00	32.0	10.4
5.00	26.3	5.7
4.00	20.5	5.8
3.00	15.2	5.3
2.00	10.3	4.9
1.50	6.7	3.6
1.00	3.8	2.9
0.80	3.3	0.5
0.60	2.7	0.7
0.50	1.9	0.8
0.40	1.1	0.8

SAMPLE DIRECTORY/NUMBER: DATA1 /207	UNIT NUMBER: 1
SAMPLE ID: # 559	START 11:27:18 10/10/89
SUBMITTER: James bay Co.	REPRT 11:44:49 10/10/89
OPERATOR: Kaarina	TOT RUN TIME 0:17:12
SAMPLE TYPE: Clay	SAM DENS: 2.6500 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9940 g/cc
ANALYSIS TEMP: 35.3 deg C	LIQ VISC: 0.7178 cp
RUN TYPE: Standard	

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



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SAMPLE DIRECTORY/NUMBER: DATA1 /200
SAMPLE ID: # 560
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 11:57:17 10/10/89
REPR 12:14:46 10/10/89
TOT RUN TIME 0:17:08
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7180 cp

STARTING DIAMETER: 50.00 μ m
ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: NOT AVAILABLE

MODAL DIAMETER: 11.46 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	92.5	7.5
40.00	89.5	3.0
30.00	84.7	4.8
25.00	79.9	4.8
20.00	73.0	6.9
15.00	63.1	9.9
10.00	-15.5	78.6
8.00	-34.8	19.3
6.00	-23.0	-11.9
5.00	1.9	-24.9
4.00	-1.2	3.2
3.00	149.2	-150.4
2.00	236.0	-86.8
1.50	213.9	22.2
1.00	169.7	44.2
0.80	147.2	22.5
0.60	120.6	26.6
0.50	109.3	11.3
0.40	102.5	6.8

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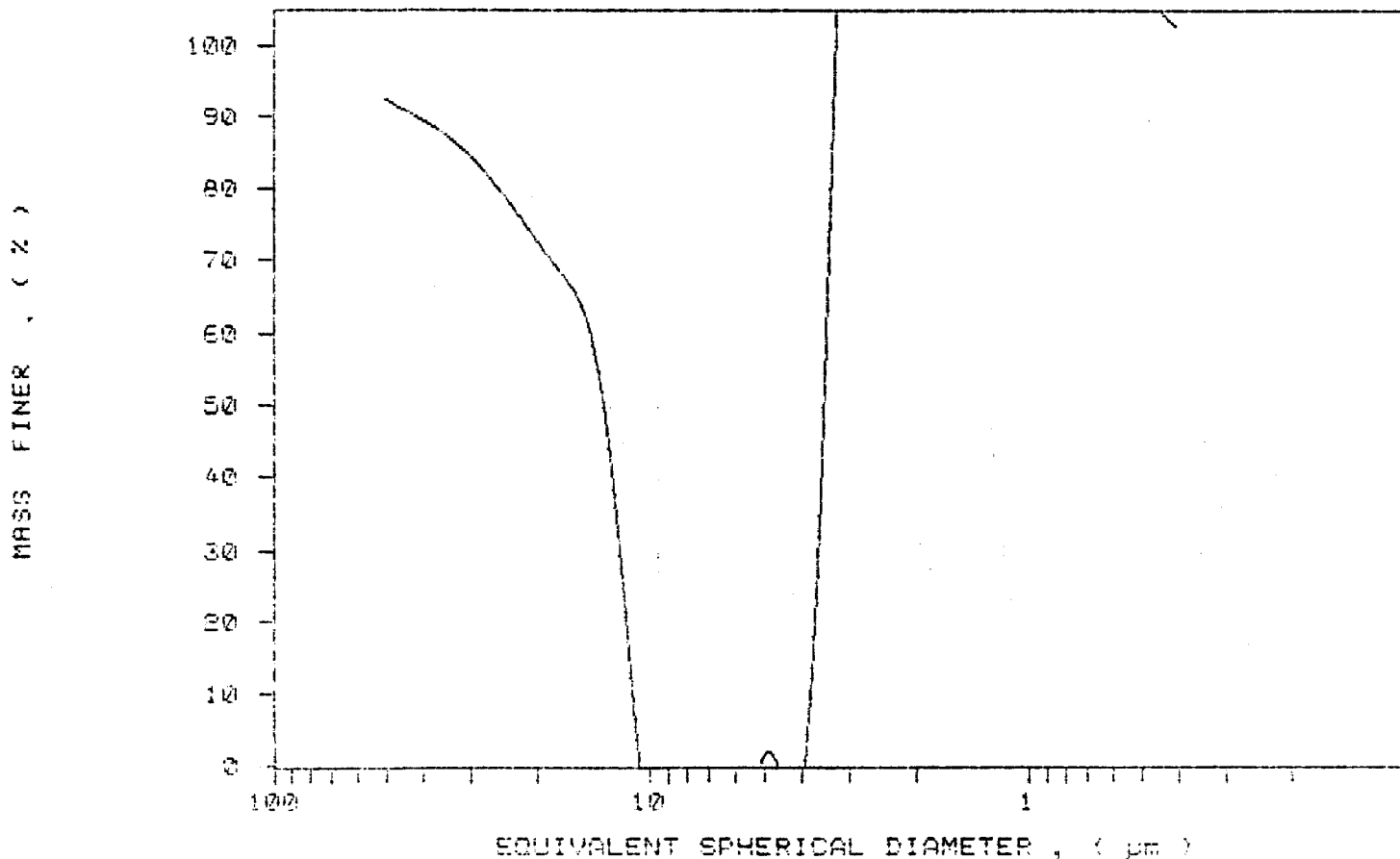
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SAMPLE DIRECTORY/NUMBER: DATA1 /208
SAMPLE ID: # 560
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 11:57:17 10/10/89
REPT 12:14:46 10/10/89
TOT RUN TIME 0:17:08
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7180 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



UNIT NO: 1011101
 SAMPLE NO: 1011101
 SAMPLE NO: 1011101
 OPERATOR: [unclear]
 ANALYST: [unclear]
 METHOD: [unclear]
 INSTRUMENT: [unclear]

UNIT NUMBER: 1
 START 10:36:46 10/06/89
 RETRI. 08:4:158 09/20/89
 TOT RUN TIME 01:17:23
 SAM DEN: 2.6000 g/cc
 CIG DEN: 0.0940 g/cc
 CIG VISC: 0.1172 cc

STARTING DIAMETER: 0.00 um
 ENDING DIAMETER: 0.98 um

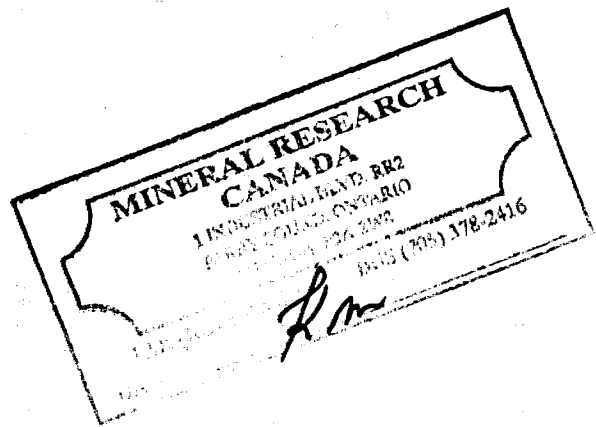
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MODAL DIAMETER: 0.10 um

MODAL DIAMETER: 0.10 um

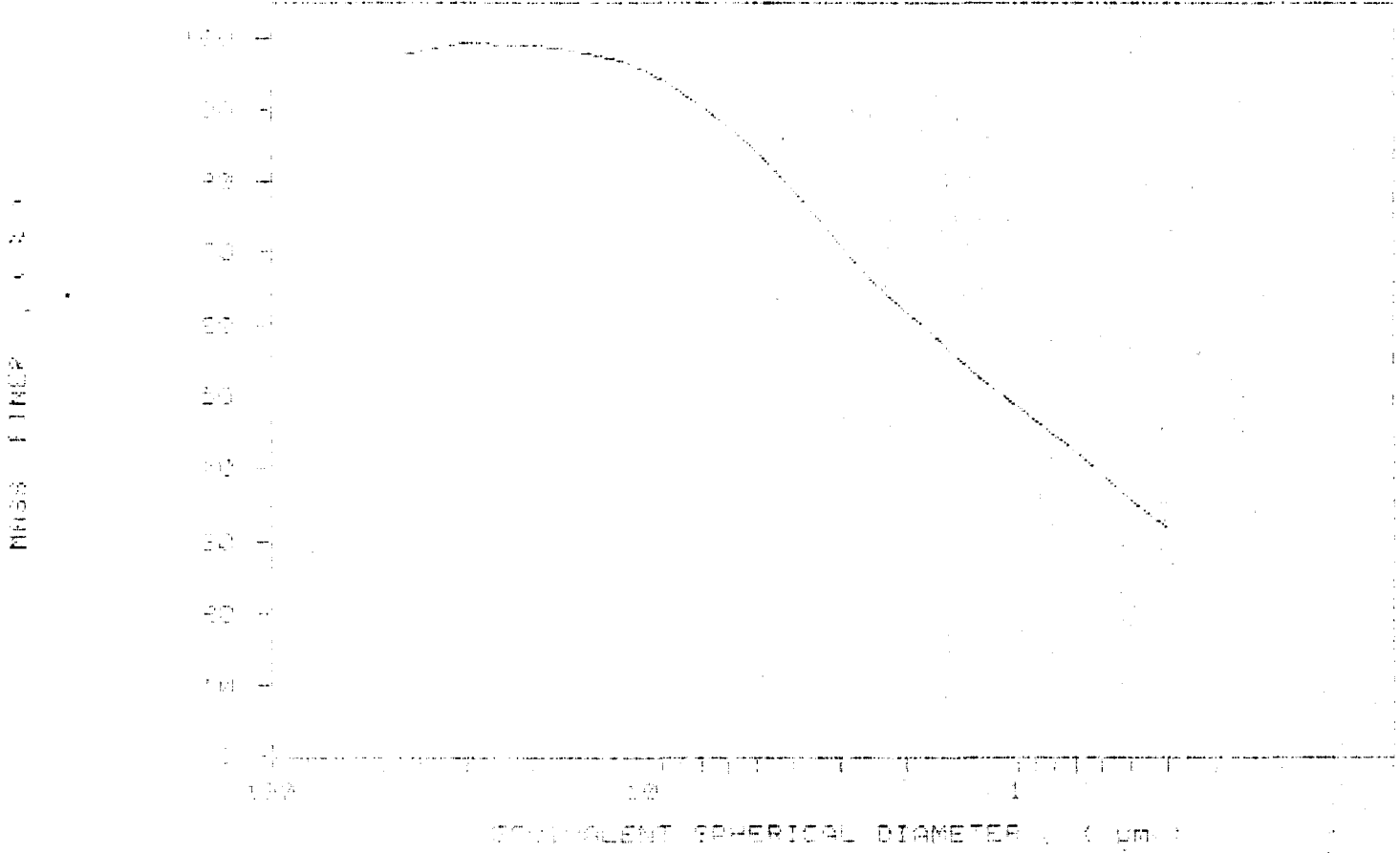
DIAMETER (um)	MASS %	INTERVAL
0.000	0.0	0.0
0.005	0.0	0.0
0.010	0.0	0.0
0.015	0.0	0.0
0.020	0.0	0.0
0.025	0.0	0.0
0.030	0.0	0.0
0.035	0.0	0.0
0.040	0.0	0.0
0.045	0.0	0.0
0.050	0.0	0.0
0.055	0.0	0.0
0.060	0.0	0.0
0.065	0.0	0.0
0.070	0.0	0.0
0.075	0.0	0.0
0.080	0.0	0.0
0.085	0.0	0.0
0.090	0.0	0.0
0.095	0.0	0.0
0.100	0.0	0.0
0.105	0.0	0.0
0.110	0.0	0.0
0.115	0.0	0.0
0.120	0.0	0.0
0.125	0.0	0.0
0.130	0.0	0.0
0.135	0.0	0.0
0.140	0.0	0.0
0.145	0.0	0.0
0.150	0.0	0.0
0.155	0.0	0.0
0.160	0.0	0.0
0.165	0.0	0.0
0.170	0.0	0.0
0.175	0.0	0.0
0.180	0.0	0.0
0.185	0.0	0.0
0.190	0.0	0.0
0.195	0.0	0.0
0.200	0.0	0.0
0.205	0.0	0.0
0.210	0.0	0.0
0.215	0.0	0.0
0.220	0.0	0.0
0.225	0.0	0.0
0.230	0.0	0.0
0.235	0.0	0.0
0.240	0.0	0.0
0.245	0.0	0.0
0.250	0.0	0.0
0.255	0.0	0.0
0.260	0.0	0.0
0.265	0.0	0.0
0.270	0.0	0.0
0.275	0.0	0.0
0.280	0.0	0.0
0.285	0.0	0.0
0.290	0.0	0.0
0.295	0.0	0.0
0.300	0.0	0.0
0.305	0.0	0.0
0.310	0.0	0.0
0.315	0.0	0.0
0.320	0.0	0.0
0.325	0.0	0.0
0.330	0.0	0.0
0.335	0.0	0.0
0.340	0.0	0.0
0.345	0.0	0.0
0.350	0.0	0.0
0.355	0.0	0.0
0.360	0.0	0.0
0.365	0.0	0.0
0.370	0.0	0.0
0.375	0.0	0.0
0.380	0.0	0.0
0.385	0.0	0.0
0.390	0.0	0.0
0.395	0.0	0.0
0.400	0.0	0.0
0.405	0.0	0.0
0.410	0.0	0.0
0.415	0.0	0.0
0.420	0.0	0.0
0.425	0.0	0.0
0.430	0.0	0.0
0.435	0.0	0.0
0.440	0.0	0.0
0.445	0.0	0.0
0.450	0.0	0.0
0.455	0.0	0.0
0.460	0.0	0.0
0.465	0.0	0.0
0.470	0.0	0.0
0.475	0.0	0.0
0.480	0.0	0.0
0.485	0.0	0.0
0.490	0.0	0.0
0.495	0.0	0.0
0.500	0.0	0.0
0.505	0.0	0.0
0.510	0.0	0.0
0.515	0.0	0.0
0.520	0.0	0.0
0.525	0.0	0.0
0.530	0.0	0.0
0.535	0.0	0.0
0.540	0.0	0.0
0.545	0.0	0.0
0.550	0.0	0.0
0.555	0.0	0.0
0.560	0.0	0.0
0.565	0.0	0.0
0.570	0.0	0.0
0.575	0.0	0.0
0.580	0.0	0.0
0.585	0.0	0.0
0.590	0.0	0.0
0.595	0.0	0.0
0.600	0.0	0.0
0.605	0.0	0.0
0.610	0.0	0.0
0.615	0.0	0.0
0.620	0.0	0.0
0.625	0.0	0.0
0.630	0.0	0.0
0.635	0.0	0.0
0.640	0.0	0.0
0.645	0.0	0.0
0.650	0.0	0.0
0.655	0.0	0.0
0.660	0.0	0.0
0.665	0.0	0.0
0.670	0.0	0.0
0.675	0.0	0.0
0.680	0.0	0.0
0.685	0.0	0.0
0.690	0.0	0.0
0.695	0.0	0.0
0.700	0.0	0.0
0.705	0.0	0.0
0.710	0.0	0.0
0.715	0.0	0.0
0.720	0.0	0.0
0.725	0.0	0.0
0.730	0.0	0.0
0.735	0.0	0.0
0.740	0.0	0.0
0.745	0.0	0.0
0.750	0.0	0.0
0.755	0.0	0.0
0.760	0.0	0.0
0.765	0.0	0.0
0.770	0.0	0.0
0.775	0.0	0.0
0.780	0.0	0.0
0.785	0.0	0.0
0.790	0.0	0.0
0.795	0.0	0.0
0.800	0.0	0.0
0.805	0.0	0.0
0.810	0.0	0.0
0.815	0.0	0.0
0.820	0.0	0.0
0.825	0.0	0.0
0.830	0.0	0.0
0.835	0.0	0.0
0.840	0.0	0.0
0.845	0.0	0.0
0.850	0.0	0.0
0.855	0.0	0.0
0.860	0.0	0.0
0.865	0.0	0.0
0.870	0.0	0.0
0.875	0.0	0.0
0.880	0.0	0.0
0.885	0.0	0.0
0.890	0.0	0.0
0.895	0.0	0.0
0.900	0.0	0.0
0.905	0.0	0.0
0.910	0.0	0.0
0.915	0.0	0.0
0.920	0.0	0.0
0.925	0.0	0.0
0.930	0.0	0.0
0.935	0.0	0.0
0.940	0.0	0.0
0.945	0.0	0.0
0.950	0.0	0.0
0.955	0.0	0.0
0.960	0.0	0.0
0.965	0.0	0.0
0.970	0.0	0.0
0.975	0.0	0.0
0.980	0.0	0.0
0.985	0.0	0.0
0.990	0.0	0.0
0.995	0.0	0.0
1.000	0.0	0.0



SAMPLE NO: 1000-1000
 DATE: 10/15/90
 OPERATOR: James Ray
 ANALYSIS: 10/15/90
 CON TYPE: Standard

UNIT NUMBER: 1
 START: 10:15:40 10/15/90
 REPORT: 0914102 09:50:51
 TOT RUN TIME: 0117:20
 SAM DEN: 2.5500 g/cc
 LIQ DEN: 0.9940 g/cc
 LIQ VISC: 0.7175 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



ROTARY DRILL HOLE RECORD

 Drilling Started: Mar. 3, 1989 Logged: A. Casselman
 Drilling Finished: Mar. 4, 1989 Logged: Mar. 22, 1989
 Length: 250.0' Drilling Co.: Midwest
 Overburden: 52.0' Core Storage:
 Claim No: 825805 Mineral Research Canada
 Dip Collar: -90 R. R. # 2
 Core: 3.5" Parry Sound, ON
 Property: Kipling P2A 2W8
 Northing: 50 N Hole No: 89-87
 Easting: 5650 E

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

EOH - 250.0'

**MINERAL RESEARCH
CANADA**

1 INDUSTRIAL BLVD #2
PARRY SOUND, ONTARIO
P2A 2W8

FAX (705) 378-1125 BUS (705) 378-2416

DATE *A. Casselman*

Section 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. |
| 123.0' | 127.0' | 2821 | Kss - light brown, with increasing clay content downsection, as well as silica grain, size, some, haematite staining. |
| 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.

- | | | | |
|--------|--------|------|---|
| 131.0' | 135.0' | 2823 | Sandy Clay - buff, minor illite and heavies, competent. |
| 135.0' | 140.0' | 2824 | Sandy Clay - grey with darker laminations, minor illite and heavies, purple laminations. |
| 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. |
| 145.0' | 150.0' | 2826 | Kss - white, to light brown coarsening downsection, medium grain, rare yellow chert, minor illite and heavies. |
| 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. |
| 154.0' | 158.0' | 2828 | Kss - as above, some illite, 2.0" of very fine grain, buff sandy clay. |
| 158.0' | 162.0' | 2829 | Kss - fine grain, buff, near sandy clay, high illite and clay content, minor heavies. |
| 162.0' | 164.0' | 2830 | Kss - as above, higher percentage of large clasts up to 1.0" yellow chert and smoky quartz. |
| 164.0' | 166.0' | 2831 | Kss - as above, light brown, frequent small clay clots, pliable. |
| 166.0' | 170.0' | 2832 | Kss - very coarse grain, clay-rich, medium brown, rounded clasts up to 2.0", vari-coloured silica. |
| 170.0' | 178.0' | 2833 | Kss - as above, one area of brilliant red powder, no colouration of surrounding clay - haematite/limonite?, high clay in matrix. |
| 178.0' | 182.0' | 2834 | Kss - as above, average silica 0.25", slightly more brown in colour, no red. |
| 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. |
| 187.0' | 191.0' | 2836 | Kss - as above, fewer large clasts. |

191.0' 195.0' 2837 Kss - coarse grain, mixture of two previous samples, coarse grained material, white.

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.

199.0' 204.0' 2839 Kss - as above.

204.0' 210.0' 2840 Kss - as above.

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'

Claim No: 825805

Dip Collar: -90

Length: 250.0'

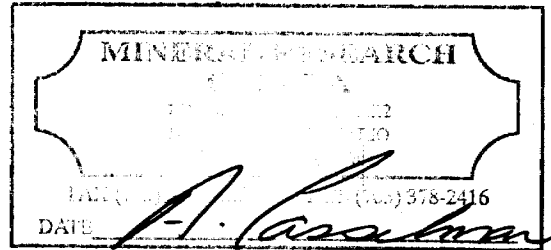
Overburden Depth: 52.0'

Northing: 50 N

Easting: 5650 E

BL. 00

200 N



89-87

Peat
Till
Gravel

Till

KSS

Clay (yel, pur, brn)
KSS
Clay (lt brn, gry)

KSS

Sandy Clay

KSS

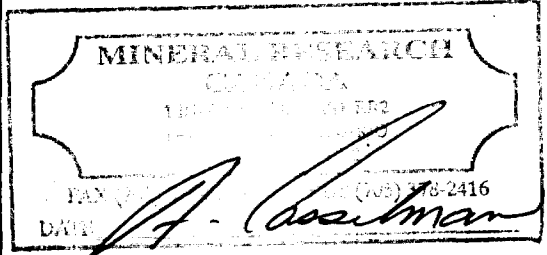
Clay (choc brn)

KSS



18400 E

18600 E



89-87

Peat
Till
Gravel

Till

KSS

Clay (yel, pur, brn)
KSS
Clay (lt brn, gry)

KSS

Sandy Clay

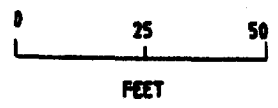
KSS

Clay (choc brn)

KSS



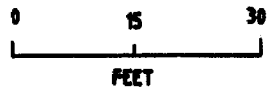
7.07%
72.89%
7.86%



89-87



- 2801
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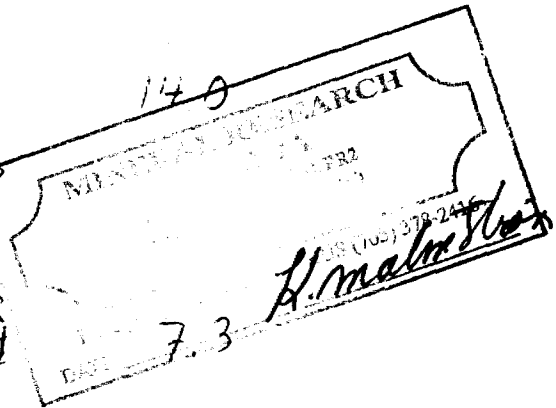
MINERAL RESEARCH CANADA

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

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
<i>Hole 89-87</i> 2801	+ 4	2.8	6.8	
	+ 40	81.8		
	+100	8.0		
	+200	0.9		
	+325	0.3		
	-325	7.0		
2802	+ 4	17.5	5.0	
	+ 40	59.8		
	+100	9.0		
	+200	2.8		
	+325	1.5		
	-325	9.11		
2803	+ 4	5.1	7.8	
	+ 40	50.2		
	+100	22.8		
	+200	5.1		
	+325	2.1		
	-325	14.7		
2804	+ 4	1.5	14.0	
	+ 40	63.5		
	+100	19.9		
	+200	1.1		
	+325	0.6		
	-325	12.8		
2805	+ 4	2.2	7.3	
	+ 40	23.2		
	+100	8.4		
	+200	1.7		
	+325	0.8		
	-325	6.7		



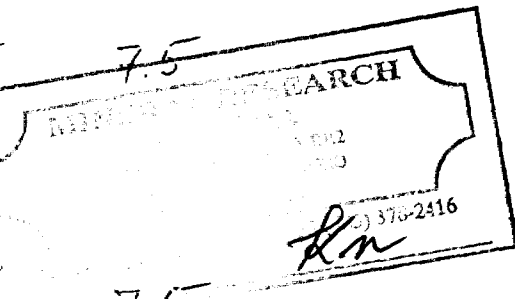
MINERAL RESEARCH CANADA

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

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
<i>Hole 89-87</i> 2806	+ 4	14.0	5.6	
	+ 40	67.4		
	+100	9.0		
	+200	2.1		
	+325	0.9		
	-325	6.6		
2807	+ 4	16.5	6.5	
	+ 40	51.4		
	+100	15.6		
	+200	2.2		
	+325	1.6		
	-325	12.7		
2808	+ 4	5.3	10.0	
	+ 40	56.1		
	+100	17.3		
	+200	2.9		
	+325	2.6		
	-325	21.8		
2809	+ 4	3.4	7.5	
	+ 40	44.3		
	+100	39.5		
	+200	4.4		
	+325	1.1		
	-325	7.2		
2810	+ 4	0.9	7.5	
	+ 40	63.1		
	+100	13.2		
	+200	2.1		
	+325	1.6		
	-325	9.5		



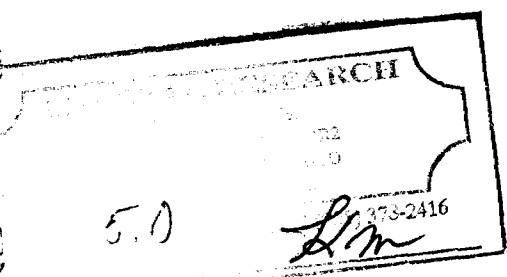
MINERAL RESEARCH CANADA

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

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
<i>Style 29-27</i> <i>2811</i>	+ 4	0.4	7.4	
	+ 40	60.3		
	+100	12.5		
	+200	4.2		
	+325	3.2		
	-325	19.4		
 <i>2812</i>	+ 4	0.6	5.6	
	+ 40	53.6		
	+100	24.8		
	+200	3.9		
	+325	2.3		
	-325	14.6		
 <i>2813</i>	+ 4	5.0	9.2	
	+ 40	49.1		
	+100	12.9		
	+200	3.4		
	+325	2.9		
	-325	20.7		
 <i>2814</i>	+ 4	8	16.1	
	+ 40	1.9		
	+100	1.2		
	+200	1.5		
	+325	3.1		
	-325	92.5		
 <i>2815</i>	+ 4	0	5.0	
	+ 40	44.8		
	+100	11.6		
	+200	3.0		
	+325	1.8		
	-325	38.8		



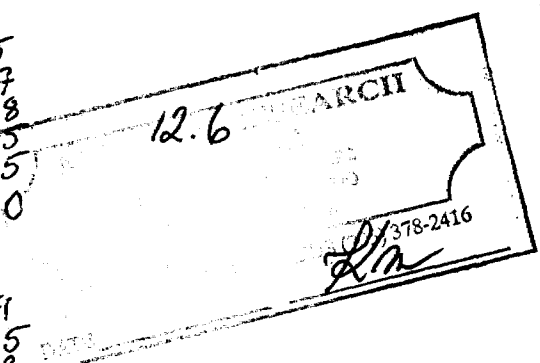
MINERAL RESEARCH CANADA

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

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
<i>2016 89-87</i>	+ 4	0	12.2	
	+ 40	8.4		
	+100	5.3		
	+200	6.3		
	+325	7.3		
	-325	72.7		
<i>2516</i>	+ 4	1.0	11.0	
	+ 40	67.5		
	+100	18.4		
	+200	2.2		
	+325	1.3		
	-325	9.6		
<i>2517</i>	+ 4	1.3	14.1	
	+ 40	73.8		
	+100	12.8		
	+200	2.0		
	+325	1.2		
	-325	8.9		
<i>2518</i>	+ 4	2.5	12.6	
	+ 40	43.7		
	+100	30.8		
	+200	6.5		
	+325	2.5		
	-325	14.0		
<i>2519</i>	+ 4	3.9	7.4	
	+ 40	54.5		
	+100	19.8		
	+200	3.4		
	+325	1.6		
	-325	17.6		
<i>2820</i>	+ 4	3.9	7.4	
	+ 40	54.5		
	+100	19.8		
	+200	3.4		
	+325	1.6		
	-325	17.6		



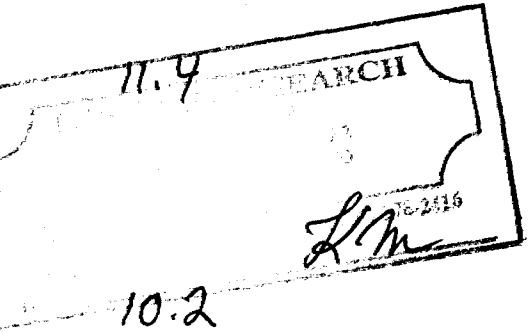
MINERAL RESEARCH CANADA

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 FAX: (705) 378-5123

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
<i>Hole 89-87</i> 2821	+ 4	3.9	7.4	
	+ 40	54.5		
	+100	19.8		
	+200	3.4		
	+325	1.6		
	-325	17.6		
2822	+ 4	0	15.9	
	+ 40	0.1		
	+100	37.1		
	+200	19.7		
	+325	8.2		
	-325	34.9		
2823	+ 4	0	9.2	
	+ 40	0.7		
	+100	16.8		
	+200	17.8		
	+325	8.6		
	-325	56.1		
2824	+ 4	0	11.4	
	+ 40	0.6		
	+100	56.3		
	+200	13.8		
	+325	4.7		
	-325	24.6		
2825	+ 4	0	10.2	
	+ 40	7.3		
	+100	63.1		
	+200	6.3		
	+325	3.0		
	-325	20.3		



MINERAL RESEARCH CANADA

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 FAX: (705) 378-5123

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
Hole 89-87 2826	+ 4	0.2	10.5	
	+ 40	65.3		
	+100	24.3		
	+200	1.6		
	+325	1.1		
	-325	7.5		
2827	+ 4	1.0	7.2	
	+ 40	80.7		
	+100	12.3		
	+200	2.2		
	+325	1.1		
	-325	2.7		
2828	+ 4	6.1	9.1	
	+ 40	67.7		
	+100	9.1		
	+200	1.9		
	+325	1.4		
	-325	13.8		
2829	+ 4	2	15.4	
	+ 40	10.3		
	+100	69.6		
	+200	4.4		
	+325	2.2		
	-325	13.5		
2830	+ 4	10.3	11.3	
	+ 40	30.4		
	+100	41.3		
	+200	3.6		
	+325	1.7		
	-325	12.7		

MINERAL RESEARCH
 TEL: (705) 378-2416
 PARRY SOUND, ON. CANADA
 P2A 2W8
llm

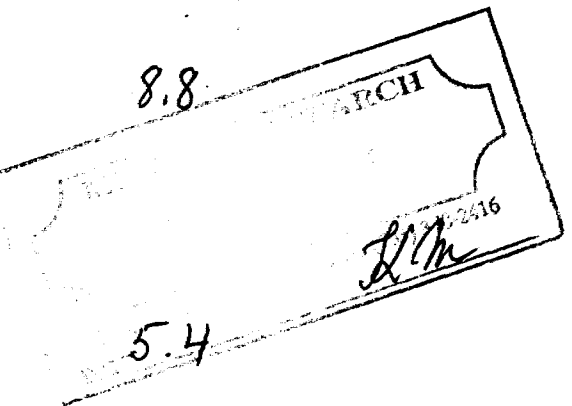
MINERAL RESEARCH CANADA

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

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
<i>lot 89-87</i> 2831	+ 4	8.3	7.0	
	+ 40	53.6		
	+100	14.6		
	+200	3.4		
	+325	2.0		
	-325	18.1		
2832	+ 4	22.2	6.9	
	+ 40	33.9		
	+100	13.9		
	+200	5.0		
	+325	2.0		
	-325	23.6		
2833	+ 4	14.4	6.1	
	+ 40	57.7		
	+100	9.1		
	+200	2.4		
	+325	7.6		
	-325	14.8		
2834	+ 4	21.8	8.8	
	+ 40	45.7		
	+100	11.8		
	+200	2.9		
	+325	2.1		
	-325	15.7		
2835	+ 4	1.2	5.4	
	+ 40	71.2		
	+100	13.6		
	+200	2.3		
	+325	1.1		
	-325	10.6		



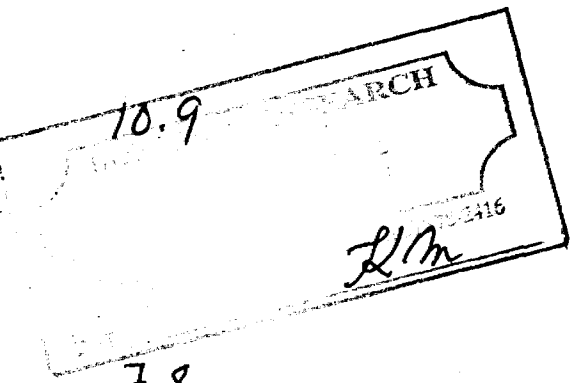
MINERAL RESEARCH CANADA

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

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
<i>hole 89-87</i> 2836	+ 4	2.1	7.9	
	+ 40	61.2		
	+100	22.5		
	+200	2.3		
	+325	1.3		
	-325	10.6		
2837	+ 4	17.0	6.0	
	+ 40	57.4		
	+100	12.1		
	+200	1.4		
	+325	1.1		
	-325	11.0		
2838	+ 4	9.1	5.7	
	+ 40	71.8		
	+100	9.2		
	+200	1.9		
	+325	0.7		
	-325	7.3		
2839	+ 4	0.7	10.9	
	+ 40	51.2		
	+100	37.1		
	+200	1.6		
	+325	0.7		
	-325	8.7		
2840	+ 4	0.9	7.8	
	+ 40	62.9		
	+100	25.6		
	+200	1.6		
	+325	0.7		
	-325	8.3		



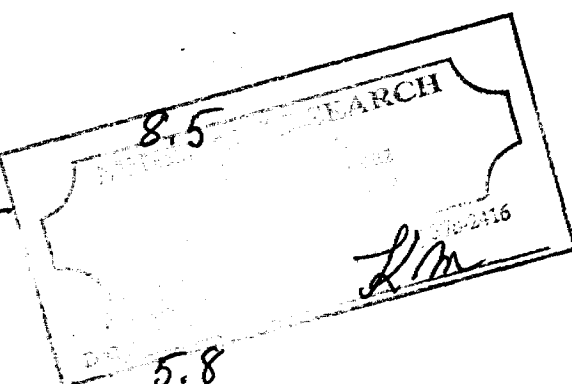
MINERAL RESEARCH CANADA

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

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
<i>Hole 89-87</i> 2841	+ 4	0	18.1	
	+ 40	0.6		
	+100	11.6		
	+200	8.3		
	+325	5.5		
	-325	74.0		
2842	+ 4	0	11.2	
	+ 40	43.3		
	+100	44.4		
	+200	3.1		
	+325	1.9		
	-325	7.3		
2843	+ 4	0.6	7.7	
	+ 40	19.8		
	+100	50.0		
	+200	7.3		
	+325	2.7		
	-325	19.6		
2844	+ 4	2.5	8.5	
	+ 40	42.7		
	+100	32.6		
	+200	4.5		
	+325	2.2		
	-325	15.5		
2845	+ 4	1.8	5.8	
	+ 40	71.7		
	+100	13.3		
	+200	2.5		
	+325	1.5		
	-325	9.2		



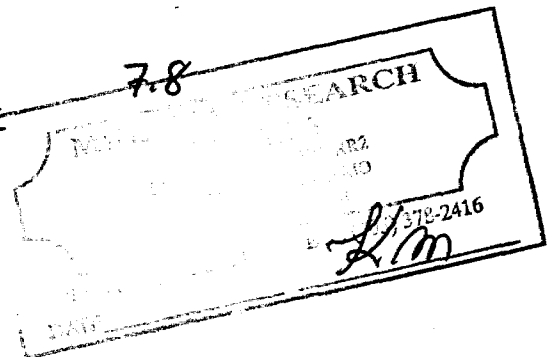
MINERAL RESEARCH CANADA

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

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
<i>Hole 89-87</i> 2846	+ 4	2.3	6.2	
	+ 40	48.7		
	+100	24.5		
	+200	6.1		
	+325	2.4		
	-325	16.0		
2847	+ 4	0.1	6.8	
	+ 40	72.0		
	+100	15.8		
	+200	2.5		
	+325	1.4		
	-325	8.2		
2848	+ 4	0	6.9	
	+ 40	60.0		
	+100	26.6		
	+200	2.7		
	+325	1.5		
	-325	9.2		
2849	+ 4	0	7.8	
	+ 40	57.7		
	+100	27.0		
	+200	2.7		
	+325	1.5		
	-325	11.1		
	+ 4			
	+ 40			
	+100			
	+200			
	+325			
	-325			



SAMPLE IDENTIFICATION NUMBER: 140000 / 64
 SAMPLE ID: 140000-001
 SUBMITTER: James G. L.
 OPERATOR: Kaslin
 SAMPLE TYPE: Slur.
 LIQUID PHASE: Water
 ANALYSIS: Susp. Conc. (g/cc) ANAL. TYPE: Standard

UNIT NUMBER: 1
 START 15:37:28 11/14/89
 REPT 14:34:37 10/24/91
 TOT RUN TIME 0:17:35
 SAM DENS: 2.8500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7265 cc

STARTING DIAMETER: 10.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.00 μ m MODAL DIAMETER: 3.12 μ m

DIAMETER (μ m)	ACCUMULATED DMS FRACTION (%)	WIDTH IN INTERVAL (μ m)
50.00	0.00	1.0
40.00	0.00	0.2
30.00	0.00	0.7
25.00	0.00	1.1
20.00	0.00	2.0
15.00	0.00	4.1
10.00	0.00	4.0
8.00	0.00	3.4
6.00	0.00	2.9
5.00	0.00	2.0
4.00	0.00	1.7
3.00	0.00	0.9
2.00	0.00	0.5
1.50	0.00	0.5
1.00	0.00	0.5
0.75	0.00	0.5
0.60	0.00	0.7
0.50	0.00	0.6
0.40	0.00	0.5



Bedilgron 5199 72100

SAMPLE DIRECTOR/ANALYST: [unclear] / 755
SAMPLE ID: [unclear] # 2592
SUBMITTER: James [unclear]
OPERATOR: Keatinge
SAMPLE TYPE: clay
LIQUID TYPE: water
ANALYSIS TEMP: 20.00 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 15:07:24 11/14/89
REPT 15:42:12 10/24/91
TOT RUN TIME 0:17:30
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7202 cP

STARTING DIAMETER: 20.00 um
ENDING DIAMETER: 0.10 um

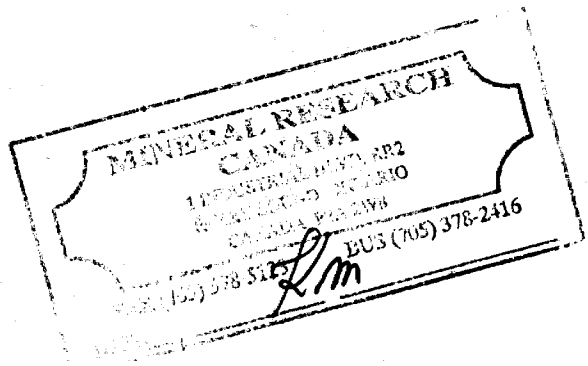
REYNOLDS NUMBER: 0.22
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.12 um

MODAL DIAMETER: 0.40 um

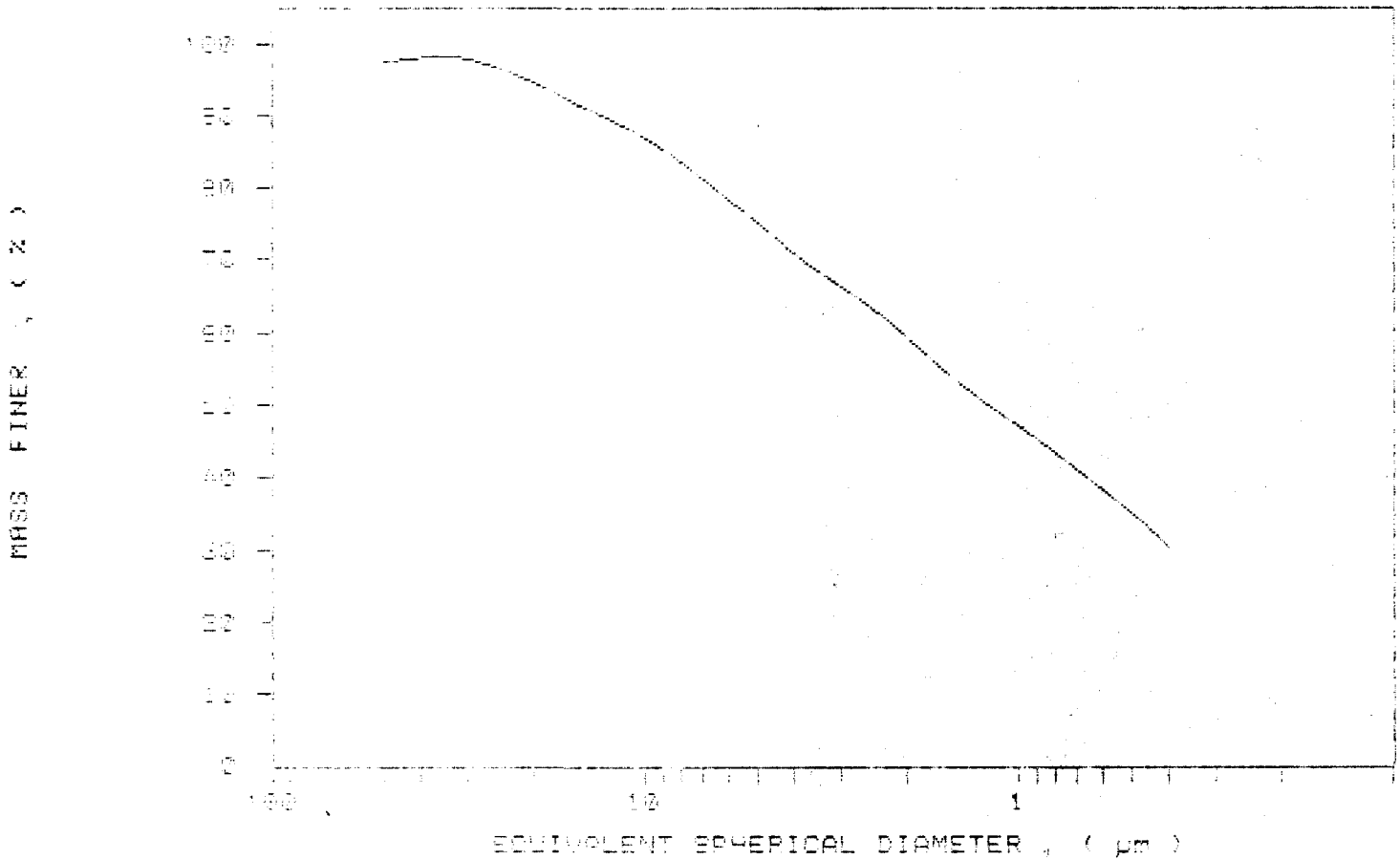
DIAMETER (um)	CUMULATIVE MASS (%)	MASS IN RANGE (%)
20.00	0.15	2.7
10.00	1.11	20.1
5.00	2.13	4.2
2.50	10.15	17.8
1.25	19.16	31.9
0.625	28.17	47.0
0.3125	38.18	61.1
0.15625	48.19	75.2
0.078125	58.20	89.3
0.0390625	68.21	97.4
0.01953125	78.22	100.0
0.009765625	88.23	100.0
0.0048828125	98.24	100.0
0.00244140625	100.0	100.0



SAMPLE DIRECTION NUMBER: SECOND 788
 SAMPLE ID: HOVE 0017 x 2002
 SUBMITTER: James Day Co.
 OPERATION: Reagent
 SAMPLE TYPE: Clay
 LIQUID: ml water
 ANALYSIS UNIT: G/L deg C Run TYPE: Standard

UNIT NUMBER: 1
 START 15:07:24 11/14/89
 REPT 10:42:12 10/24/91
 TOT RUN TIME 0:17:30
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7202 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTION NUMBER: SECOND 065
 SAMPLE ID: hole 0067 # 2008
 SUBMITTER: vander bay Co.
 OPERATOR: Naarina
 SAMPLE TYPE: clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 25.0 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 08:29:05 11/26/89
 REPT 13:52:12 10/24/91
 TOT RUN TIME 0:17:14
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9998 g/cc
 LIQ VISC: 0.7113 cp

STARTING DIAMETER: 10.00 um
 ENDING DIAMETER: 0.40 um

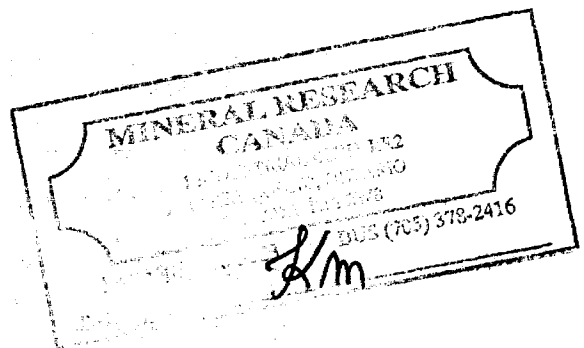
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

SIZE DISTRIBUTION

MEDIAN DIAMETER: 2.04 um

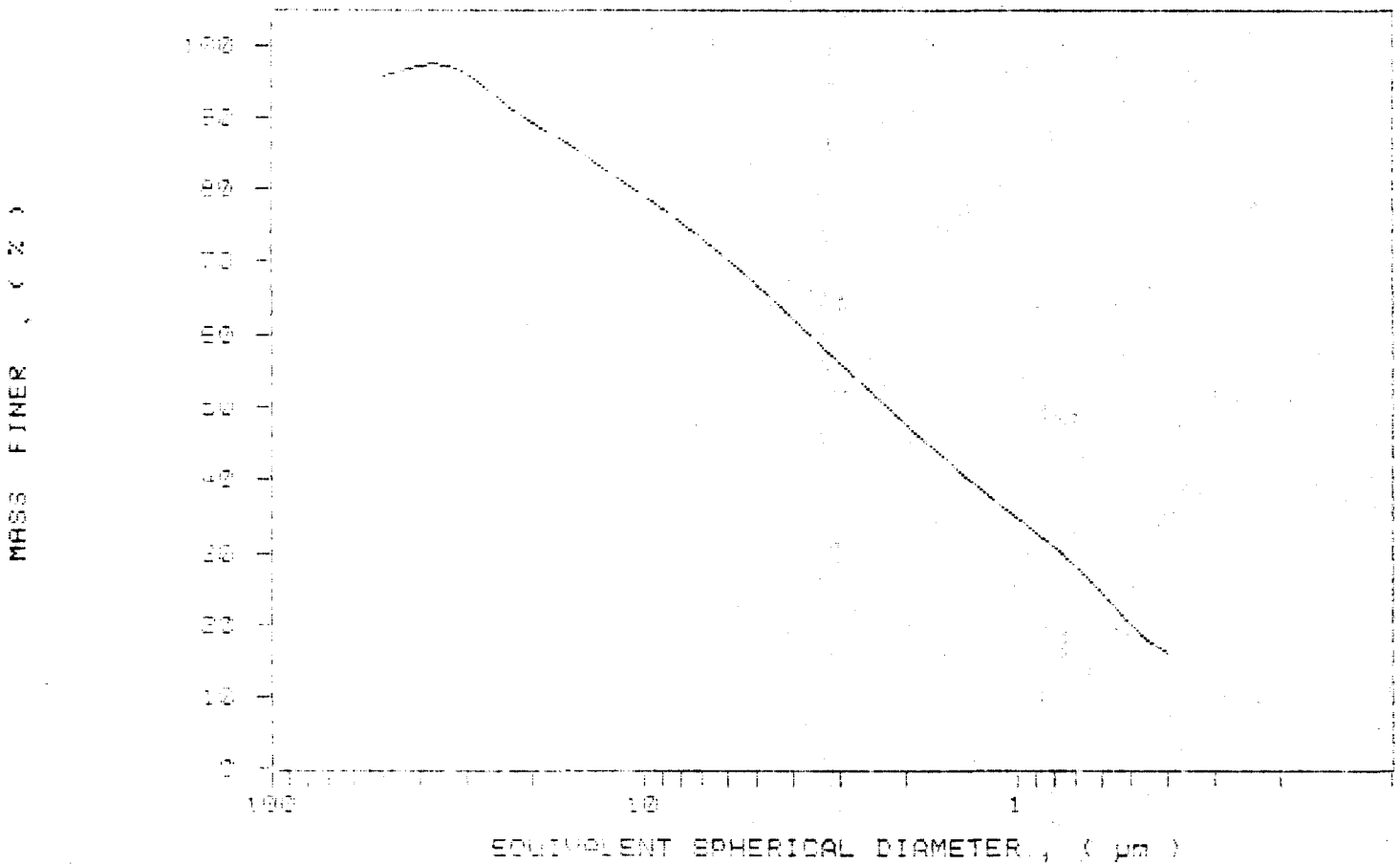
MODAL DIAMETER: 0.57 um

DIAMETER (um)	CUMULATIVE MASS PERCENT (%)	MASS IN INTERVAL (%)
50.00	99.7	0.3
40.00	99.1	0.6
30.00	98.0	1.1
20.00	94.0	4.0
15.00	89.0	5.0
10.00	74.0	15.0
8.00	60.4	13.6
6.00	41.4	19.0
5.00	30.0	11.4
4.00	22.1	7.9
3.00	11.1	11.0
2.00	2.1	19.0
1.50	0.1	2.0
1.00	0.0	0.1
0.80	0.0	0.0
0.60	0.0	0.0
0.50	0.0	0.0
0.40	0.0	0.0



SAMPLE DIRECTION/NUMBER: SECOND /55	UNIT NUMBER: 1
SAMPLE ID: HOLE 2007 # 2013	START 08:29:05 11/25/89
SUBMITTER: James Day Co.	REPT 13:52:18 10/24/91
OPERATOR: MERRILL	TOT RUN TIME 0117:14
SAMPLE TYPE: clay	SAN DENS: 2.6500 g/cc
LIQUID TYPE: water	LIO DENS: 0.9982 g/cc
ANALYSIS TEMP: 20.0 deg C	RUN TYPE: Standard
	LIO VISC: 0.7118 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DESIGNATION NUMBER: 3100D 706
 SAMPLE ID: NOV 29-87 # 2394
 SUBMITTER: JDR
 OPERATION: Kaafina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEST: 2018 deg C Run TYPE: Standard

UNIT NUMBER: 1
 START 08:59:50 11/28/89
 REPT 13:56:46 10/24/91
 TOT RUN TIME 0:17:18
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9988 g/cc
 LIQ VISC: 0.7111 cp

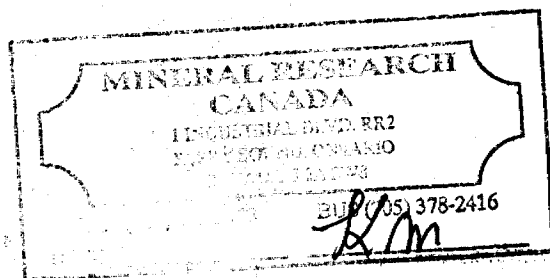
STARTING DIAMETER: 20.00 μ m
 ENDING DIAMETER: 0.140 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.44 μ m MODAL DIAMETER: 1.35 μ m

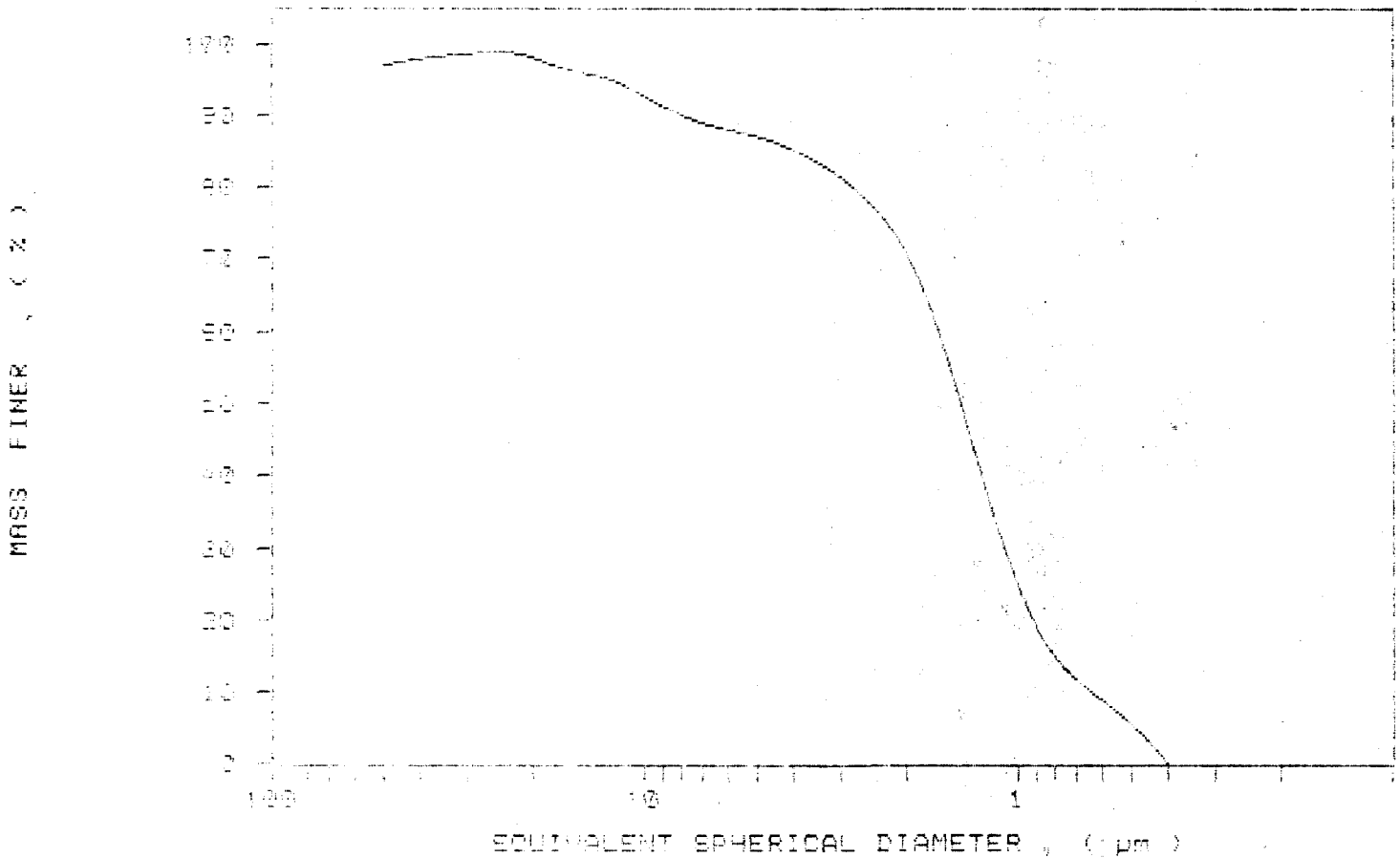
DIAMETER (μ m)	CUMULATIVE PERCENT (%)	MASS IN INTERVAL (%)
20.00	10.0	0.1
16.00	27.5	16.9
12.50	42.5	15.1
10.00	50.0	7.5
8.00	50.0	0.0
6.30	50.0	0.1
5.00	50.0	0.1
4.00	50.0	0.1
3.15	50.0	0.1
2.50	50.0	0.1
2.00	50.0	0.1
1.60	50.0	0.1
1.25	50.0	0.1
1.00	50.0	0.1
0.80	50.0	0.1
0.63	50.0	0.1
0.50	50.0	0.1
0.40	50.0	0.1



SAMPLE DIAL/CRY/NUMBER: 50000 166
 SAMPLE ID: Hole 20 07 # 2204
 SUBMITTER: GSK
 OPERATION: Kaafira
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 50.0 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 09:59:50 11/28/89
 REPT 19:56:46 10/24/91
 TOT RUN TIME 0:17:18
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9998 g/cc
 LIQ VISC: 0.7111 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DESC: FURNACE DRYED, 10/24/91
 SAMPLE ID: 10100000000000000000
 SUBMITTER: CANADA DEPT. OF
 OPERATOR: KENNETH
 SAMPLE TYPE: Clay
 LIQUID TEST: Water
 ANALYSIS TEMP: 20.0 deg C AGR TYPE: standard

UNIT NUMBER: 1
 START 08:02:09 11/15/89
 REPT 14:01:12 10/24/91
 TOT RUN TIME 0:17:29
 SAM DENS: 2.6500 g/cc
 LIG DENS: 0.9941 g/cc
 LIG VISC: 0.7206 cp

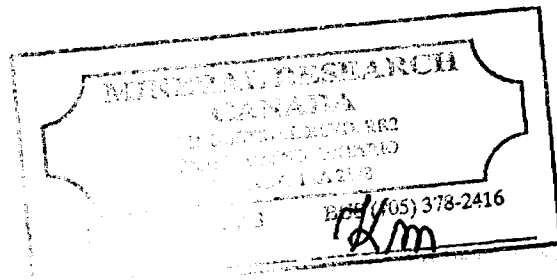
STARTING DIAMETER: 10.00 um
 ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 0.122
 FULL SCALE MASS %: 100

SIZE DISTRIBUTION

MEDIAN DIAMETER: 1.70 um MODAL DIAMETER: 3.25 um

Diameter (um)	Cumulative Mass (%)	Mass in Interval (%)
50.00	100.0	0.0
40.00	100.0	0.0
30.00	100.0	0.0
20.00	100.0	0.0
15.00	100.0	0.0
10.00	100.0	0.0
7.50	100.0	0.0
5.00	100.0	0.0
3.75	100.0	0.0
2.50	100.0	0.0
1.75	100.0	0.0
1.25	100.0	0.0
0.75	100.0	0.0
0.50	100.0	0.0
0.40	100.0	0.0



SAMPLE DIRECTOR: MONSIEUR SECURD / 02
 SAMPLE ID: MOLE 0027 + 2306
 SUBMITTER: JAMES WAY LTD.
 OPERATOR: KAERINA
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 21.1 deg C SON TYPE: Standard

UNIT NUMBER: 1
 START 09:02:24 11/15/89
 REPT: 14:05:38 10/24/91
 TOT RUN TIME 0:17:33
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9991 g/cc
 LIQ VISC: 0.7205 cp

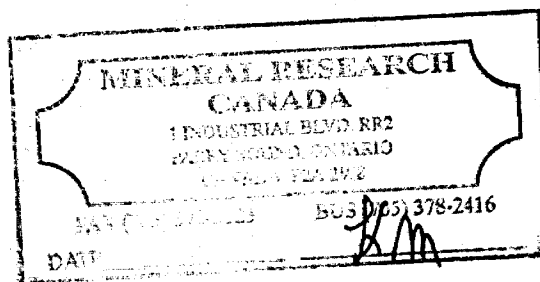
STARTING DIAMETER: 10.00 um
 ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

GRAB DISTRIBUTION

MEDIAN DIAMETER: 1.13 um MODAL DIAMETER: 0.40 um

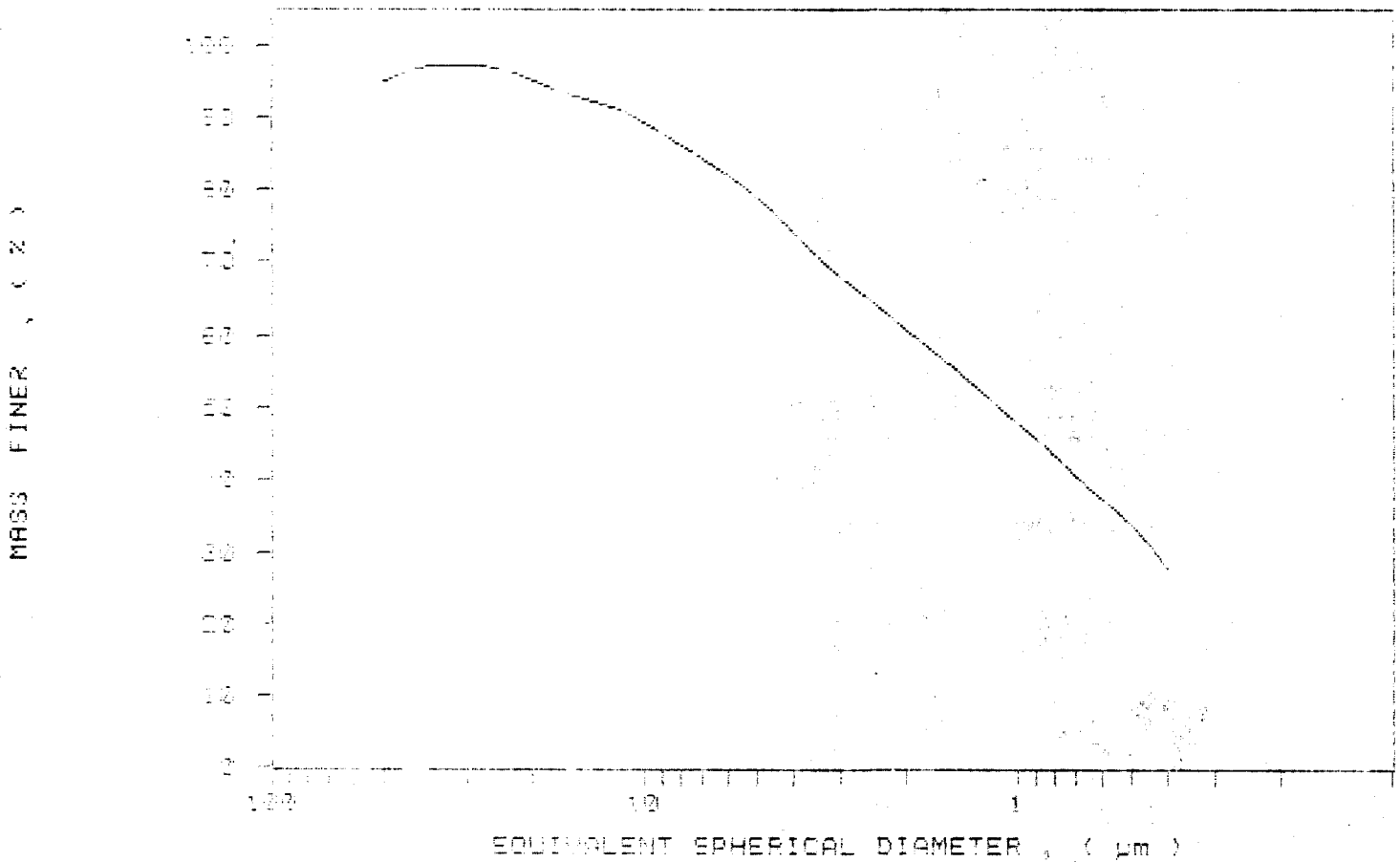
DIAMETER (um)	Cumulative mass %	mass IN INTERVAL %
50.00	94.6	5.2
40.00	96.7	7.1
30.00	97.1	0.4
25.00	97.5	0.4
20.00	97.9	0.4
15.00	98.3	0.4
10.00	98.2	0.1
8.00	98.1	0.0
6.00	97.6	0.5
5.00	97.5	0.1
4.00	97.0	0.5
3.00	96.0	1.0
2.00	95.7	0.3
1.50	95.2	0.5
1.00	94.7	0.5
0.75	94.3	0.4
0.50	93.2	1.1
0.40	92.0	1.2



SAMPLE DIVISION/PROJECT: SEDOND 768
 SAMPLE ID: HALE SAND? @ 200
 SUBMITTER: James Ray, Jr.
 OPERATOR: saarons
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS UNIT: 20.0 cc @ 1.000 g/cc
 RUN TYPE: Standard

UNIT NUMBER: 1
 START 09:02:24 11/15/89
 REPT 14:05:38 10/24/91
 TOT RUN TIME 0:17:38
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7205 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

SediGraph 5100 V2.00

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA1 /380
 SAMPLE ID: Hole 89-87 # 2807
 SUBMITTER: Jamea Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 09:30:40 11/06/89
 REPR 09:47:57 11/06/89
 TOT RUN TIME 0:16:56
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7205 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

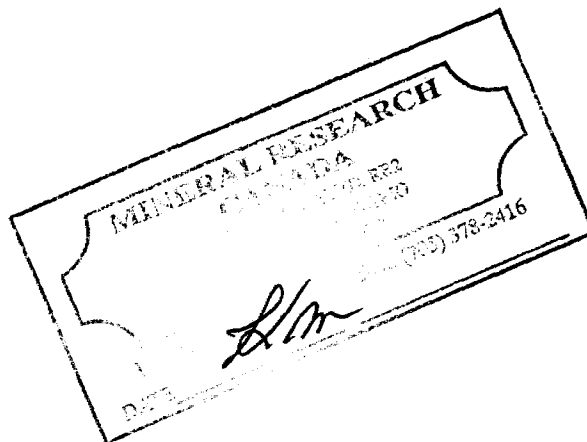
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.71 μ m

MODAL DIAMETER: 0.40 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.0	2.0
40.00	98.4	-0.4
30.00	96.5	1.9
25.00	94.3	2.2
20.00	91.9	2.4
15.00	88.8	3.2
10.00	83.7	5.1
8.00	80.2	3.6
6.00	74.0	6.2
5.00	70.1	3.9
4.00	66.0	4.1
3.00	60.3	5.7
2.00	52.2	8.1
1.50	48.2	3.9
1.00	41.9	6.3
0.80	38.7	3.2
0.60	38.3	5.4
0.50	29.7	8.6
0.40	24.8	4.9



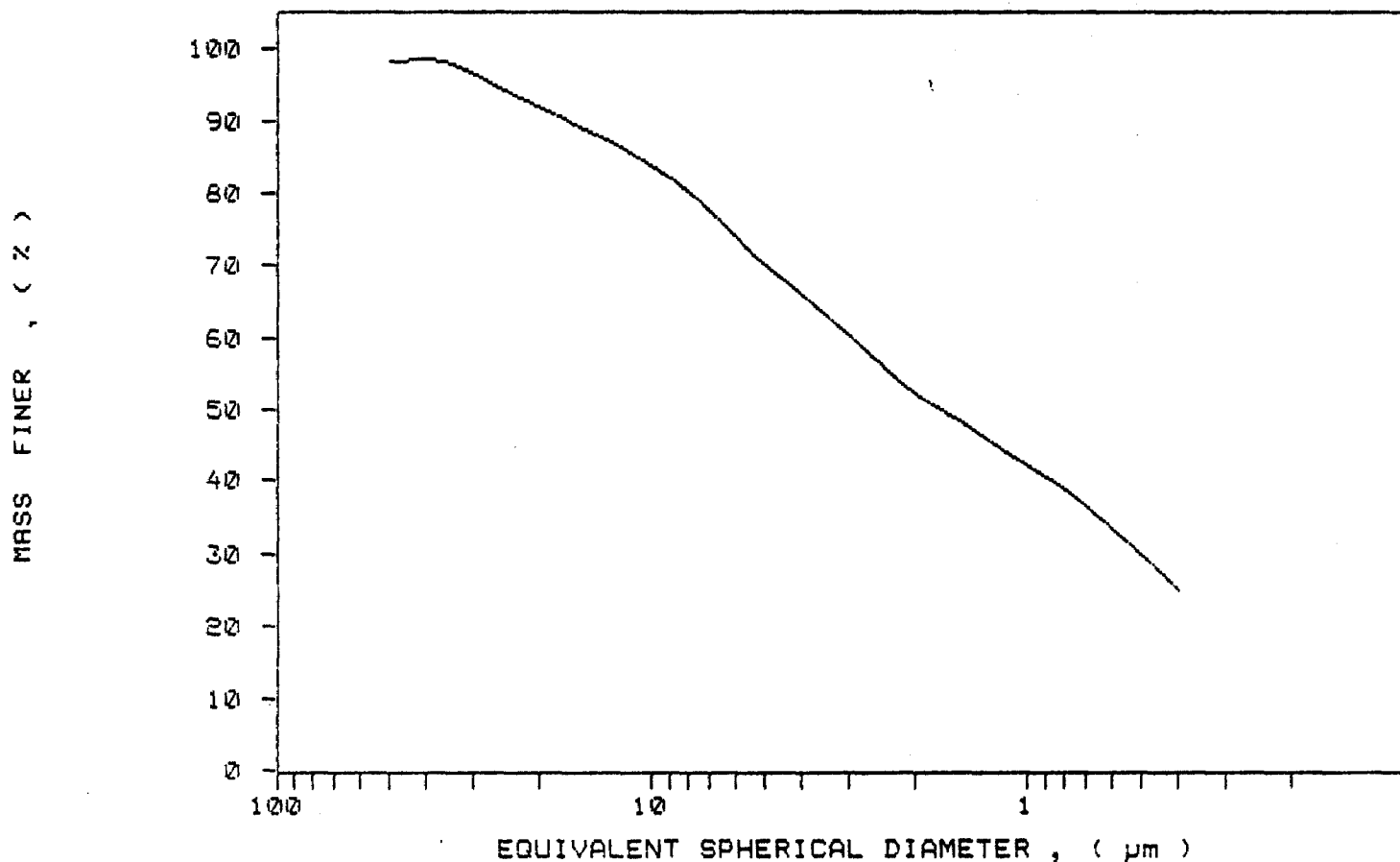
SediGraph 5100 V2.00

Kaolin

PAGE 2

SAMPLE DIRECTORY/NUMBER: DATA1 /380	UNIT NUMBER: 1
SAMPLE ID: Hole 89-87 # 2807	START 09:30:40 11/06/89
SUBMITTER: Jamea Bay Co.	REPRT 09:47:57 11/06/89
OPERATOR: Kaarina	TOT RUN TIME 0:16:56
SAMPLE TYPE: Clay	SAM DENS: 2.6500 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9941 g/cc
ANALYSIS TEMP: 35.1 deg C	LIQ VISC: 0.7205 cp
RUN TYPE: Standard	

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

SediGraph 5100 V2.00

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA1 /381
 SAMPLE ID: Hole 89-87 # 2808
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:00:47 11/06/89
 REPT 10:18:09 11/06/89
 TOT RUN TIME 0:16:57
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7205 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.39 μ m

MODAL DIAMETER: 0.40 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	96.4	3.6
40.00	97.2	-0.8
30.00	94.7	2.4
25.00	93.2	1.5
20.00	91.6	1.6
15.00	87.5	4.1
10.00	79.7	7.8
8.00	75.2	4.5
6.00	70.0	5.2
5.00	66.1	3.8
4.00	61.1	5.0
3.00	55.2	6.0
2.00	46.2	9.0
1.50	41.7	4.5
1.00	34.0	7.7
0.80	30.9	3.1
0.60	26.6	4.3
0.50	23.3	3.3
0.40	18.2	5.1



Kaolin

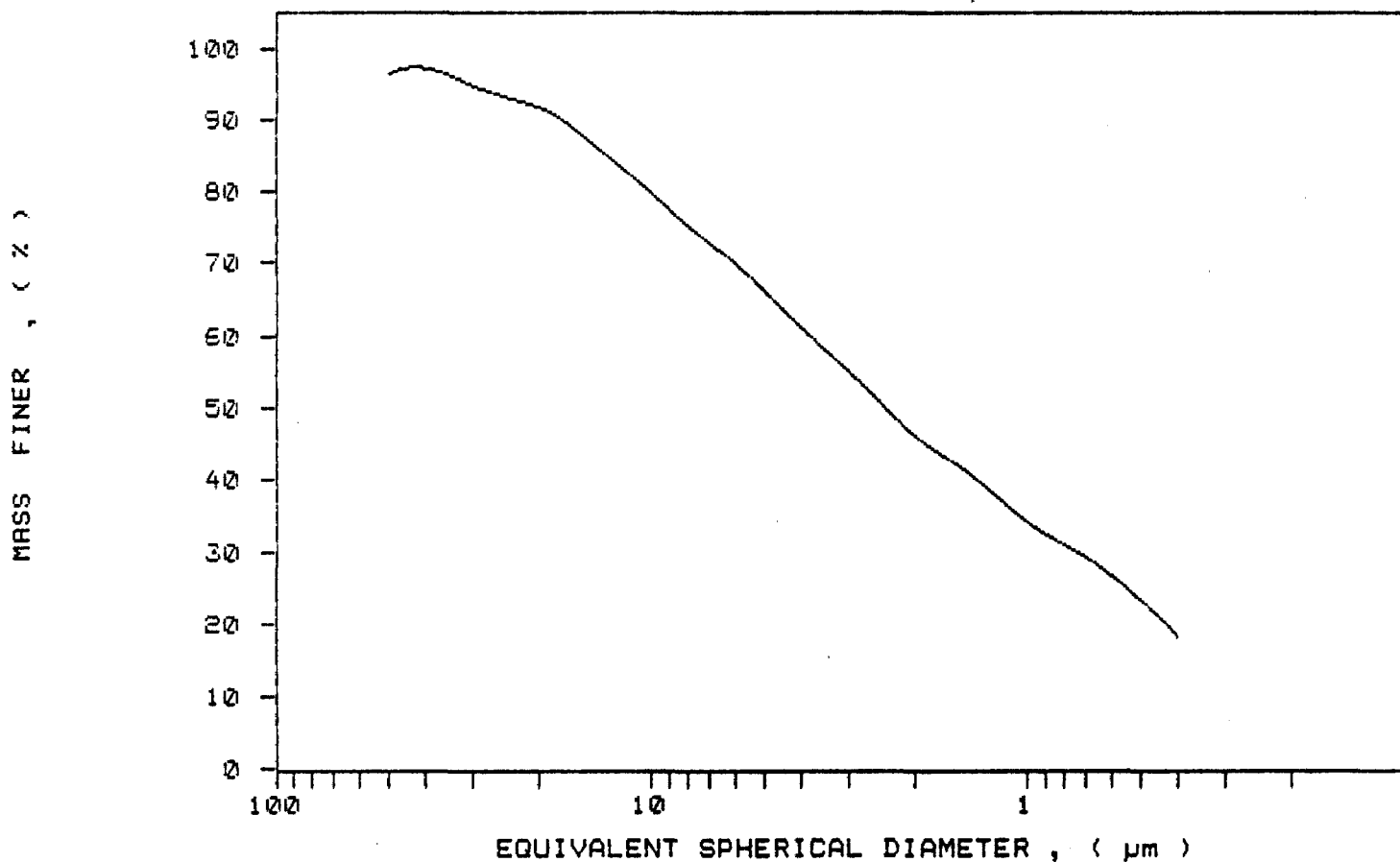
SediGraph 5100 V2.00

PAGE 2

SAMPLE DIRECTORY/NUMBER: DATA1 /381
SAMPLE ID: Hole 89-87 # 2808
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 10:00:47 11/06/89
REPT 10:18:09 11/06/89
TOT RUN TIME 0:16:57
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9941 g/cc
LIQ VISC: 0.7205 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

SediGraph 5100 V2.00

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA1 /382
 SAMPLE ID: Hole 89-87 # 2809
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:33:28 11/06/89
 REPT 10:50:50 11/06/89
 TOT RUN TIME 0:16:58
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7204 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

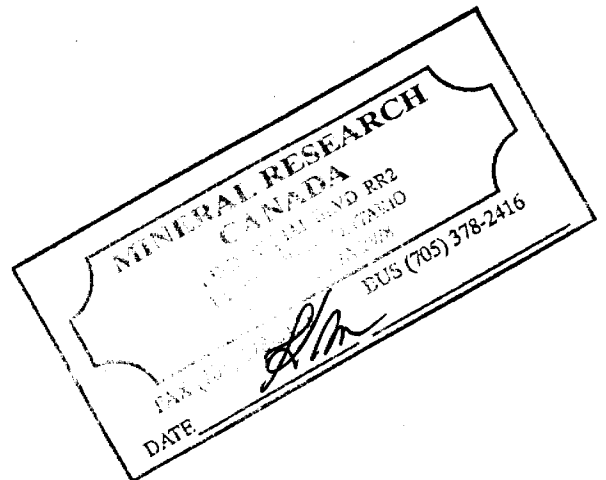
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 0.90 μ m

MODAL DIAMETER: 0.45 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	100.3	-0.3
40.00	99.7	0.6
30.00	97.5	2.2
25.00	95.5	2.1
20.00	92.7	2.8
15.00	88.7	3.9
10.00	84.5	4.3
8.00	82.4	2.0
6.00	79.9	2.6
5.00	77.5	2.4
4.00	74.0	3.6
3.00	68.8	5.1
2.00	61.8	7.1
1.50	57.8	4.0
1.00	51.3	6.5
0.80	48.6	2.7
0.60	43.2	5.3
0.50	38.5	4.7
0.40	32.2	6.3



Kaolin

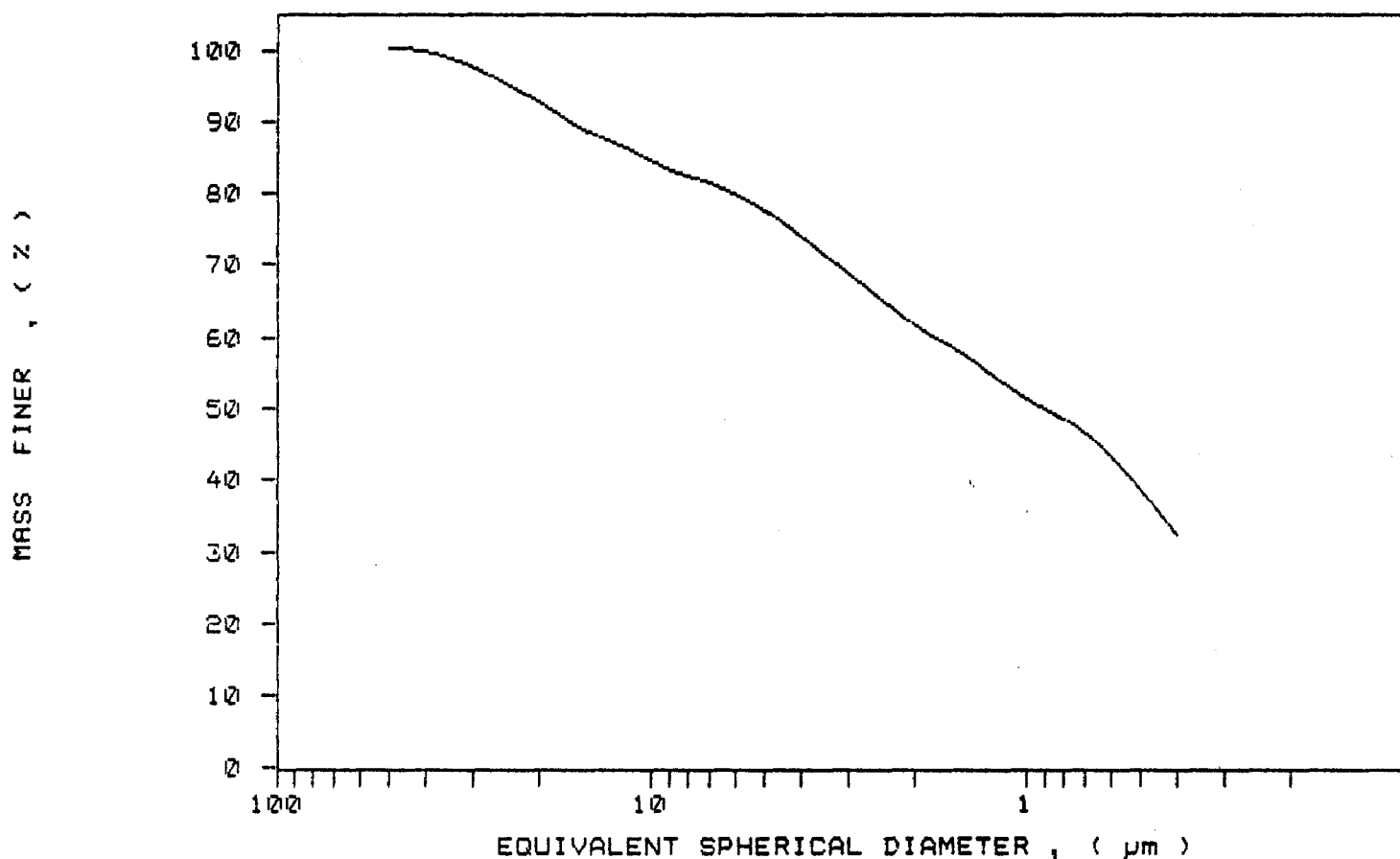
SediGraph 5100 V2.00

PAGE 2

SAMPLE DIRECTORY/NUMBER: DATA1 /382
SAMPLE ID: Hole 89-87 # 2809
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 10:33:28 11/06/89
REPRT 10:50:50 11/06/89
TOT RUN TIME 0:16:58
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9941 g/cc
LIQ VISC: 0.7204 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

SediGraph 5100 V2.00

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA1 /383
 SAMPLE ID: Hole 89-87 # 2810
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 11:03:53 11/06/89
 REPT 11:21:11 11/06/89
 TOT RUN TIME 0:16:55
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7204 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.63 μ m MODAL DIAMETER: 3.94 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.9	1.1
40.00	97.9	1.1
30.00	96.6	1.2
25.00	95.7	0.9
20.00	93.3	2.4
15.00	88.9	4.5
10.00	83.4	5.5
8.00	80.5	2.9
6.00	75.9	4.6
5.00	73.1	2.9
4.00	68.4	4.6
3.00	62.1	6.3
2.00	53.4	8.6
1.50	48.6	4.9
1.00	40.7	7.8
0.80	37.1	3.7
0.60	31.4	5.7
0.50	28.1	3.3
0.40	23.7	4.3



Kaolin

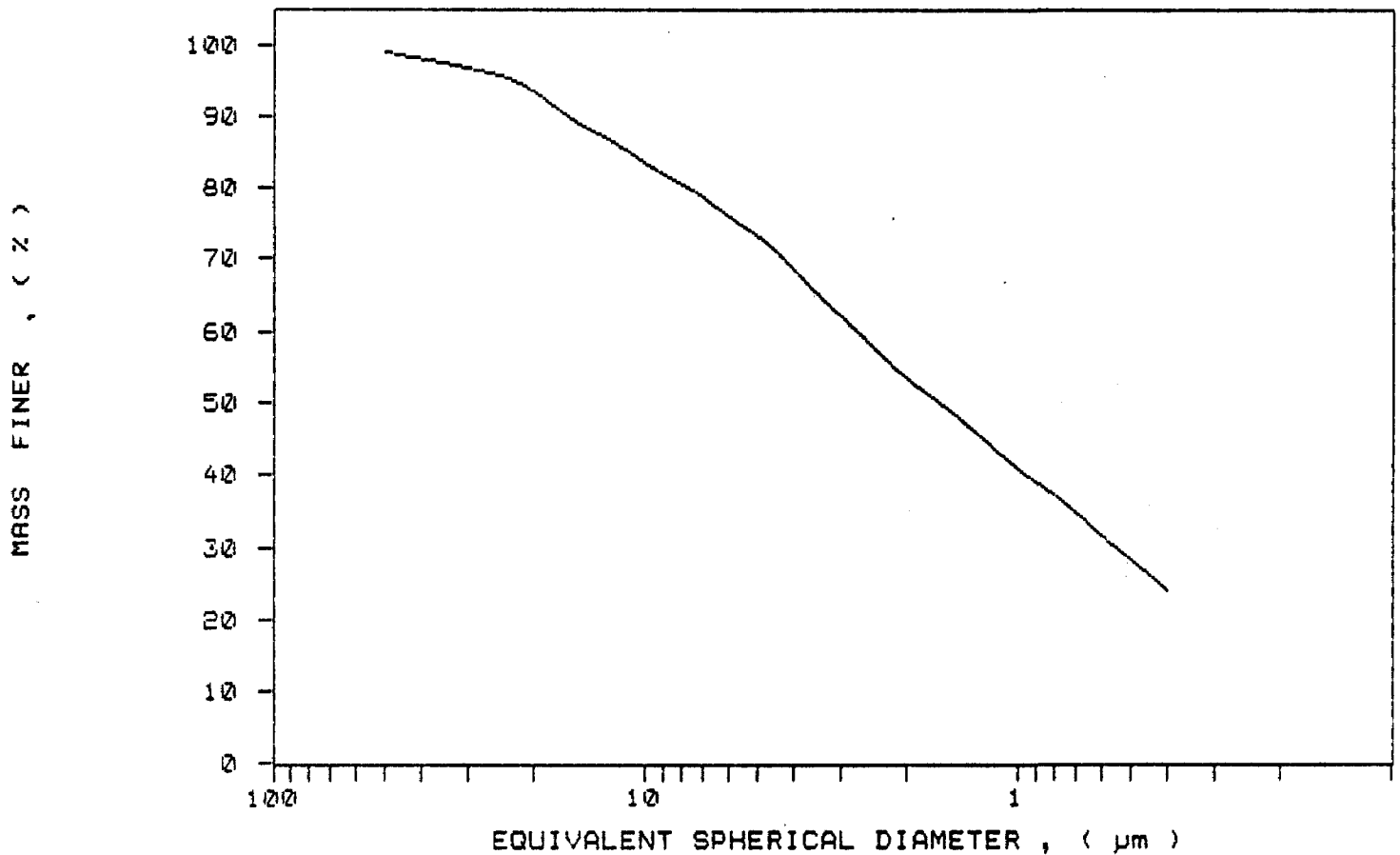
SediGraph 5100 V2.00

PAGE 2

SAMPLE DIRECTORY/NUMBER: DATA1 /383
SAMPLE ID: Hole 89-87 # 2810
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 11:03:53 11/06/89
REPRT 11:21:11 11/06/89
TOT RUN TIME 0:16:55
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9941 g/cc
LIQ VISC: 0.7204 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SediGraph 5100 V2.00

Kaolin

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA1 /384
 SAMPLE ID: Hole 89-87 # 2811
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 11:34:24 11/06/89
 REPT 11:51:49 11/06/89
 TOT RUN TIME 0:17:01
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7204 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 3.40 μ m

MODAL DIAMETER: 3.94 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	100.8	-0.8
40.00	99.0	1.8
30.00	95.7	3.4
25.00	92.4	3.2
20.00	87.5	5.0
15.00	81.3	6.1
10.00	73.8	7.5
8.00	68.9	4.9
6.00	62.8	6.1
5.00	59.2	3.6
4.00	54.0	5.2
3.00	47.2	6.8
2.00	38.0	9.2
1.50	32.5	5.4
1.00	25.6	7.0
0.80	21.3	4.3
0.60	17.1	4.1
0.50	14.4	2.7
0.40	11.7	2.8



Kaolin

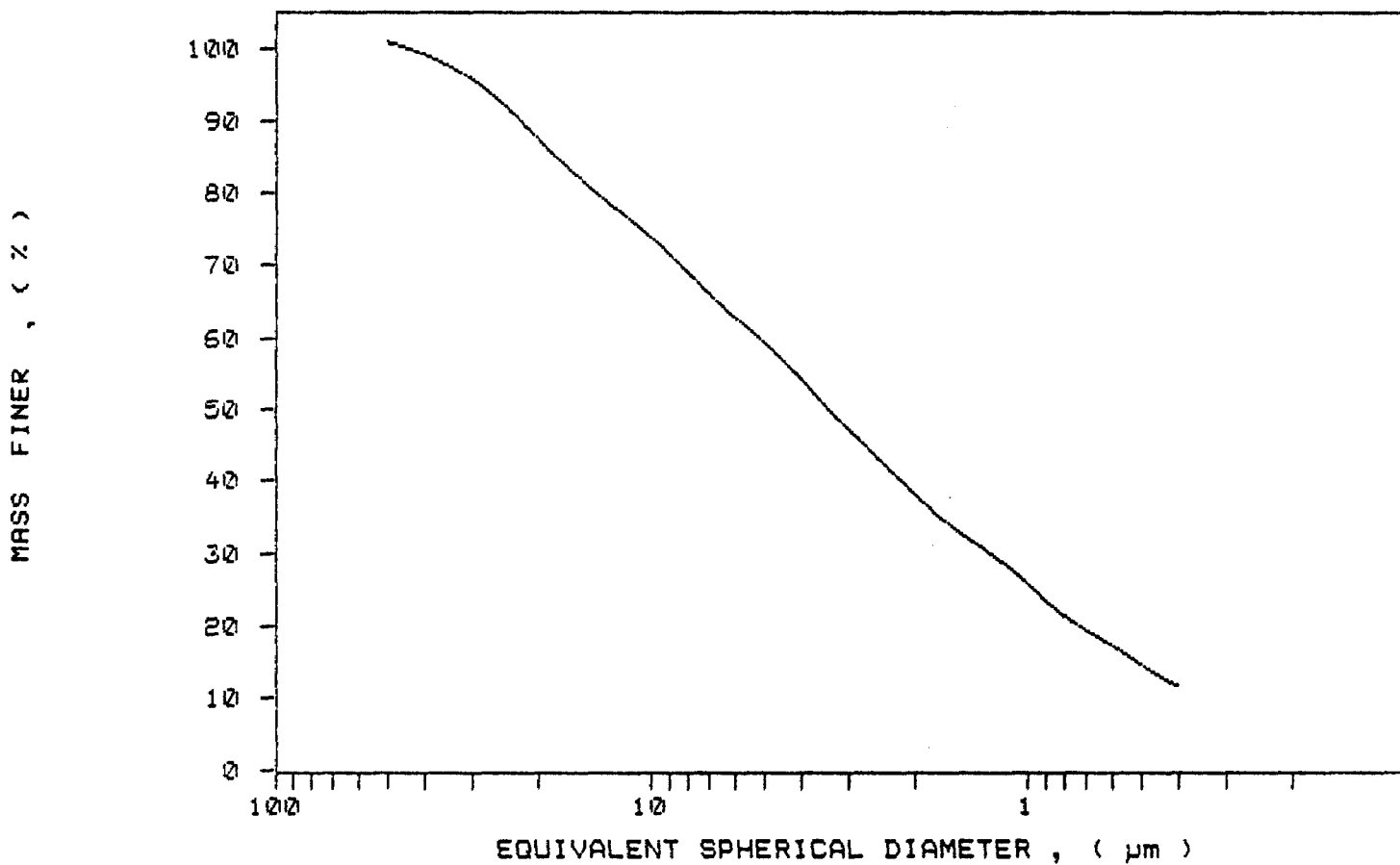
SediGraph 5100 V2.00

PAGE 2

SAMPLE DIRECTORY/NUMBER: DATA1 /384
SAMPLE ID: Hole 89-87 # 2811
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 11:34:24 11/06/89
REPRT 11:51:49 11/06/89
TOT RUN TIME 0:17:01
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9941 g/cc
LIQ VISC: 0.7204 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SediGraph 5100 V2.00

Kaolin

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA1 /385
SAMPLE ID: Hole 89-87 # 2812
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 12:04:20 11/06/89
REPRT 12:22:18 11/06/89
TOT RUN TIME 0:17:34
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9941 g/cc
LIQ VISC: 0.7204 cp

STARTING DIAMETER: 50.00 μ m
ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.52 μ m

MODAL DIAMETER: 0.40 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.4	0.6
40.00	98.5	0.9
30.00	94.7	3.8
25.00	92.1	2.7
20.00	88.7	3.4
15.00	83.4	5.3
10.00	76.9	6.5
8.00	73.5	3.4
6.00	68.2	5.3
5.00	64.5	3.7
4.00	60.4	4.2
3.00	53.7	6.7
2.00	45.6	8.1
1.50	40.7	4.9
1.00	32.4	8.3
0.80	27.6	4.8
0.60	22.8	5.8
0.50	19.5	2.8
0.40	14.7	4.8



Kaolin

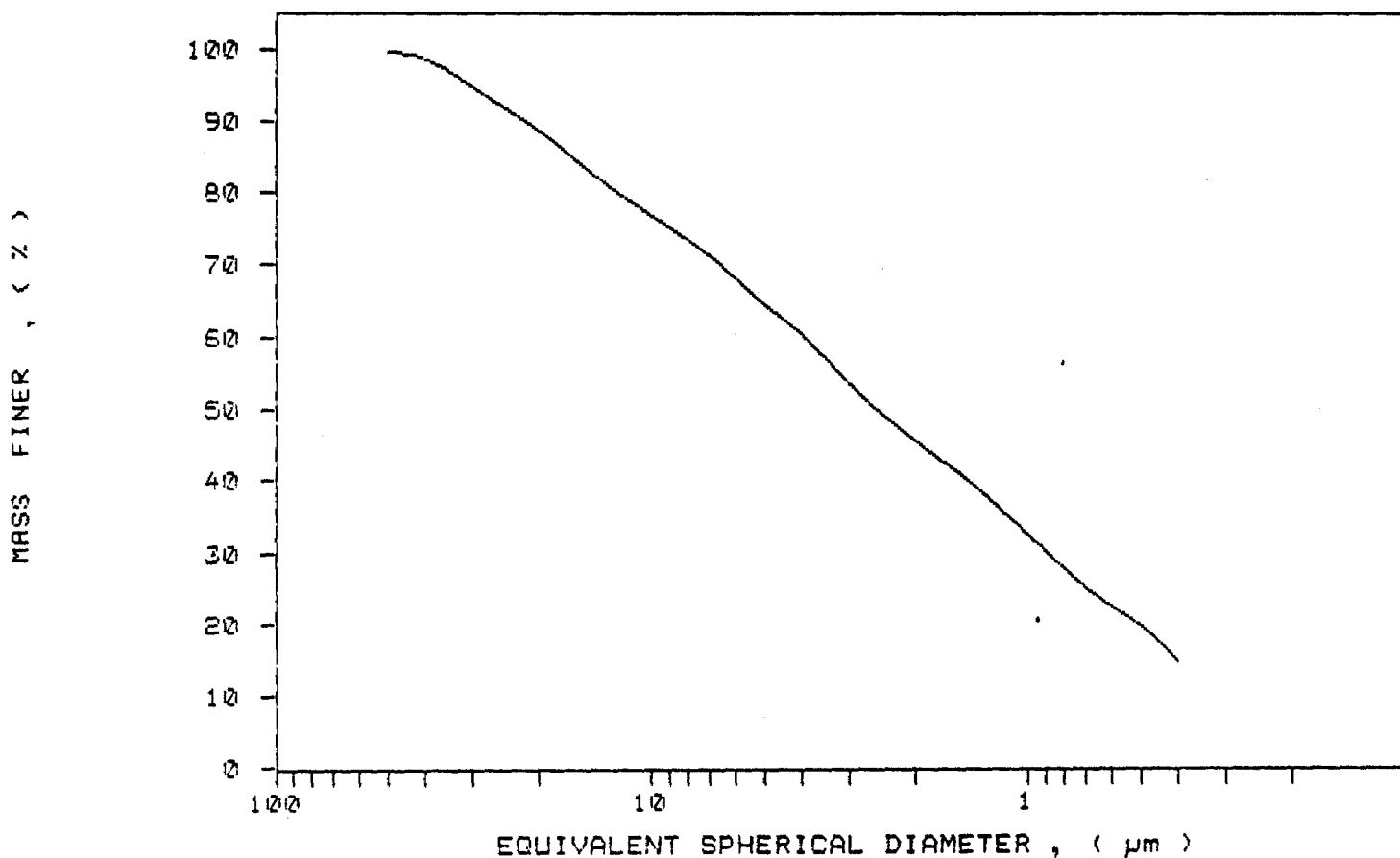
SediGraph 5100 V2.00

PAGE 2

SAMPLE DIRECTORY/NUMBER: DATA1 /385
SAMPLE ID: Hole 89-87 # 2812
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 12:04:20 11/06/89
REPRT 12:22:18 11/06/89
TOT RUN TIME 0:17:34
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9941 g/cc
LIQ VISC: 0.7204 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA1 /386
 SAMPLE ID: Hole 89-87 # 2813
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 13:03:53 11/06/89
 REPT 13:21:12 11/06/89
 TOT RUN TIME 0:16:55
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7204 cp

STARTING DIAMETER: .50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.57 μ m

MODAL DIAMETER: 2.94 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	100.6	-0.6
40.00	99.1	1.5
30.00	96.2	2.9
25.00	93.7	2.5
20.00	90.3	3.4
15.00	85.4	4.9
10.00	78.8	6.7
8.00	74.3	4.5
6.00	68.0	6.3
5.00	64.0	3.9
4.00	59.7	4.4
3.00	53.6	6.1
2.00	45.3	8.2
1.50	40.8	4.5
1.00	33.7	7.2
0.80	30.1	3.6
0.60	26.2	3.9
0.50	22.9	3.3
0.40	18.9	4.0



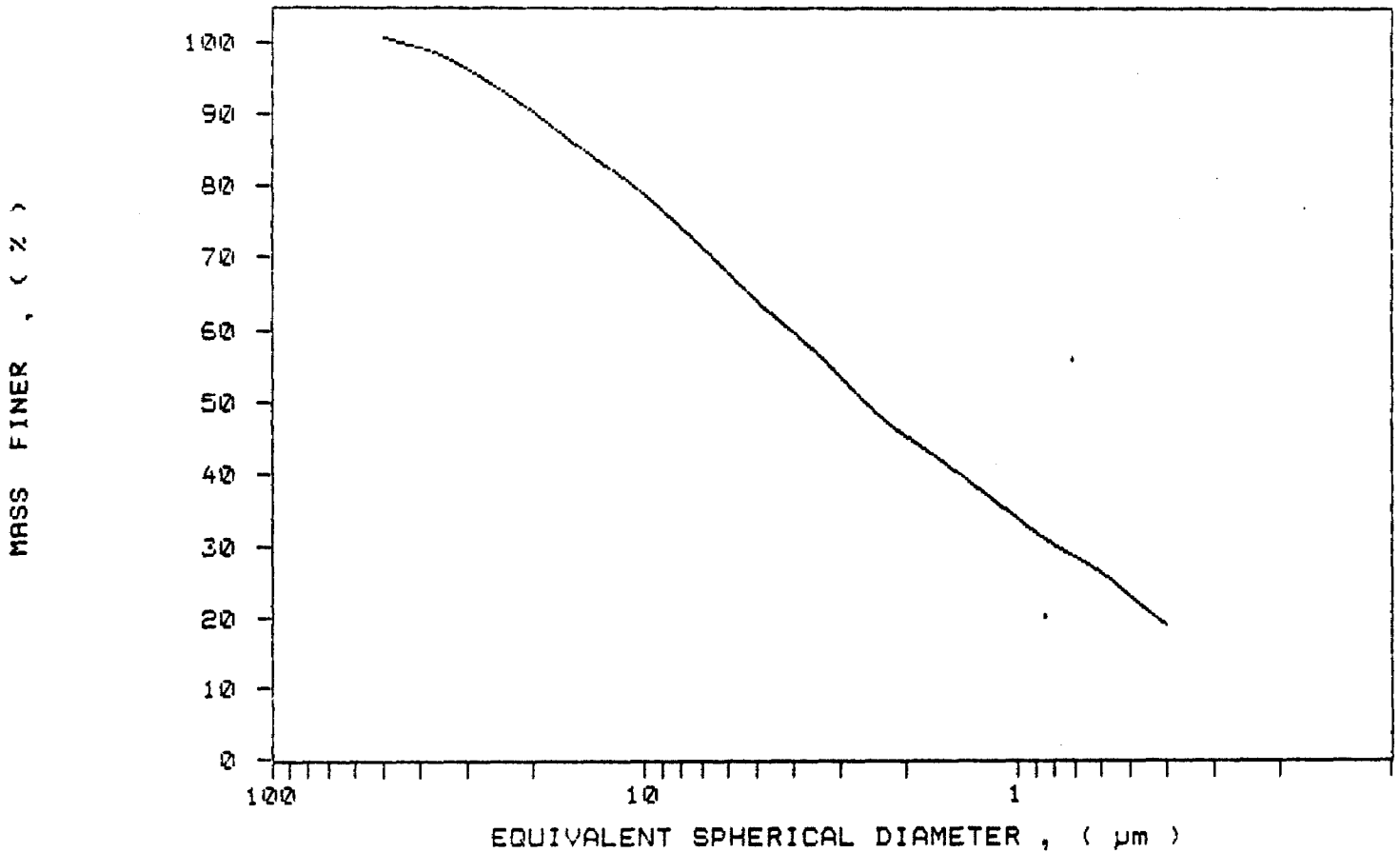
Kaolin

SediGraph 5100 V2.00

PAGE 2

SAMPLE DIRECTORY/NUMBER: DATA1 /386	UNIT NUMBER: 1
SAMPLE ID: Hole 89-87 # 2813	START 13:09:53 11/06/89
SUBMITTER: James Bay Co.	REPRT 13:21:12 11/06/89
OPERATOR: Kaarina	TOT RUN TIME 0:16:55
SAMPLE TYPE: Clay	SAM DENS: 2.6500 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9941 g/cc
ANALYSIS TEMP: 35.1 deg C	LIQ VISC: 0.7204 cp
RUN TYPE: Standard	

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

SediGraph 5100 V2.00

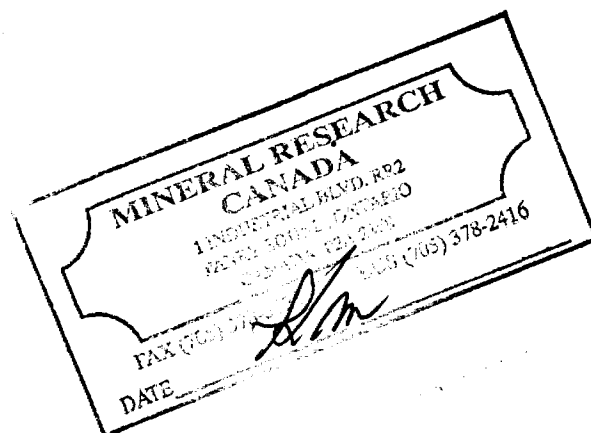
PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA1 /387	UNIT NUMBER: 1
SAMPLE ID: Hole 89-87 # 2814	START 13:35:31 11/06/89
SUBMITTER: James Bay Co.	REPT 13:52:52 11/06/89
OPERATOR: Kaarina	TOT RUN TIME 0:16:56
SAMPLE TYPE: Clay	SAM DENS: 2.6500 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9940 g/cc
ANALYSIS TEMP: 35.1 deg C	LIQ VISC: 0.7204 cp
RUN TYPE: Standard	
STARTING DIAMETER: 50.00 μ m	REYNOLDS NUMBER: 0.22
ENDING DIAMETER: 0.40 μ m	FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.40 μ m MODAL DIAMETER: 0.52 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	96.6	3.4
40.00	97.9	-1.3
30.00	97.6	0.2
25.00	96.4	1.2
20.00	94.8	1.6
15.00	91.6	3.2
10.00	86.0	5.6
8.00	82.3	3.7
6.00	77.1	5.2
5.00	73.5	3.6
4.00	68.7	4.8
3.00	63.1	5.6
2.00	55.6	7.4
1.50	51.1	4.5
1.00	44.5	6.6
0.80	41.0	3.5
0.60	35.4	5.6
0.50	31.2	4.1
0.40	26.4	4.8



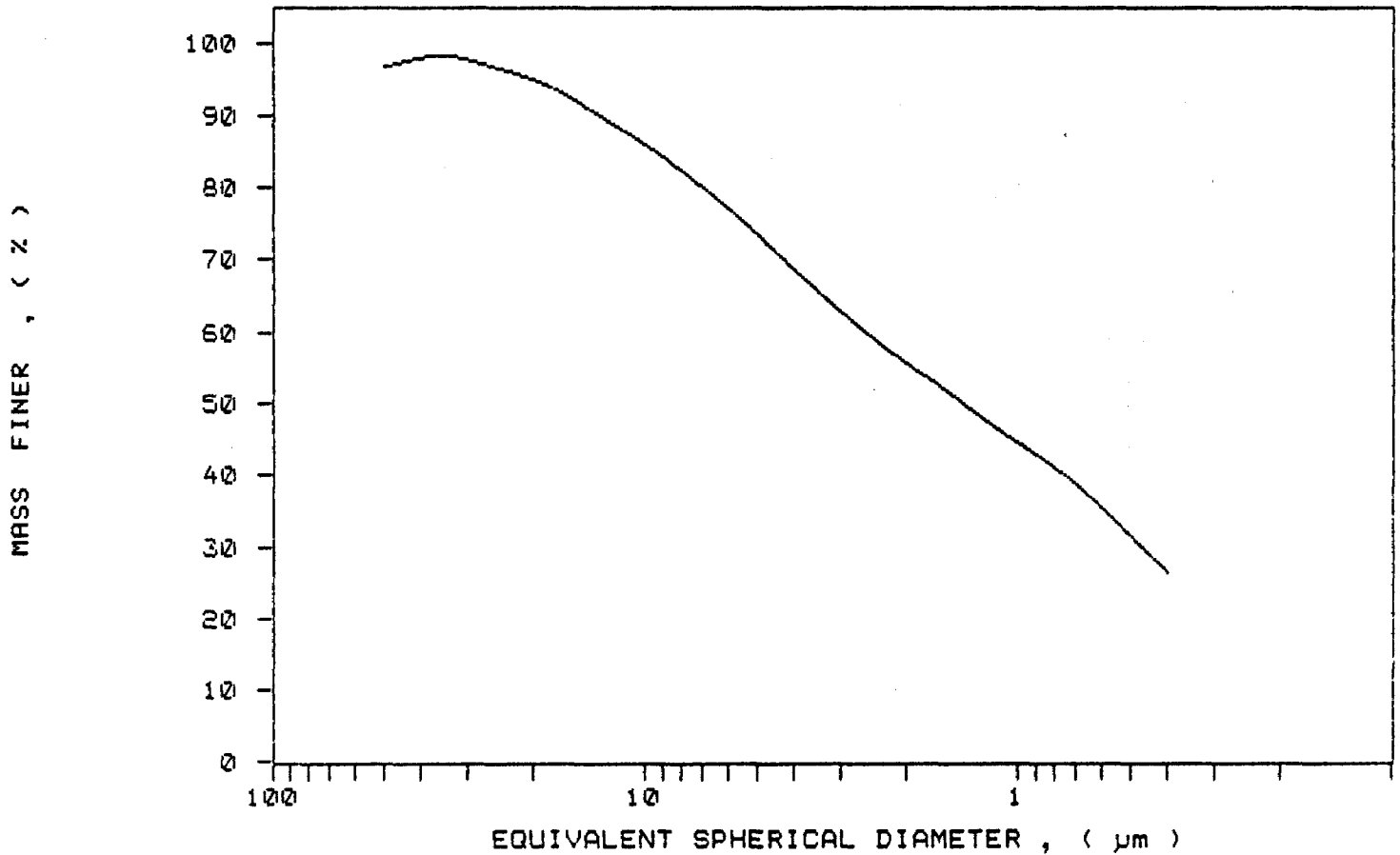
Kaolin

SediGraph 5100 V2.00

PAGE 2

SAMPLE DIRECTORY/NUMBER: DATA1 /387	UNIT NUMBER: 1
SAMPLE ID: Hole 89-87 # 2814	START 13:35:31 11/06/89
SUBMITTER: James Bay Co.	REPRT 13:52:52 11/06/89
OPERATOR: Kaarina	TOT RUN TIME 0:16:56
SAMPLE TYPE: Clay	SAM DENS: 2.6500 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9940 g/cc
ANALYSIS TEMP: 35.1 deg C	RUN TYPE: Standard
	LIQ VISC: 0.7204 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

SediGraph 5100 V2.00

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA1 /388
 SAMPLE ID: Hole 89-87 # 2815
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 14:05:47 11/06/89
 REPR 14:23:06 11/06/89
 TOT RUN TIME 0:16:55
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7203 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.32 μ m

MODAL DIAMETER: 20.04 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	97.8	2.2
40.00	97.7	0.1
30.00	95.6	2.1
25.00	93.1	2.5
20.00	88.8	4.3
15.00	83.4	5.4
10.00	76.9	6.4
8.00	73.0	3.9
6.00	67.6	5.4
5.00	64.3	3.3
4.00	60.7	3.6
3.00	55.1	5.6
2.00	47.4	7.6
1.50	43.7	3.7
1.00	37.2	6.4
0.80	34.1	3.2
0.60	29.2	4.9
0.50	25.6	3.6
0.40	22.6	3.0



Kaolin

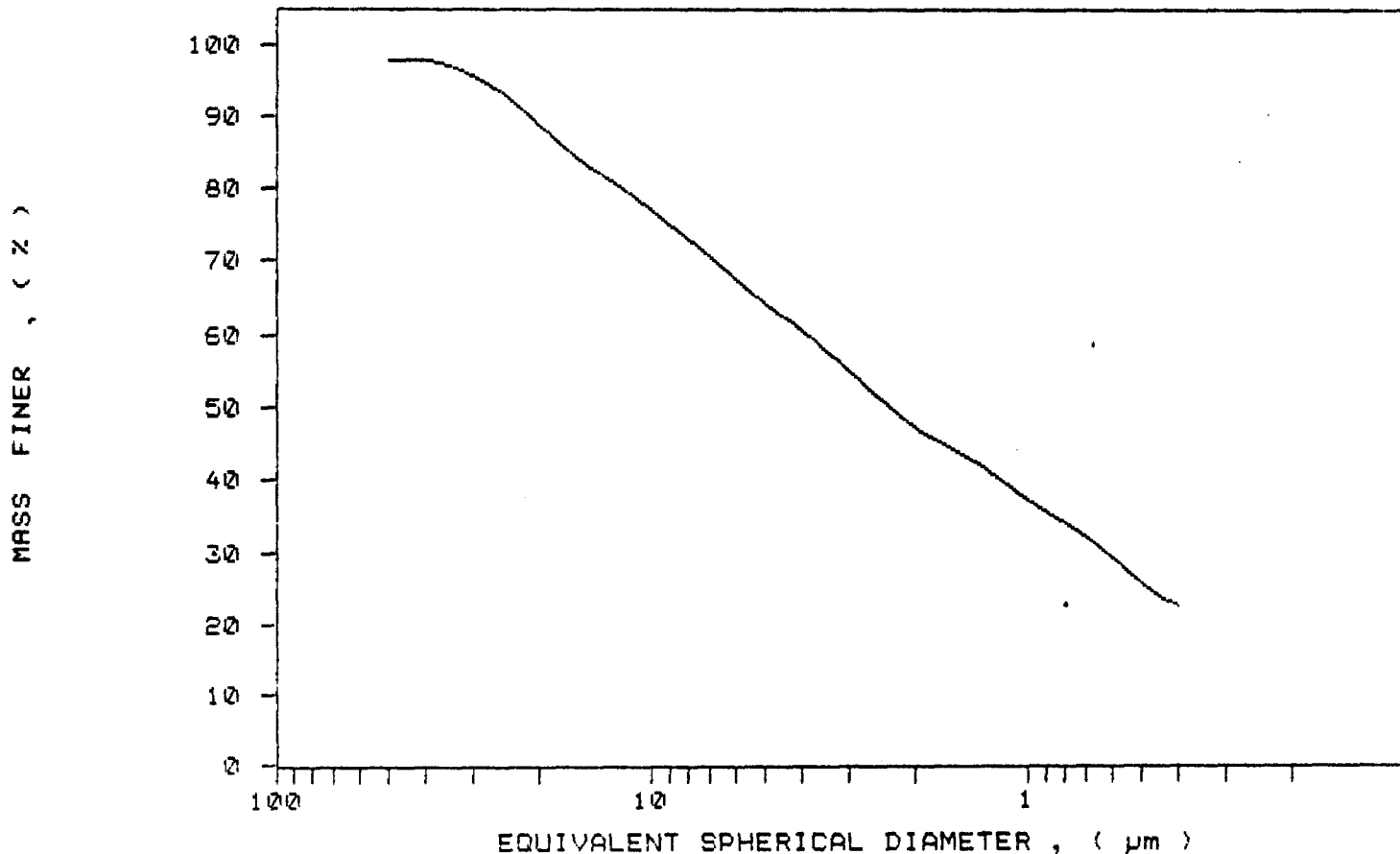
SediGraph 5100 V2.00

PAGE 2

SAMPLE DIRECTORY/NUMBER: DATA1 /388
SAMPLE ID: Hole 89-87 # 2815
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 14:05:47 11/06/89
REPT 14:23:06 11/06/89
TOT RUN TIME 0:16:55
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7203 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

SediGraph 5100 Y2.00

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATA1 /389
 SAMPLE ID: Hole 89-87 # 2816
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 14:36:15 11/06/89
 REPR 14:53:34 11/06/89
 TOT RUN TIME 0:16:55
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7203 cp

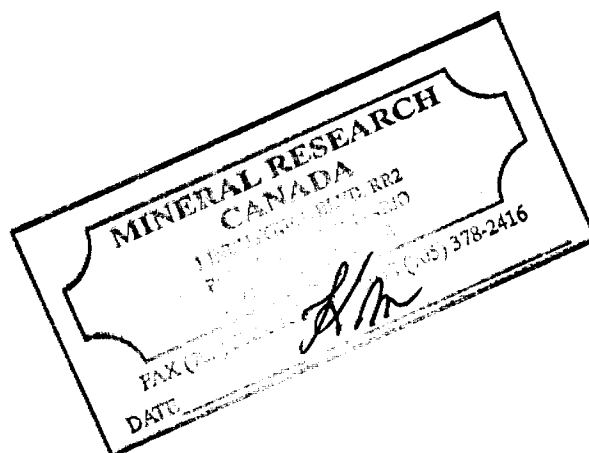
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.38 μ m MODAL DIAMETER: 0.40 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	100.0	-0.0
40.00	98.5	1.5
30.00	96.8	1.7
25.00	95.8	1.5
20.00	92.2	3.1
15.00	89.5	2.7
10.00	84.0	5.4
8.00	80.6	3.5
6.00	76.4	4.2
5.00	73.9	2.5
4.00	70.8	3.6
3.00	64.2	6.1
2.00	55.9	8.3
1.50	51.2	4.8
1.00	45.8	5.9
0.80	41.8	3.9
0.60	35.5	5.8
0.50	31.5	4.0
0.40	25.5	6.0



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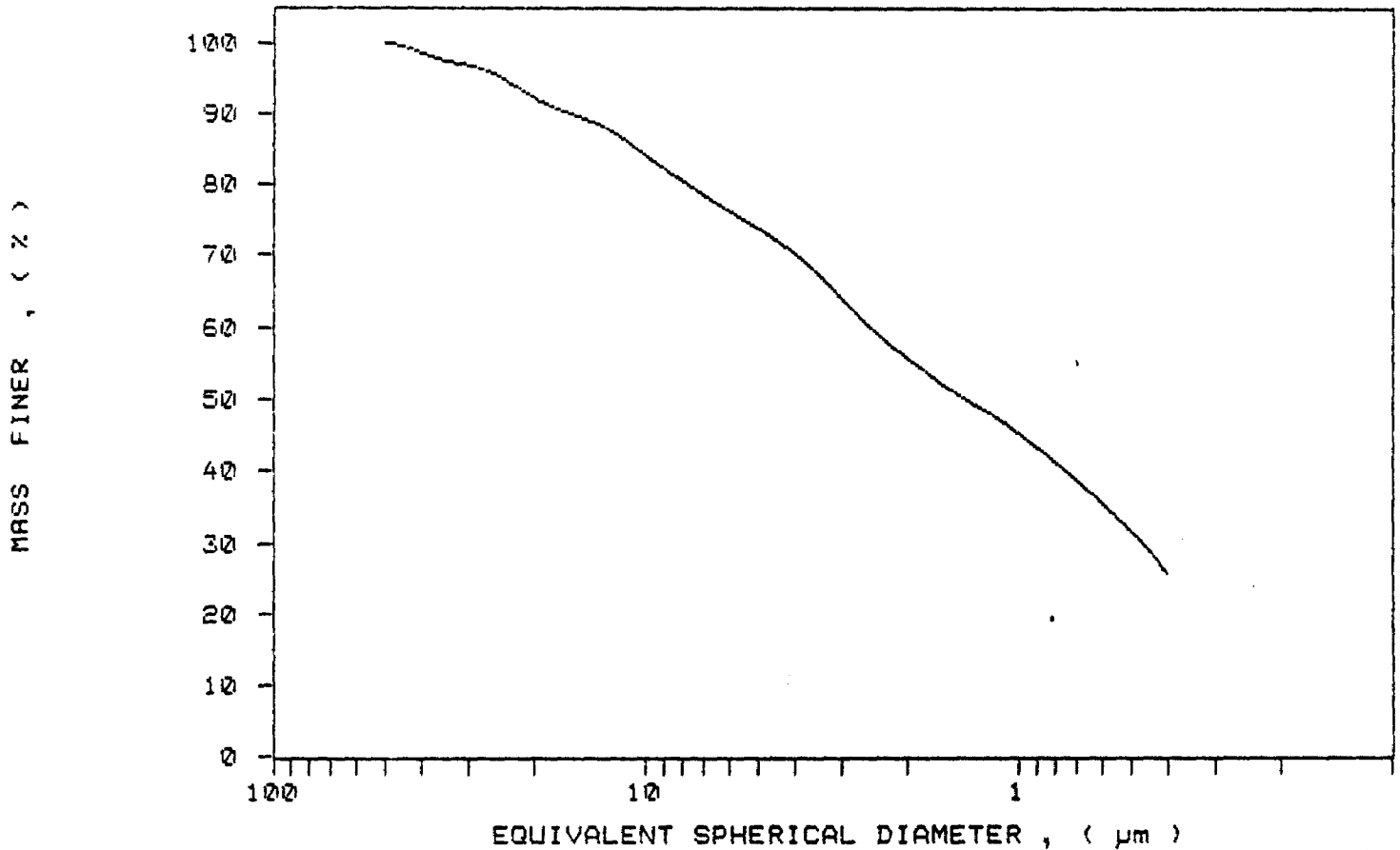
Kaolin

PAGE 2

SAMPLE DIRECTORY/NUMBER: DATA1 /389
SAMPLE ID: Hole 89-87 # 2816
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 14:36:15 11/06/89
REPRT 14:53:34 11/06/89
TOT RUN TIME 0:16:55
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7203 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

SediGraph 5100 V2.00

PAGE 1

SAMPLE DIRECTORY/NUMBER: SECOND /1
 SAMPLE ID: Hole 89-87 # 2817
 SUBMITTER: James Bay Co.
 OPERATOR: Kaartina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 14:23:58 11/07/89
 REPRT 14:41:23 11/07/89
 TOT RUN TIME 0:17:09
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7204 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.89 μ m

MODAL DIAMETER: 4.02 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	104.4	-4.4
40.00	100.7	3.7
30.00	97.1	3.6
25.00	95.7	1.4
20.00	93.7	2.0
15.00	89.3	4.3
10.00	82.2	7.1
8.00	77.9	4.3
6.00	70.9	7.0
5.00	66.3	4.6
4.00	59.7	6.7
3.00	51.1	8.6
2.00	41.0	10.1
1.50	35.4	5.5
1.00	27.5	7.9
0.80	23.8	3.7
0.60	20.1	3.7
0.50	18.5	1.7
0.40	15.8	2.6



Kaolin

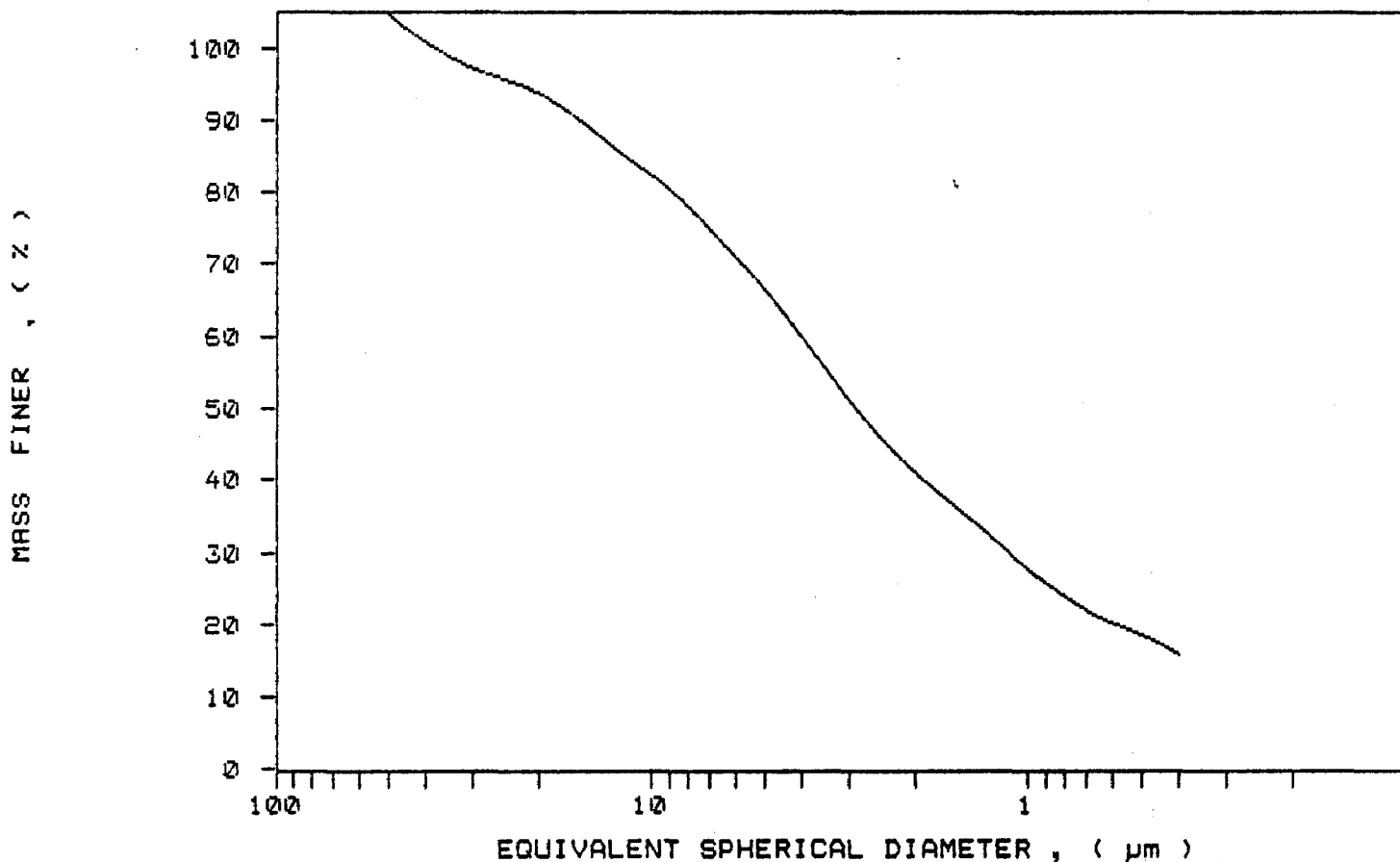
SediGraph 5100 V2.00

PAGE 2

SAMPLE DIRECTORY/NUMBER: SECOND /1
SAMPLE ID: Hole 89-87 # 2817
SUBMITTER: James Bay Co.
OPERATOR: Kaartina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 14:23:58 11/07/89
REPT 14:41:23 11/07/89
TOT RUN TIME 0:17:09
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7204 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

SediGraph 5100 V2.00

PAGE 1

SAMPLE DIRECTORY/NUMBER: SECOND /2
 SAMPLE ID: Hole 89-87 # 2818
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 15:02:47 11/07/89
 REPT 15:20:10 11/07/89
 TOT RUN TIME 0:17:05
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7204 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.64 μ m

MODAL DIAMETER: 3.58 μ m

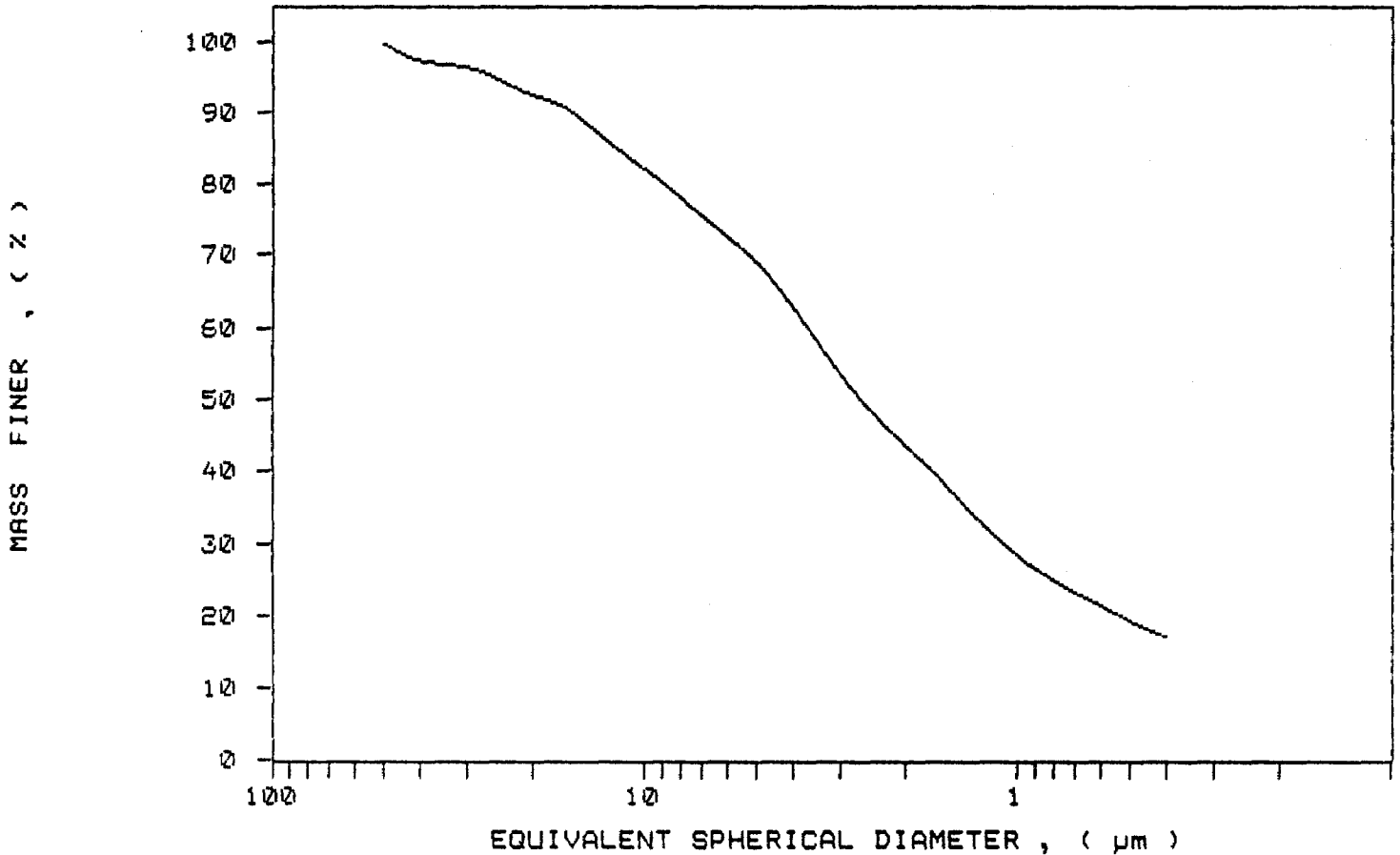
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.6	0.4
40.00	97.2	2.3
30.00	96.2	1.0
25.00	94.7	1.6
20.00	92.4	2.3
15.00	89.3	3.1
10.00	82.1	7.2
8.00	78.0	4.0
6.00	72.6	5.5
5.00	68.9	3.6
4.00	62.7	6.2
3.00	53.6	9.1
2.00	43.5	10.1
1.50	37.0	6.5
1.00	28.2	8.9
0.80	24.7	3.4
0.60	21.3	3.4
0.50	19.2	2.1
0.40	17.0	2.2



SAMPLE DIRECTORY/NUMBER: SECOND /2
SAMPLE ID: Hole 89-87 # 2818
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 15:02:47 11/07/89
REPRT 15:20:10 11/07/89
TOT RUN TIME 0:17:05
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7204 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

SediGraph 5100 V2.00

PAGE 1

SAMPLE DIRECTORY/NUMBER: SECOND /3
 SAMPLE ID: Hole 89-87 # 2819
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 15:37:43 11/07/89
 REPT 15:55:08 11/07/89
 TOT RUN TIME 0:17:06
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7203 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.05 μ m

MODAL DIAMETER: 3.87 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	96.7	3.3
40.00	97.1	-0.4
30.00	95.8	1.3
25.00	93.8	2.0
20.00	92.1	1.7
15.00	89.6	2.5
10.00	83.7	5.9
8.00	79.9	3.8
6.00	74.9	5.0
5.00	70.9	3.9
4.00	65.6	5.3
3.00	58.7	6.9
2.00	49.4	9.3
1.50	43.7	5.7
1.00	36.4	7.3
0.80	32.6	3.8
0.60	27.6	4.9
0.50	24.9	2.7
0.40	21.0	3.9



Kaolin

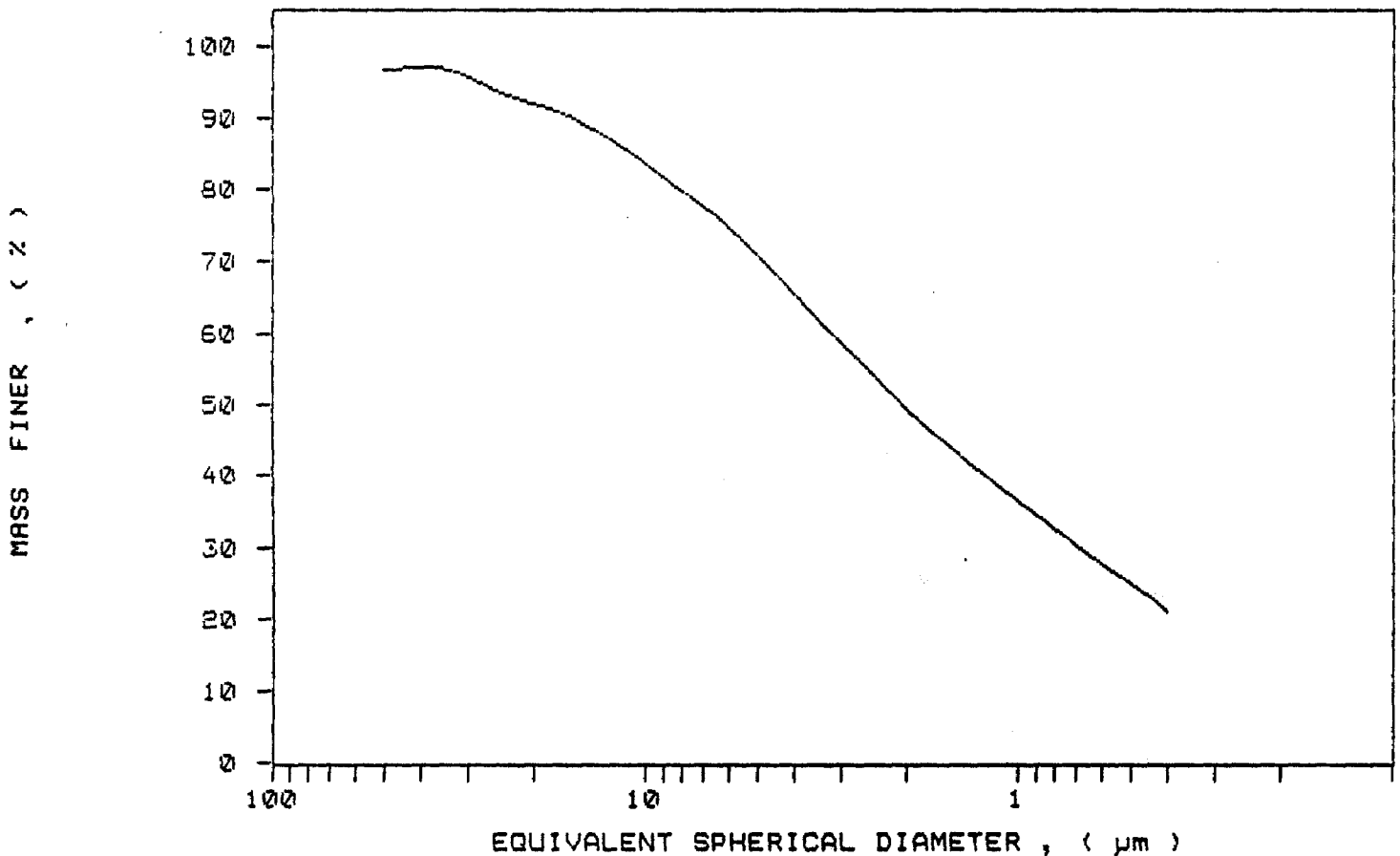
SediGraph 5100 V2.00

PAGE 2

SAMPLE DIRECTORY/NUMBER: SECOND /3
SAMPLE ID: Hole 89-87 # 2819
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 15:37:43 11/07/89
REPT 15:55:08 11/07/89
TOT RUN TIME 0:17:06
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7203 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

SediGraph 5100 V2.00

PAGE 1

SAMPLE DIRECTORY/NUMBER: SECOND /41
 SAMPLE ID: Hole 89-87 # 2820
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 08:55:07 11/13/89
 REPRT 09:12:22 11/13/89
 TOT RUN TIME 0:16:59
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7209 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.61 μ m MODAL DIAMETER: 3.64 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.6	1.4
40.00	97.4	1.1
30.00	95.1	2.3
25.00	93.3	1.8
20.00	89.9	3.4
15.00	84.7	5.2
10.00	78.7	6.0
8.00	74.5	4.3
6.00	68.7	5.8
5.00	64.8	3.8
4.00	59.9	5.0
3.00	53.2	6.7
2.00	44.0	9.1
1.50	38.4	5.7
1.00	30.3	8.0
0.80	26.6	3.8
0.60	20.9	5.6
0.50	16.8	4.1
0.40	12.6	4.2



Kaolin

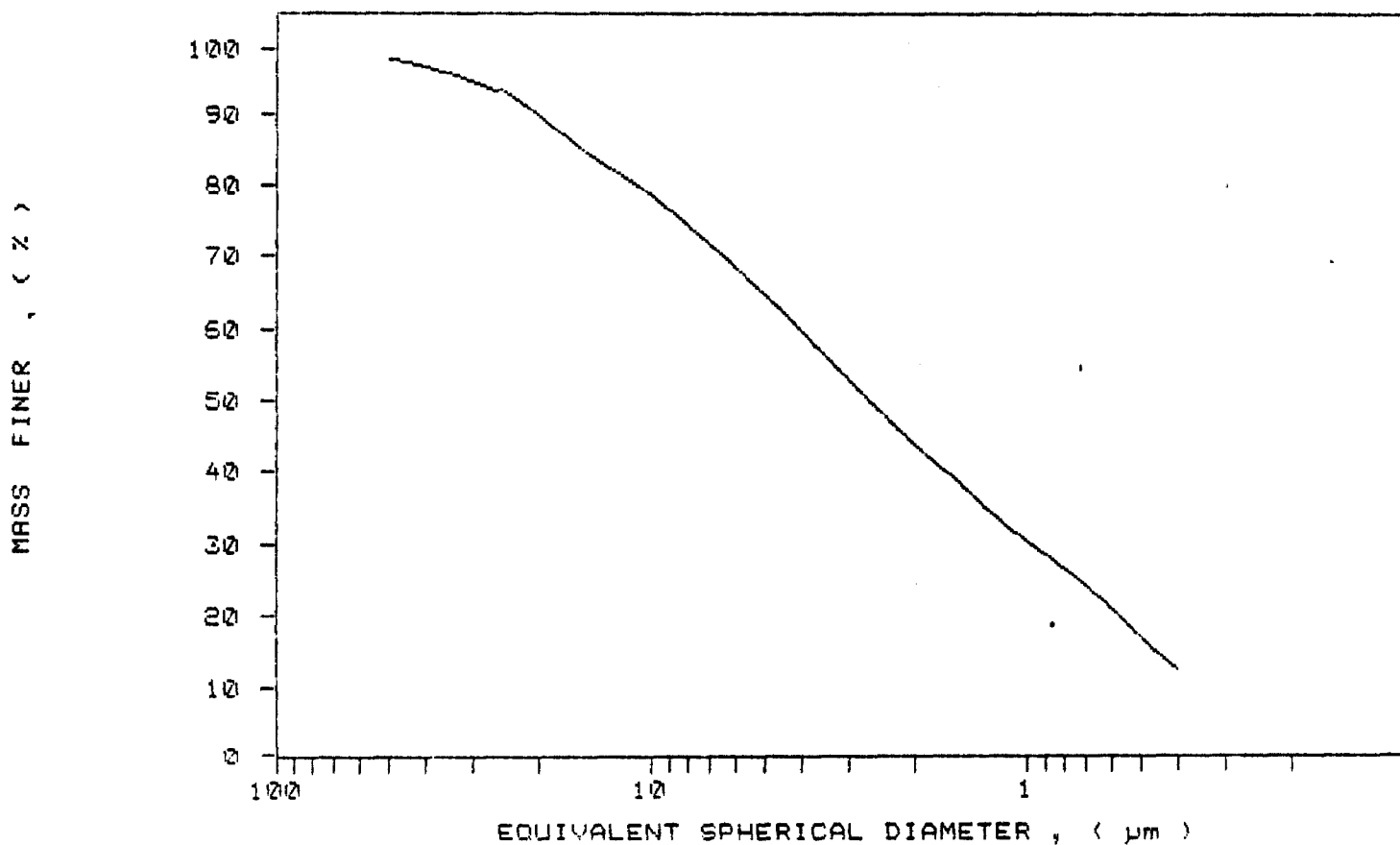
SediGraph 5100 V2.00

PAGE 2

SAMPLE DIRECTORY/NUMBER: SECOND /41
SAMPLE ID: Hole 89-87 # 2820
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 08:55:07 11/13/89
REPT 09:12:22 11/13/89
TOT RUN TIME 0:16:59
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9941 g/cc
LIQ VISC: 0.7209 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

SediGraph 5100 V2.00

PAGE 1

SAMPLE DIRECTORY/NUMBER: SECOND /43
 SAMPLE ID: Hole 89-87 # 2822
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:29:11 11/13/89
 REPT 10:46:31 11/13/89
 TOT RUN TIME 0:17:02
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7207 cp

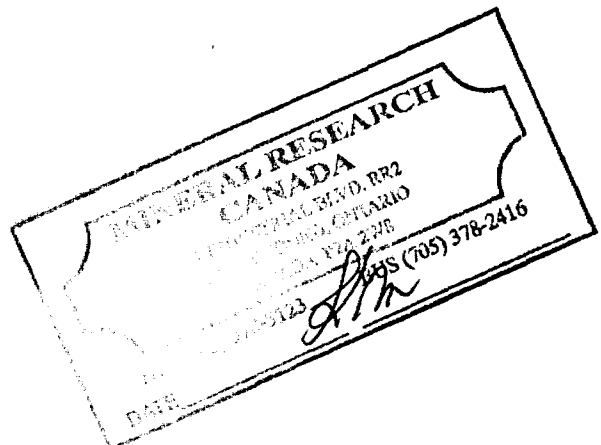
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.87 μ m MODAL DIAMETER: 3.18 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	100.1	-0.1
40.00	99.4	0.8
30.00	98.1	1.3
25.00	97.1	1.0
20.00	95.9	1.1
15.00	91.9	4.1
10.00	83.9	7.9
8.00	78.2	5.8
6.00	70.5	7.6
5.00	65.7	4.8
4.00	59.7	6.1
3.00	51.3	8.4
2.00	41.4	9.9
1.50	36.0	5.1
1.00	29.4	6.9
0.80	26.2	3.1
0.60	21.8	4.4
0.50	19.4	2.4
0.40	16.0	3.8



Kaolin

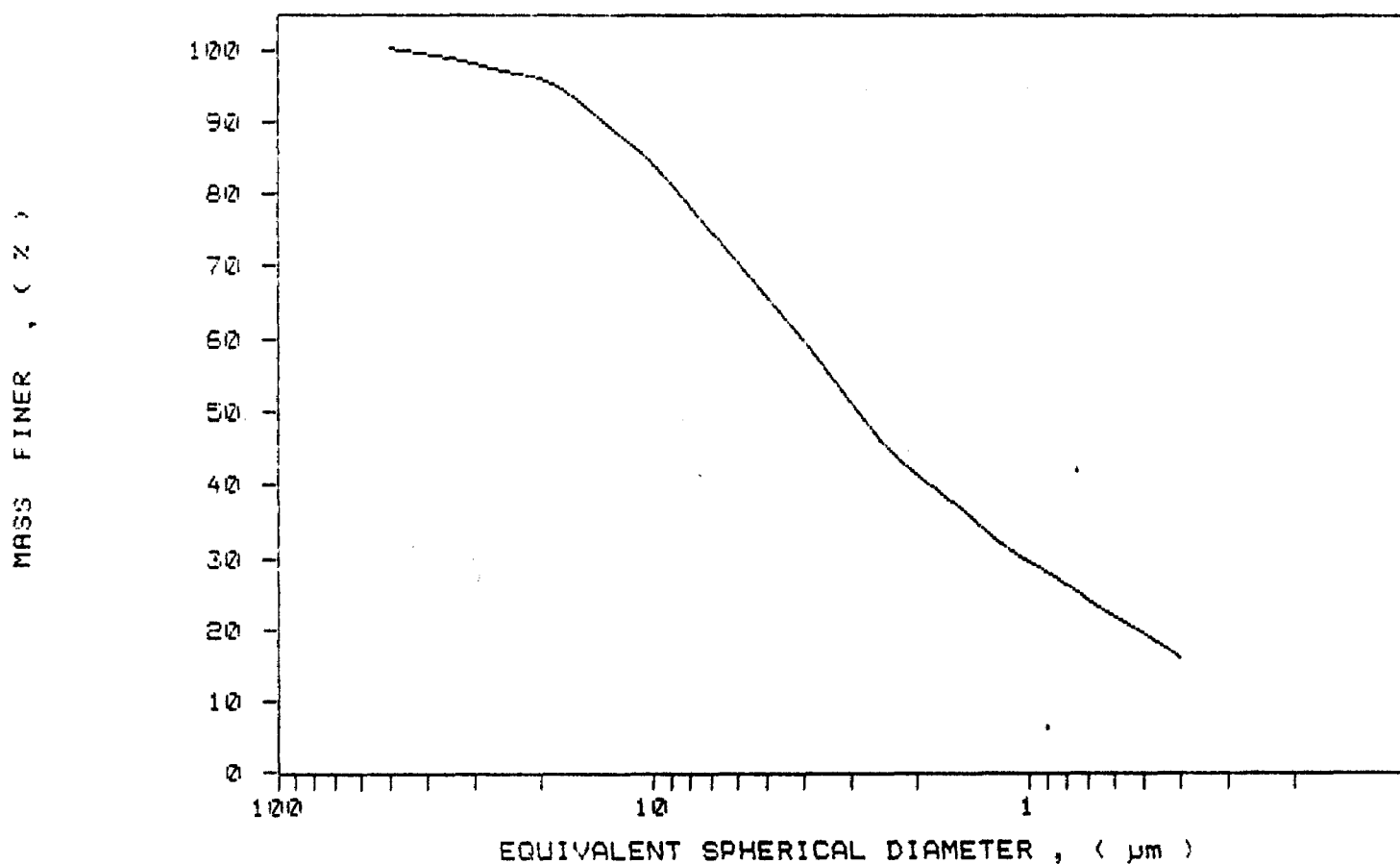
SediGraph 5100 V2.00

PAGE 2

SAMPLE DIRECTORY/NUMBER: SECOND /43
SAMPLE ID: Hole 89-87 # 2822
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 10:29:11 11/13/89
REPT 10:46:31 11/13/89
TOT RUN TIME 0:17:02
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9941 g/cc
LIQ VISC: 0.7207 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /42
 SAMPLE ID: Hole 89-87 # 2821
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 09:55:10 11/13/89
 REPT 10:12:25 11/13/89
 TOT RUN TIME 0:16:58
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7206 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.82 μ m MODAL DIAMETER: 1.62 μ m

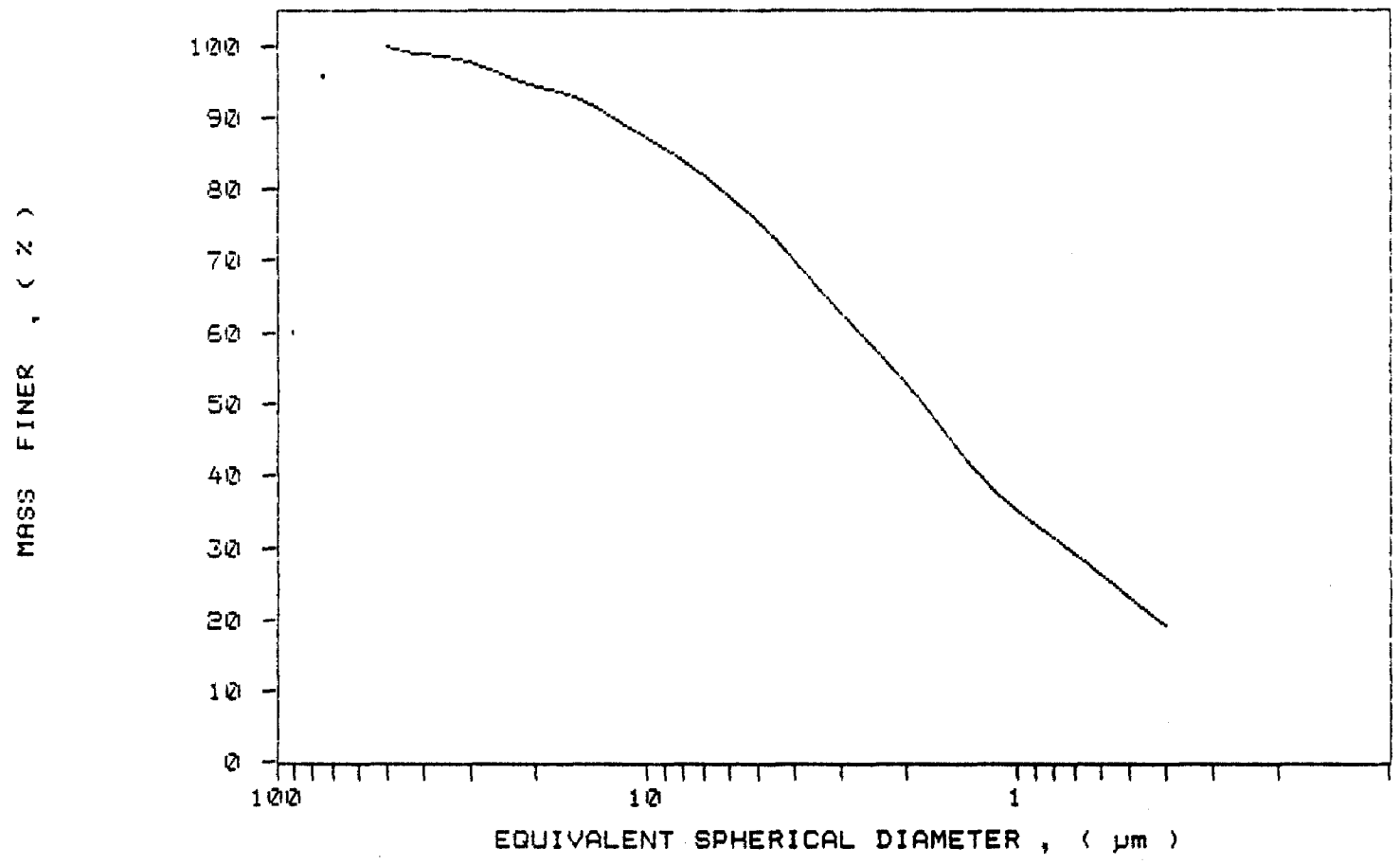
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.9	0.1
40.00	98.7	1.1
30.00	97.6	1.1
25.00	96.1	1.6
20.00	94.3	1.7
15.00	92.3	2.0
10.00	87.1	5.3
8.00	83.9	3.1
6.00	78.9	5.0
5.00	75.3	3.6
4.00	69.9	5.4
3.00	62.6	7.2
2.00	52.6	10.0
1.50	44.5	8.2
1.00	34.9	9.6
0.80	31.2	3.7
0.60	26.2	5.0
0.50	23.0	3.2
0.40	19.1	3.9



OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

TOT RUN TIME 0:16:58
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9941 g/cc
LIQ VISC: 0.7206 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /44
 SAMPLE ID: Hole 89-87 # 2823
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 11:04:07 11/13/89
 REPRT 11:21:27 11/13/89
 TOT RUN TIME 0:17:02
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7207 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.96 μ m MODAL DIAMETER: 4.02 μ m

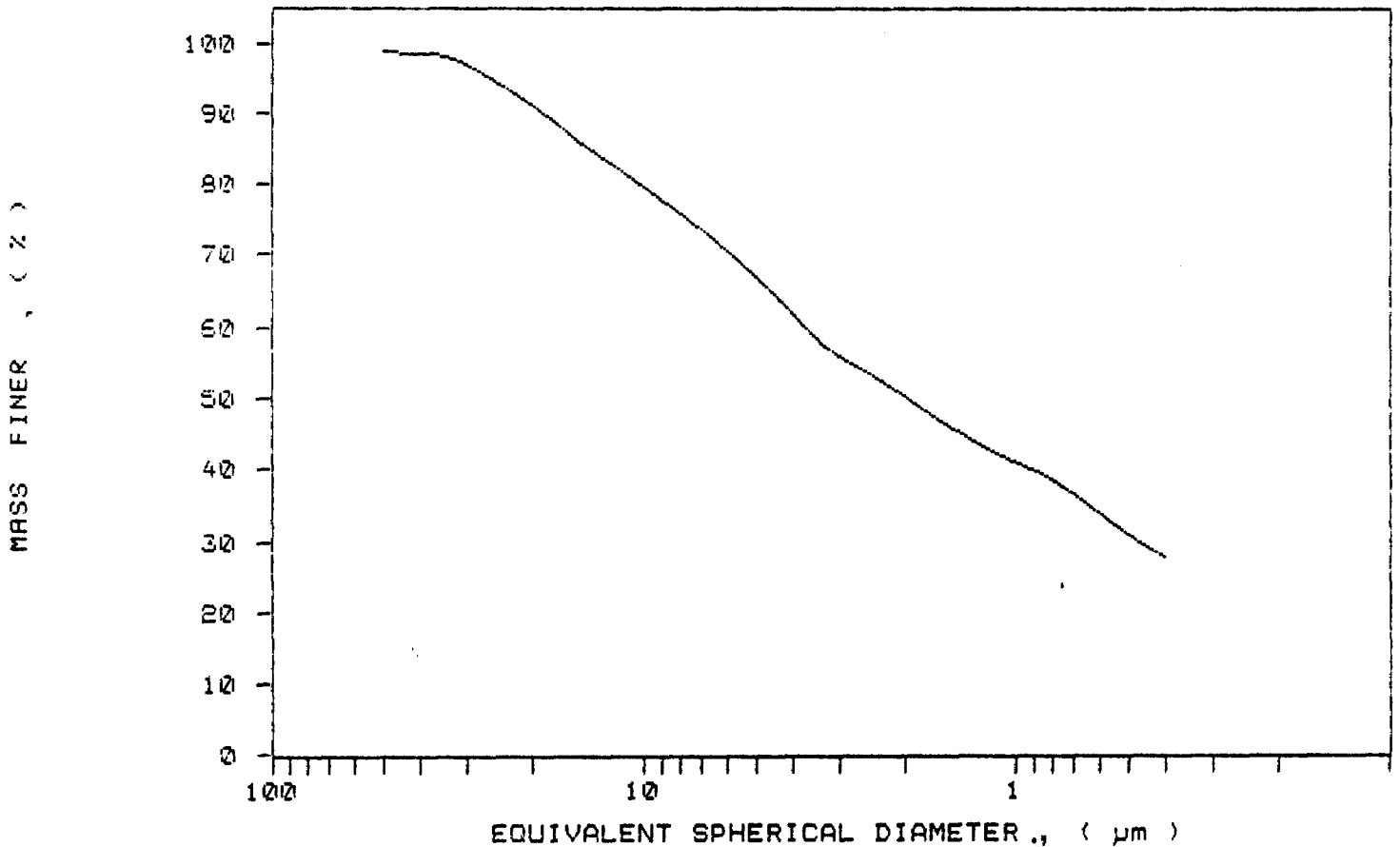
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.7	1.3
40.00	98.6	0.1
30.00	96.9	1.7
25.00	94.4	2.5
20.00	91.2	3.3
15.00	86.1	5.1
10.00	79.6	6.5
8.00	75.9	3.7
6.00	70.6	5.3
5.00	66.9	3.7
4.00	61.9	5.0
3.00	56.0	5.9
2.00	50.3	5.7
1.50	46.0	4.4
1.00	40.9	5.0
0.80	38.5	2.5
0.60	36.9	4.6
0.50	30.8	3.1
0.40	27.7	3.2



SAMPLE DIRECTORY/NUMBER: SECOND /44
SAMPLE ID: Hole 89-87 # 2823
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 11:04:07 11/13/89
REPRT 11:21:27 11/13/89
TOT RUN TIME 0:17:02
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9941 g/cc
LIQ VISC: 0.7207 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

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PAGE 1

SAMPLE DIRECTORY/NUMBER: SECOND /45
 SAMPLE ID: Hole 89-87 # 2824
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 11:39:23 11/13/89
 REPT 11:56:40 11/13/89
 TOT RUN TIME 0:16:58
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7206 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.29 μ m MODAL DIAMETER: 0.40 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	97.6	2.4
40.00	97.3	0.3
30.00	96.8	0.5
25.00	95.3	1.5
20.00	92.6	2.7
15.00	89.3	3.3
10.00	82.4	6.9
8.00	78.0	4.4
6.00	72.3	5.7
5.00	67.6	4.5
4.00	61.9	6.0
3.00	55.6	6.3
2.00	47.3	8.3
1.50	42.3	5.0
1.00	35.9	6.4
0.80	33.2	2.7
0.60	28.2	4.9
0.50	24.7	3.5
0.40	18.9	5.9

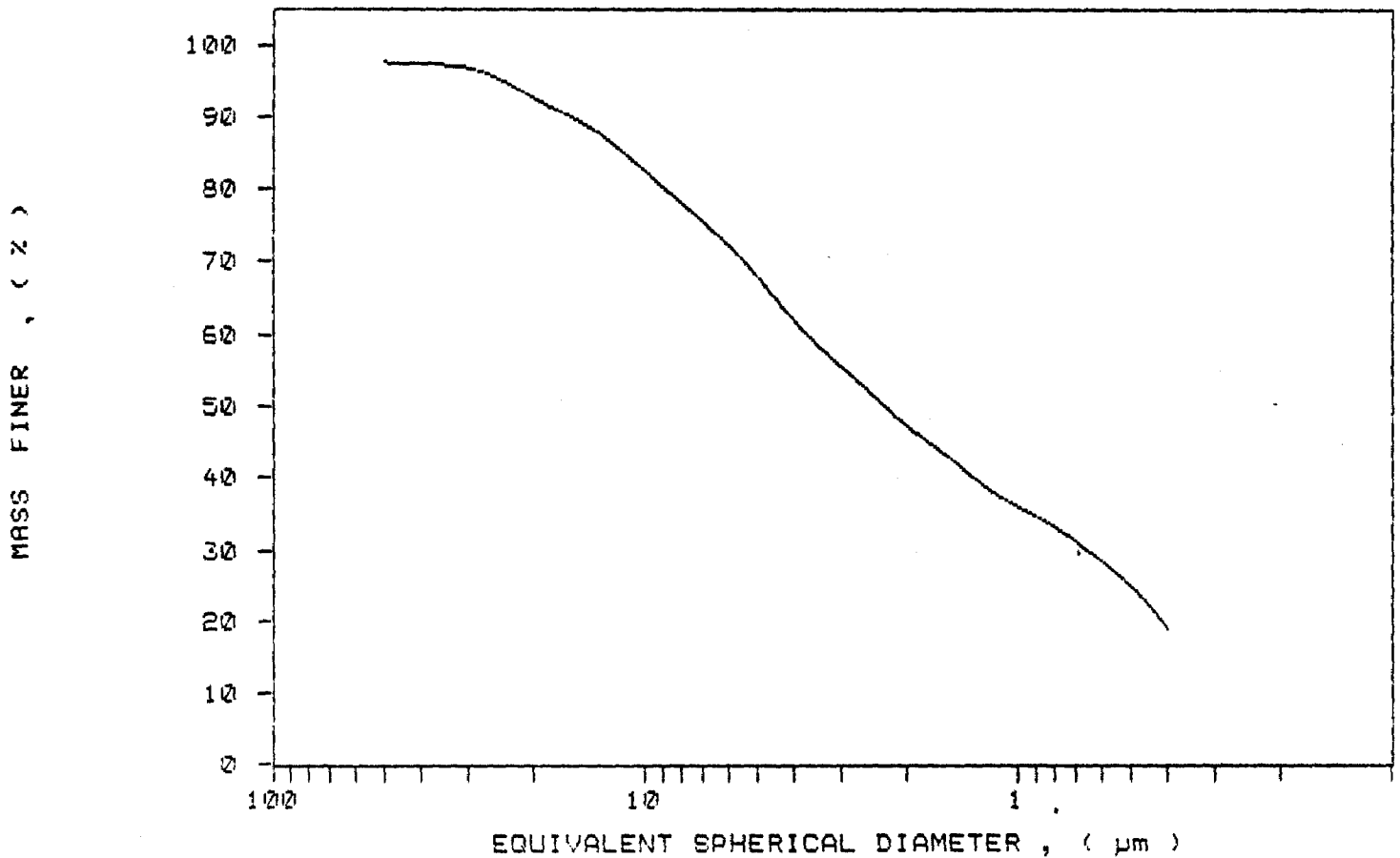


SAMPLE DIRECTORY/NUMBER: SECOND /45
SAMPLE ID: Hole 89-87 # 2824
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.1 deg C

RUN TYPE: Standard

UNIT NUMBER: 1
START 11:39:23 11/13/89
REPRT 11:56:40 11/13/89
TOT RUN TIME 0:16:58
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9941 g/cc
LIQ VISC: 0.7206 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECONDD /46
 SAMPLE ID: Hole 89-87 # 2025
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 13:02:59 11/13/89
 REPRT 13:20:52 11/13/89
 TOT RUN TIME 0:17:35
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7207 cp

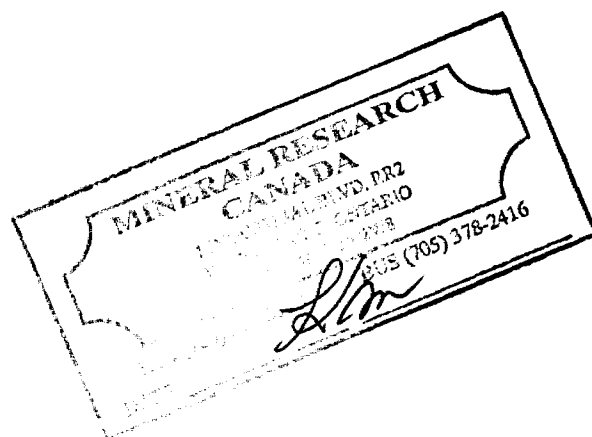
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.70 μ m MODAL DIAMETER: 0.40 μ m

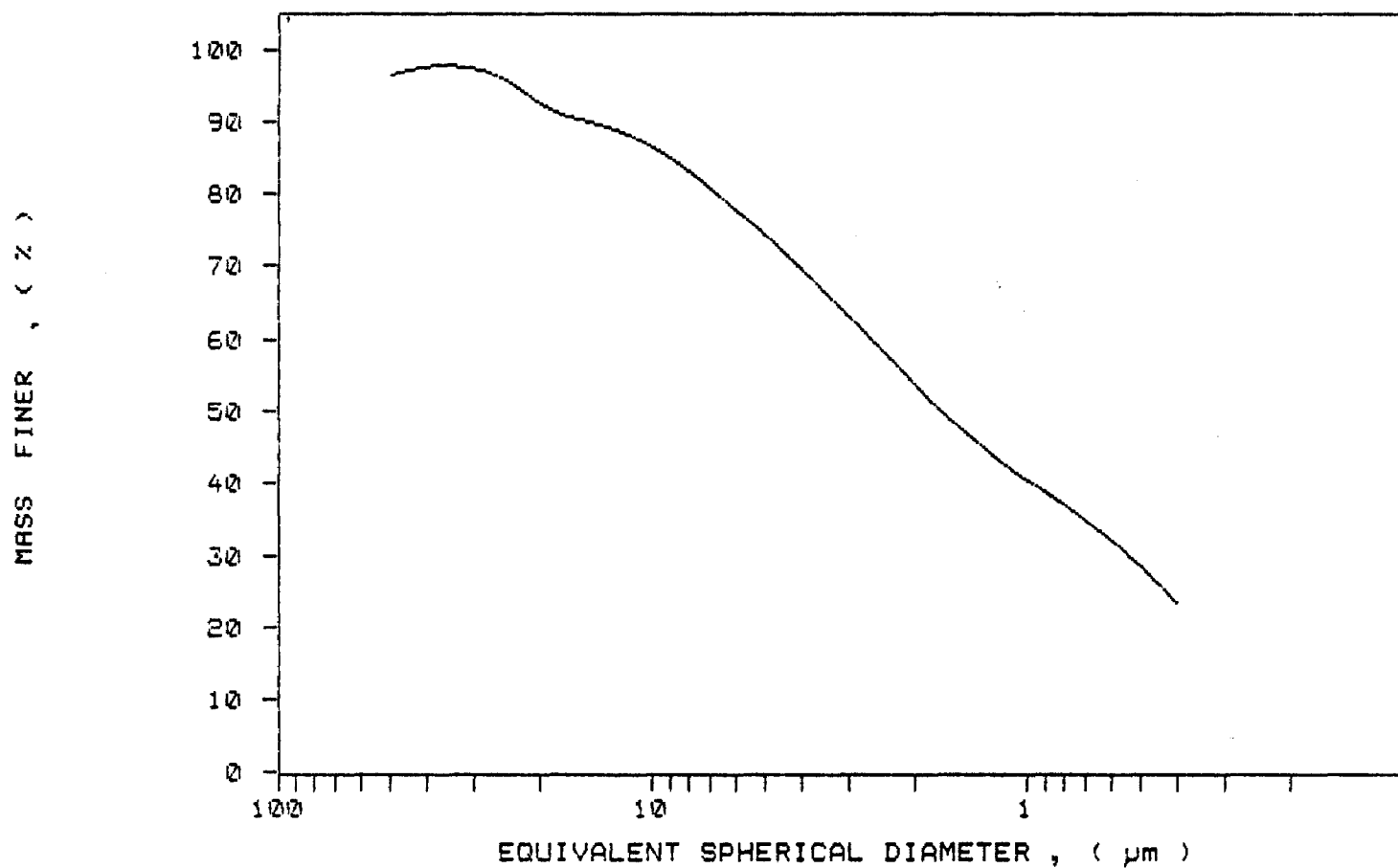
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	96.3	3.7
40.00	97.5	-1.2
30.00	97.2	0.3
25.00	95.8	1.4
20.00	92.5	3.3
15.00	90.1	2.5
10.00	86.5	3.6
8.00	83.1	3.3
6.00	77.9	5.3
5.00	74.2	3.6
4.00	69.6	4.7
3.00	63.2	6.4
2.00	53.7	9.4
1.50	47.4	6.3
1.00	40.4	7.0
0.80	37.1	3.4
0.60	32.0	5.1
0.50	28.6	3.6
0.40	23.2	5.1



SAMPLE DIRECTORY/NUMBER: SECOND /46
SAMPLE ID: Hole 89-87 # 2825
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 13:02:59 11/13/89
REPT 13:20:52 11/13/89
TOT RUN TIME 0:17:35
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9941 g/cc
LIQ VISC: 0.7207 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECONO /47
 SAMPLE ID: Hole 89-87 # 2826
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 13:33:56 11/13/89
 REPT 13:51:14 11/13/89
 TOT RUN TIME 0:16:55
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7206 cp

STARTING DIAMETER: 50.00 μm
 ENDING DIAMETER: 0.40 μm

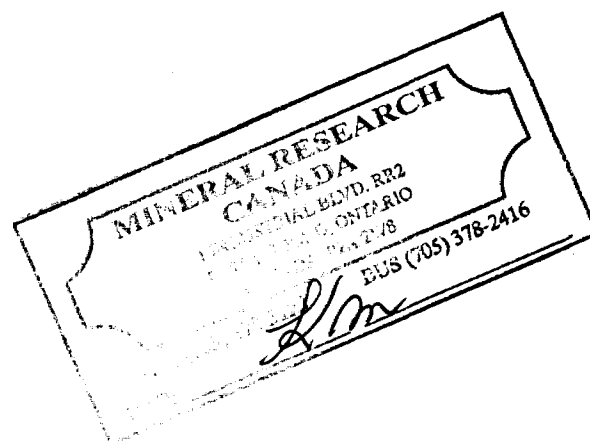
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.21 μm

MODAL DIAMETER: 5.38 μm

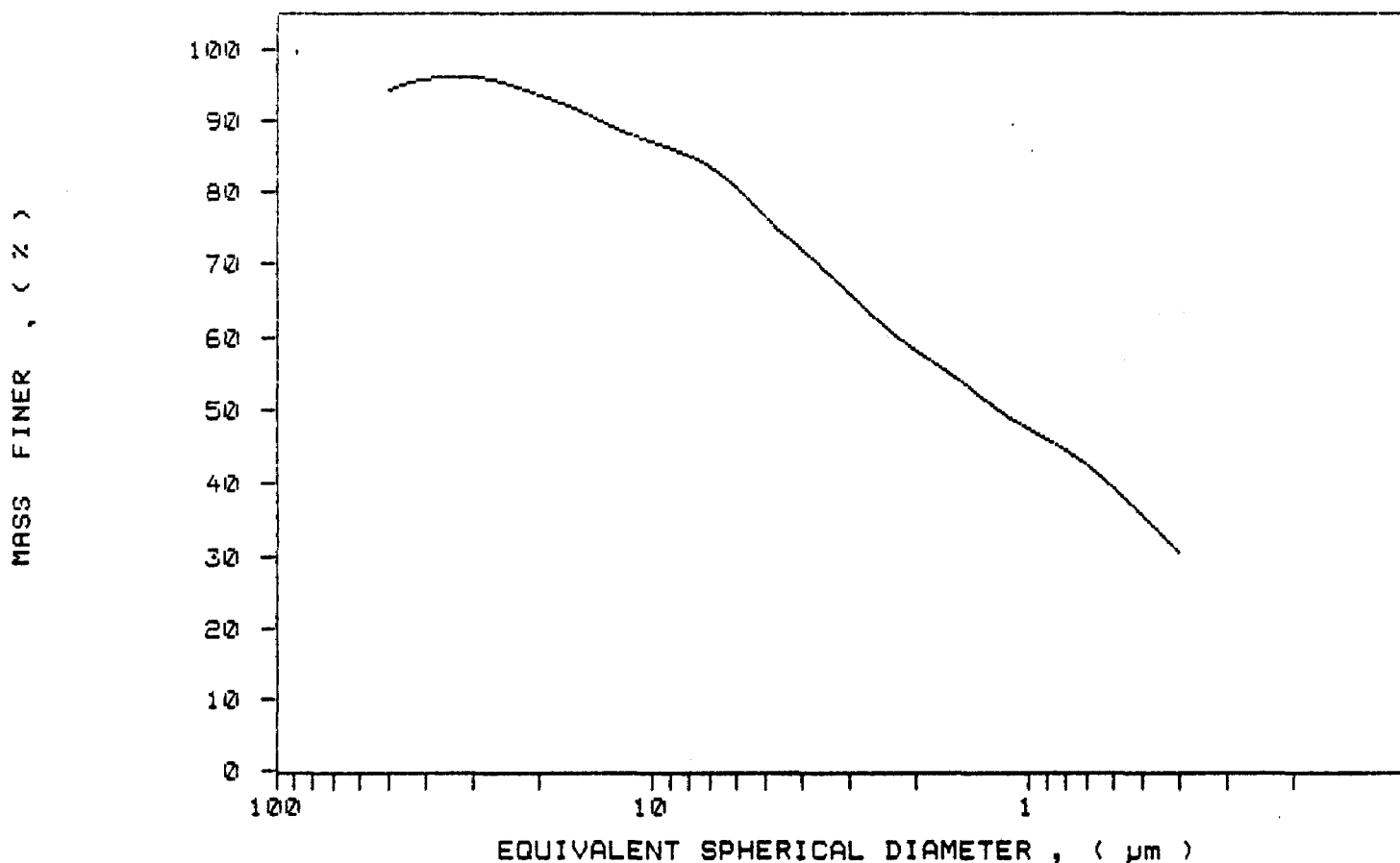
DIAMETER (μm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	94.3	5.7
40.00	95.7	-1.5
30.00	96.0	-0.2
25.00	95.3	0.7
20.00	93.5	1.8
15.00	90.9	2.6
10.00	87.0	3.9
8.00	85.1	1.9
6.00	80.6	4.6
5.00	76.4	4.2
4.00	71.9	4.5
3.00	66.0	5.9
2.00	58.2	7.8
1.50	53.7	4.5
1.00	47.4	6.3
0.80	44.6	2.8
0.60	39.4	5.2
0.50	35.4	4.0
0.40	30.3	5.1



SAMPLE DIRECTORY/NUMBER: SECOND /47
SAMPLE ID: Hole 89-87 # 2826
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 13:33:56 11/13/89
REPT 13:51:14 11/13/89
TOT RUN TIME 0:16:55
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9941 g/cc
LIQ VISC: 0.7206 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /48
 SAMPLE ID: Hole 89-87 # 2827
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 14:03:57 11/13/89
 REPRT 14:21:44 11/13/89
 TOT RUN TIME 0:17:30
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7206 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

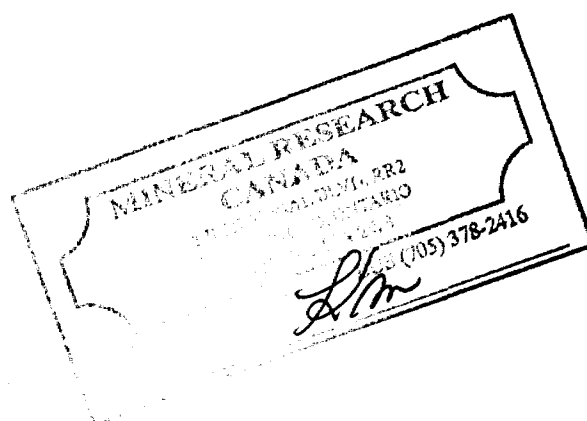
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.40 μ m

MODAL DIAMETER: 0.43 μ m

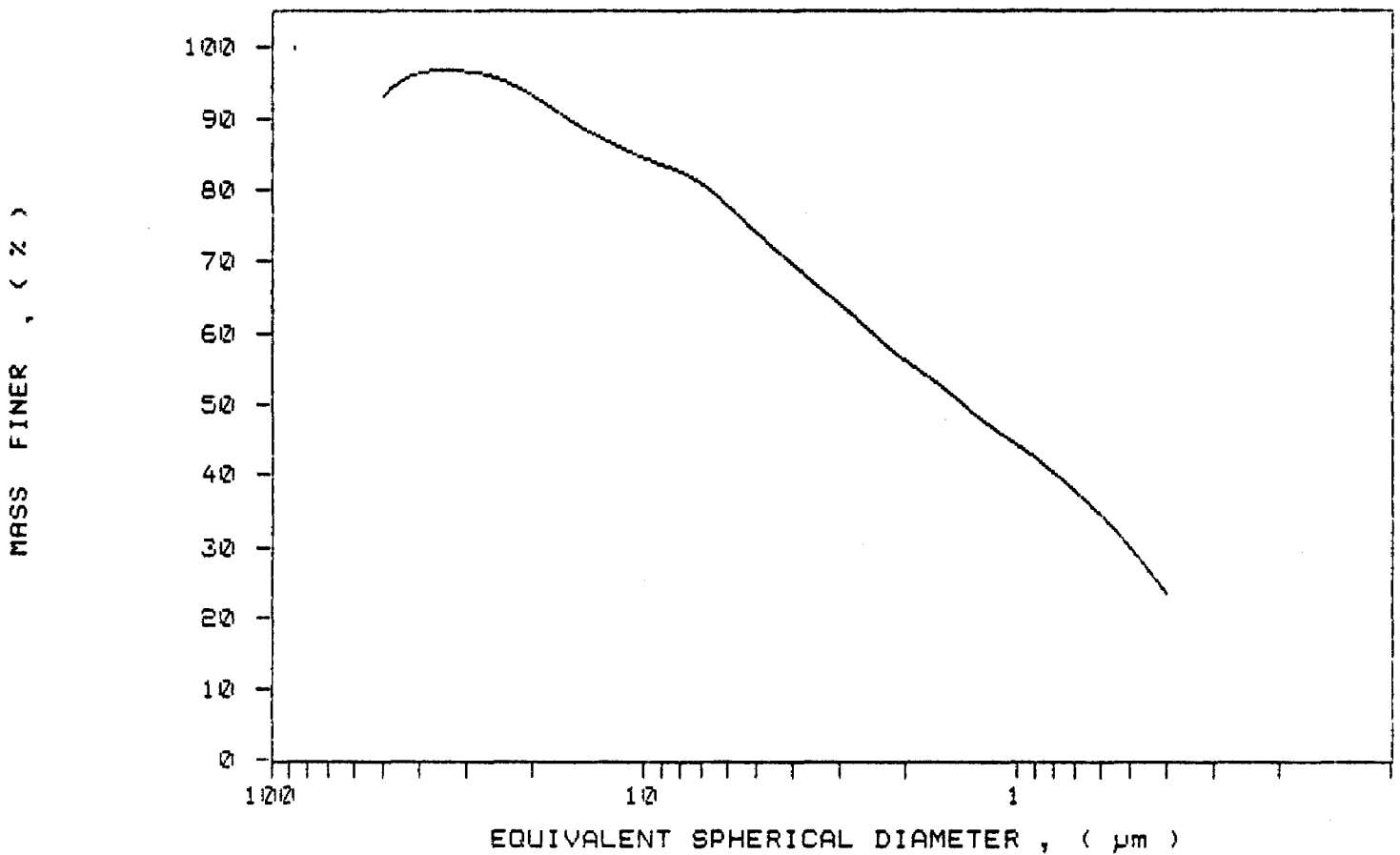
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	93.2	6.8
40.00	96.3	-3.1
30.00	96.5	-0.2
25.00	95.6	0.8
20.00	93.2	2.5
15.00	89.0	4.2
10.00	84.4	4.6
8.00	82.5	1.9
6.00	77.8	4.7
5.00	74.0	3.8
4.00	69.6	4.4
3.00	64.1	5.5
2.00	56.2	7.9
1.50	51.4	4.8
1.00	44.2	7.2
0.80	40.3	3.9
0.60	34.4	5.9
0.50	29.8	4.6
0.40	23.4	6.4



SAMPLE DIRECTORY/NUMBER: SECOND /48
SAMPLE ID: Hole 89-87 # 2827
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 14:03:57 11/13/89
REPRT 14:21:44 11/13/89
TOT RUN TIME 0:17:30
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9941 g/cc
LIQ VISC: 0.7206 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /49
 SAMPLE ID: Hole 89-87 # 2828
 SUBMITTER: James Bay Cop.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 14:41:52 11/13/89
 REPRT 14:59:06 11/13/89
 TOT RUN TIME 0:16:56
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7205 cp

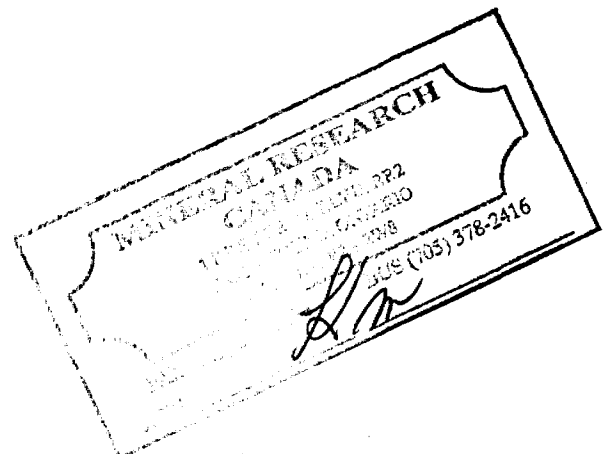
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.38 μ m MODAL DIAMETER: 2.29 μ m

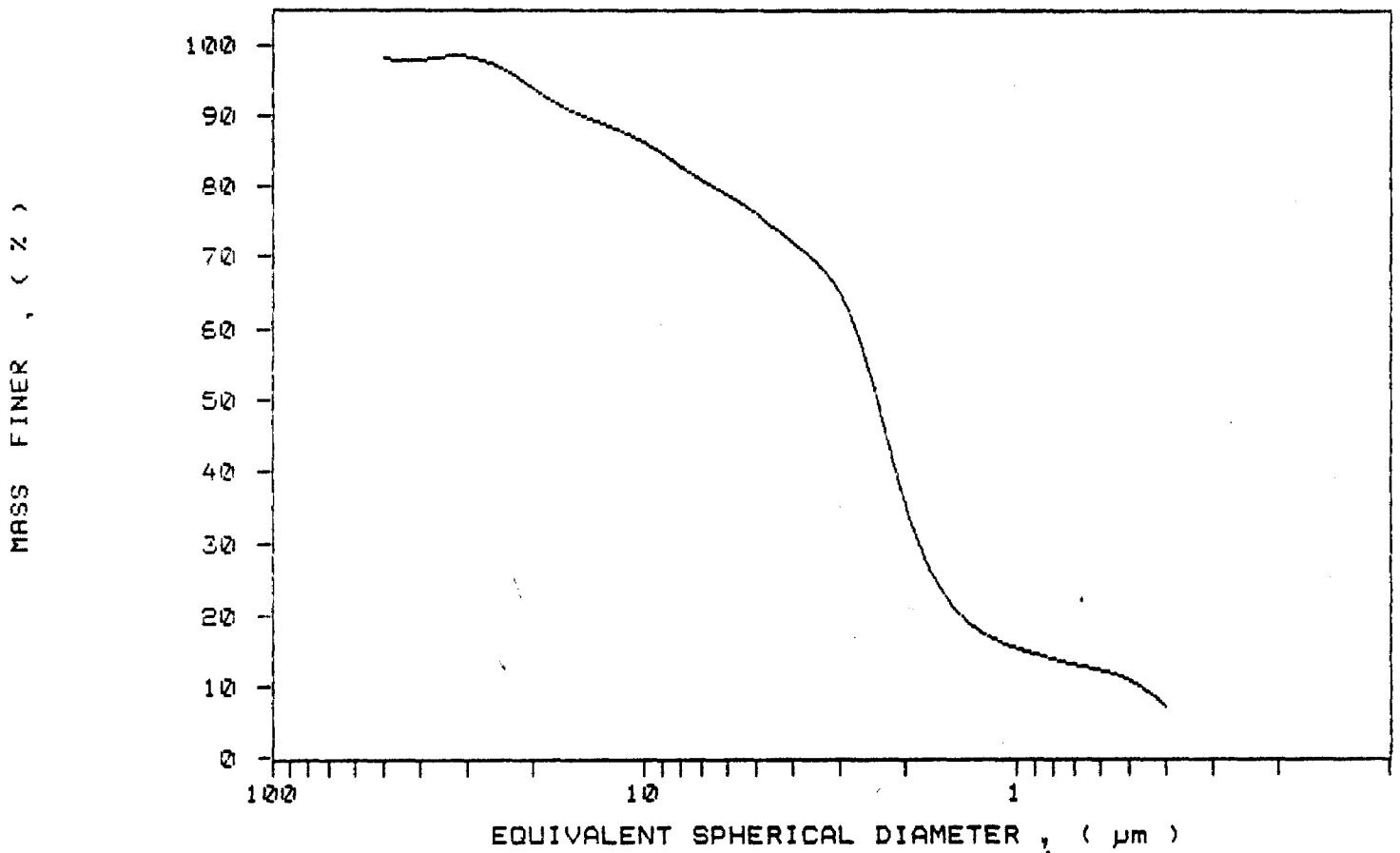
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.2	1.8
40.00	97.8	0.4
30.00	98.3	-0.5
25.00	97.0	1.3
20.00	93.9	3.1
15.00	90.2	3.7
10.00	86.3	3.9
8.00	82.9	3.3
6.00	78.9	4.1
5.00	76.1	2.8
4.00	72.1	4.0
3.00	65.1	7.0
2.00	35.4	29.7
1.50	21.4	13.9
1.00	15.4	6.0
0.80	13.9	1.5
0.60	12.4	1.5
0.50	10.9	1.5
0.40	7.3	3.6



SAMPLE DIRECTORY/NUMBER: SECOND /49
SAMPLE ID: Hole 89-87 # 2828
SUBMITTER: James Bay Cop.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 14:41:52 11/13/89
REPT 14:59:06 11/13/89
TOT RUN TIME 0:16:56
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9941 g/cc
LIQ VISC: 0.7205 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /50
 SAMPLE ID: Hole 89-87 # 2829
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 15:15:29 11/13/89
 REPRT 15:32:45 11/13/89
 TOT RUN TIME 0:16:58
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7205 cp

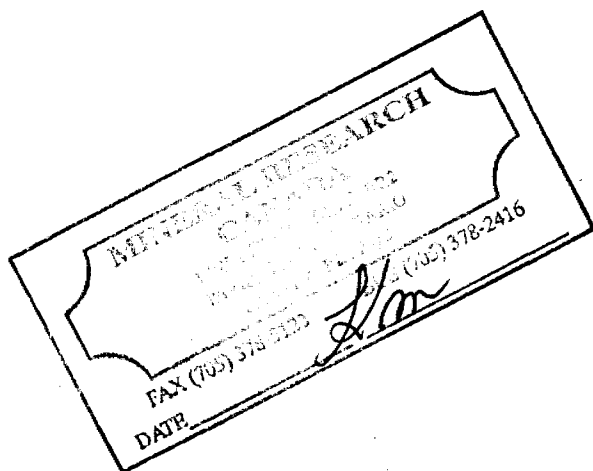
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.94 μ m MODAL DIAMETER: 3.44 μ m

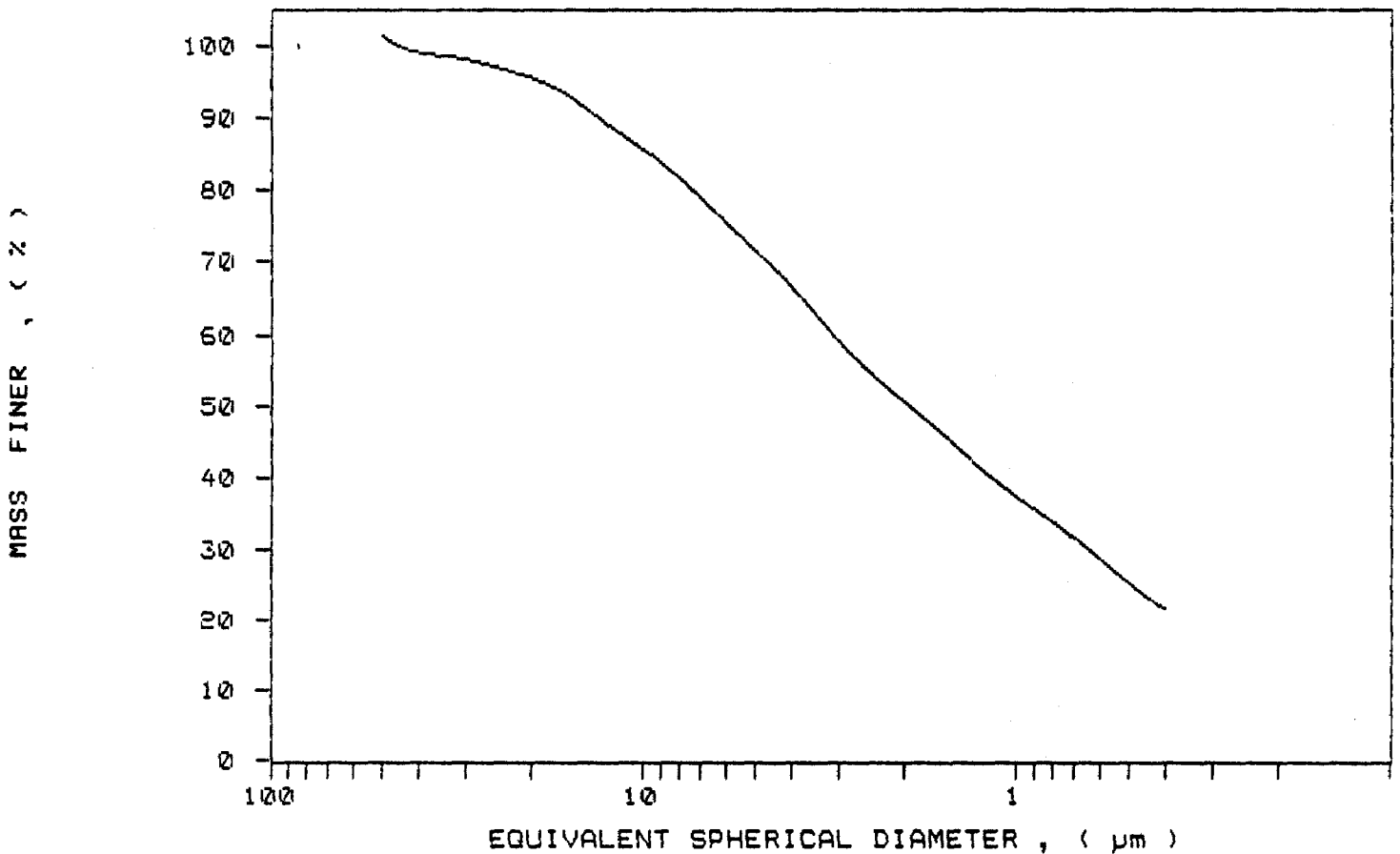
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	101.2	-1.2
40.00	98.9	2.3
30.00	98.0	0.9
25.00	97.0	1.0
20.00	95.5	1.5
15.00	92.1	3.4
10.00	85.6	6.5
8.00	81.6	4.0
6.00	75.3	6.3
5.00	71.5	3.8
4.00	66.6	5.0
3.00	59.1	7.5
2.00	50.6	8.5
1.50	45.1	5.5
1.00	37.4	7.7
0.80	33.8	3.6
0.60	28.7	5.1
0.50	25.2	3.5
0.40	21.5	3.7



SAMPLE DIRECTORY/NUMBER: SECOND /50
SAMPLE ID: Hole 89-87 # 2829
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 15:15:29 11/13/89
REPRT 15:32:45 11/13/89
TOT RUN TIME 0:16:58
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9941 g/cc
LIQ VISC: 0.7205 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /51
 SAMPLE ID: Hole 89-87 # 2830
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 15:49:00 11/13/89
 REPT 16:06:33 11/13/89
 TOT RUN TIME 0:17:17
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7206 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

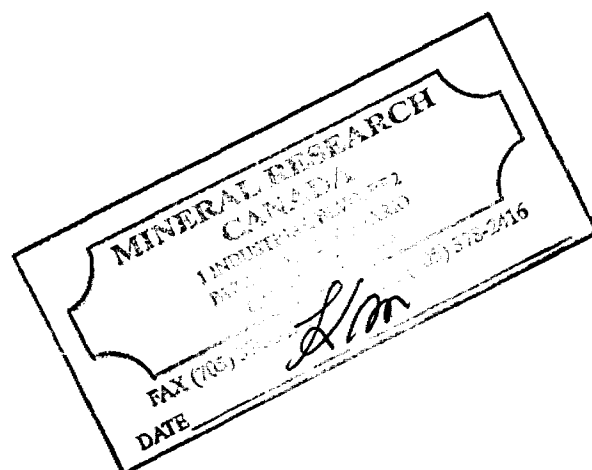
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.73 μ m

MODAL DIAMETER: 0.40 μ m

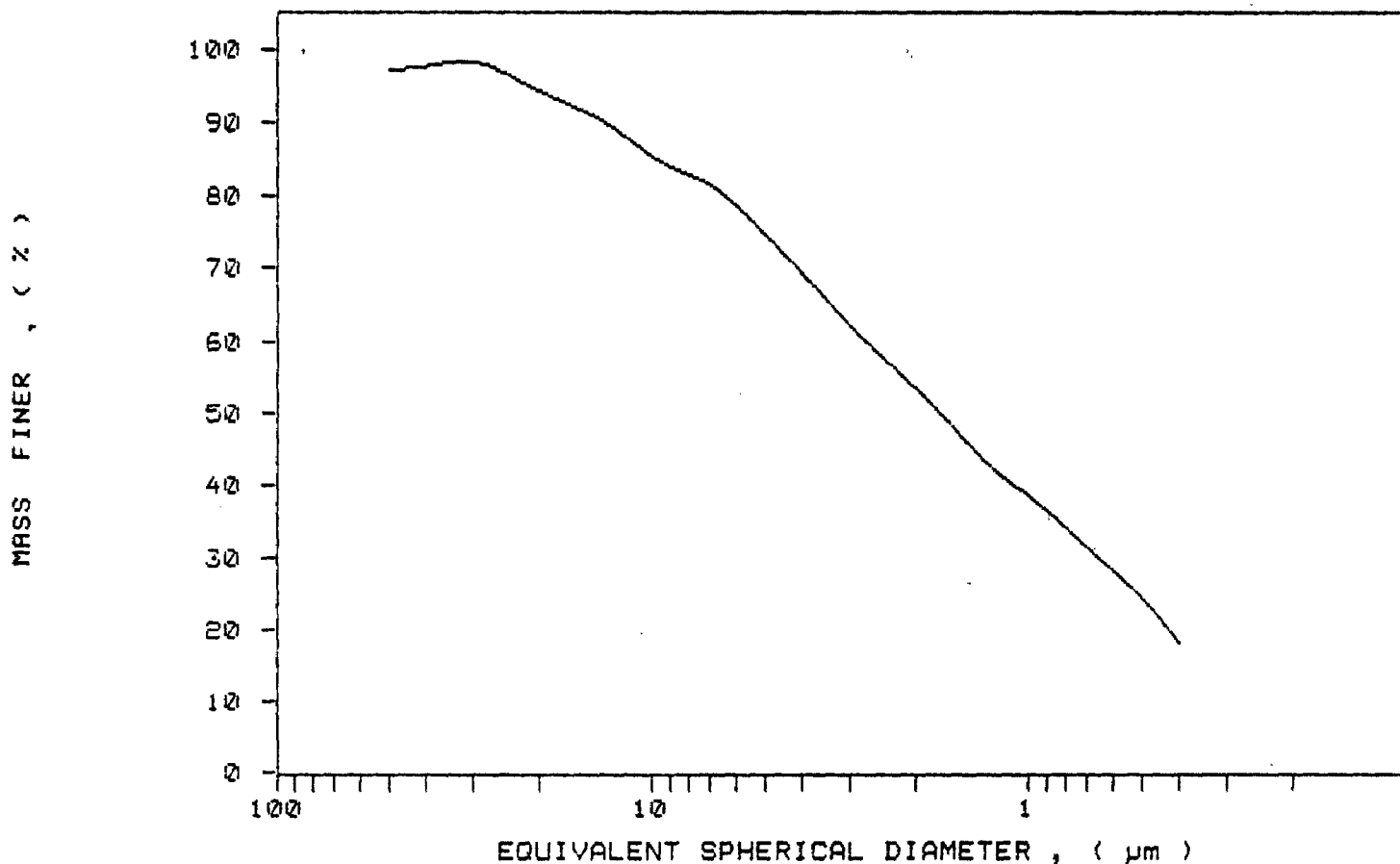
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	97.2	2.8
40.00	97.6	-0.4
30.00	98.1	-0.6
25.00	96.7	1.4
20.00	94.2	2.5
15.00	91.3	2.9
10.00	85.3	6.0
8.00	82.9	2.4
6.00	78.6	4.2
5.00	74.5	4.2
4.00	69.3	5.2
3.00	62.2	7.1
2.00	53.4	8.8
1.50	46.5	6.9
1.00	38.5	8.0
0.80	34.0	4.5
0.60	28.1	5.9
0.50	24.1	4.0
0.40	17.9	6.3



SAMPLE DIRECTORY/NUMBER: SECOND /51
SAMPLE ID: Hole 89-87 # 2830
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 15:49:00 11/13/89
REPRT 16:06:33 11/13/89
TOT RUN TIME 0:17:17
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9941 g/cc
LIQ VISC: 0.7206 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /54
 SAMPLE ID: Hole 89-87 # 2831
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 09:27:04 11/14/89
 REPR 09:44:19 11/14/89
 TOT RUN TIME 0:16:56
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7203 cp

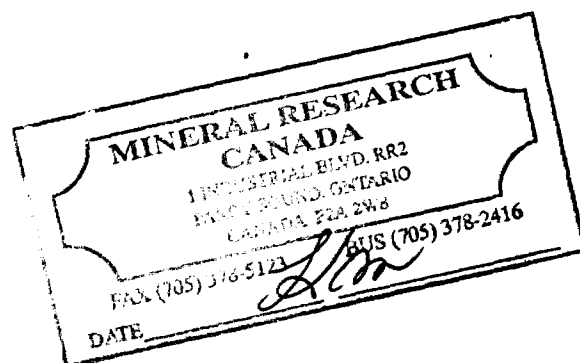
STARTING DIAMETER: 50.00 µm
 ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.92 µm MODAL DIAMETER: 3.72 µm

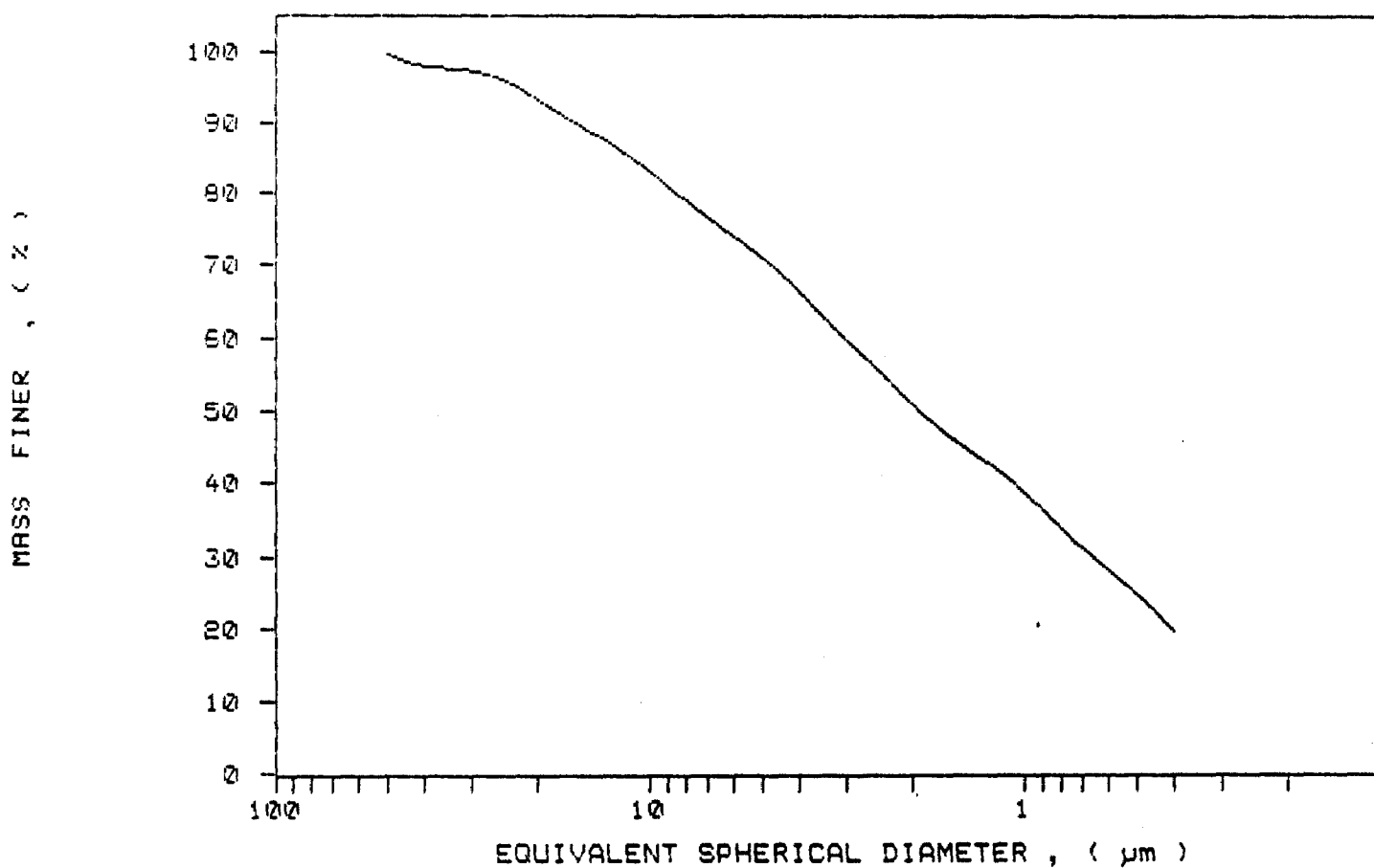
DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.6	0.4
40.00	97.9	1.7
30.00	97.2	0.7
25.00	96.0	1.2
20.00	93.2	2.8
15.00	89.2	4.0
10.00	83.0	6.3
8.00	78.9	4.0
6.00	74.1	4.8
5.00	71.0	3.1
4.00	66.3	4.7
3.00	59.7	6.6
2.00	50.9	8.8
1.50	45.6	5.4
1.00	38.6	6.9
0.80	33.7	4.9
0.60	28.1	5.6
0.50	24.6	3.6
0.40	19.6	5.0



SAMPLE DIRECTORY/NUMBER: SECOND /54
SAMPLE ID: Hole 89-87 # 2831
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 09:27:04 11/14/E
REPT 09:44:19 11/14/E
TOT RUN TIME 0:16:5
SAM DENS: 2.6500 g/c
LIQ DENS: 0.9940 g/c
LIQ VISC: 0.7203 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /55
 SAMPLE ID: Hole 89-87 # 2832
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 09:58:47 11/14/89
 REPT 10:16:40 11/14/89
 TOT RUN TIME 0:17:35
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7203 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.02 μ m MODAL DIAMETER: 0.40 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	94.5	5.5
40.00	96.6	-2.2
30.00	96.6	0.0
25.00	94.7	1.9
20.00	92.7	2.0
15.00	91.3	1.5
10.00	85.3	6.0
8.00	82.7	2.6
6.00	78.7	4.1
5.00	75.9	2.7
4.00	72.5	3.4
3.00	67.7	4.8
2.00	61.0	6.7
1.50	55.6	5.4
1.00	49.6	6.0
0.80	44.7	4.9
0.60	39.0	5.6
0.50	34.7	4.4
0.40	27.8	6.8

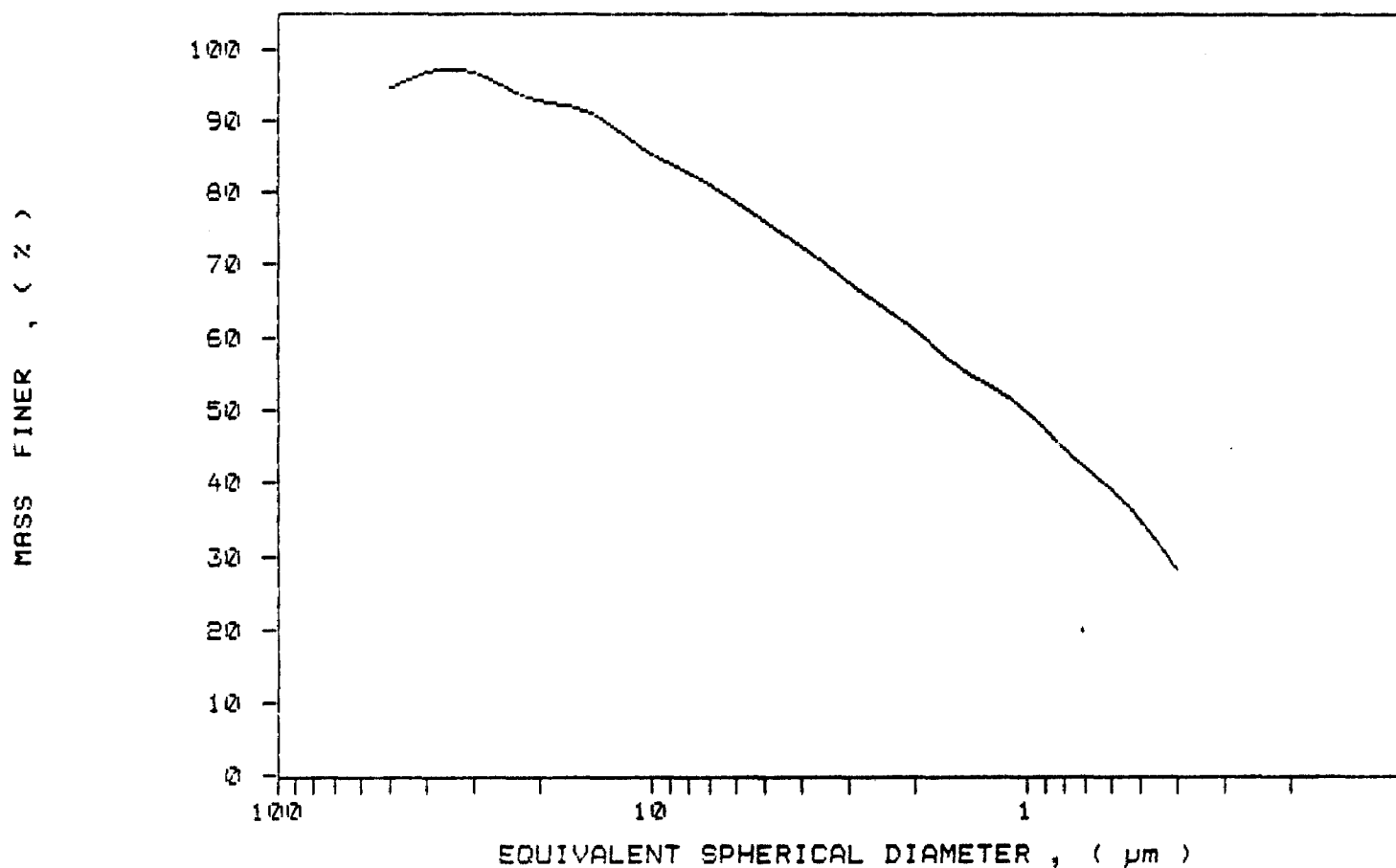


SAMPLE DIRECTORY/NUMBER: SECOND /55
SAMPLE ID: Hole 89-87 # 2832
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C

RUN TYPE: Standard

UNIT NUMBER: 1
START 09:58:47 11/14/89
REPT 10:16:40 11/14/89
TOT RUN TIME 0:17:35
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7203 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /56
 SAMPLE ID: Hole 89-87 # 2833
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:29:47 11/14/89
 REPT 10:47:37 11/14/89
 TOT RUN TIME 0:17:32
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7203 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.19 μ m

MODAL DIAMETER: 0.59 μ m

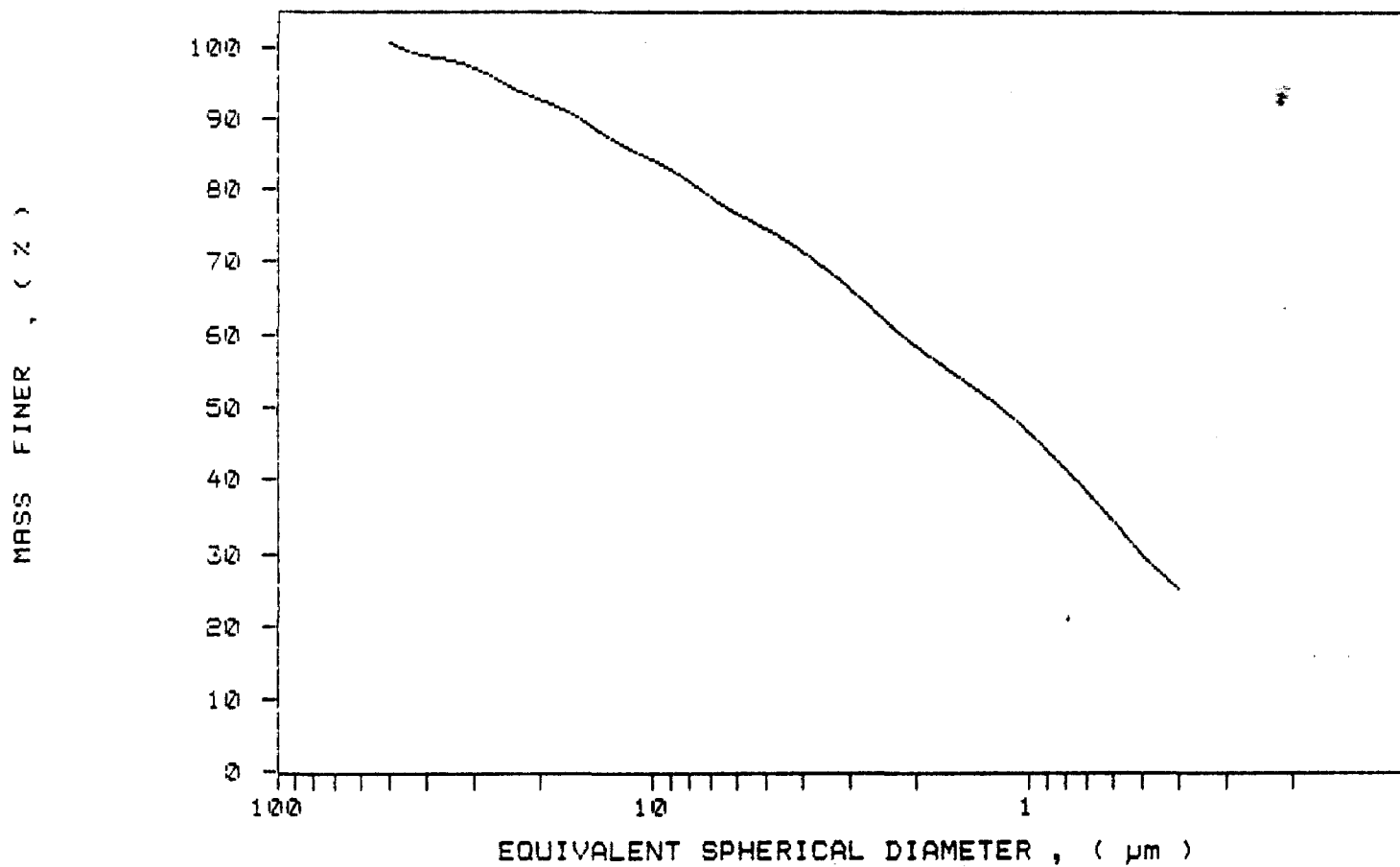
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	100.7	-0.7
40.00	98.7	1.9
30.00	97.1	1.6
25.00	94.9	2.2
20.00	92.7	2.3
15.00	89.4	3.3
10.00	84.1	5.2
8.00	81.1	3.1
6.00	76.8	4.3
5.00	74.6	2.1
4.00	71.5	3.2
3.00	66.3	5.2
2.00	58.5	7.8
1.50	53.8	4.6
1.00	46.6	7.2
0.80	41.4	5.2
0.60	34.4	7.0
0.50	29.8	4.6
0.40	25.2	4.6



SAMPLE DIRECTORY/NUMBER: SECOND /56
SAMPLE ID: Hole 89-87 # 2833
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 10:29:47 11/14/89
REPRT 10:47:37 11/14/89
TOT RUN TIME 0:17:32
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7203 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /57
 SAMPLE ID: Hole 89-87 # 2834
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 11:00:18 11/14/89
 REPT 11:18:07 11/14/89
 TOT RUN TIME 0:17:32
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7203 cp

STARTING DIAMETER: 50.00 μm
 ENDING DIAMETER: 0.40 μm

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.59 μm

MODAL DIAMETER: 0.40 μm

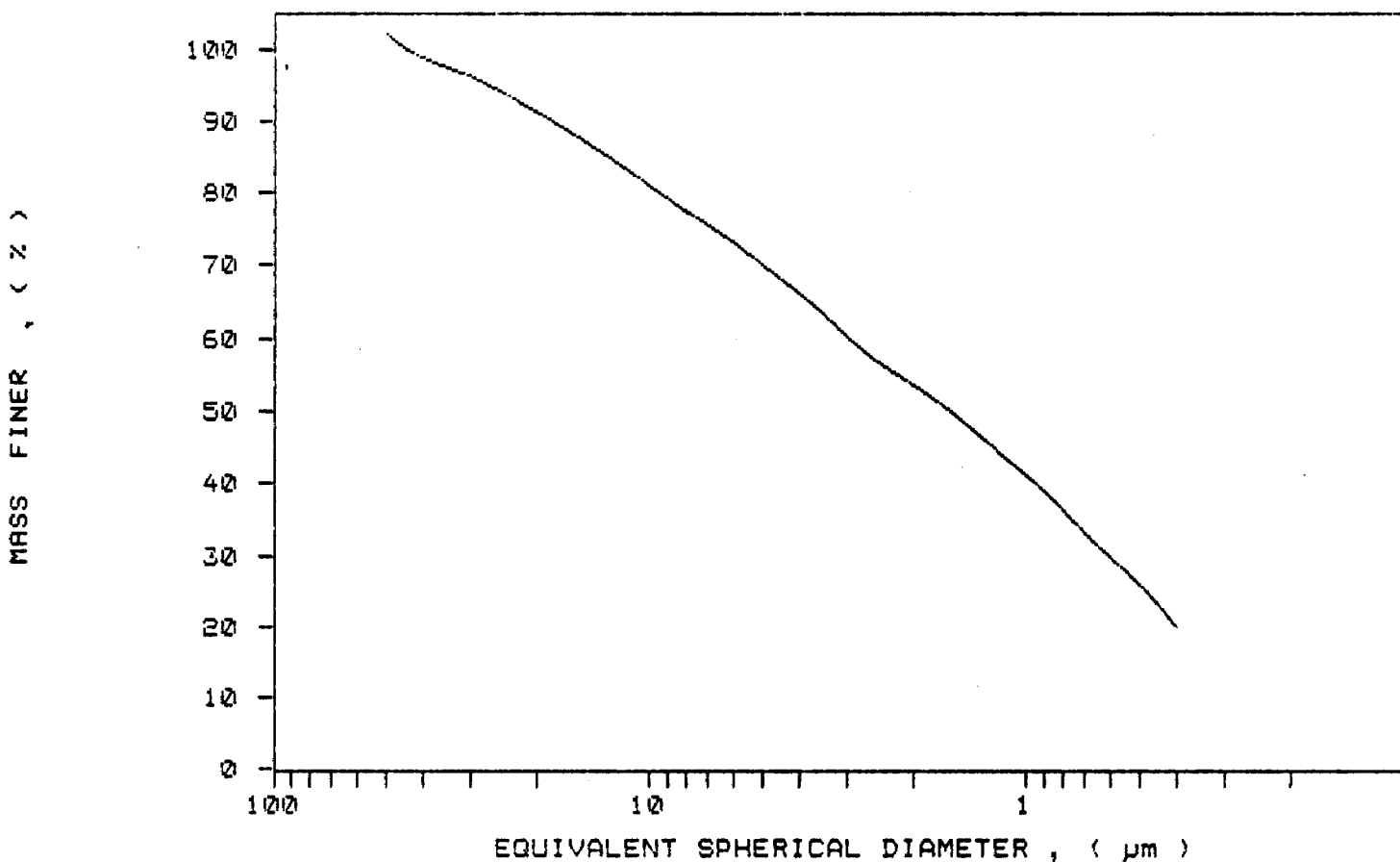
DIAMETER (μm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	101.9	-1.9
40.00	98.7	3.2
30.00	96.2	2.6
25.00	94.1	2.0
20.00	91.2	2.9
15.00	87.3	3.9
10.00	80.9	6.4
8.00	77.4	3.5
6.00	73.1	4.3
5.00	70.0	3.2
4.00	66.1	3.9
3.00	60.3	5.8
2.00	53.6	6.7
1.50	48.9	4.6
1.00	41.1	7.9
0.80	36.2	4.9
0.60	29.7	6.5
0.50	25.8	3.9
0.40	19.8	6.0



SAMPLE DIRECTORY/NUMBER: SECOND /57
SAMPLE ID: Hole 89-87 # 2834
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 11:00:18 11/14/89
REPT 11:18:07 11/14/89
TOT RUN TIME 0:17:32
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7203 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /58
 SAMPLE ID: Hole 89-87 # 2835
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 11:34:28 11/14/89
 REPR 11:52:16 11/14/89
 TOT RUN TIME @:17:31
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7202 cp

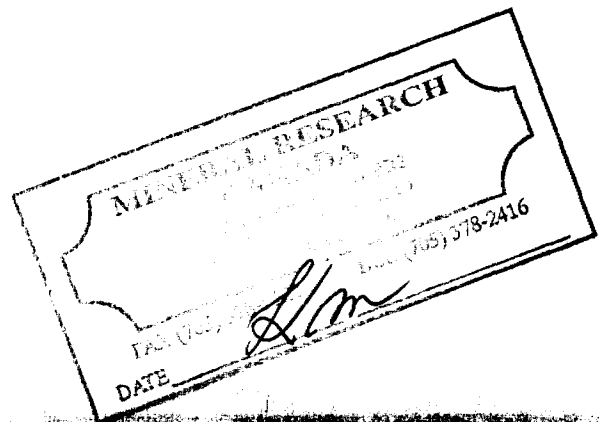
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.79 μ m MODAL DIAMETER: 0.40 μ m

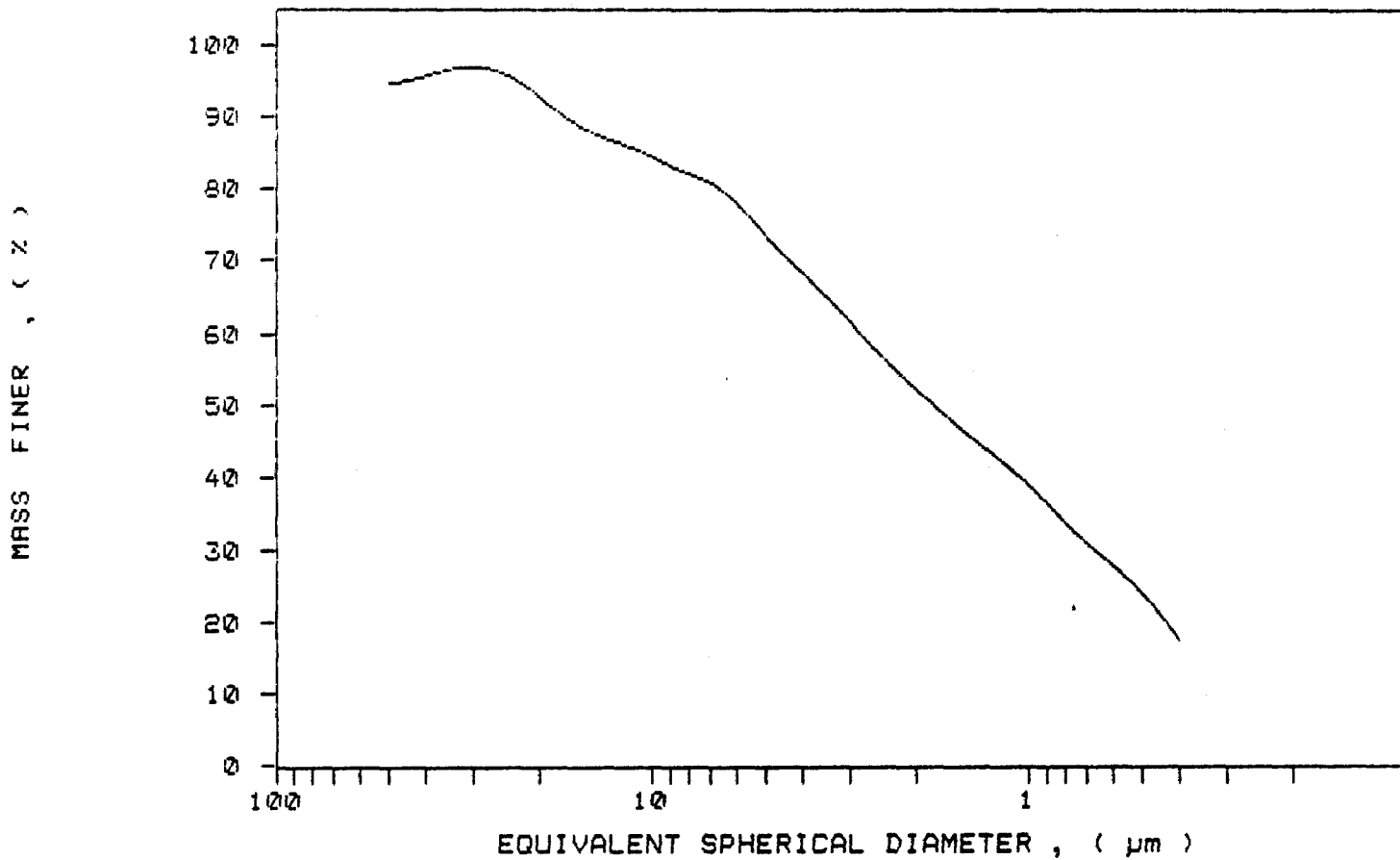
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	94.5	5.5
40.00	95.5	-1.0
30.00	96.8	-1.3
25.00	95.9	0.9
20.00	92.7	3.3
15.00	88.2	4.5
10.00	84.4	3.8
8.00	82.1	2.4
6.00	78.1	4.0
5.00	73.5	4.6
4.00	68.4	5.1
3.00	61.8	6.5
2.00	52.3	9.5
1.50	46.5	5.8
1.00	39.0	7.5
0.80	33.6	5.4
0.60	27.7	5.9
0.50	23.8	3.9
0.40	17.4	6.4



SAMPLE DIRECTORY/NUMBER: SECOND /58
SAMPLE ID: Hole 89-87 # 2835
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 11:34:28 11/14/89
REPT 11:52:16 11/14/89
TOT RUN TIME 0:17:31
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7202 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /59
 SAMPLE ID: Hole 89-87 # 2836
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 12:04:22 11/14/89
 REPRT 12:22:10 11/14/89
 TOT RUN TIME 0:17:30
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7203 cp

STARTING DIAMETER: 50.00 µm
 ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.80 µm MODAL DIAMETER: 1.92 µm

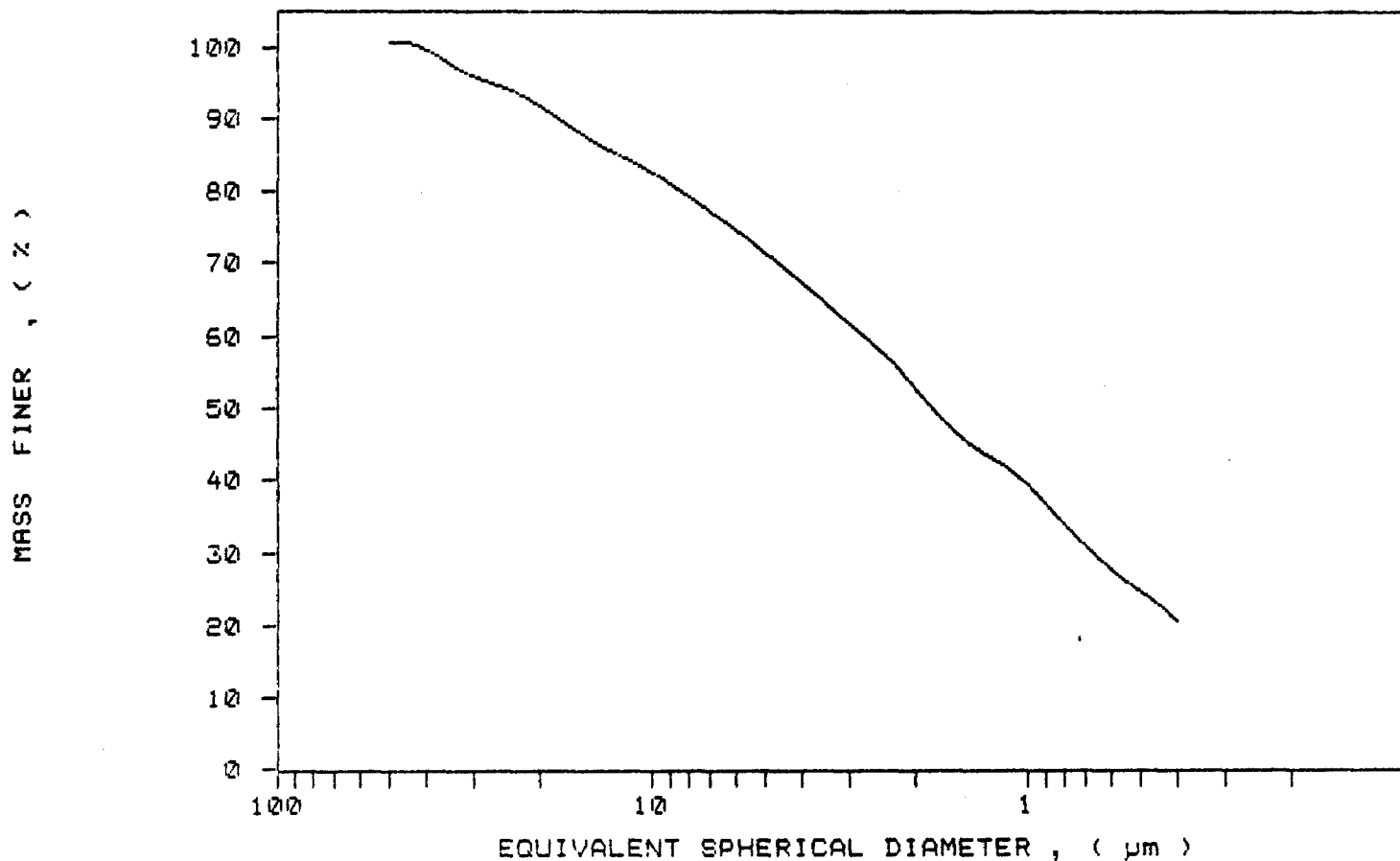
DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	100.7	-0.7
40.00	99.5	1.2
30.00	95.8	3.7
25.00	94.3	1.5
20.00	91.7	2.6
15.00	87.5	4.2
10.00	82.6	4.9
8.00	79.3	3.3
6.00	74.7	4.7
5.00	71.4	3.2
4.00	67.3	4.1
3.00	61.7	5.6
2.00	52.8	8.9
1.50	45.9	6.9
1.00	39.2	6.7
0.80	33.9	5.4
0.60	27.6	6.3
0.50	24.6	3.0
0.40	20.5	4.1



SAMPLE DIRECTORY/NUMBER: SECOND /59
SAMPLE ID: Hole 89-87 # 2836
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 12:04:22 11/14/89
REPRT 12:22:10 11/14/89
TOT RUN TIME 0:17:30
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7203 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /60
 SAMPLE ID: Hole 89-87 # 0837
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 13:03:18 11/14/89
 REPT 13:21:07 11/14/89
 TOT RUN TIME 0:17:32
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7203 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

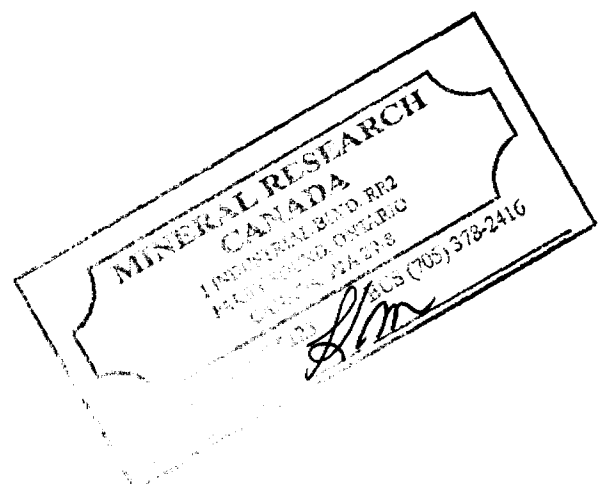
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.59 μ m

MODAL DIAMETER: 0.74 μ m

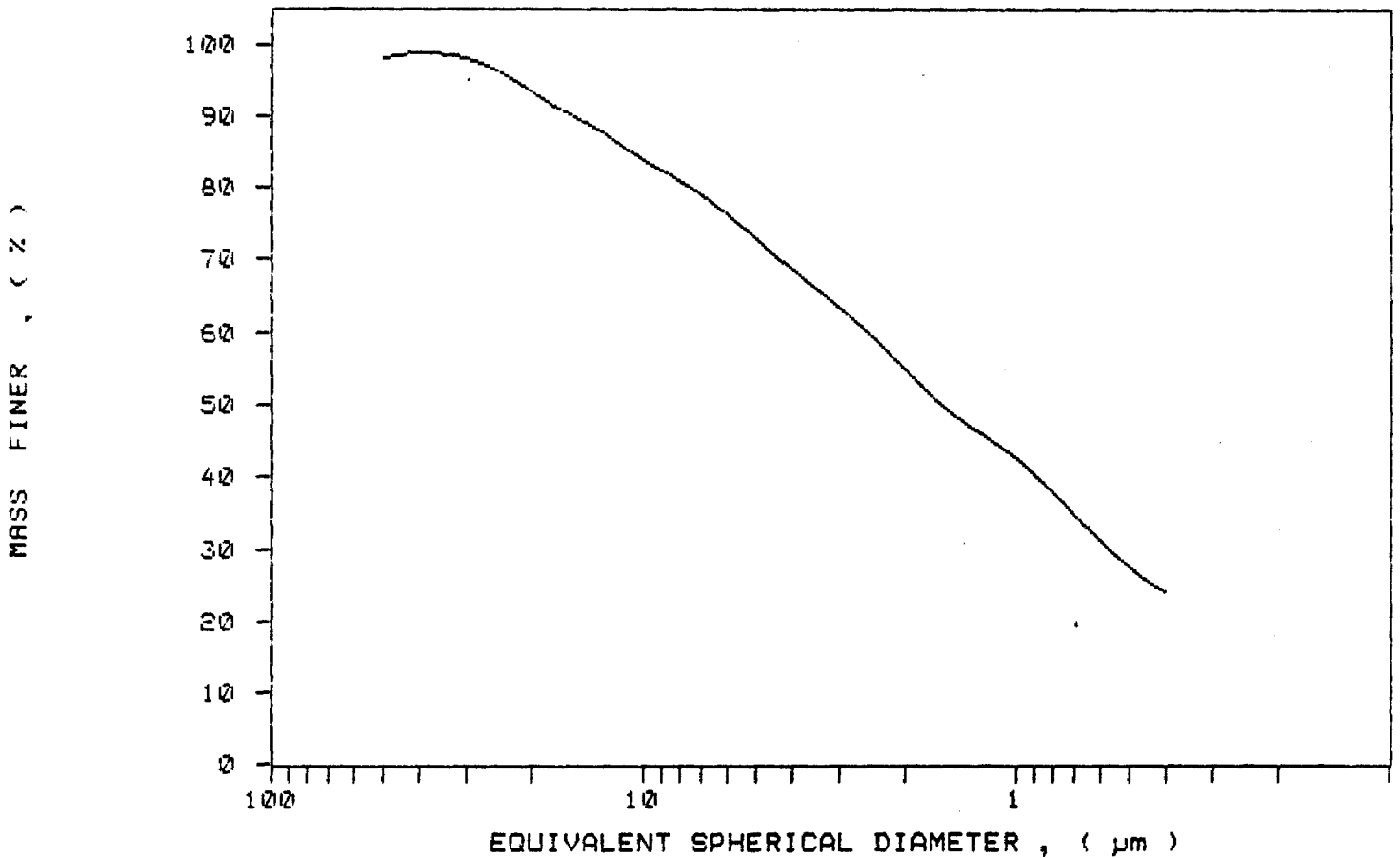
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.0	2.0
40.00	98.7	-0.7
30.00	98.0	0.7
25.00	96.4	1.6
20.00	93.4	3.1
15.00	89.7	3.7
10.00	83.9	5.8
8.00	81.0	2.9
6.00	76.3	4.6
5.00	72.9	3.5
4.00	68.7	4.2
3.00	63.6	5.1
2.00	55.0	8.6
1.50	48.9	6.1
1.00	42.5	6.4
0.80	37.8	4.7
0.60	31.1	6.7
0.50	27.5	3.7
0.40	24.1	3.4



SAMPLE DIRECTORY/NUMBER: SECOND /60
SAMPLE ID: Hole 89-87 # 0837
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 13:03:18 11/14/89
REPRT 13:21:07 11/14/89
TOT RUN TIME 0:17:32
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7203 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /61
 SAMPLE ID: Hole 89-87 # 2838
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 13:39:52 11/14/89
 REPT 13:51:43 11/14/89
 TOT RUN TIME 0:17:39
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7202 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.00 μ m

MODAL DIAMETER: 0.40 μ m

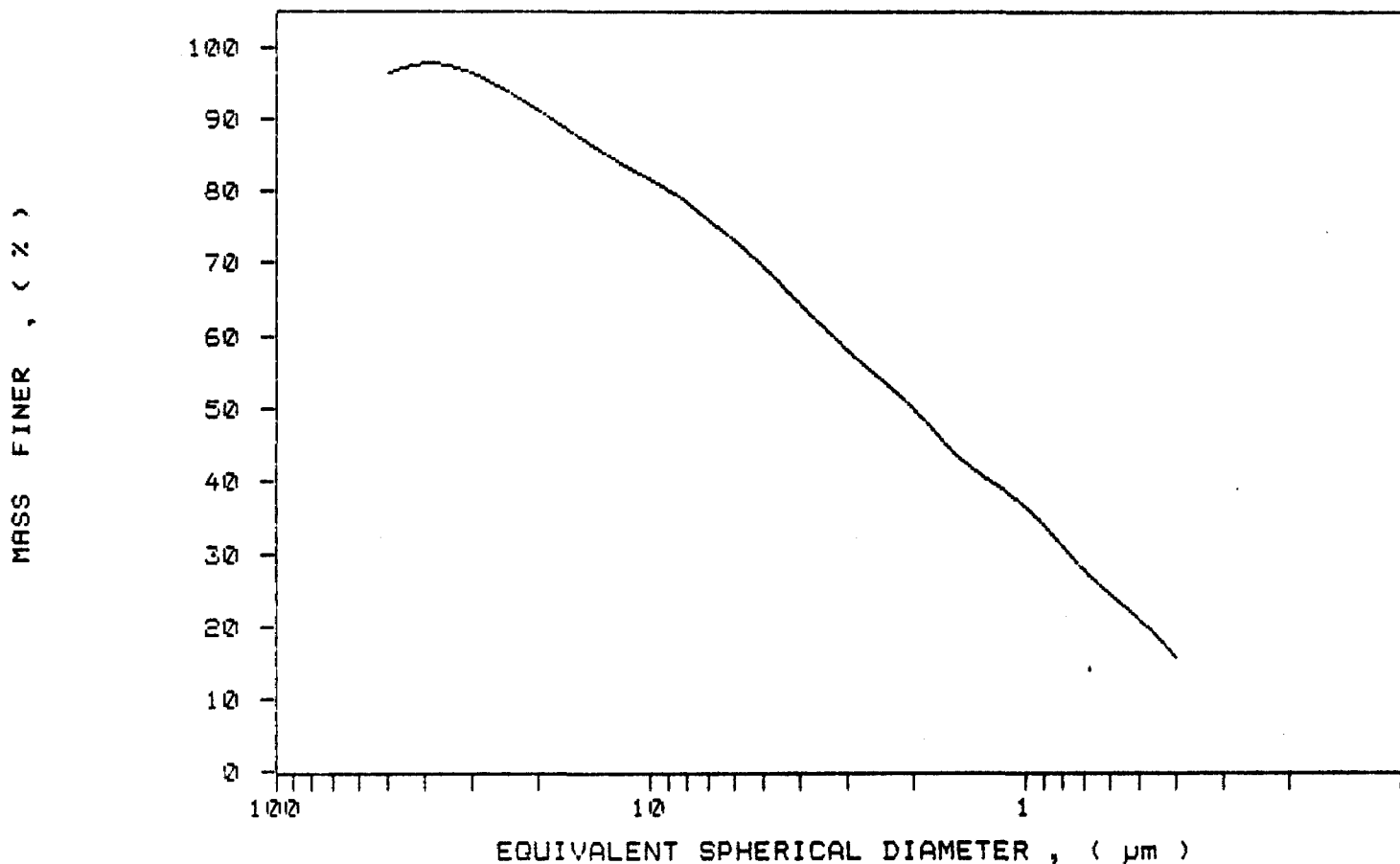
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	96.3	3.7
40.00	97.6	-1.3
30.00	96.3	1.4
25.00	94.2	2.0
20.00	91.2	3.0
15.00	87.0	4.2
10.00	81.6	5.4
8.00	78.4	3.2
6.00	73.2	5.3
5.00	69.5	3.7
4.00	64.4	5.1
3.00	58.0	6.4
2.00	50.0	8.1
1.50	43.2	6.7
1.00	36.4	6.9
0.80	30.9	5.5
0.60	24.4	6.5
0.50	20.9	3.5
0.40	15.6	5.3



SAMPLE DIRECTORY/NUMBER: SECOND /61
SAMPLE ID: Hole 89-87 # 2838
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 13:33:52 11/14/89
REPT 13:51:43 11/14/89
TOT RUN TIME 0:17:33
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7202 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /62
 SAMPLE ID: Hole 89-87 # 2839
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 14:04:07 11/14/89
 REPRT 14:21:54 11/14/89
 TOT RUN TIME 0:17:28
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7202 cp

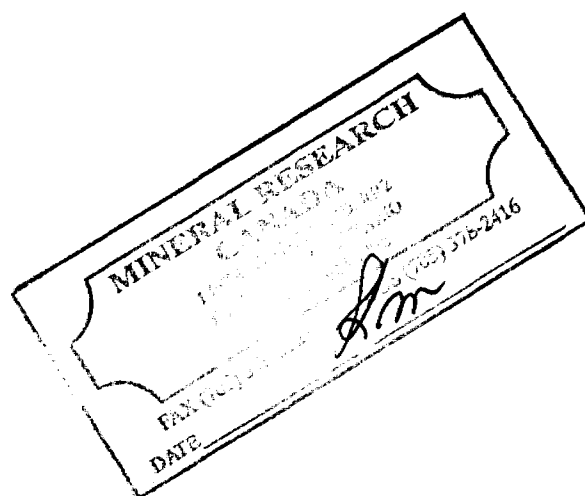
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.12 μ m MODAL DIAMETER: 0.40 μ m

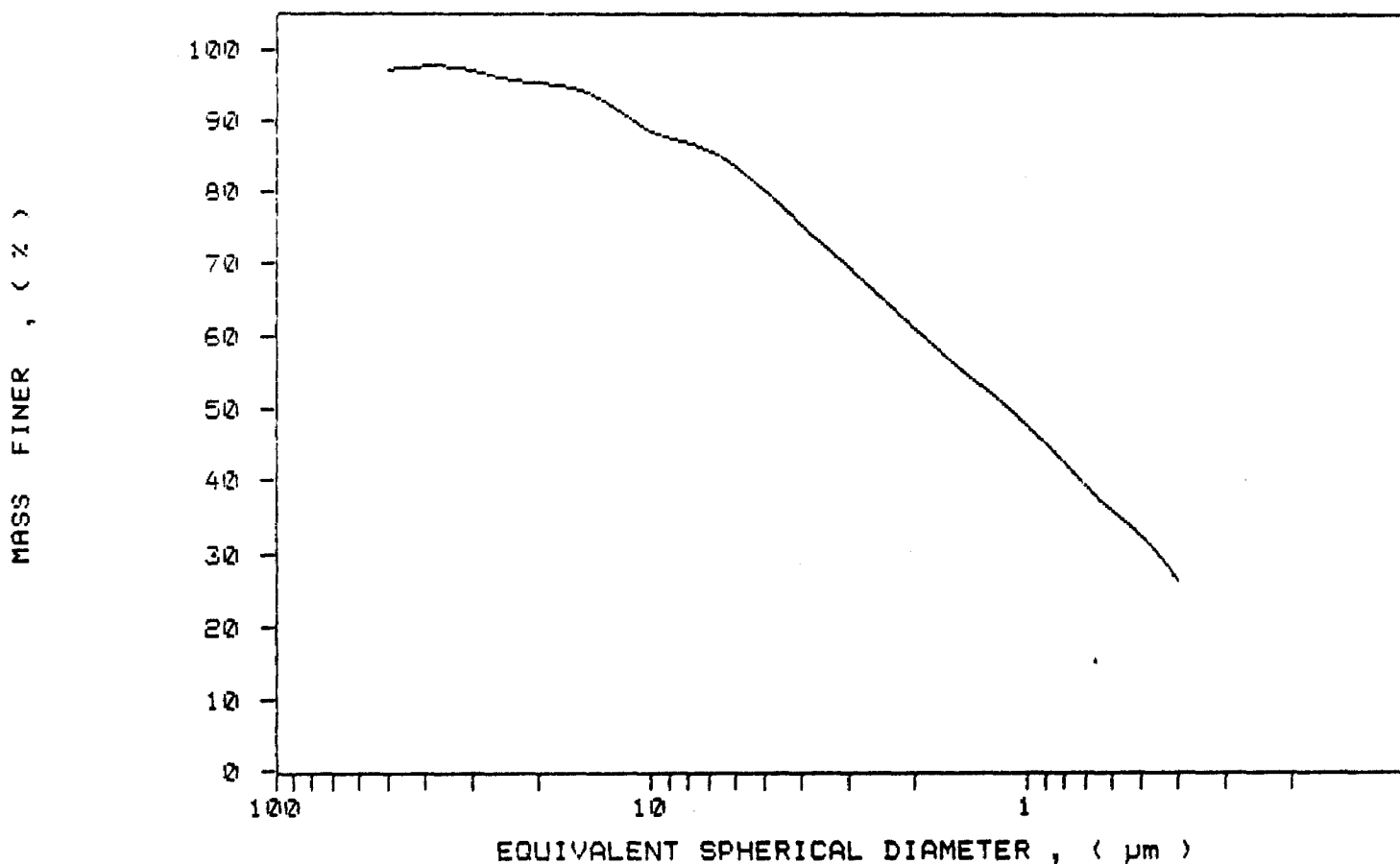
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	97.2	2.8
40.00	97.6	-0.4
30.00	97.0	0.6
25.00	95.9	1.1
20.00	95.2	0.7
15.00	93.9	1.3
10.00	88.5	5.4
8.00	86.9	1.6
6.00	83.6	3.3
5.00	80.2	3.4
4.00	75.5	4.7
3.00	69.7	5.8
2.00	61.1	8.6
1.50	55.2	5.8
1.00	47.6	7.7
0.80	42.8	5.3
0.60	35.9	6.4
0.50	32.8	3.6
0.40	26.2	6.1



SAMPLE DIRECTORY/NUMBER: SECOND /62
SAMPLE ID: Hole 89-87 # 2839
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 14:04:07 11/14/89
REPT 14:21:54 11/14/89
TOT RUN TIME 0:17:28
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7202 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /63
 SAMPLE ID: Hole 89-87 # 2840
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina Kaolin
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 14:36:55 11/14/89
 REPRT 14:54:45 11/14/89
 TOT RUN TIME 0:17:31
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7202 cp

STARTING DIAMETER: 50.00 μ m REYNOLDS NUMBER: 0.22
 ENDING DIAMETER: 0.40 μ m FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.56 μ m MODAL DIAMETER: 0.70 μ m

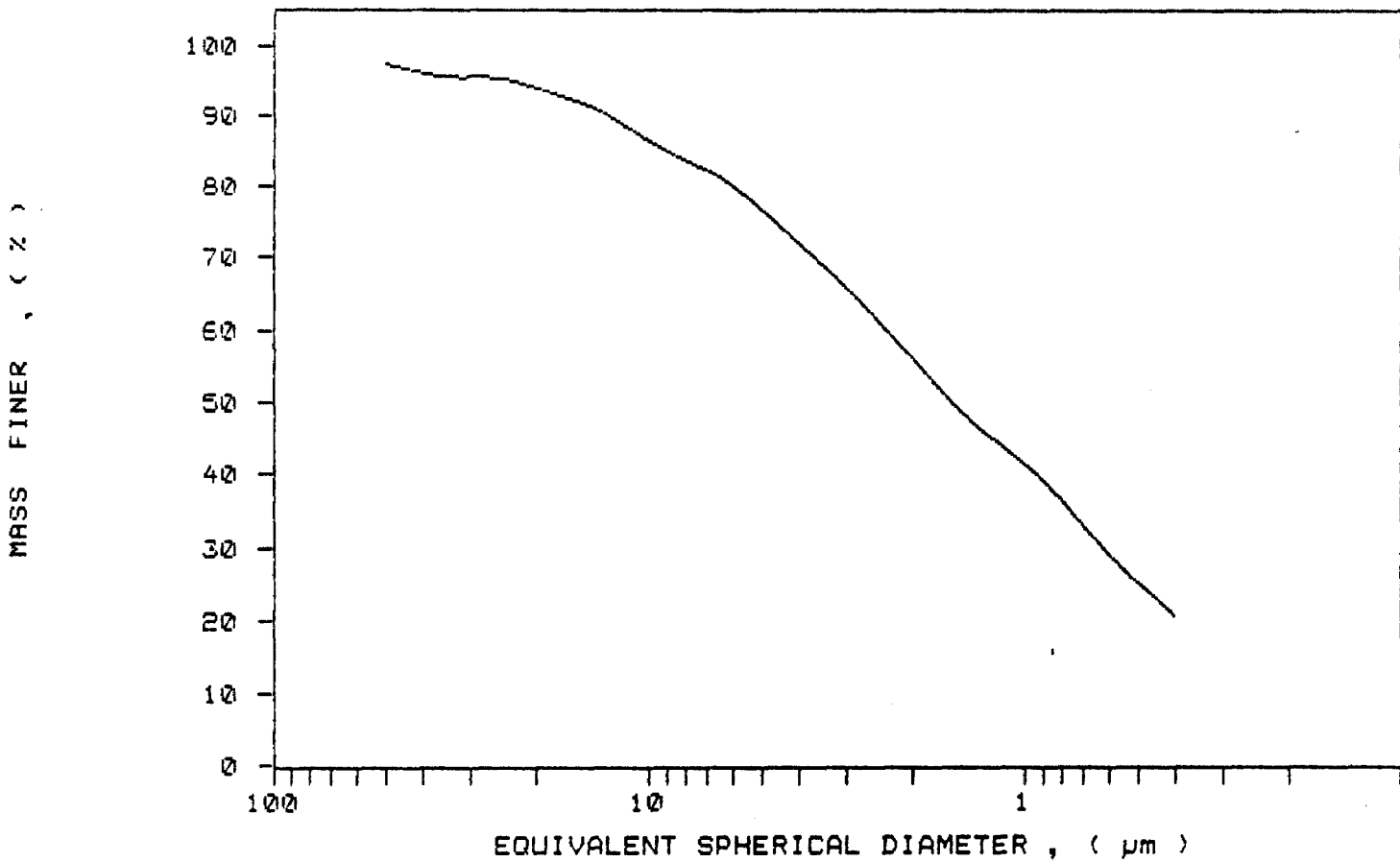
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	97.3	2.7
40.00	96.1	1.3
30.00	95.5	0.6
25.00	95.3	0.1
20.00	93.9	1.4
15.00	91.7	2.2
10.00	86.4	5.3
8.00	83.8	2.6
6.00	80.1	3.7
5.00	76.7	3.4
4.00	72.1	4.6
3.00	65.9	6.2
2.00	56.3	9.7
1.50	49.1	7.1
1.00	41.5	7.7
0.80	36.6	4.8
0.60	29.2	7.4
0.50	25.2	3.9
0.40	20.8	4.5



SAMPLE DIRECTORY/NUMBER: SECOND /63
SAMPLE ID: HoLe 89-87 # 2840
SUBMITTER: James Bay Co.
OPERATOR: Kaarina Kaolin
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 14:36:55 11/14/89
REPT 14:54:45 11/14/89
TOT RUN TIME 0:17:31
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7202 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /71
 SAMPLE ID: Hole 89-87 # 2841
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:09:53 11/15/89
 REPT 10:27:09 11/15/89
 TOT RUN TIME 0:16:57
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7204 cp

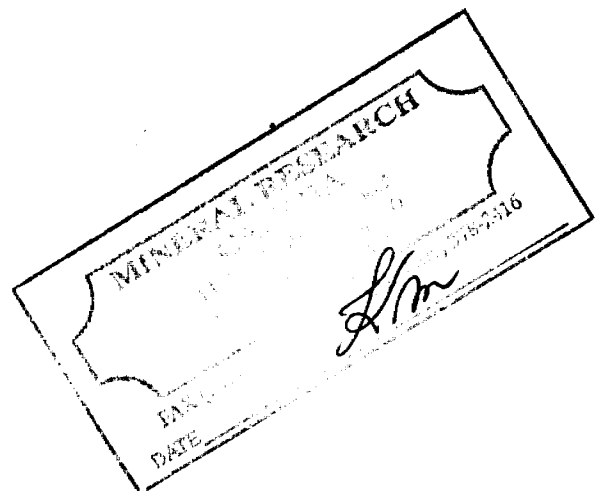
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.30 μ m MODAL DIAMETER: 0.42 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	96.9	3.1
40.00	97.3	-0.3
30.00	96.6	0.6
25.00	95.0	1.6
20.00	92.9	2.1
15.00	90.3	2.6
10.00	84.5	5.8
8.00	80.3	4.2
6.00	75.4	4.9
5.00	72.6	2.8
4.00	68.9	3.7
3.00	63.7	5.2
2.00	56.3	7.4
1.50	52.2	4.1
1.00	45.5	6.6
0.80	41.7	3.9
0.60	36.8	4.9
0.50	33.2	3.6
0.40	28.4	4.8

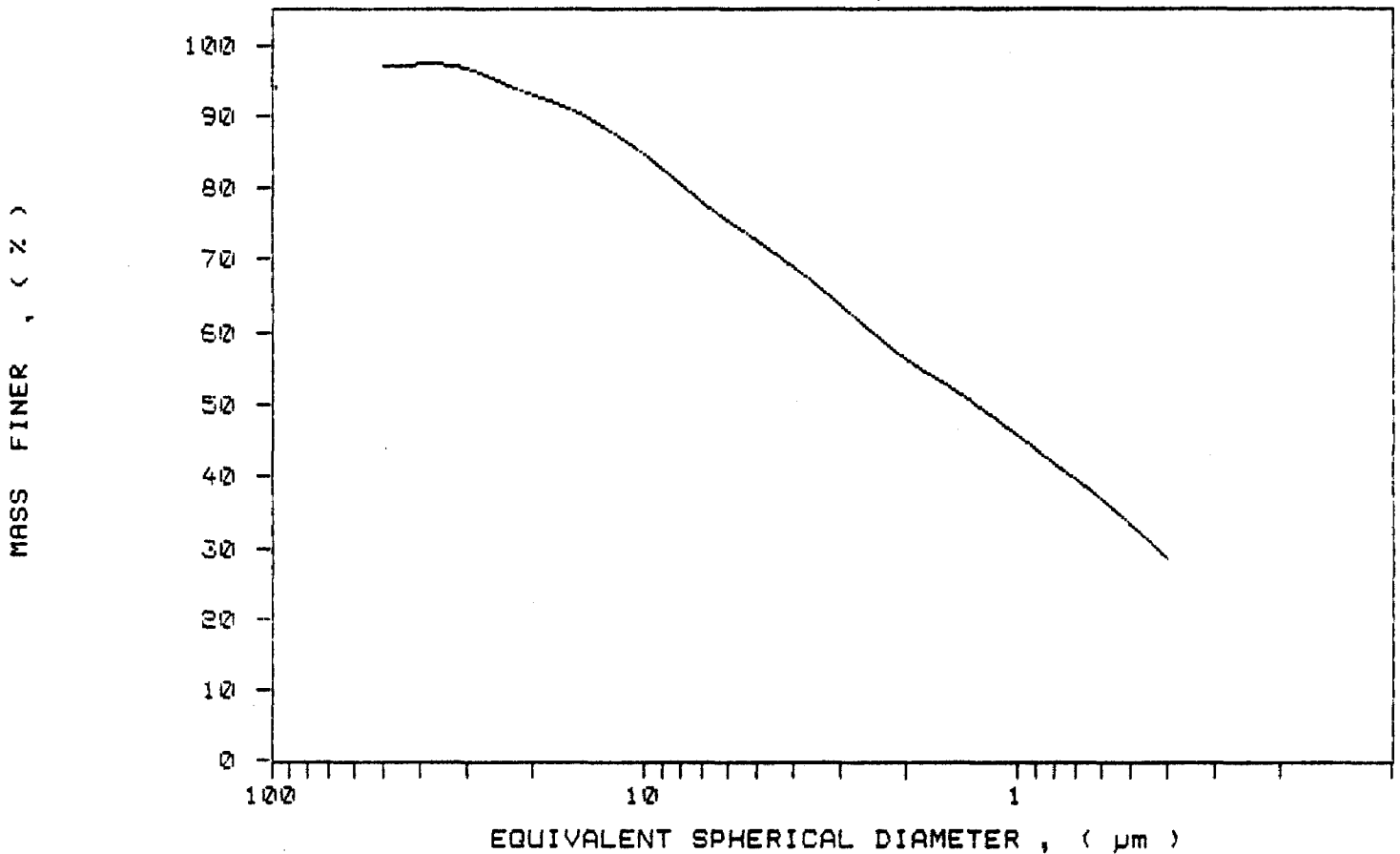


SAMPLE DIRECTORY/NUMBER: SECOND /71
SAMPLE ID: Hole 89-87 # 2841
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.1 deg C

RUN TYPE: Standard

UNIT NUMBER: 1
START 10:09:53 11/15/89
REPT 10:27:09 11/15/89
TOT RUN TIME 0:16:57
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7204 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /72
 SAMPLE ID: Hole 89-87 # 2842
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:40:04 11/15/89
 REPT 10:57:19 11/15/89
 TOT RUN TIME 0:16:55
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7203 cp

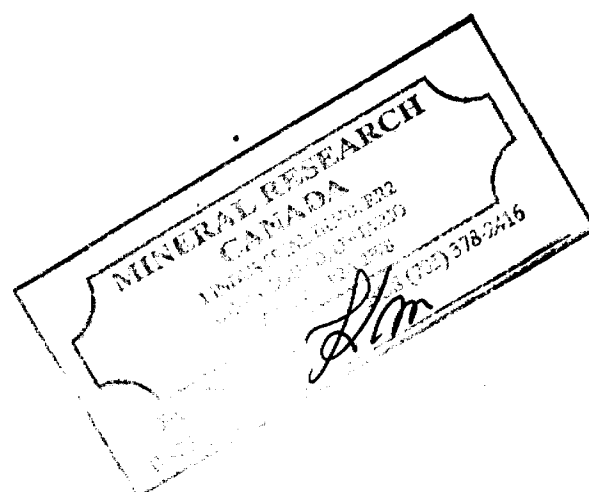
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.95 μ m MODAL DIAMETER: 21.06 μ m

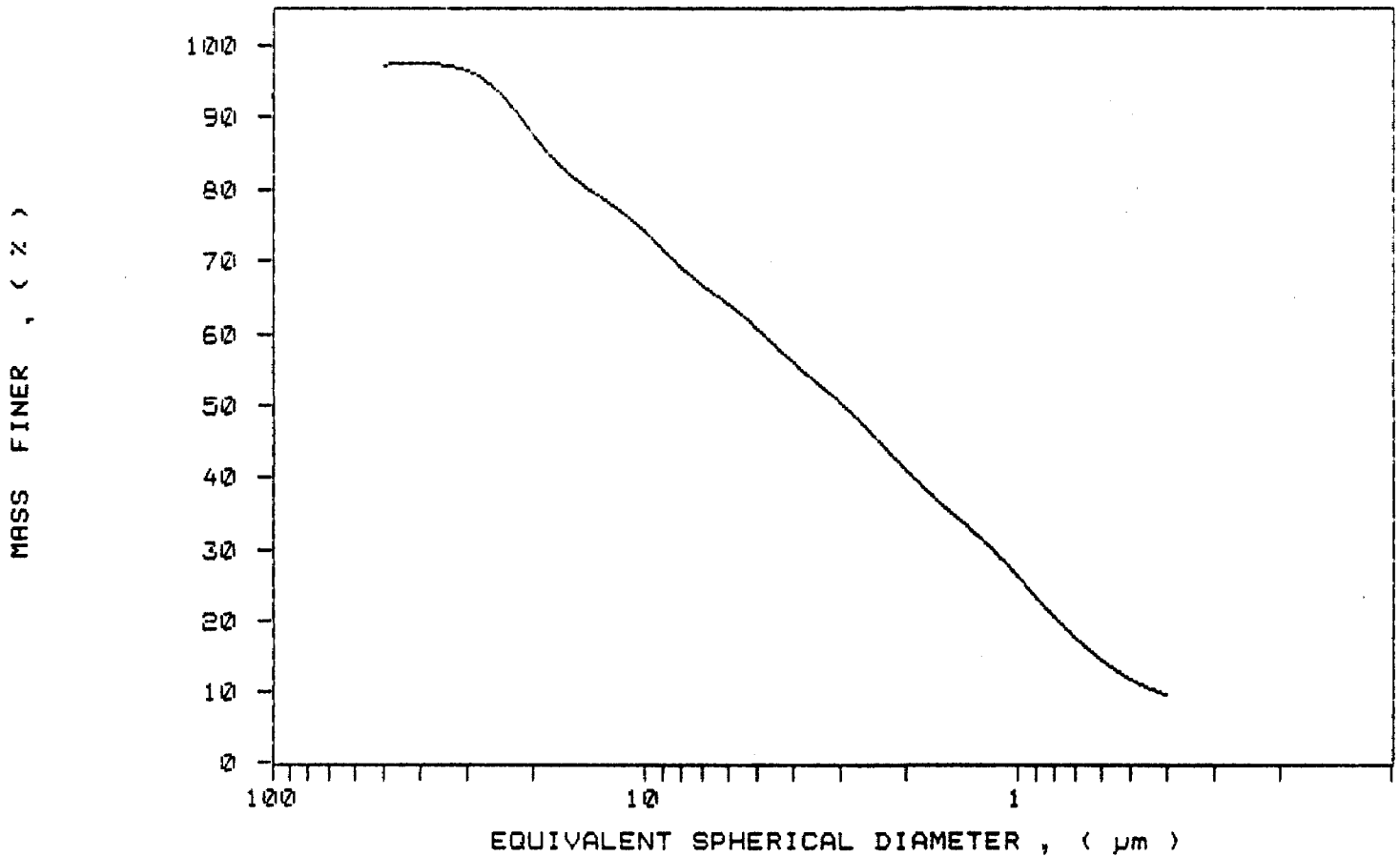
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	97.1	2.9
40.00	97.5	-0.4
30.00	96.3	1.2
25.00	93.5	2.8
20.00	87.5	6.0
15.00	81.0	6.5
10.00	74.1	7.0
8.00	69.1	5.0
6.00	64.1	5.0
5.00	60.6	3.5
4.00	56.0	4.7
3.00	50.3	5.6
2.00	40.9	9.4
1.50	34.9	6.0
1.00	25.9	9.0
0.80	20.4	5.5
0.60	14.5	5.9
0.50	11.6	2.7
0.40	9.6	2.2



SAMPLE DIRECTORY/NUMBER: SECOND /72
SAMPLE ID: Hole 89-87 # 2842
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 10:40:04 11/15/89
REPRT 10:57:19 11/15/89
TOT RUN TIME 0:16:55
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7203 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /73
 SAMPLE ID: Hole 89-87 # 2843
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 13:02:15 11/15/89
 REPRT 13:19:32 11/15/89
 TOT RUN TIME 0:16:58
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7203 cp

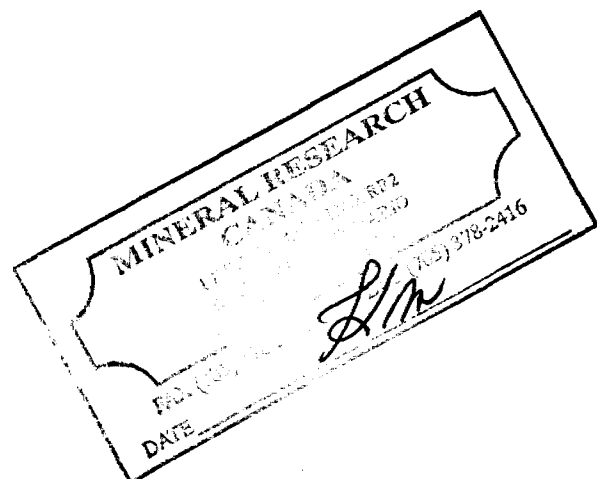
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.63 μ m MODAL DIAMETER: 0.66 μ m

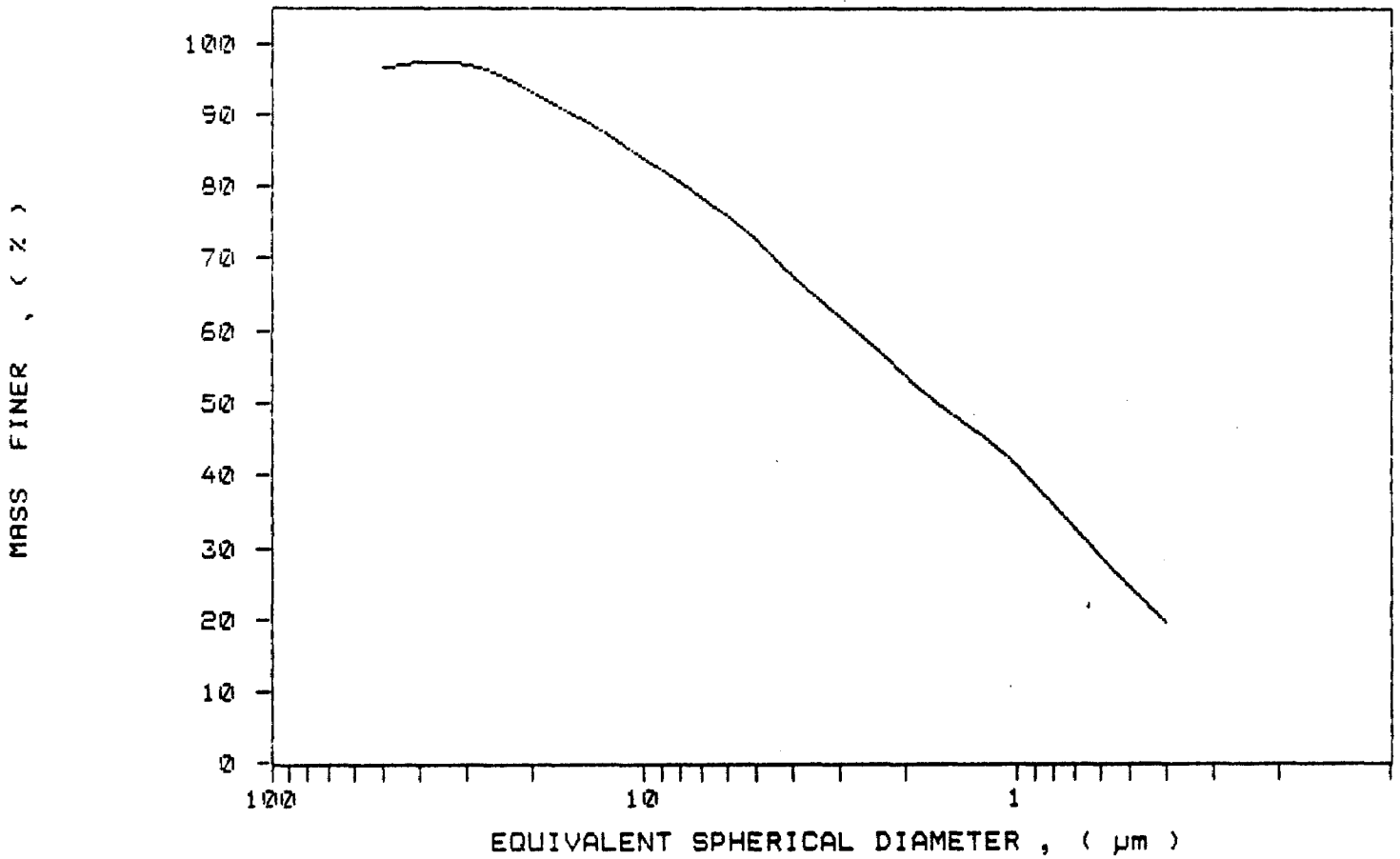
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	96.6	3.4
40.00	97.4	-0.7
30.00	97.1	0.3
25.00	95.8	1.3
20.00	93.1	2.7
15.00	89.6	3.6
10.00	83.8	5.7
8.00	80.5	3.3
6.00	76.0	4.6
5.00	72.5	3.4
4.00	67.6	4.9
3.00	62.0	5.6
2.00	53.9	8.1
1.50	48.6	5.3
1.00	41.2	7.4
0.80	35.9	5.3
0.60	28.8	7.1
0.50	24.5	4.3
0.40	19.5	5.0



SAMPLE DIRECTORY/NUMBER: SECOND /73
SAMPLE ID: Hole 89-87 # 2843
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 13:02:15 11/15/89
REPRT 13:19:32 11/15/89
TOT RUN TIME 0:16:58
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7203 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /77
 SAMPLE ID: Hole 89-87 # 2844
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 13:32:26 11/15/89
 REPT 13:49:40 11/15/89
 TOT RUN TIME @:16:55
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7202 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

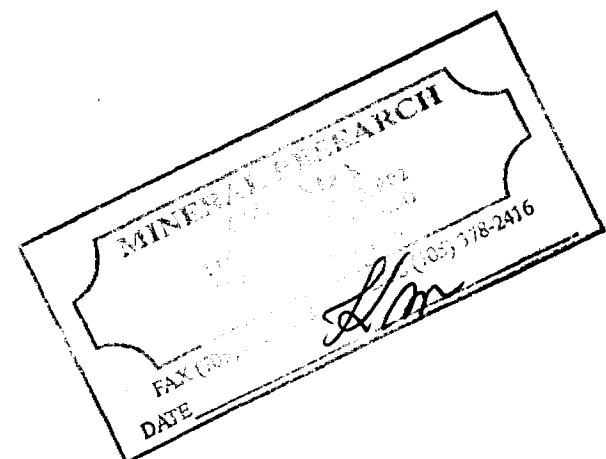
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.19 μ m

MODAL DIAMETER: 0.40 μ m

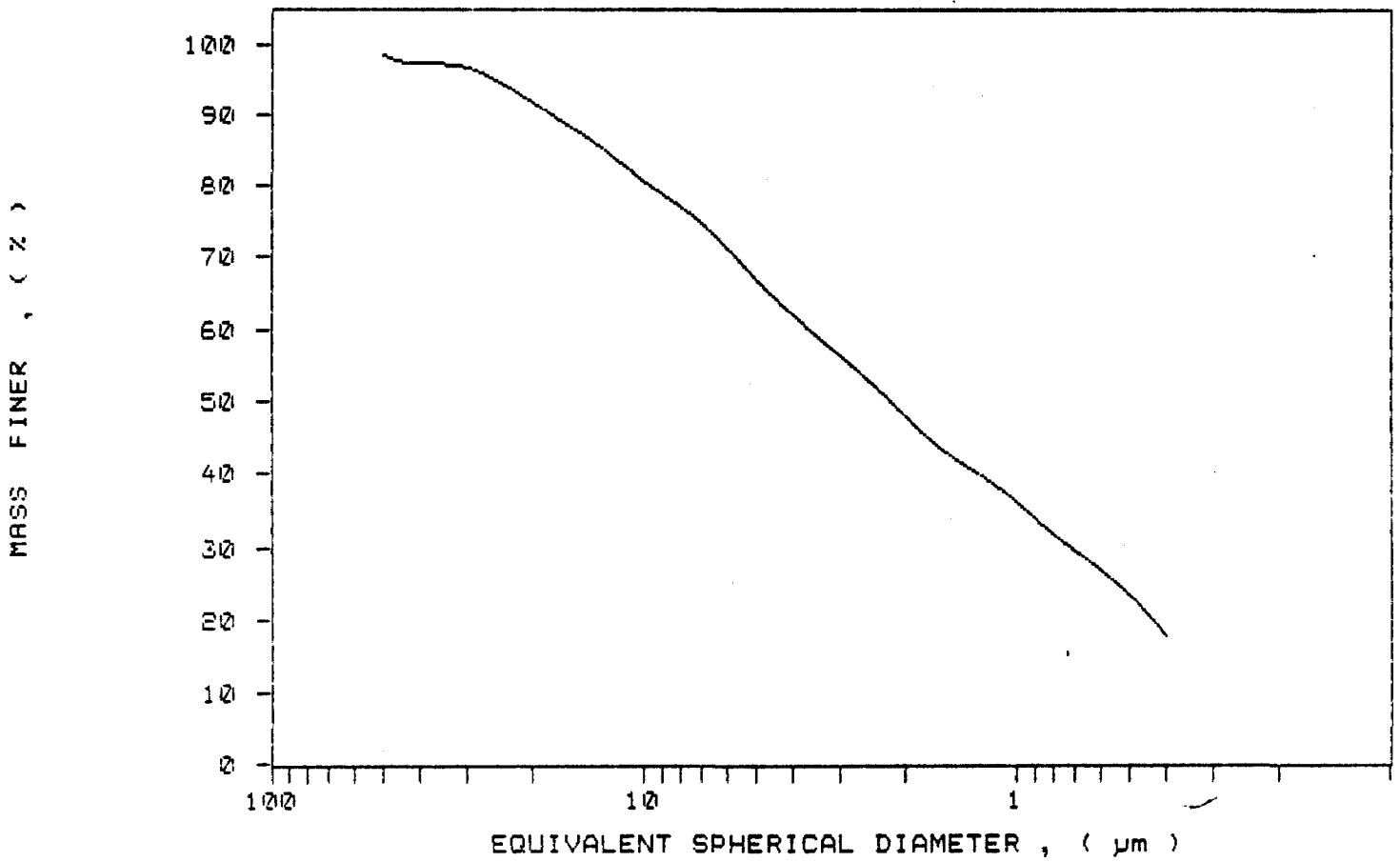
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.4	1.6
40.00	97.3	1.1
30.00	96.7	0.6
25.00	94.9	1.8
20.00	91.8	3.1
15.00	87.5	4.3
10.00	80.6	6.9
8.00	77.0	3.6
6.00	71.3	5.7
5.00	66.9	4.5
4.00	62.0	4.9
3.00	56.5	5.5
2.00	49.0	8.5
1.50	42.4	5.6
1.00	35.9	6.4
0.80	31.7	4.2
0.60	26.9	4.9
0.50	23.3	3.6
0.40	17.7	5.6



SAMPLE DIRECTORY/NUMBER: SECOND /77
SAMPLE ID: Hole 89-87 # 2844
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 13:32:26 11/15/89
REPRT 13:49:40 11/15/89
TOT RUN TIME 0:16:55
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7202 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SediGraph 5100 V2.00

SAMPLE DIRECTORY/NUMBER: SECOND /78
 SAMPLE ID: Hole 89-87 # 2845
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 14:02:55 11/15/89
 REPT 14:20:46 11/15/89
 TOT RUN TIME 0:17:32
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7202 cp

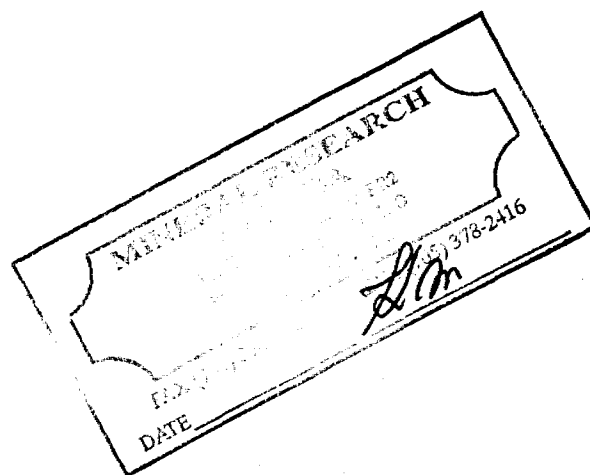
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.71 μ m MODAL DIAMETER: 0.40 μ m

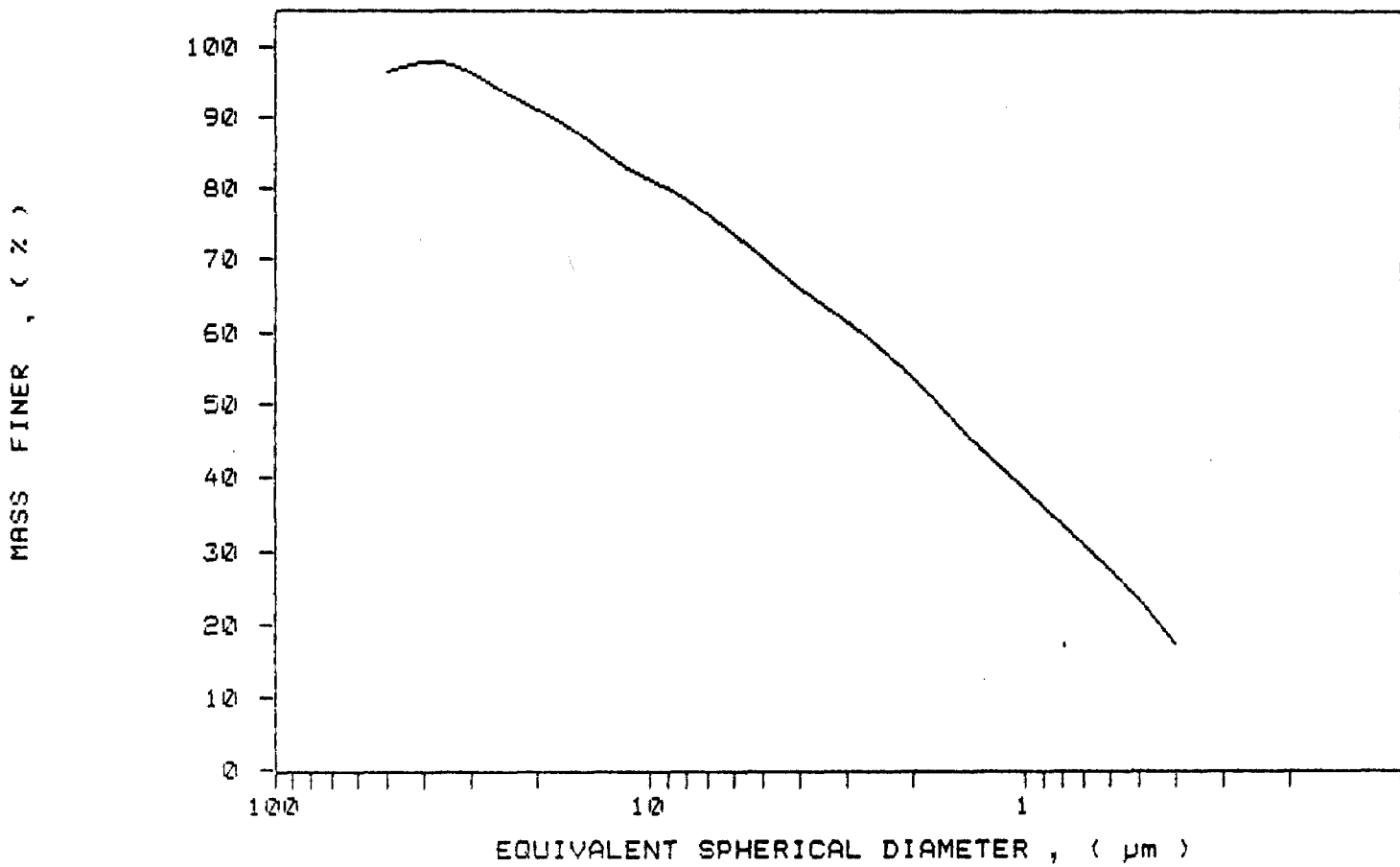
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	96.4	3.6
40.00	97.7	-1.4
30.00	96.2	1.5
25.00	93.8	2.4
20.00	91.1	2.7
15.00	87.2	3.9
10.00	81.2	5.9
8.00	78.4	2.8
6.00	73.6	4.8
5.00	70.2	3.4
4.00	66.1	4.1
3.00	61.5	4.6
2.00	53.7	7.8
1.50	46.9	6.8
1.00	38.4	8.5
0.80	33.6	4.8
0.60	27.4	6.2
0.50	23.2	4.2
0.40	17.2	6.0



SAMPLE DIRECTORY/NUMBER: SECOND /78
SAMPLE ID: Hole 89-87 # 2845
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 14:02:55 11/15/89
REPRT 14:20:46 11/15/89
TOT RUN TIME 0:17:32
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7202 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /79
 SAMPLE ID: Hole 89-87 # 2846
 SUBMITTER: James bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 14:34:05 11/15/89
 REPT 14:51:55 11/15/89
 TOT RUN TIME 0:17:31
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7202 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

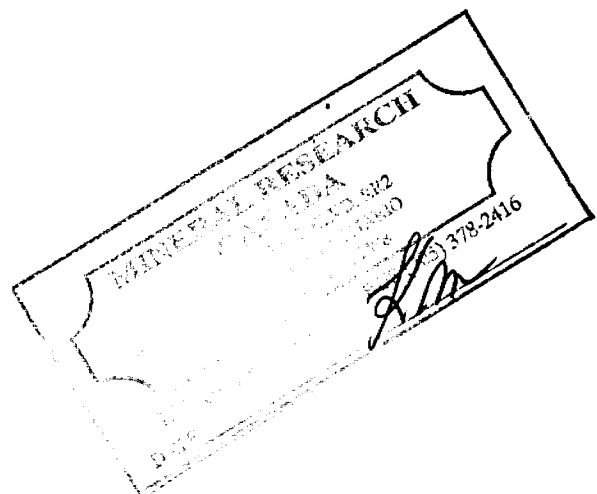
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.05 μ m

MODAL DIAMETER: 4.60 μ m

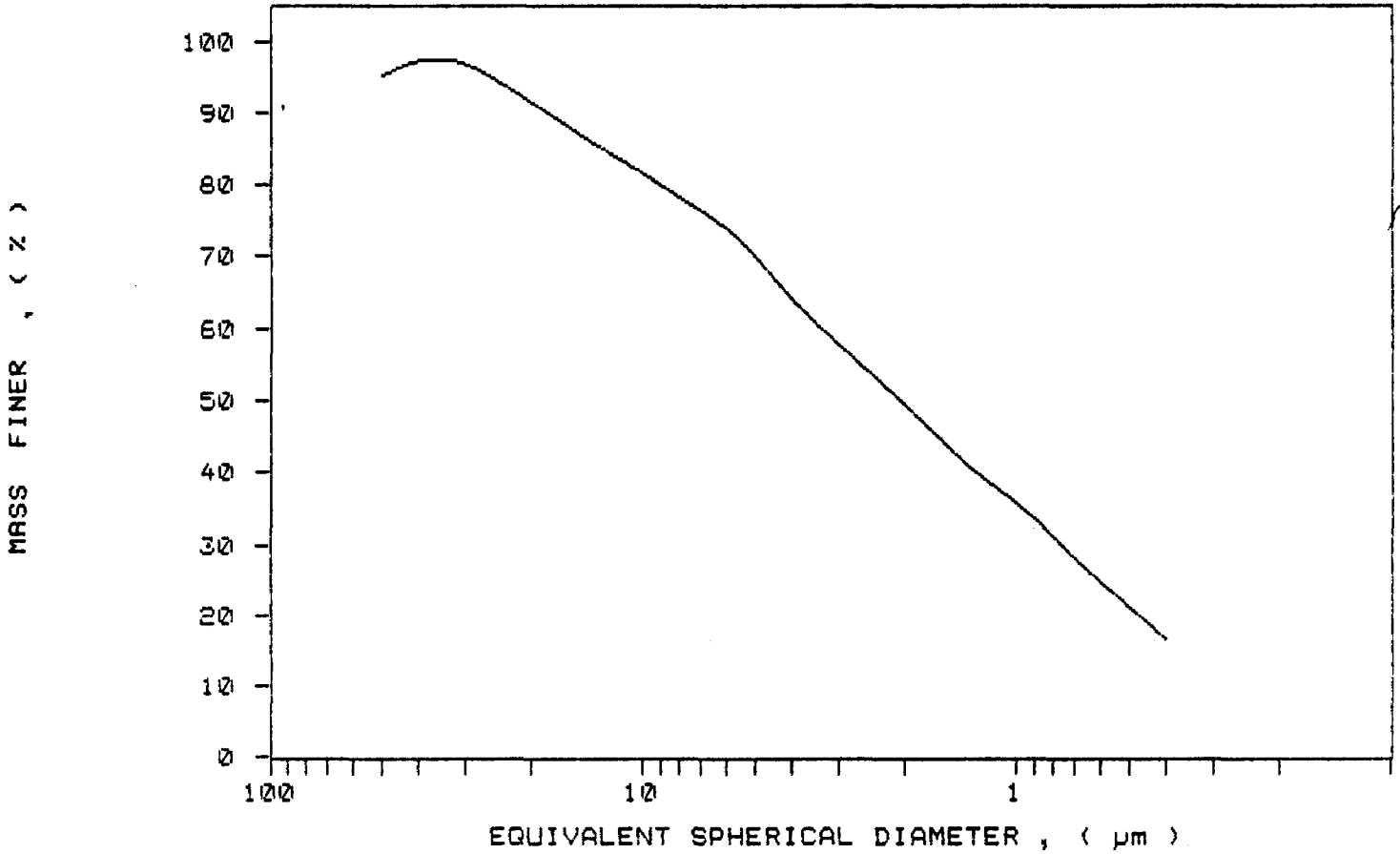
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	95.2	4.8
40.00	97.3	-2.0
30.00	96.8	0.4
25.00	94.7	2.1
20.00	91.5	3.2
15.00	87.1	4.4
10.00	81.5	5.6
8.00	78.2	3.3
6.00	73.9	4.3
5.00	69.9	4.0
4.00	64.0	5.9
3.00	57.7	6.2
2.00	49.5	8.3
1.50	43.1	6.3
1.00	35.7	7.5
0.80	31.1	4.6
0.60	24.7	6.4
0.50	21.0	3.6
0.40	16.6	4.4



SAMPLE DIRECTORY/NUMBER: SECOND /79
SAMPLE ID: Hole 89-87 # 2846
SUBMITTER: James bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 14:34:05 11/15/89
REPRT 14:51:55 11/15/89
TOT RUN TIME 0:17:31
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7202 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /80
 SAMP ID: Hole 89-87 # 2847
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 15:04:33 11/15/89
 REPRT 15:21:49 11/15/89
 TOT RUN TIME 0:16:57
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7202 cp

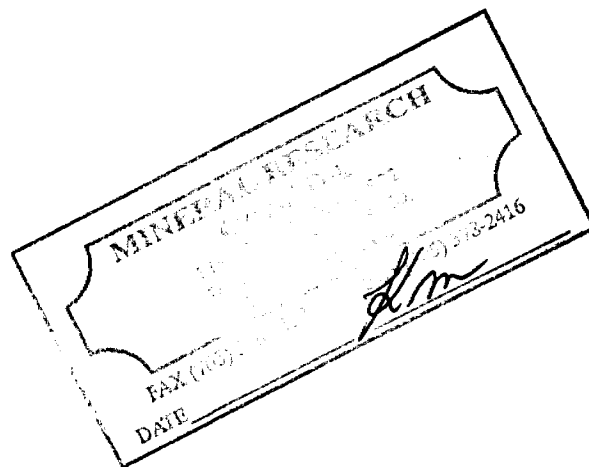
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.48 μ m MODAL DIAMETER: 3.01 μ m

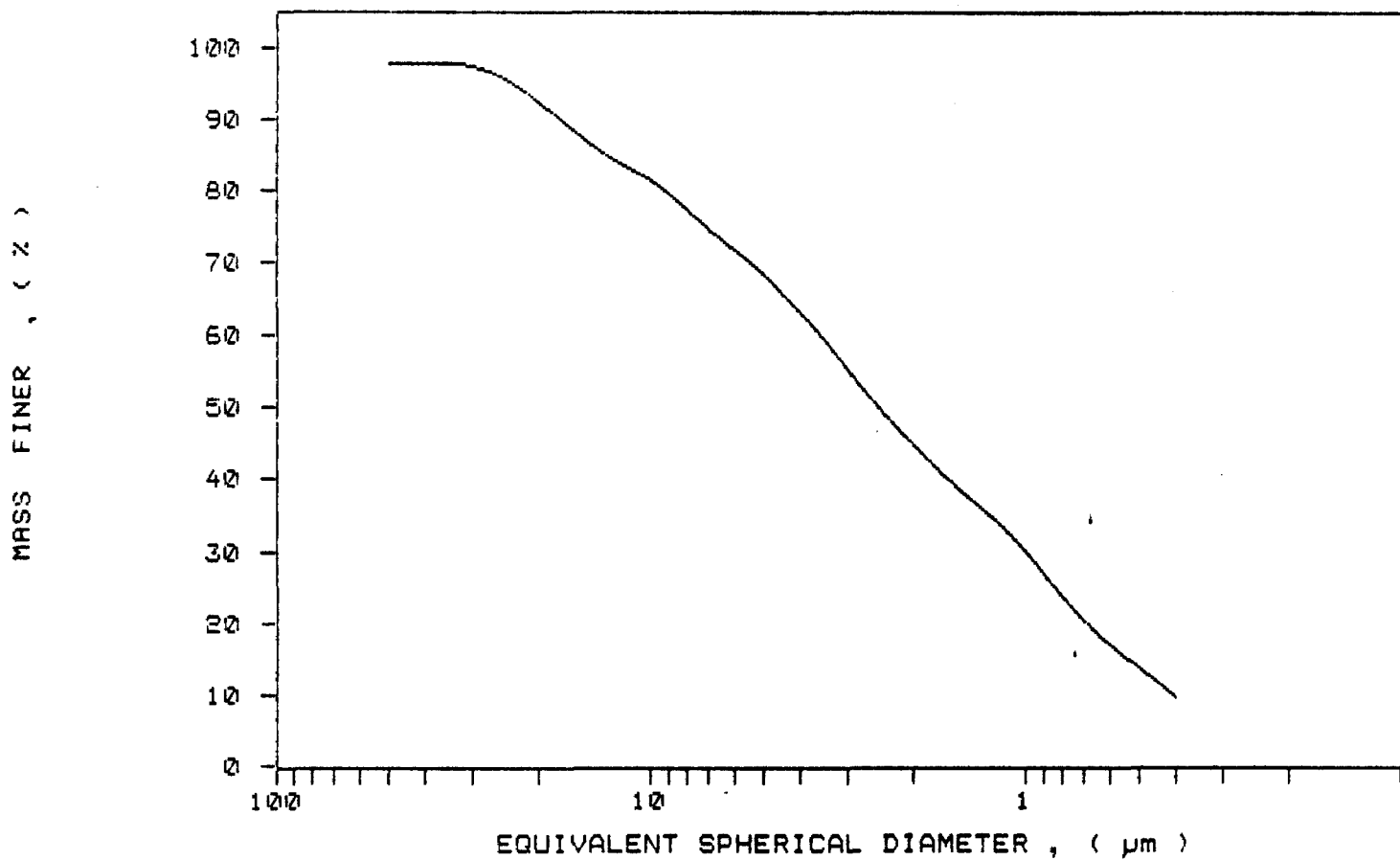
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	97.6	2.4
40.00	97.9	-0.3
30.00	97.4	0.5
25.00	95.8	1.6
20.00	92.4	3.4
15.00	87.1	5.3
10.00	81.4	5.7
8.00	77.3	4.1
6.00	71.9	5.4
5.00	68.4	3.5
4.00	63.0	5.4
3.00	55.2	7.8
2.00	44.8	10.4
1.50	38.5	6.3
1.00	29.9	8.6
0.80	23.7	6.2
0.60	17.0	6.7
0.50	13.8	3.2
0.40	9.6	4.1



SAMPLE DIRECTORY/NUMBER: SECOND /80
SAMPLE ID: Hole 89-87 # 2847
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 15:04:33 11/15/89
REPT 15:21:49 11/15/89
TOT RUN TIME 0:16:57
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7202 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /81
 SAMPLE ID: Hole 89-87 # 2848
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 15:34:32 11/15/89
 REPT 15:51:47 11/15/89
 TOT RUN TIME 0:16:57
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7202 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

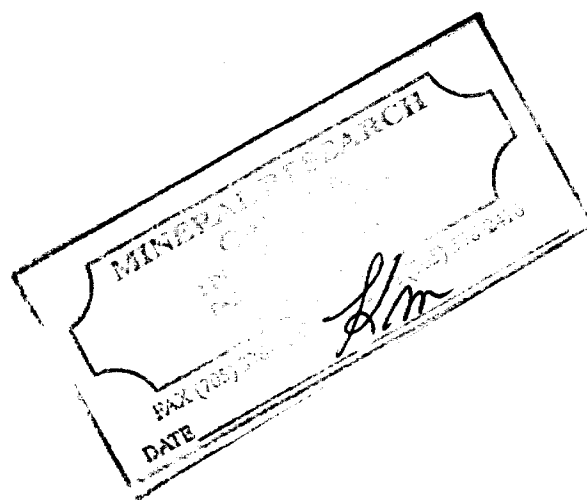
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.52 μ m

MODAL DIAMETER: 3.37 μ m

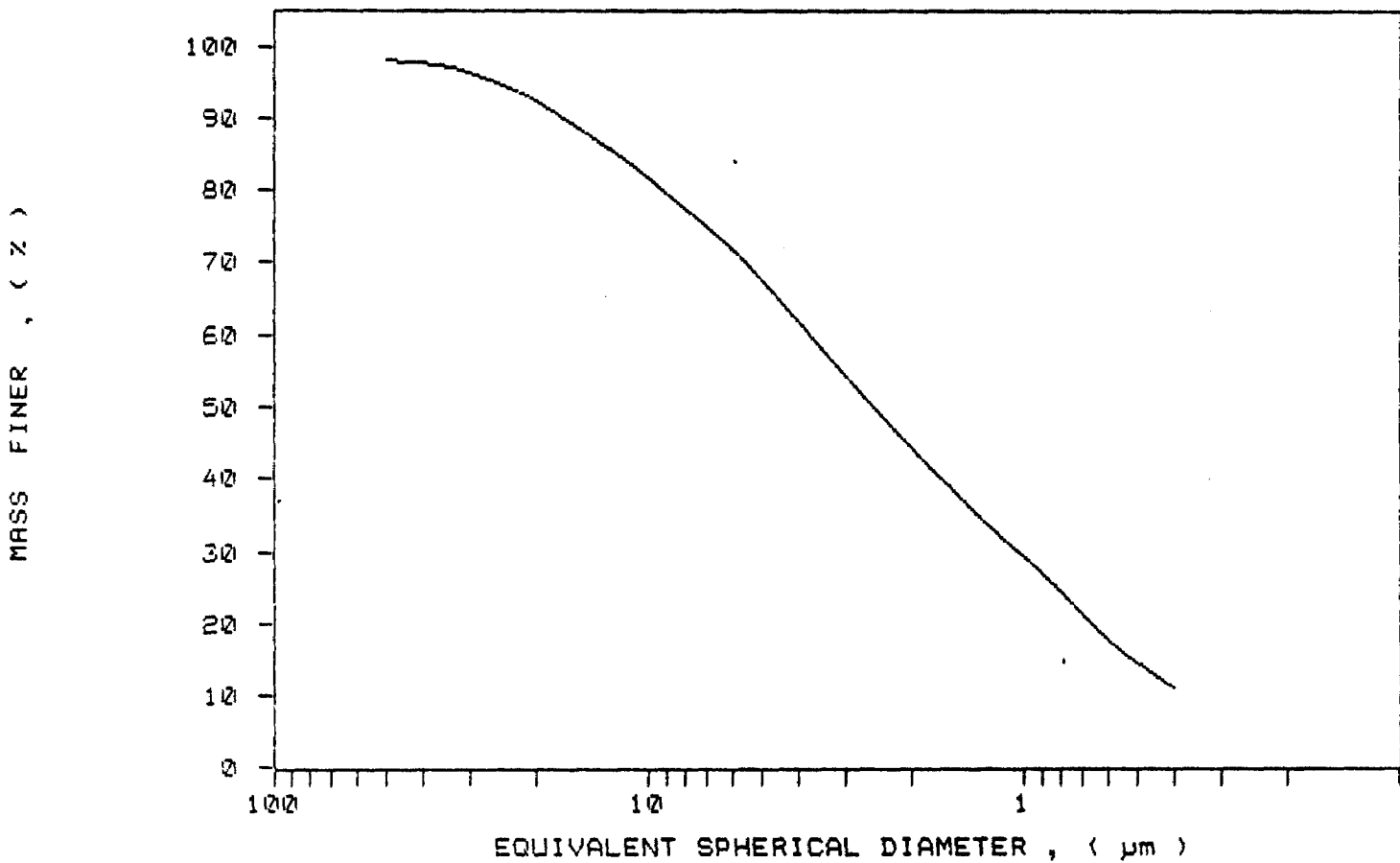
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.1	1.9
40.00	97.6	0.4
30.00	96.3	1.3
25.00	94.8	1.5
20.00	92.4	2.3
15.00	86.1	4.3
10.00	81.6	6.5
8.00	77.4	4.2
6.00	71.8	5.6
5.00	67.5	4.3
4.00	61.8	5.8
3.00	54.4	7.4
2.00	44.3	10.1
1.50	37.7	6.6
1.00	29.2	8.5
0.80	24.3	4.9
0.60	17.8	6.5
0.50	14.5	3.3
0.40	10.9	3.5



SAMPLE DIRECTORY/NUMBER: SECOND /81
SAMPLE ID: Hole 89-87 # 2848
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 15:34:32 11/15/89
REPRT 15:51:47 11/15/89
TOT RUN TIME 0:16:57
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7202 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /82
 SAMPLE ID: Hole 89-87 # 2849
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 16:04:31 11/15/89
 REPT 16:22:22 11/15/89
 TOT RUN TIME 0:17:32
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7202 cp

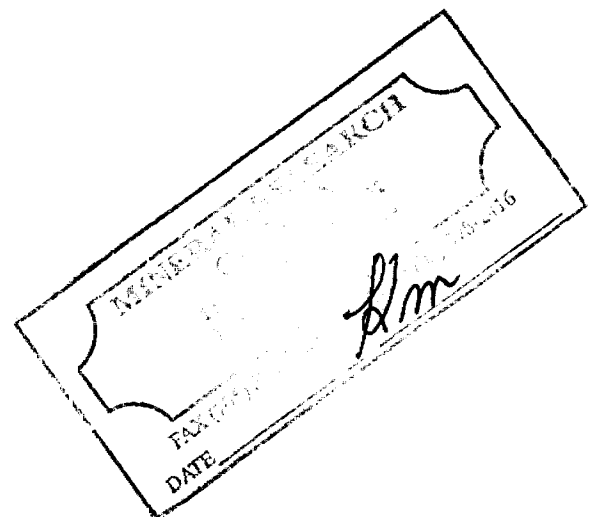
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.01 μ m MODAL DIAMETER: 4.10 μ m

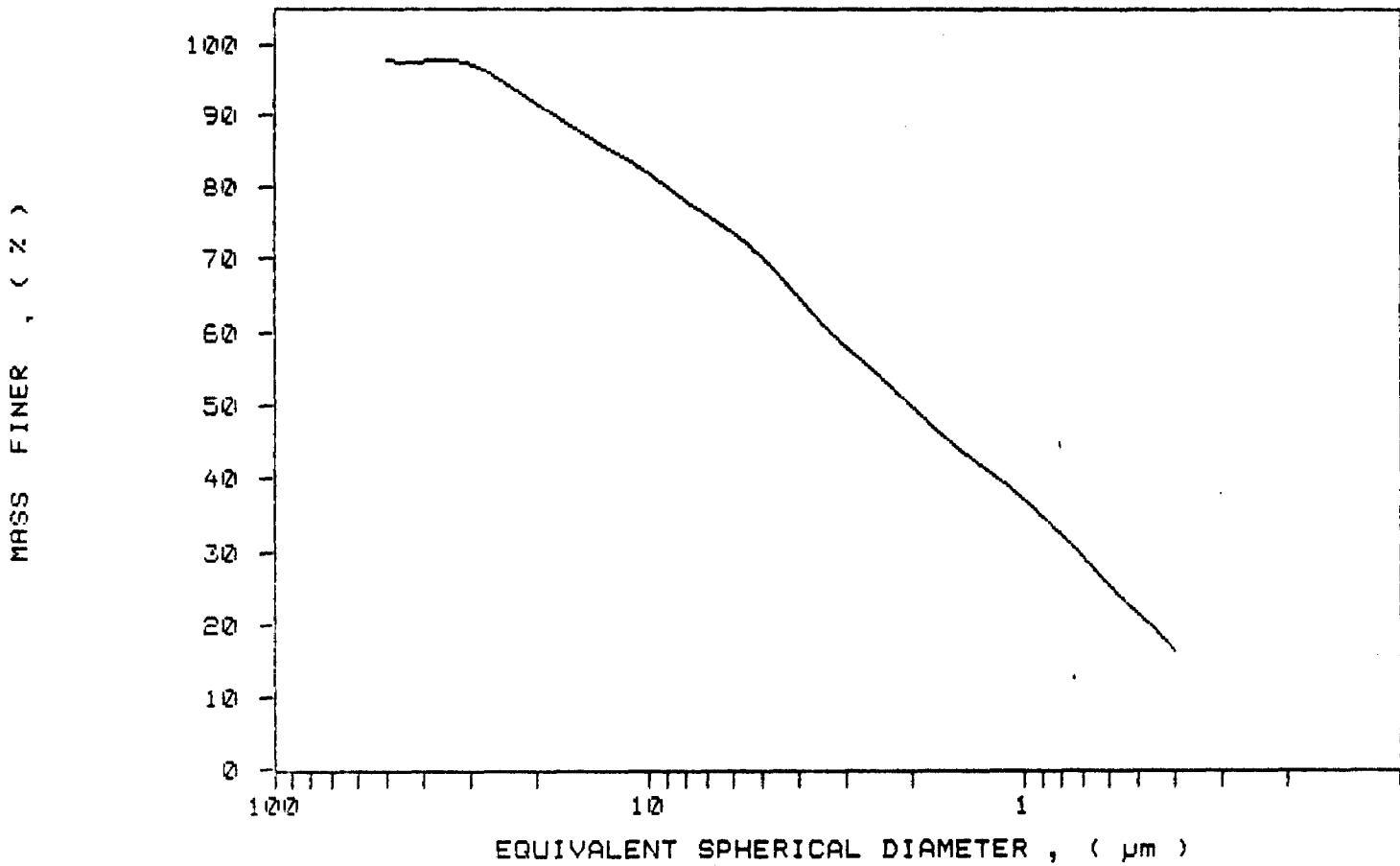
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	97.7	2.3
40.00	97.6	0.1
30.00	97.1	0.4
25.00	95.0	2.2
20.00	91.6	3.3
15.00	87.4	4.2
10.00	81.9	5.5
8.00	78.1	3.8
6.00	73.7	4.4
5.00	70.2	3.5
4.00	64.7	5.5
3.00	58.1	6.6
2.00	49.9	8.2
1.50	44.2	5.7
1.00	37.0	7.2
0.80	32.4	4.6
0.60	25.3	7.0
0.50	21.5	3.9
0.40	16.3	5.1



SAMPLE DIRECTORY/NUMBER: SECOND /82
SAMPLE ID: Hole 89-87 # 2649
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 16:04:31 11/15/89
REPRT 16:22:22 11/15/89
TOT RUN TIME 0:17:32
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7202 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



ROTARY DRILL HOLE RECORD

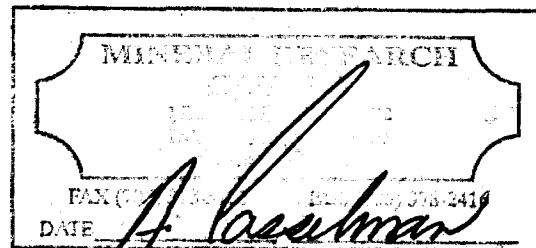
Drilling Started: February 18, 1989
 Drilling Finished: February 19, 1989
 Property: Kipling
 Dip Collar: -90
 Length: 176.0'
 Overburden Depth: 125.0'
 Claim No.: 1089049
 Northing: 1600 N
 Easting: 098 E

Logged By: A. Casselman
 Logged: Sept. 18, 1989
 Drilling Co.: Midwest
 Core Storage:
 Mineral Research Canada
 R. R. # 2
 Parry Sound, ON
 P2A 2W8
 89-219

SUMMARY

From	To	Description
0.0'	5.0'	Peat
5.0'	26.0'	Silty Lacustrine Clay
26.0'	108.0'	Glacial Clay Till
108.0'	125.0'	Sand and Gravel Pleistocene - Overburden
125.0'	151.0'	Kaolin Silica Sand Cretaceous
151.0'	176.0'	Sandy Clay

EOH - 176.0'



Detail Log 89-219

From	To	Sample No.	Description
0.0'	5.0'		Peat
5.0'	26.0'		Silty Lacustrine Clay
26.0'	108.0'		Glacial Clay Till
108.0'	125.0'		Sand & gravel - alternating, interbedded.
125.0'	130.0'	15001	Kss - fine grain, coarsening downsection to medium/fine, medium to dark brown, rust (haematite) staining, some lighter areas.
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.
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.
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.
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.
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.
156.0'	164.0'	15007	Sandy Clay & Clay - as above, greater percentages clay, 156.0' - 157.0' - Polydrill saturated (not sampled).
164.0'	176.0'	15008	Sandy Clay and Clay - as above, less sandy clay than the above footages.

EOH - 176.0'

SECTION 89-219

Dip Collar: -90

Length: 176.0'

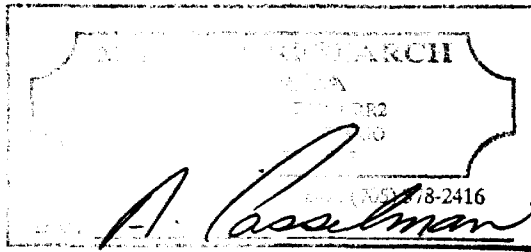
Overburden Depth: 125.0'

Claim No.: 1089049

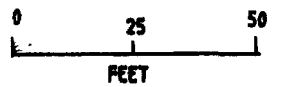
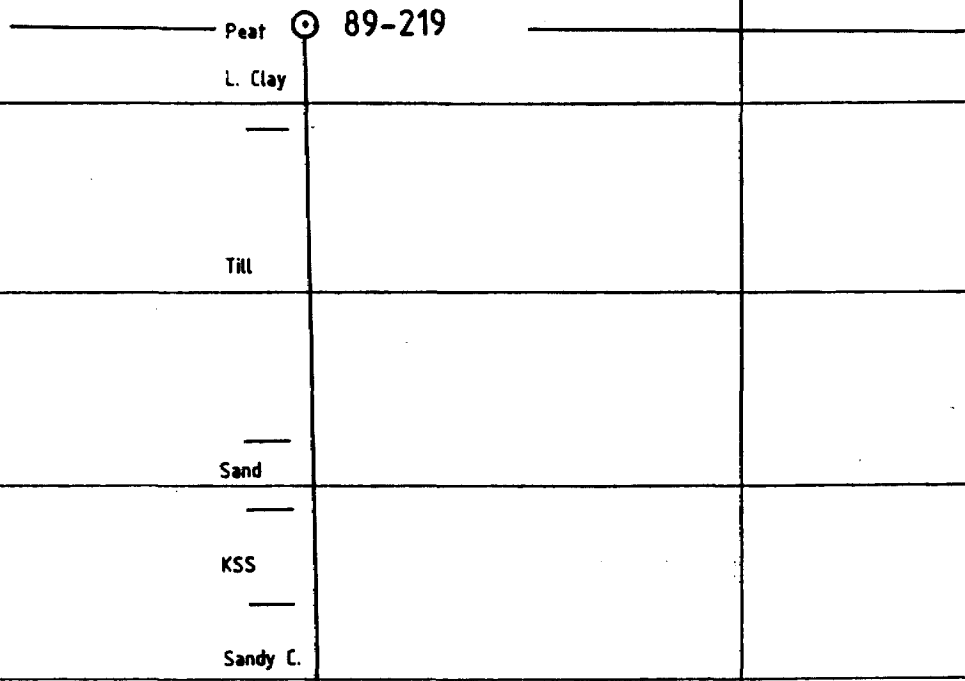
Scale: 1.0" = 50.0'

Northing: 1600 N

Easting: 0098 E

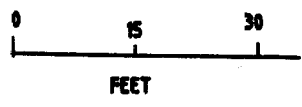


ELEV.



89-219

- 15001
- 15002
- 15003
- 15004
- 15005
- 15006
- 15007
- 15008



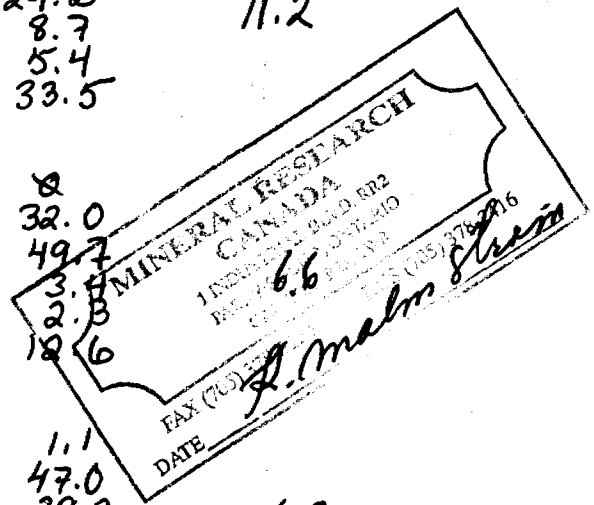
MINERAL RESEARCH CANADA

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

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
<i>Hole 89-219</i>	+ 4	14.4	10.0	10.0
	+ 40	47.0		
	+100	14.0		
	+200	5.1		
	+325	7.7		
	-325	11.8		
15001	+ 4	8	8.2	8.2
	+ 40	36.0		
	+100	43.8		
	+200	3.4		
	+325	2.1		
	-325	14.7		
15002	+ 4	8	11.2	11.2
	+ 40	23.2		
	+100	29.2		
	+200	8.7		
	+325	5.4		
	-325	33.5		
15003	+ 4	8	6.6	6.6
	+ 40	32.0		
	+100	49.7		
	+200	3.4		
	+325	2.8		
	-325	12.6		
15004	+ 4	1.1	6.3	6.3
	+ 40	47.0		
	+100	39.2		
	+200	2.3		
	+325	1.6		
	-325	8.8		
15005				



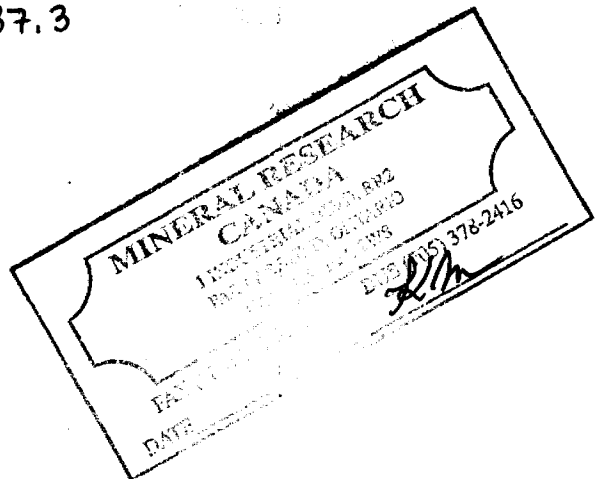
MINERAL RESEARCH CANADA

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

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
<i>lot 89-219</i> 15006	+ 4	0	7.2	
	+ 40	0.4		
	+100	54.4		
	+200	11.1		
	+325	3.4		
	-325	30.7		
15007	+ 4	0	7.9	
	+ 40	0.4		
	+100	29.0		
	+200	23.0		
	+325	5.8		
	-325	41.8		
15008	+ 4	0	7.8	
	+ 40	0.3		
	+100	34.4		
	+200	21.2		
	+325	6.8		
	-325	37.3		
	+ 4			
	+ 40			
	+100			
	+200			
	+325			
	-325			
	+ 4			
	+ 40			
	+100			
	+200			
	+325			
	-325			



Kaolin

SediGraph 5100 V2.00

PAGE 1

SAMPLE DIRECTORY/NUMBER: SECOND /81
 SAMPLE ID: Hole 89-219 # 15008
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 09:38:30 11/10/89
 REPT 13:50:15 10/09/91
 TOT RUN TIME 0:17:09
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7204 cp

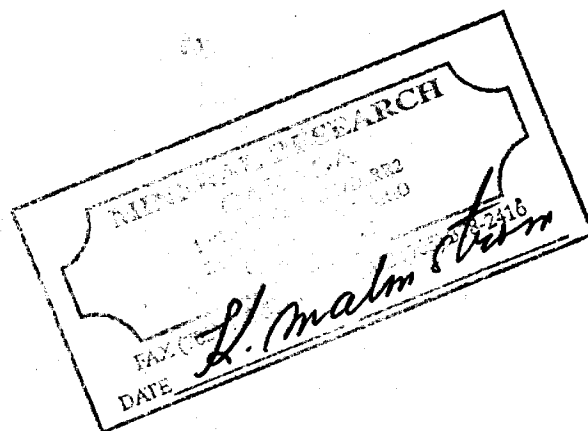
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.95 μ m MODAL DIAMETER: 8.63 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	100.5	-2.5
40.00	99.5	3.0
30.00	97.2	2.2
25.00	95.7	1.6
20.00	92.5	3.2
15.00	87.6	4.9
10.00	79.2	8.4
8.00	73.1	6.1
6.00	66.0	7.2
5.00	61.9	4.0
4.00	57.2	4.8
3.00	50.4	6.8
2.00	42.5	7.9
1.50	38.1	4.4
1.00	31.7	6.4
0.80	27.9	3.8
0.60	23.5	4.4
0.50	20.3	2.6
0.40	18.2	2.5



Kaolin

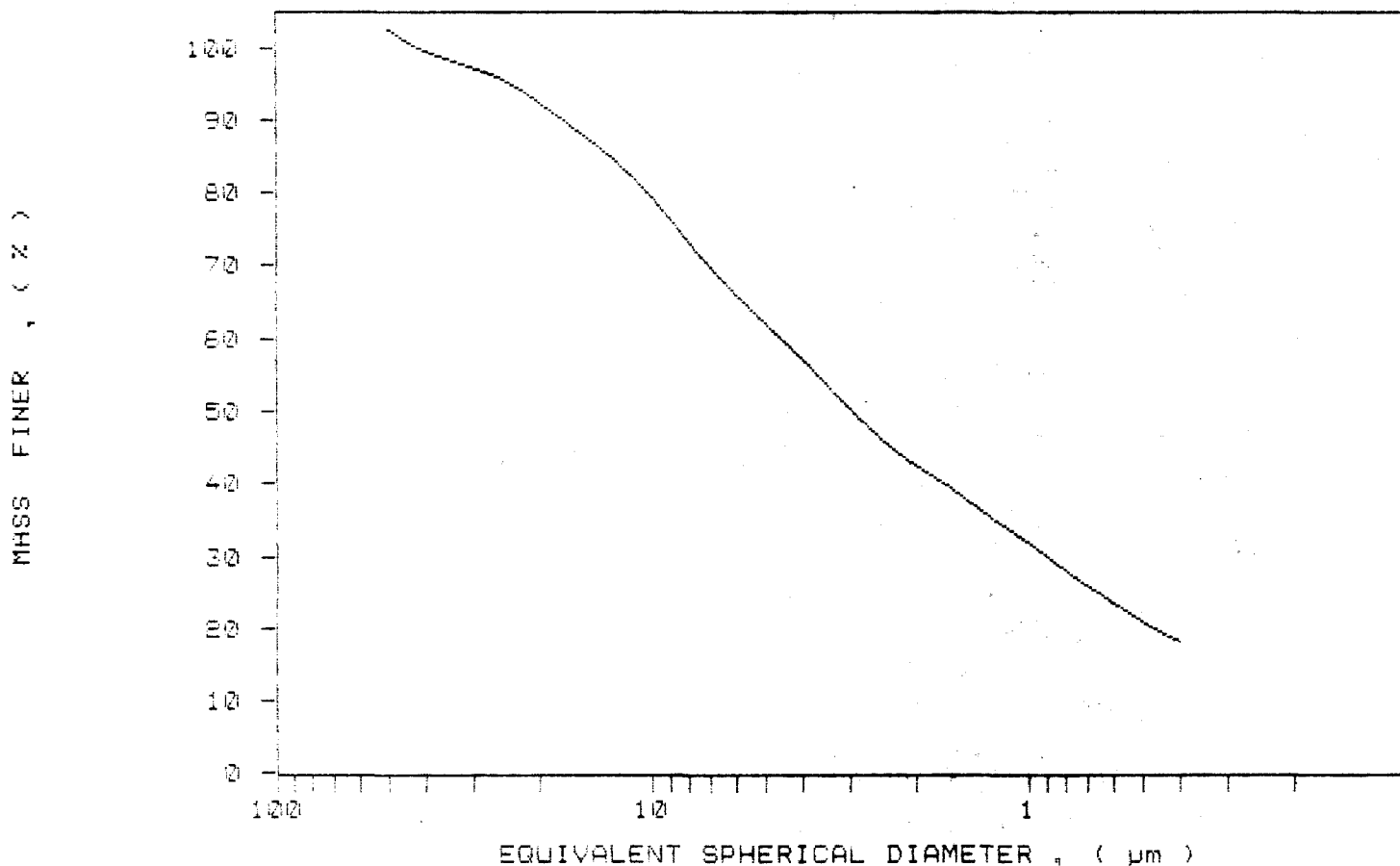
SediGraph 5100 V2.03

PAGE 2

SAMPLE DIRECTORY/NUMBER: SECOND /81
SAMPLE ID: Hole 89-219 # 15008
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 09:38:30 11/10/89
REPT 13:50:15 10/09/91
TOT RUN TIME 0:17:09
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9941 g/cc
LIQ VISC: 0.7204 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /30
 SAMPLE ID: Hole 89-219 # 15007
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 09:07:19 11/10/89
 REPT 13:45:45 10/09/91
 TOT RUN TIME 0:17:32
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7205 cp

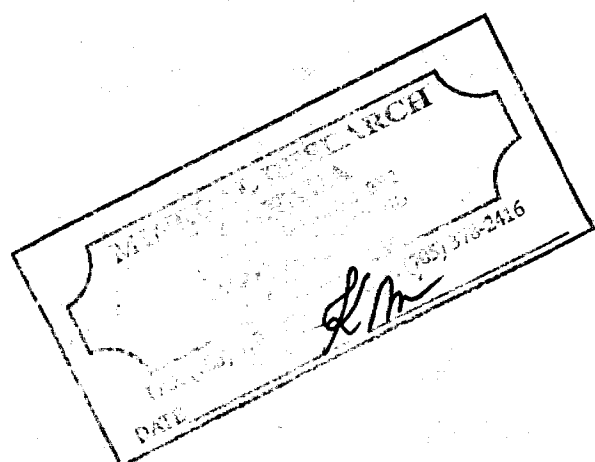
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.80 μ m MODAL DIAMETER: 4.26 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	100.0	0.0
40.00	99.1	0.9
30.00	98.7	2.4
25.00	95.0	1.8
20.00	93.3	1.7
15.00	90.1	3.2
10.00	82.6	7.5
8.00	77.1	5.4
6.00	70.1	7.0
5.00	65.7	4.5
4.00	59.5	6.1
3.00	51.8	7.8
2.00	42.3	9.0
1.50	37.9	4.8
1.00	31.6	6.4
0.80	27.6	3.9
0.60	23.2	4.5
0.50	20.5	2.7
0.40	18.1	2.4



Kaolin

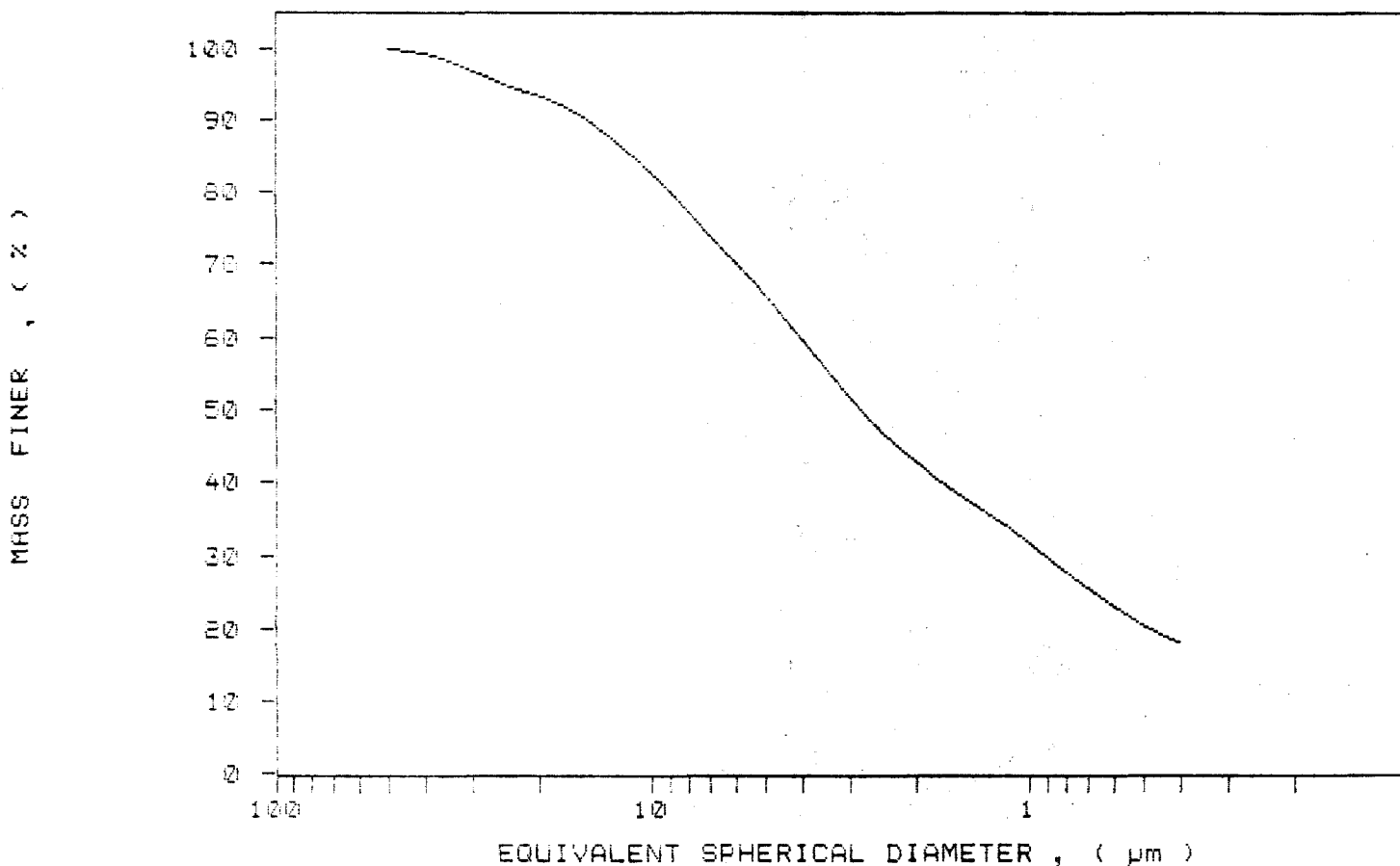
SediGraph 5100 V2.0E

PAGE 2

SAMPLE DIRECTORY/NUMBER: SECOND /30
SAMPLE ID: Hole 89-219 # 15007
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 09:07:19 11/10/89
REPRT 13:45:45 10/09/91
TOT RUN TIME 0:17:32
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9941 g/cc
LIQ VISC: 0.7205 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /29
 SAMPLE ID: Hole 89-219 # 15006
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 85.8 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 13:34:45 11/27/89
 REPRT 16:19:56 10/07/91
 TOT RUN TIME 0:17:19
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9988 g/cc
 LIQ VISC: 0.7109 cp

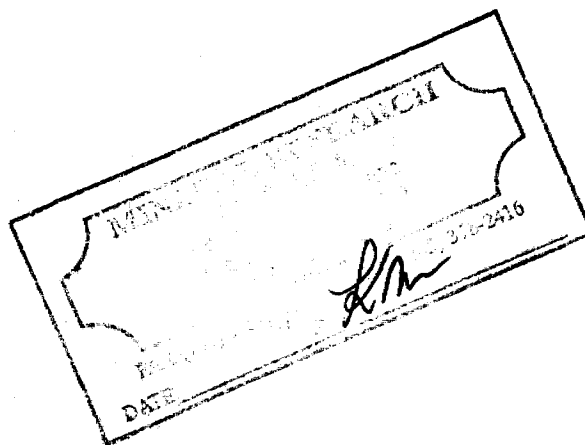
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

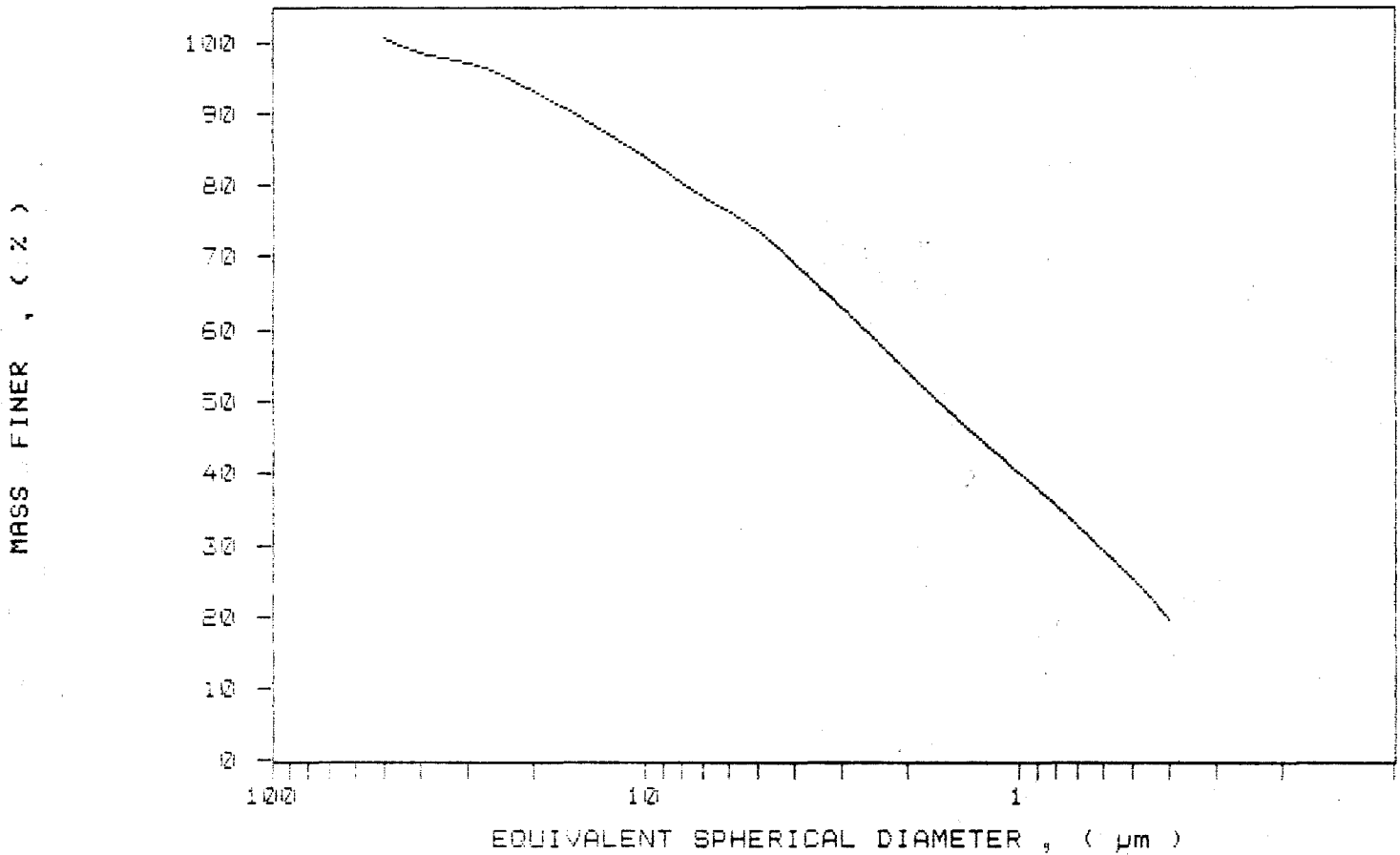
MEDIAN DIAMETER: 1.66 μ m MODAL DIAMETER: 0.40 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	100.5	-0.5
40.00	98.4	2.1
30.00	97.1	1.3
25.00	95.6	1.5
20.00	93.1	2.5
15.00	89.5	3.6
10.00	83.9	5.6
8.00	80.2	3.6
6.00	76.2	4.0
5.00	73.5	2.7
4.00	69.0	4.4
3.00	63.0	6.0
2.00	54.1	8.9
1.50	47.8	6.3
1.00	39.9	7.9
0.80	35.4	4.5
0.60	29.2	6.2
0.50	25.8	4.0
0.40	19.5	5.7



SAMPLE DIRECTORY/NUMBER: SECOND /29	UNIT NUMBER: 1
SAMPLE ID: Hole 89-219 # 15006	START 13:34:45 11/27/89
SUBMITTER: James Bay Co.	REPRT 16:19:56 10/07/91
OPERATOR: Kaarina	TOT RUN TIME 0:17:19
SAMPLE TYPE: Clay	SAM DENS: 2.6500 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9998 g/cc
ANALYSIS TEMP: 25.8 deg C	LIQ VISC: 0.7109 cp
RUN TYPE: Standard	

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIPECTORY/NUMBER: SECOND /28
 SAMPLE ID: Hole 89-219 # 15005
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.9 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 15:47:37 12/07/89
 REPT 16:15:23 10/07/91
 TOT RUN TIME 0:17:18
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9938 g/cc
 LIQ VISC: 0.7098 cp

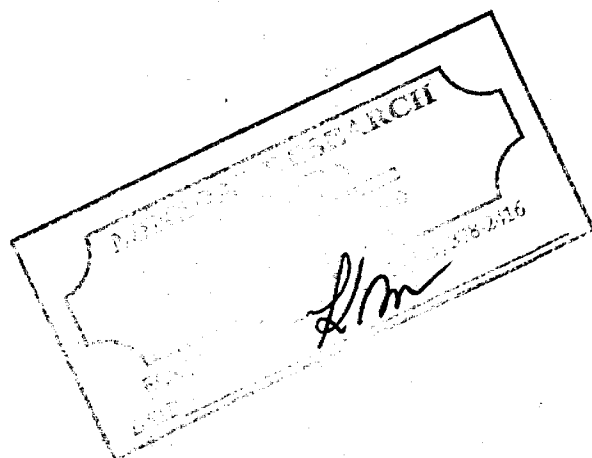
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

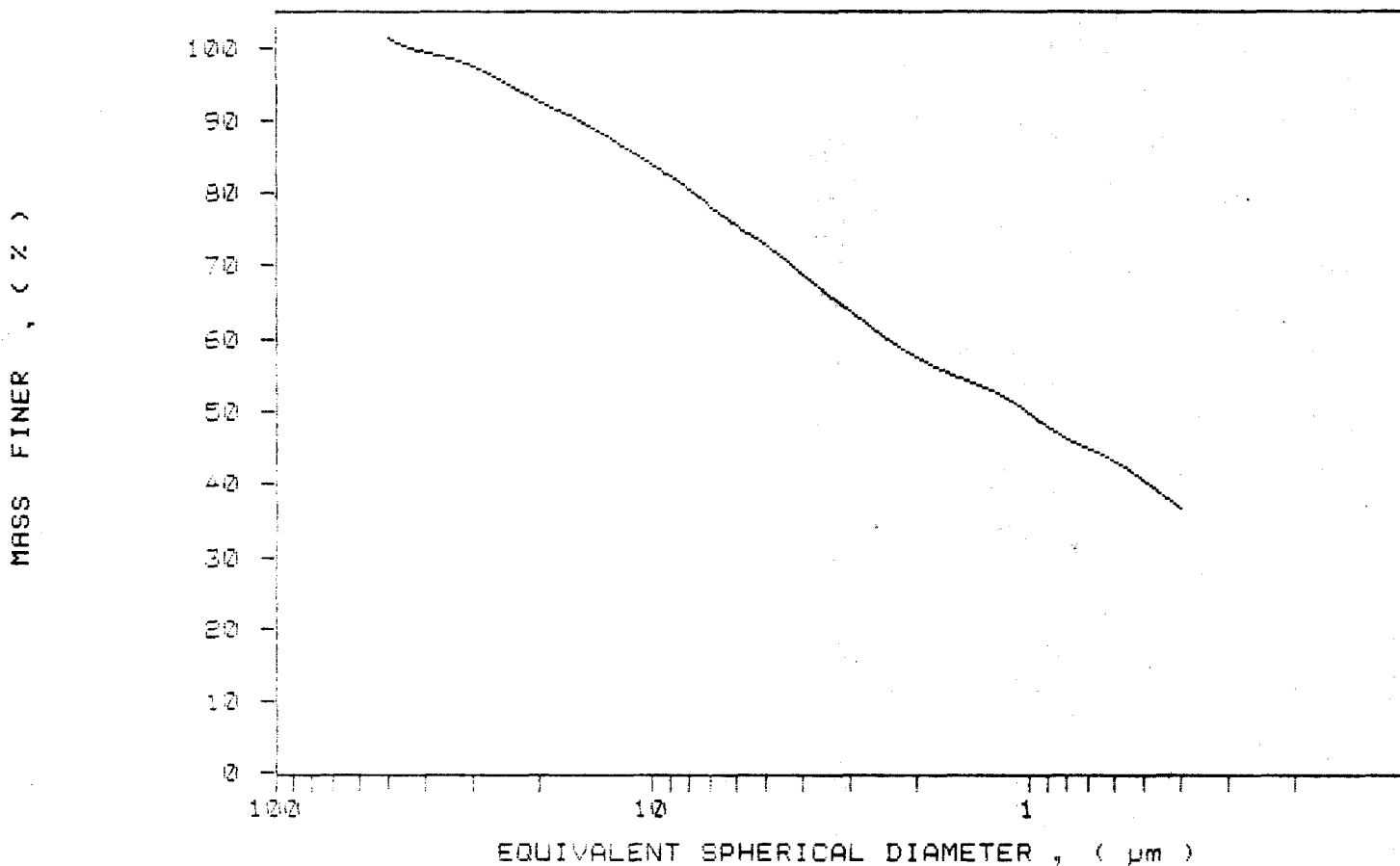
MEDIAN DIAMETER: 1.03 μ m MODAL DIAMETER: 4.10 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	101.2	-1.2
40.00	99.3	2.0
30.00	97.4	1.8
25.00	95.4	2.1
20.00	92.6	2.8
15.00	89.5	3.1
10.00	83.7	5.7
8.00	80.3	3.4
6.00	75.5	4.8
5.00	72.8	2.7
4.00	68.7	4.1
3.00	63.7	5.0
2.00	57.4	6.3
1.50	54.4	3.0
1.00	49.5	4.8
0.80	46.2	3.3
0.60	43.1	3.1
0.50	40.3	2.8
0.40	36.5	3.9



SAMPLE DIRECTORY/NUMBER: SECOND /28	UNIT NUMBER: 1
SAMPLE ID: Hole 89-219 # 15005	START 15:47:37 12/07/89
SUBMITTER: James Bay Co.	REPRT 16:15:23 10/07/91
OPERATOR: Kaarina	TOT RUN TIME 0:17:18
SAMPLE TYPE: Clay	SAM DENS: 2.6500 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9998 g/cc
ANALYSIS TEMP: 35.9 deg C	LIQ VISC: 0.7098 cp
RUN TYPE: Standard	

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

SediGraph 5100 V2.03

PAGE 1

SAMPLE DIRECTORY/NUMBER: SECOND /27
SAMPLE ID: Hole 89-219 # 15004
SUBMITTER: James Say Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 25.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 12:01:26 11/27/89
REFRT 13:34:03 10/09/91
TOT RUN TIME 0:17:14
SAM DENS: 2.6540 g/cc
LIQ DENS: 0.9938 g/cc
LIQ VISC: 0.7110 cp

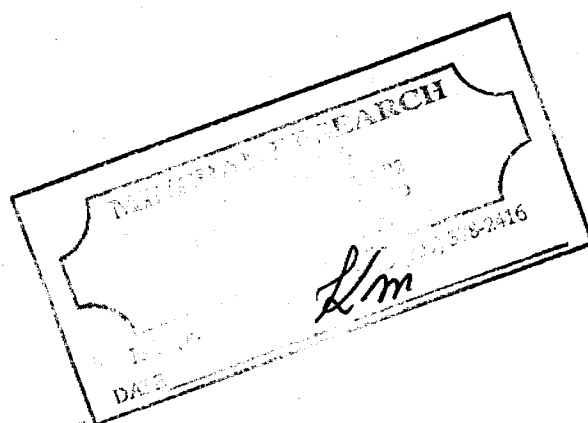
STARTING DIAMETER: 50.00 μ m
ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
FULL SCALE MASS %: 100

MASS DISTRIBUTION

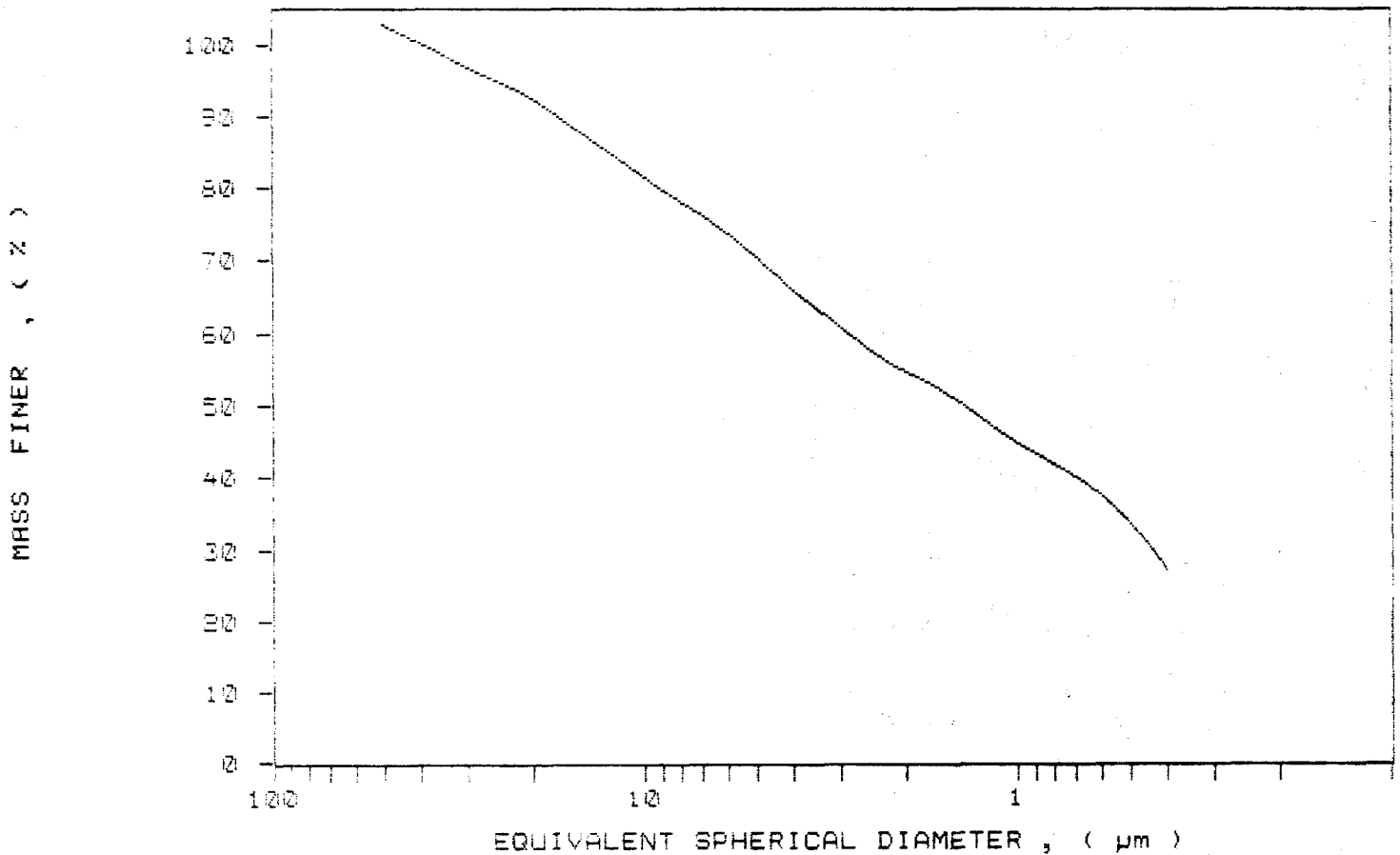
MEDIAN DIAMETER: 1.40 μ m MODAL DIAMETER: 0.40 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	102.6	-2.6
40.00	100.2	2.4
30.00	96.3	3.4
25.00	94.9	1.9
20.00	92.4	2.5
15.00	87.9	4.5
10.00	81.5	6.5
8.00	78.2	3.3
6.00	73.8	4.3
5.00	70.4	3.4
4.00	66.0	4.5
3.00	60.9	5.1
2.00	54.7	6.2
1.50	51.1	3.6
1.00	44.3	6.4
0.80	41.8	2.5
0.60	37.4	4.4
0.50	33.4	4.0
0.40	27.0	6.4



SAMPLE DIRECTORY/NUMBER: SECOND /27	UNIT NUMBER: 1
SAMPLE ID: Hole 89-219 # 15004	START 12:01:26 11/27/89
SUBMITTER: James Bay Co.	REPT 13:34:03 10/09/91
OPERATOR: Kaarina	TOT RUN TIME 0:17:14
SAMPLE TYPE: Clay	SAM DENS: 2.6540 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9988 g/cc
ANALYSIS TEMP: 35.3 deg C	LIQ VISC: 0.7110 cp
RUN TYPE: Standard	

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SediGraph 5100 V2.03
 SAMPLE DIRECTORY/NUMBER: SECOND /26
 SAMPLE ID: Hole 89-219 # 15003
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

Kaolin

PAGE 1
 UNIT NUMBER: 1
 START 14:39:41 11/09/99
 REPRT 16:04:03 10/07/91
 TOT RUN TIME 0:17:18
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7202 cp

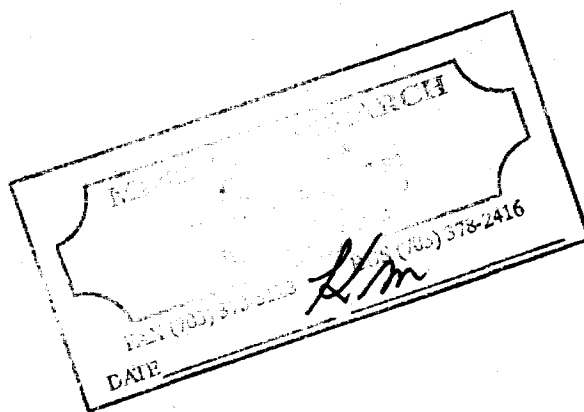
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 3.44 μ m MODAL DIAMETER: 6.16 μ m

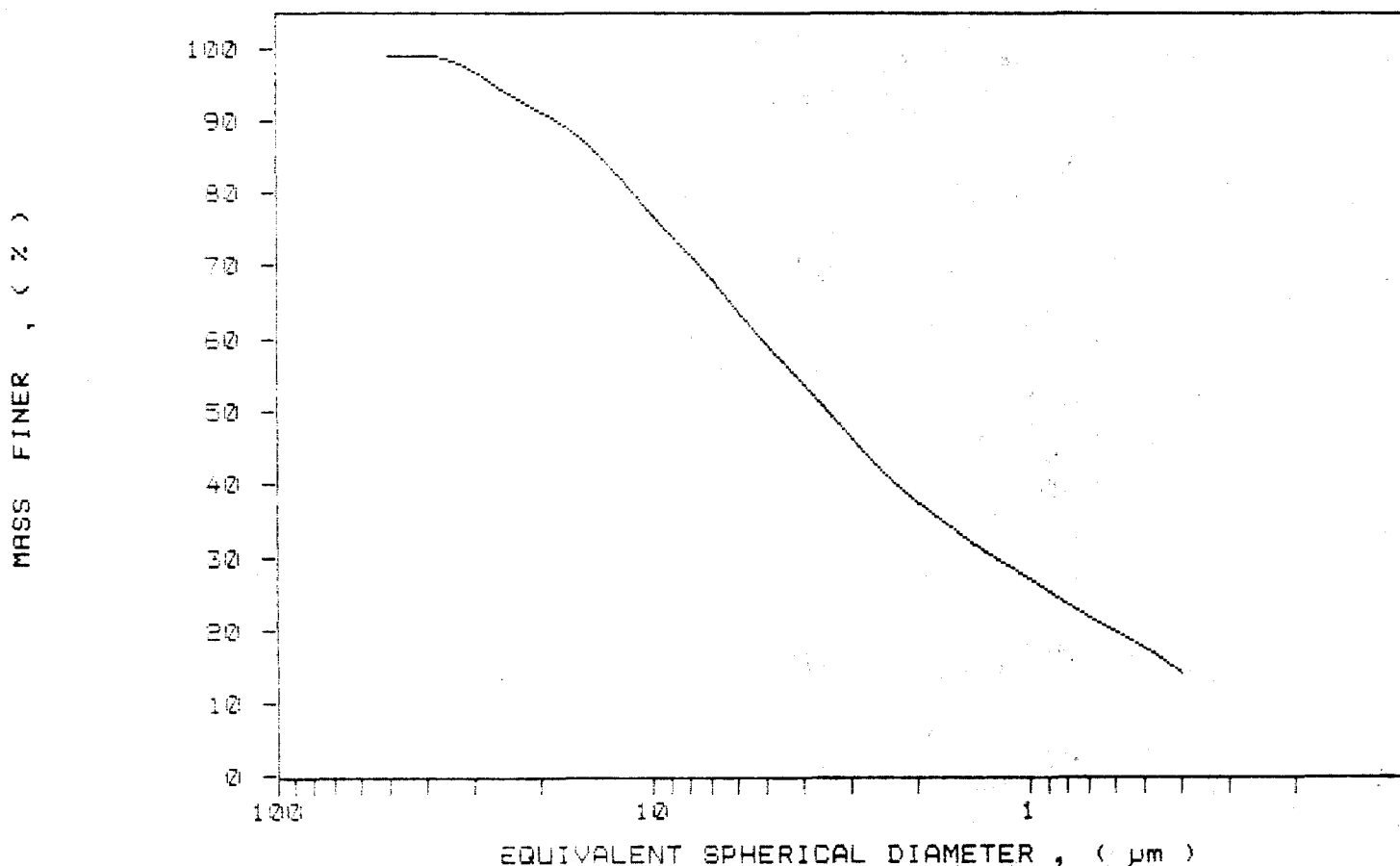
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.9	1.1
40.00	98.9	0.0
30.00	96.8	2.0
25.00	94.1	2.7
20.00	91.3	2.9
15.00	86.9	4.3
10.00	76.3	10.2
8.00	71.5	5.3
6.00	64.0	7.5
5.00	59.1	4.8
4.00	53.8	5.3
3.00	46.4	7.4
2.00	37.6	8.9
1.50	32.7	4.9
1.00	26.9	5.6
0.80	23.6	3.3
0.60	19.8	3.8
0.50	17.5	2.4
0.40	13.9	3.5



SAMPLE DIRECTORY/NUMBER: SECOND /26
SAMPLE ID: Hole 09-219 # 15003
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 14:39:41 11/09/89
REPT 16:04:03 10/07/91
TOT RUN TIME 0:17:10
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7202 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /25
 SAMPLE ID: Hole 89-219 # 15002
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 14:08:01 11/09/89
 REPR 15:58:23 10/07/91
 TOT RUN TIME 0:17:19
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7203 cp

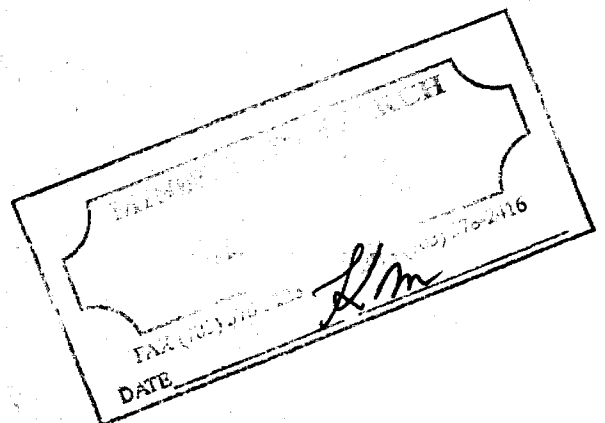
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.06 μ m MODAL DIAMETER: 5.27 μ m

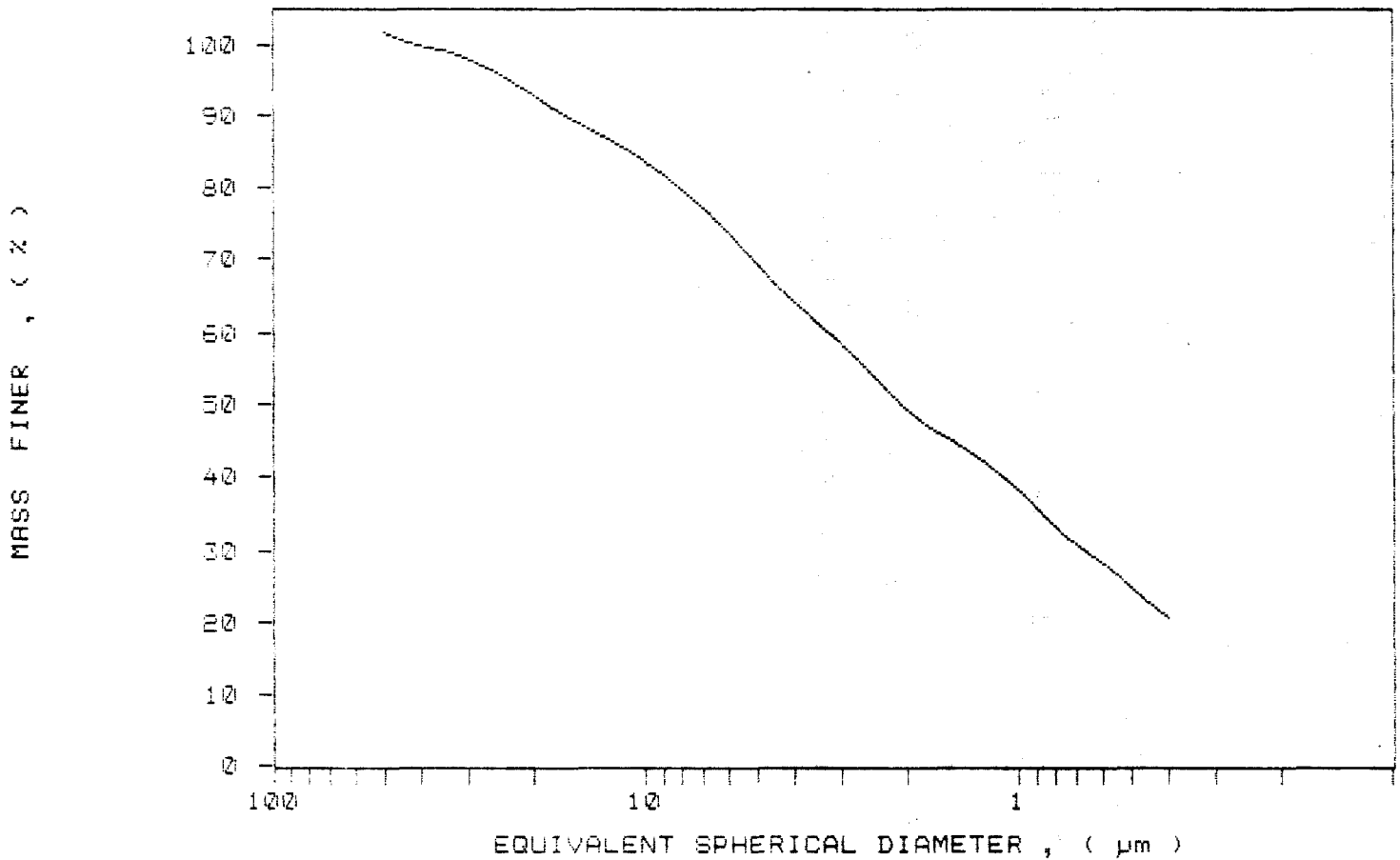
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	101.5	-1.5
40.00	99.8	1.8
30.00	98.0	1.8
25.00	95.9	2.1
20.00	92.9	3.1
15.00	88.8	4.1
10.00	83.6	5.2
8.00	79.7	3.8
6.00	73.8	5.9
5.00	69.3	4.6
4.00	64.1	5.1
3.00	58.5	5.7
2.00	49.3	9.1
1.50	44.9	4.4
1.00	38.1	6.8
0.80	33.1	4.9
0.60	28.2	4.9
0.50	24.7	3.5
0.40	20.8	4.0



SAMPLE DIRECTORY/NUMBER: SECOND /25
SAMPLE ID: Hole SP-219 # 15002
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 14:08:01 11/09/89
REPT 15:58:23 10/07/91
TOT RUN TIME 0:17:19
SAM DENS: 2.8500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7203 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /24
 SAMPLE ID: Hole 89-215 # 15001
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 13:37:50 11/09/89
 REPT 15:47:29 10/07/91
 TOT RUN TIME 0:17:19
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7202 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

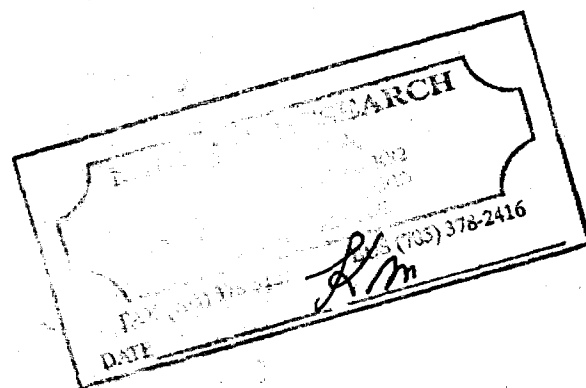
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.01 μ m

MODAL DIAMETER: 4.79 μ m

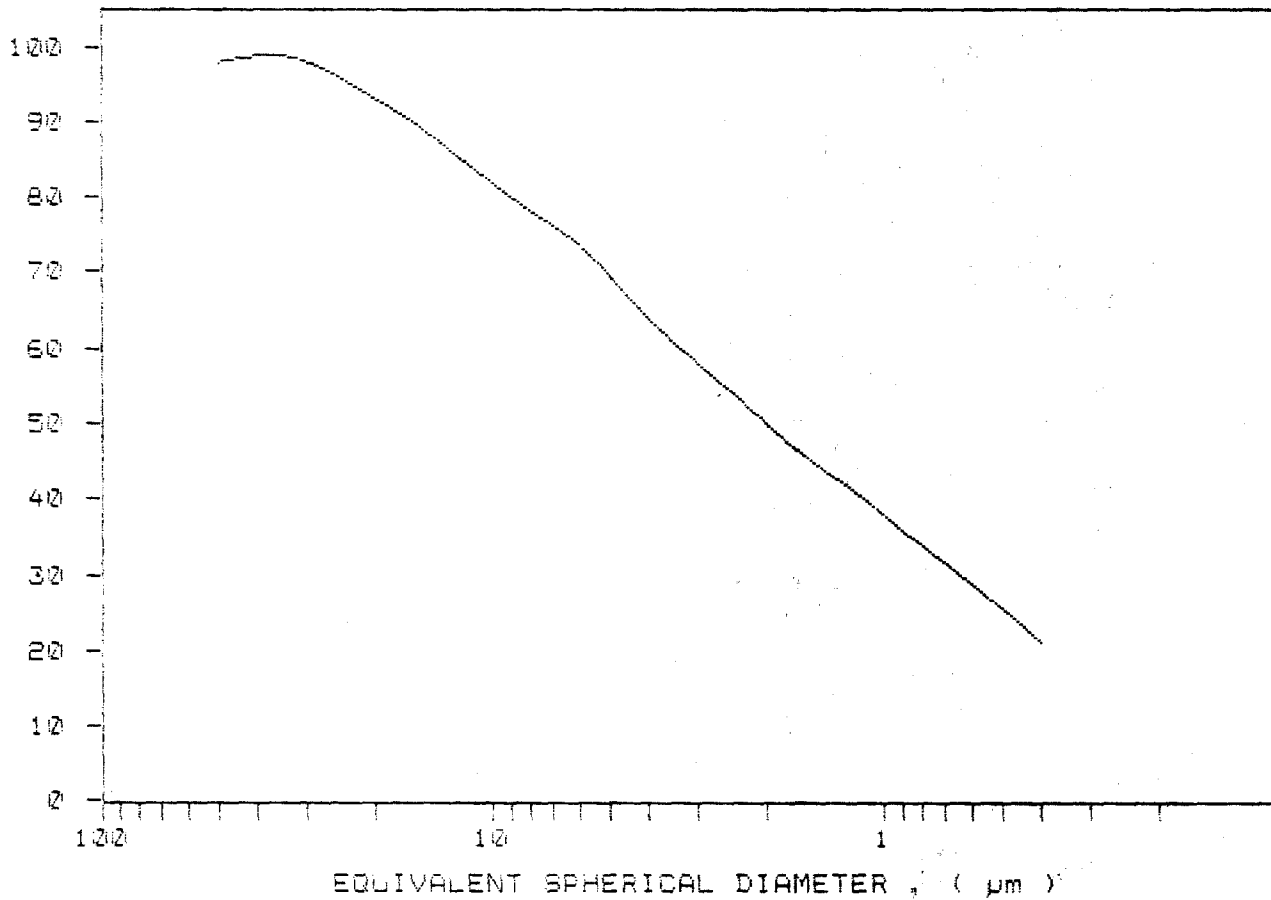
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	97.9	2.1
40.00	98.7	-0.8
30.00	98.0	0.7
25.00	96.0	2.0
20.00	93.0	3.0
15.00	88.9	4.2
10.00	81.8	7.1
8.00	78.2	3.6
6.00	73.5	4.7
5.00	69.3	4.2
4.00	63.9	5.4
3.00	58.0	5.9
2.00	49.9	8.0
1.50	44.6	5.4
1.00	37.7	6.8
0.80	33.7	4.0
0.60	28.6	5.1
0.50	25.4	3.2
0.40	20.9	4.5



SAMPLE DIRECTORY/NUMBER: SECOND /24
SAMPLE ID: Hole 89-219 # 15001
LABORATORY: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 13:37:50 11/09/89
REPT 15:47:29 10/07/91
TOT RUN TIME 0:17:19
SAND DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7202 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



ROTARY DRILL HOLE RECORD

Drilling Started: February 21, 1989
 Drilling Finished: February 21, 1989
 Length: 250.0'
 Overburden Depth: 52.0'
 Claim No.: 825805
 Property: Kipling
 Dip Collar: -90
 Core: 3.5"
 Northing: BLO N
 Easting: 5600 E

Logged By: A. Casselman
 Logged: March 7, 1989
 Drilling Co.: J. R.
 Core Storage:
 Mineral Research Canada
 R. R. # 2
 Parry Sound, ON
 P2A 2W8
 Hole No: 89-50

SUMMARY

From	To	Description
0.0'	8.0'	Peat
8.0'	52.0'	Glacial Clay Till
52.0'	110.0'	Kaolin Silica Sand (kss)
110.0'	126.0'	Clay
126.0'	179.75'	Kss
179.75'	182.0'	Sandy Clay
182.0'	195.0'	Kss
195.0'	197.0'	Sandy Clay
197.0'	209.0'	Kss
209.0'	210.0'	Sandy Clay
210.0'	243.0'	Kss
243.0'	250.0'	Clay

Pleistocene - Overburden
 Cretaceous

EOH - 250.0'

MINERAL RESEARCH CANADA
 1 INDUSTRIAL E.S.D. RR2
 PARRY SOUND, ONTARIO
 CANADA P2A 2W8
 FAX (705) 378-5175 BUS (705) 378-2416
 DATE *A. Casselman*

Detail Log 89-50

From	To	Sample No.	Description
0.0'	2.0'		Peat
2.0'	52.0'		Glacial Sandy Clay Till - rare clasts up to 4.0", dark coloured clay till with sub-rounded to highly angular clasts, clay becoming very dense toward lower contact.
52.0'	55.0'	2101	Kss - coarse grain, fining downsection, 52.0' - 52.5' - contains clasts up to 0.25", small clots of light grey clay. 8.33% kaolin.
55.0'	60.0'	2102	Kss - medium grain, light grey. 8.08% kaolin.
60.0'	65.0'	2103	Kss - as above. 5.62% kaolin.
65.0'	70.0'	2104	Kss - as above, 6.91% kaolin.
70.0'	73.0'	2105	Kss - coarser grain. 9.42% kaolin.
73.0'	79.0'	2106	Kss - 73.0' - 74.0' - fine grain, clay sections, then medium grain with coarser clasts - clasts up to 0.5", 77.0' - 79.0' - minor illite and heavies. 10.15% kaolin.
79.0'	84.0'	2107	Kss - medium grain, light brown. 6.53% kaolin.
84.0'	89.0'	2108	Kss - as above. 6.71% kaolin.
89.0'	94.0'	2109	Kss - coarser grain from 91.0' - 94.0'. light brown. 6.71% kaolin.
94.0'	100.0'	2110	Kss - coarser grain from 94.0' - 96.0', light brown. 7.77% kaolin.
100.0'	105.0'	2111	Kss - slightly finer than above. 7.09% kaolin.
105.0'	107.0'	2112	Kss - slightly coarser grain, frequent darker clasts, high percentage heavies and moisture. 4.58% kaolin.
107.0'	110.0'	2113	Kss - as above, 7.54% kaolin.
110.0'	115.0'	2114	Clay - light brown, greasy, friable.

70.08% kaolin.

115.0' 117.5' 2115 Clay - dark brown, competent, disc-like.
75.52% kaolin.

117.5' 119.0' 2116 Clay - similar to 110.0' - 115.0'. 67.47%
kaolin.

119.0' 121.0' 2117 Clay - dark brown, competent, disc-like.
80.78% kaolin.

121.0' 126.0' 2118 Clay - pliable, light to medium brown with
bands nearly perpendicular to the core,
becoming thinly banded towards the lower
contact with yellow, red and black
laminations. 48.91% kaolin.

126.0' 130.0' 2119 Sandy Clay - fine grain, light grey upper
contact. 22.15% kaolin.

130.0' 136.0' 2120 Kss - white, fine grain, minor illite and
heavies.

136.0' 141.0' 2121 Kss - as above. medium grain.

141.0' 145.0' 2122 Kss - as above, coarsening downsection, grey
clay banding, vari-coloured silica.

145.0' 150.0' 2123 Kss - grading downsection to coarse grain,
extremely coarse at 147.0', which is darker
grey clay with coarse grain material.

150.0' 155.0' 2124 Kss - coarse grain as above, light grey
rounded to sub-rounded quartz and yellow
chert.

155.0' 160.0' 2125 Kss - medium brown, minor illite and
heavies, coarse from 155.0' - 156.0', medium
from 156.0' 160.0'.

160.0' 165.0' 2126 Kss - coarse grain, as previous at (2124).

165.0' 171.0' 2127 Kss - as above.

171.0' 176.0' 2128 Kss - as above.

176.0' 179.75' 2129 Kss - medium grain, light brown, minor
illite.

179.75' 182.0' 2130 Sandy Clay - fine grain, quartz,
orange/brown & black alternating units
(tiger striped), high illite content.

182.0 185.0' 2131 Kss - medium brown, light brown, minor

Section 89-50

Claim No: 825802

Overburden Depth: 52.0'

Length: 250.0'

Scale: 1.0" = 50.0'

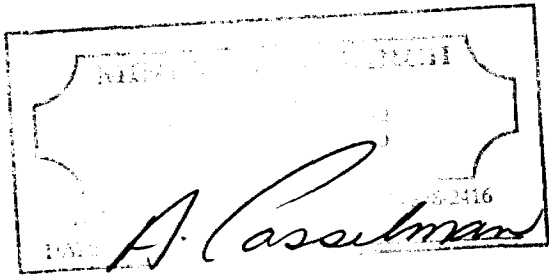
Northing: BLO N

Easting: 5600 E

Dip Collar: -90

200 S

BL. 00



89-50

Peat

Till

KSS

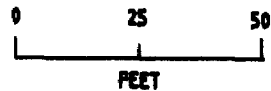
Clay (lf brn)
 Clay (hoc brn)
 Clay (lf brn)
 Clay (hoc brn)
 Clay (brn, red, blk)

KSS

Sandy Clay

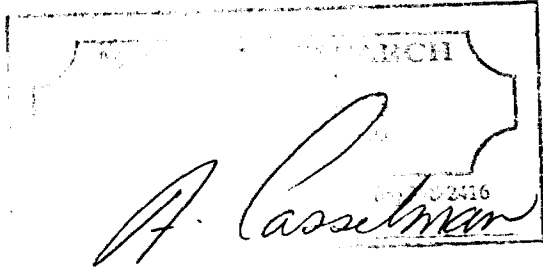
KSS

Clay (hoc brn)



18200 E

18400 E



Peat 89-50

Till

KSS - 7.43%

Clay (lt brn)
 Clay (choc brn)
 Clay (lt brn)
 Clay (choc brn)
 Clay (brn, red, blk) 52.77%

KSS

Sandy Clay
 KSS
 Sandy Clay
 KSS
 Sandy Clay

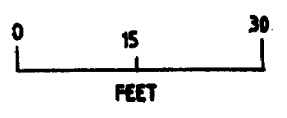
KSS

(Clay (choc brn))



89-50

- 2101
- 2102
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- 2146
- 2147



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 %	pH (20% SOLIDS)
<i>Slote 89-50</i> <i>2101</i>	+ 4	1.1	12.7	
	+ 40	37.0		
	+100	48.7		
	+200	5.0		
	+325	1.5		
	-325	14.7		
 <i>2102</i>	+ 4	0	11.8	
	+ 40	42.3		
	+100	43.8		
	+200	4.2		
	+325	0.8		
	-325	8.9		
 <i>2103</i>	+ 4	0.5	9.1	
	+ 40	73.4		
	+100	16.1		
	+200	2.2		
	+325	0.5		
	-325	7.3		
 <i>2104</i>	+ 4	0.1	11.1	
	+ 40	68.9		
	+100	21.3		
	+200	2.3		
	+325	0.7		
	-325	6.7		
 <i>2105</i>	+ 4	1.4	10.0	
	+ 40	64.6		
	+100	20.7		
	+200	3.3		
	+325	0.9		
	-325	9.1		

MINERAL RESEARCH CANADA

10.0

H. Malmstrom

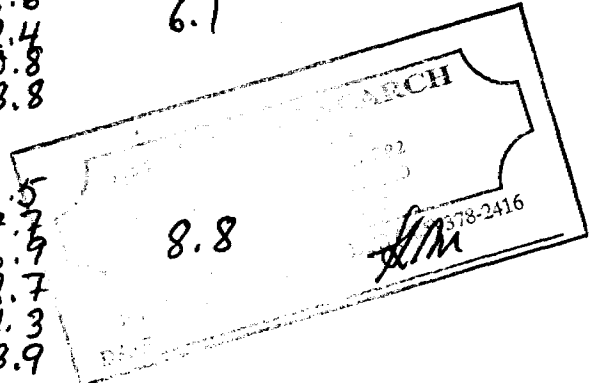
MINERAL RESEARCH CANADA

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

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
<i>Hole 89-50</i> 2106	+ 4	3.6	8.1	
	+ 40	42.8		
	+100	32.4		
	+200	4.4		
	+325	1.3		
	-325	15.5		
2107	+ 4	10.7	7.8	
	+ 40	60.6		
	+100	14.0		
	+200	4.0		
	+325	2.0		
	-325	9.3		
2108	+ 4	0	7.1	
	+ 40	78.3		
	+100	11.8		
	+200	1.9		
	+325	0.9		
	-325	7.1		
2109	+ 4	5.1	6.1	
	+ 40	74.3		
	+100	8.6		
	+200	2.4		
	+325	0.8		
	-325	8.8		
2110	+ 4	2.5	8.8	
	+ 40	67.7		
	+100	16.9		
	+200	2.7		
	+325	1.3		
	-325	8.9		



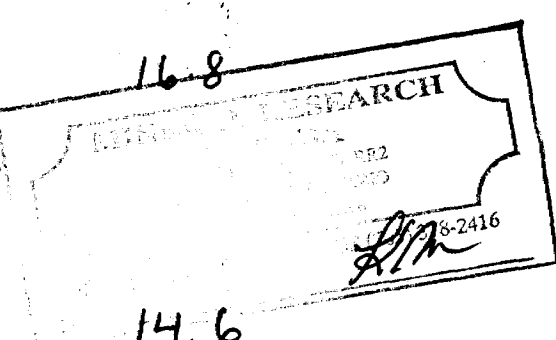
MINERAL RESEARCH CANADA

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

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
<i>Hole 89-50</i> 2111	+ 4	0.1	10.8	
	+ 40	53.0		
	+100	33.7		
	+200	1.7		
	+325	1.3		
	-325	10.2		
2112	+ 4	0	11.3	
	+ 40	47.1		
	+100	39.3		
	+200	3.2		
	+325	1.4		
	-325	9.0		
2113	+ 4	6.9	6.7	
	+ 40	54.2		
	+100	28.4		
	+200	1.4		
	+325	0.4		
	-325	8.7		
2114	+ 4	0.1	16.8	
	+ 40	7.0		
	+100	3.6		
	+200	0.6		
	+325	2.6		
	-325	86.1		
2115	+ 4	0	14.6	
	+ 40	0.9		
	+100	1.7		
	+200	5.6		
	+325	12.5		
	-325	79.3		



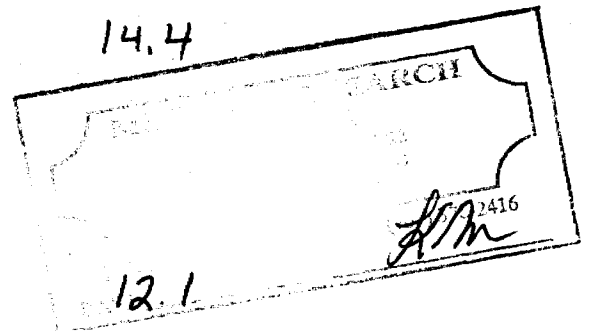
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1 INDUSTRIAL BLVD., RR2
 PARRY SOUND, ON. CANADA
 P2A 2W8

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
<i>hole 89-50</i> 2116	+ 4	0	17.3	
	+ 40	5.4		
	+100	4.2		
	+200	1.2		
	+325	5.4		
	-325	83.8		
2117	+ 4	0	15.6	
	+ 40	0.2		
	+100	0.2		
	+200	1.2		
	+325	6.3		
	-325	92.1		
2118	+ 4	0	13.4	
	+ 40	0.7		
	+100	12.2		
	+200	12.4		
	+325	8.1		
	-325	66.6		
2119	+ 4	0	14.4	
	+ 40	1.2		
	+100	64.9		
	+200	12.4		
	+325	4.1		
	-325	17.4		
2120	+ 4	0	12.1	
	+ 40	0.3		
	+100	80.8		
	+200	5.0		
	+325	1.9		
	-325	12.0		



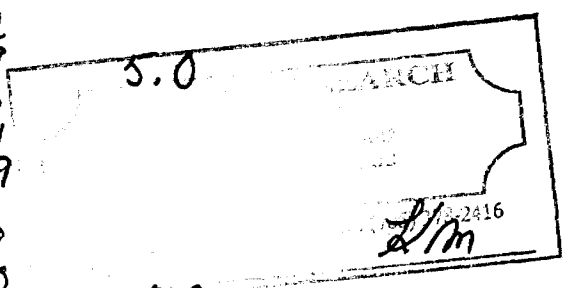
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1 INDUSTRIAL BLVD., RR2
 PARRY SOUND, ON. CANADA
 P2A 2W8

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
<i>106-89-50</i> <i>2121</i>	+ 4	0		
	+ 40	30.4		
	+100	58.2	10.8	
	+200	2.1		
	+325	1.0		
	-325	8.3		
 <i>2122</i>	+ 4	2.4		
	+ 40	79.2		
	+100	8.3	5.7	
	+200	2.1		
	+325	0.9		
	-325	7.1		
 <i>2123</i>	+ 4	7.3		
	+ 40	71.5		
	+100	9.9	6.1	
	+200	2.0		
	+325	0.9		
	-325	8.4		
 <i>2124</i>	+ 4	14.0		
	+ 40	60.2		
	+100	7.9	5.0	
	+200	2.6		
	+325	1.4		
	-325	13.9		
 <i>2125</i>	+ 4	18.9		
	+ 40	40.0		
	+100	26.1	6.8	
	+200	2.7		
	+325	1.1		
	-325	11.2		



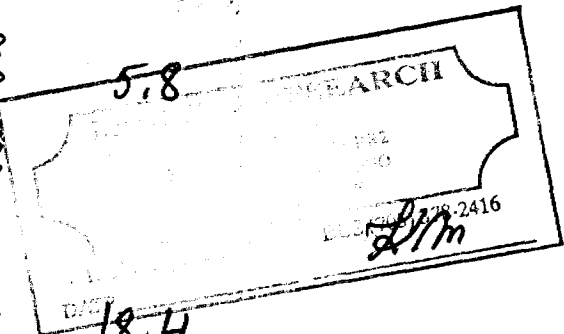
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1 INDUSTRIAL BLVD., RR2
 PARRY SOUND, ON. CANADA
 P2A 2W8

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
<i>Hole - 89-50</i> 2126	+ 4	36.3	5.2	
	+ 40	36.9		
	+100	13.2		
	+200	2.4		
	+325	1.8		
	-325	10.2		
2127	+ 4	8.8	7.2	
	+ 40	64.6		
	+100	11.8		
	+200	2.4		
	+325	1.4		
	-325	11.1		
2128	+ 4	18.5	6.9	
	+ 40	46.1		
	+100	23.2		
	+200	2.4		
	+325	1.1		
	-325	8.7		
2129	+ 4	0.3	5.8	
	+ 40	84.6		
	+100	6.6		
	+200	1.4		
	+325	0.3		
	-325	6.8		
2130	+ 4	0.9	18.4	
	+ 40	19.8		
	+100	24.5		
	+325	8.6		
	-325	46.2		



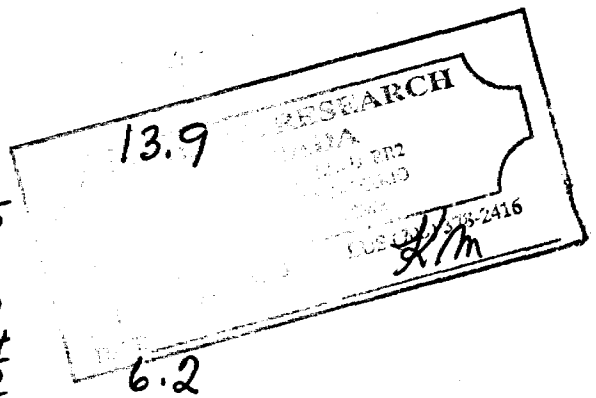
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1 INDUSTRIAL BLVD., RR2
 PARRY SOUND, ON. CANADA
 P2A 2W8

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
<i>Slot 89-50</i> 2131	+ 4	0	6.6	8.1
	+ 40	45.8		
	+100	42.4		
	+200	2.1		
	+325	0.9		
	-325	8.8		
2132	+ 4	8.0	8.1	8.1
	+ 40	59.2		
	+100	20.3		
	+200	2.1		
	+325	1.0		
	-325	9.4		
2133	+ 4	10.8	8.1	8.1
	+ 40	44.8		
	+100	13.8		
	+200	3.8		
	+325	2.1		
	-325	24.7		
2134	+ 4	0	13.9	8.1
	+ 40	9.2		
	+100	19.6		
	+200	8.7		
	+325	8.0		
	-325	54.5		
2135	+ 4	37.9	6.2	8.1
	+ 40	37.4		
	+100	10.5		
	+200	2.5		
	+325	1.1		
	-325	10.6		



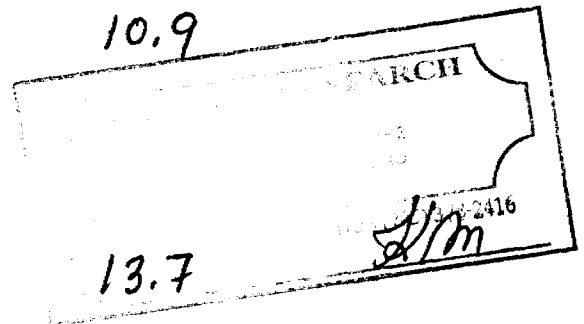
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1 INDUSTRIAL BLVD., RR2
 PARRY SOUND, ON. CANADA
 P2A 2W8

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
<i>Hole 89-50</i> 2136	+ 4	10.8	9.6	
	+ 40	58.6		
	+100	12.0		
	+200	3.3		
	+325	1.7		
	-325	13.6		
2137	+ 4	0	9.4	
	+ 40	51.0		
	+100	34.4		
	+200	3.5		
	+325	1.4		
	-325	9.7		
2138	+ 4	0	7.0	
	+ 40	12.0		
	+100	62.3		
	+200	6.0		
	+325	1.9		
	-325	17.8		
2139	+ 4	0	10.9	
	+ 40	16.8		
	+100	33.4		
	+200	1.1		
	+325	0.7		
	-325	48.0		
2140	+ 4	0.1	13.7	
	+ 40	43.8		
	+100	33.6		
	+200	5.3		
	+325	2.1		
	-325	15.2		



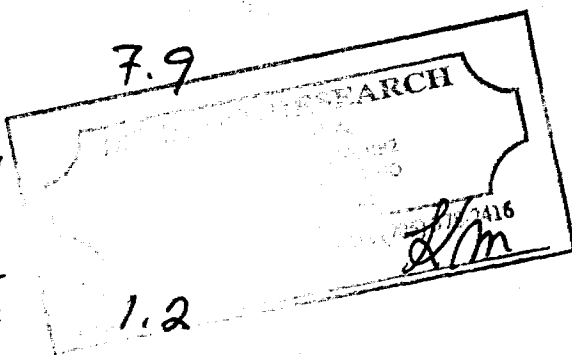
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1 INDUSTRIAL BLVD., RR2
 PARRY SOUND, ON. CANADA
 P2A 2W8

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
<i>Hole 89-50</i> 2141	+ 4	0	11.7	
	+ 40	31.1		
	+100	54.2		
	+200	2.2		
	+325	1.1		
	-325	11.4		
2142	+ 4	0.9	10.0	
	+ 40	72.1		
	+100	9.8		
	+200	3.9		
	+325	1.4		
	-325	11.9		
2143	+ 4	11.2	4.7	
	+ 40	69.0		
	+100	5.6		
	+200	1.9		
	+325	1.2		
	-325	11.1		
2144	+ 4	0.1	7.9	
	+ 40	60.2		
	+100	27.5		
	+200	1.7		
	+325	0.8		
	-325	9.7		
2145	+ 4	11.9	1.2	
	+ 40	67.5		
	+100	5.7		
	+200	2.3		
	+325	1.5		
	-325	11.1		



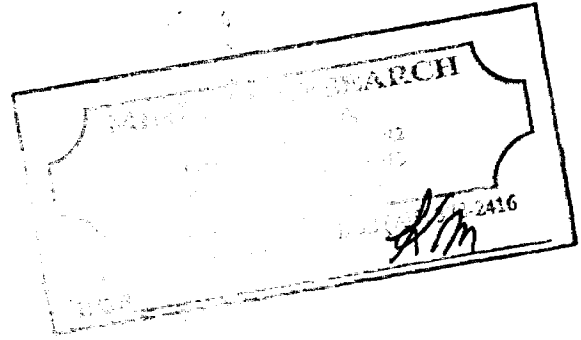
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1 INDUSTRIAL BLVD., RR2
 PARRY SOUND, ON. CANADA
 P2A 2W8

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
<i>Slot 89-50</i> 2146	+ 4	0.5	11.2	
	+ 40	3.4		
	+100	25.5		
	+200	24.3		
	+325	5.9		
	-325	40.7		
 2147	+ 4	2	14.2	
	+ 40	2.1		
	+100	2.7		
	+200	13.4		
	+325	11.8		
	-325	70.0		
	+ 4			
	+ 40			
	+100			
	+200			
	+325			
	-325			
	+ 4			
	+ 40			
	+100			
	+200			
	+325			
	-325			



SAMPLE DIRECTION/NUMBER: DATA 7154
 SAMPLE ID: Note 29-50 #2101
 SCRIPPER: James Day Co.
 OPERATOR: Kaelin
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 25.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 14:27:47 03/22/69
 REPRN 14:45:32 03/22/69
 TOT RUN TIME 0:17:24
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7176 cp

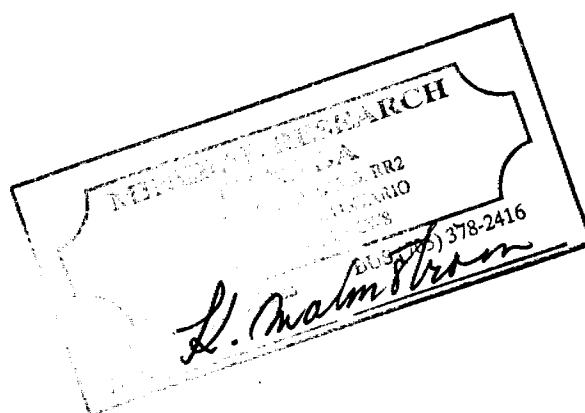
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.70 μ m MODAL DIAMETER: 0.92 μ m

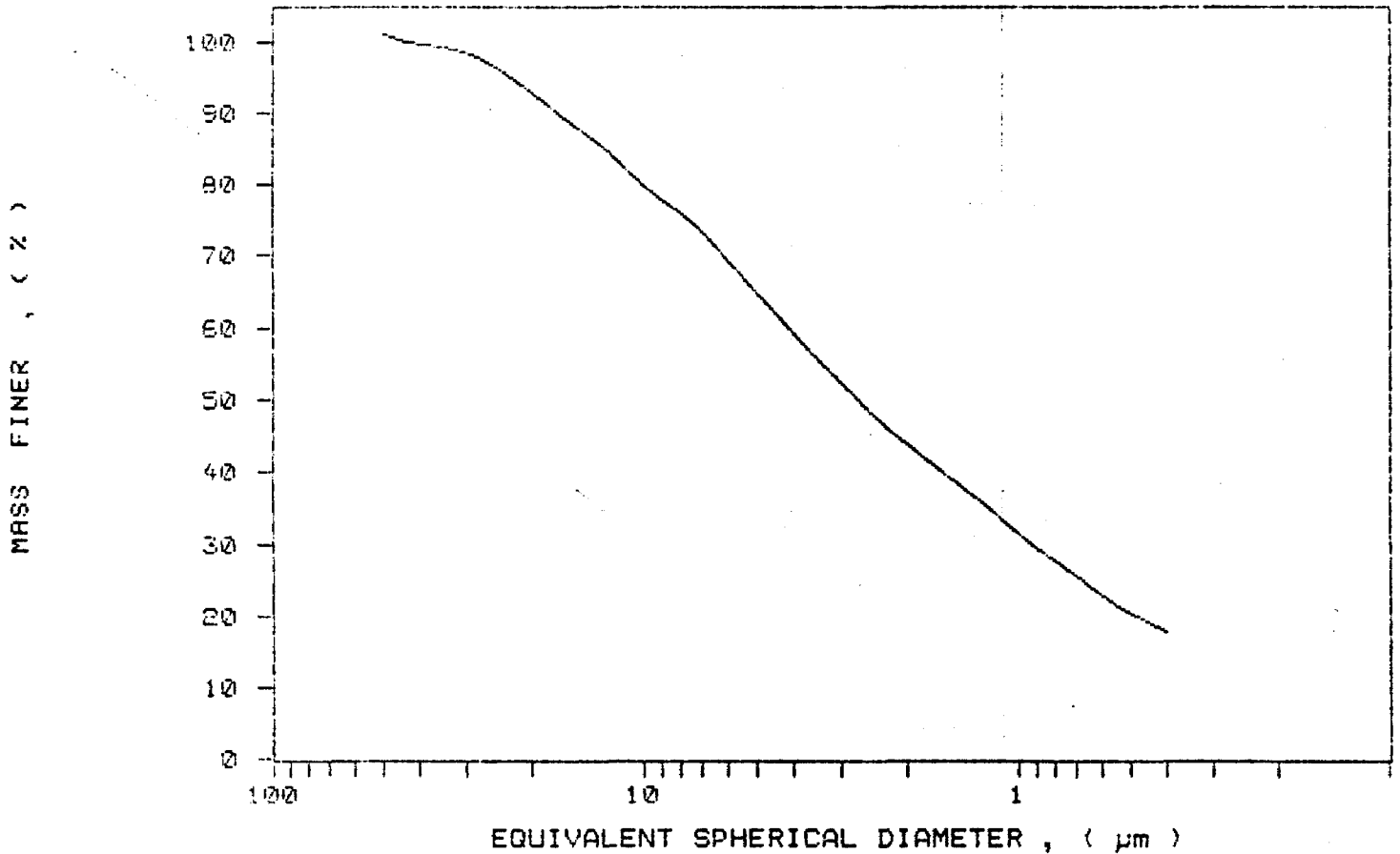
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	101.0	-1.0
40.00	99.6	1.4
30.00	98.4	1.2
25.00	96.4	1.9
20.00	92.9	3.5
15.00	87.9	5.0
10.00	79.9	8.0
8.00	75.9	3.9
6.00	69.4	6.5
5.00	64.6	4.7
4.00	56.2	8.5
3.00	32.4	23.8
2.50	44.0	11.6
1.50	38.9	5.0
1.00	31.4	7.6
0.80	27.5	3.8
0.60	22.9	4.7
0.50	20.4	2.5
0.40	17.8	2.6



SAMPLE DIRECTORY/NUMBER: DATA1 /154
SAMPLE ID: Hole 89-50 #2101
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: water
ANALYSIS TEMP: 35.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 14:27:47 09/28/89
REPT 14:45:32 09/28/89
TOT RUN TIME 0:17:24
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7176 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA1 /155
 SAMPLE ID: Hole 89-50 #2102
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 15:27:32 09/28/89
 REPT 15:45:17 09/28/89
 TOT RUN TIME 0:17:25
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7175 cp

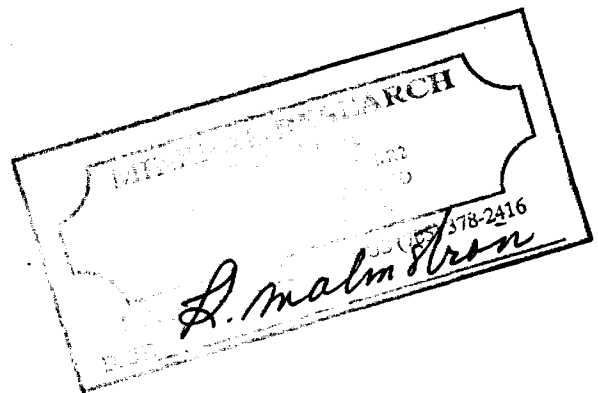
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.94 μ m MODAL DIAMETER: 3.38 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	97.8	2.2
40.00	97.8	-0.1
30.00	97.6	0.3
25.00	96.5	1.0
20.00	94.0	2.5
15.00	90.8	3.3
10.00	86.6	4.1
8.00	83.7	3.0
6.00	78.4	5.3
5.00	74.2	4.2
4.00	68.7	5.5
3.00	60.3	8.3
2.00	50.7	9.6
1.50	44.6	6.1
1.00	35.7	8.9
0.80	31.2	4.5
0.60	25.7	5.5
0.50	21.9	3.8
0.40	16.7	5.3



SAMPLE DIRECTORY/NUMBER: DATA1 /155

SAMPLE ID: Hole 89-50 #2102

SUBMITTER: James Bay Co.

OPERATOR: Kaarina

SAMPLE TYPE: Clay

LIQUID TYPE: Water
ANALYSIS TEMP: 35.03 deg C

RUN TYPE: Standard

UNIT NUMBER: 1

START 15:27:32 09/28/89

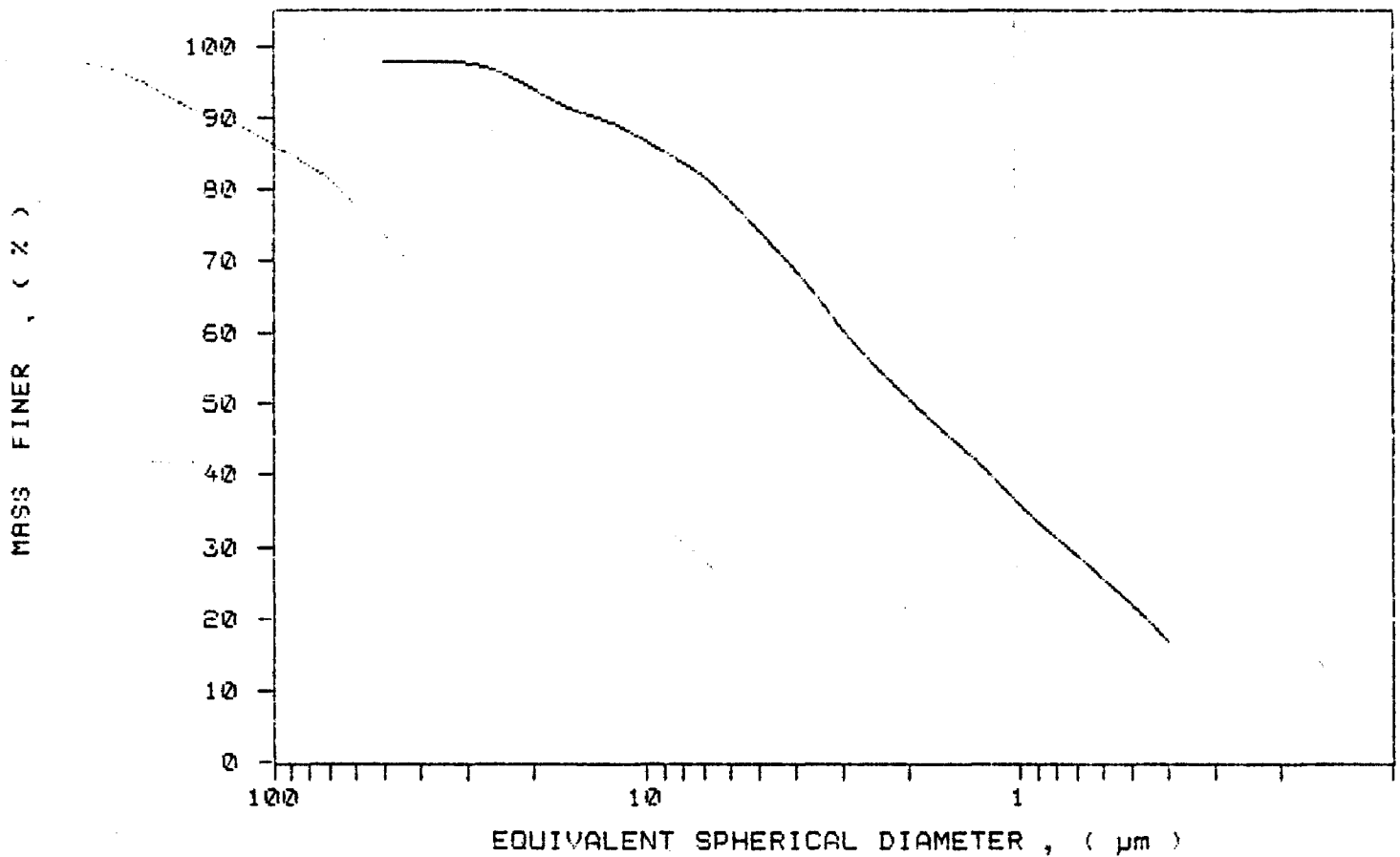
REPR 15:45:17 09/28/89

TOT RUN TIME 0:17:25

SAM DENS: 2.6500 g/cc

Liq VISC: 0.7979 g/cc

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA1 /157
 SAMPLE ID: Hole 89-50 #2108
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.4 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 08:24:51 09/29/89
 REPR 08:42:37 09/29/89
 TOT RUN TIME 0:17:29
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7174 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.55 μ m MODAL DIAMETER: 50.00 μ m

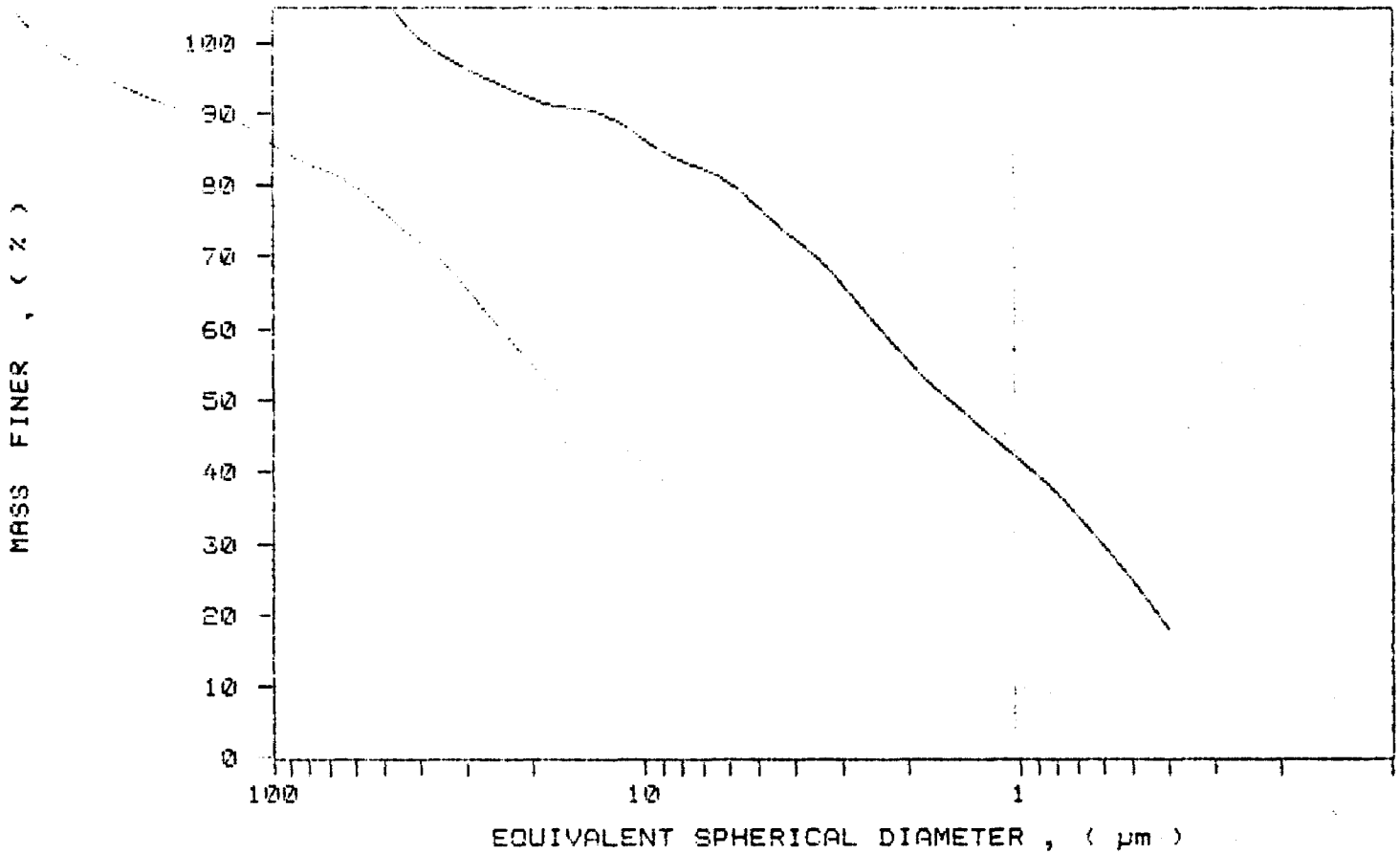
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	106.4	-6.4
40.00	100.5	5.9
30.00	96.3	4.2
25.00	94.4	2.0
20.00	92.1	2.3
15.00	90.6	1.4
10.00	86.3	4.4
8.00	83.5	2.8
6.00	80.5	3.0
5.00	77.0	3.5
4.00	72.6	4.4
3.00	66.2	6.4
2.00	55.6	10.6
1.50	49.4	6.2
1.00	41.6	7.7
0.80	37.0	4.6
0.60	29.7	7.4
0.50	24.7	5.0
0.40	18.0	6.7

RESEARCH
 L. Malmstrom
 (714) 378-2416

SAMPLE DIRECTORY/NUMBER: DATA 7157
SAMPLE ID: Hole 09-50 #2100
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.4 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 08:24:51 09/29/89
REPT 00:42:37 09/29/89
TOT RUN TIME 0:17:29
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7174 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

SAMPLE ID: Hole 89-56 #2104
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 55.4 deg C RUN TYPE: Standard

START 09:04:56 09/29/89
 REPRY 09:22:09 09/29/89
 TOT RUN TIME 0:16:54
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7178 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.40 μ m MODAL DIAMETER: 0.73 μ m

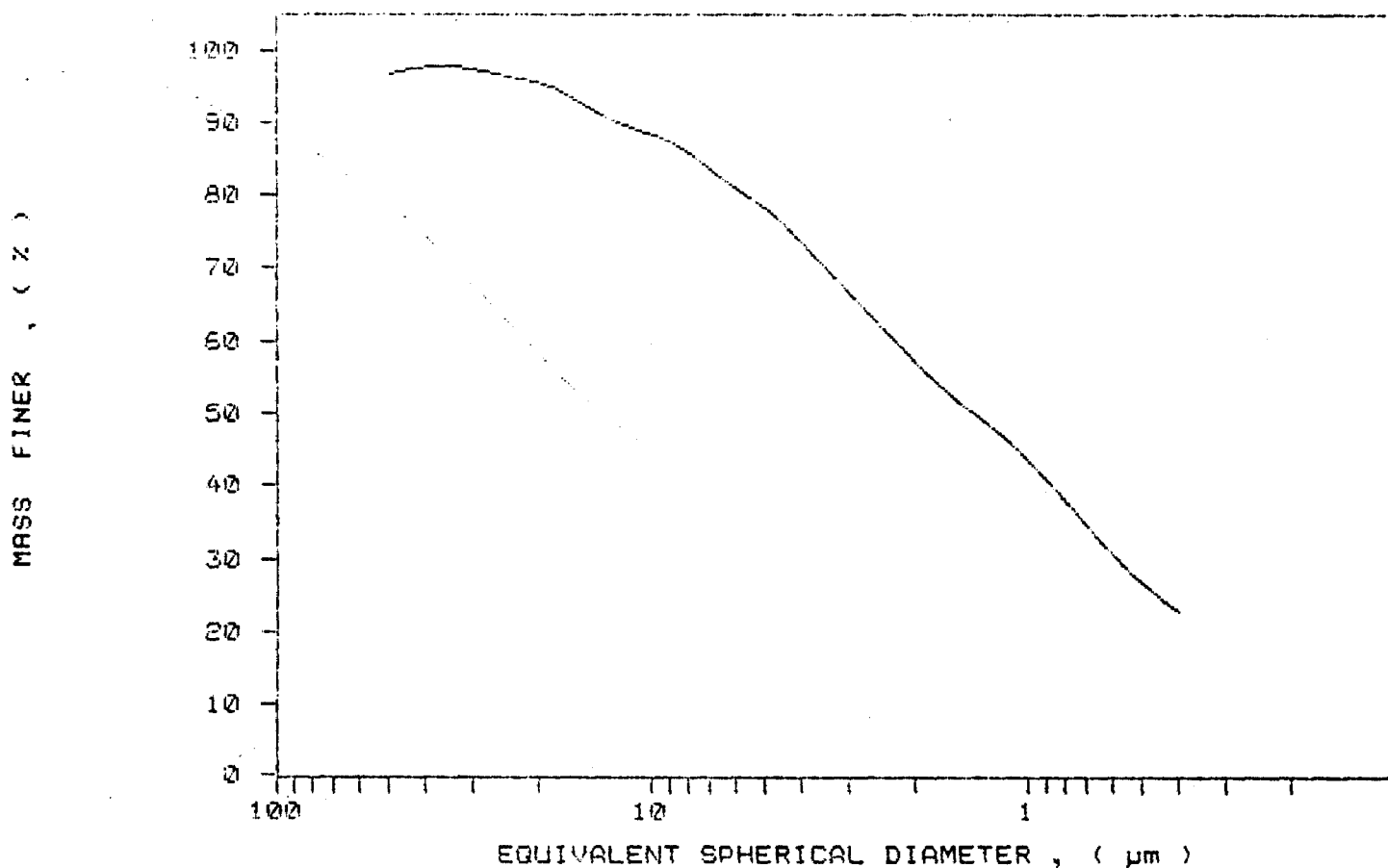
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	96.6	3.4
40.00	97.6	-1.0
30.00	97.4	0.2
25.00	96.5	0.9
20.00	95.5	1.0
15.00	92.3	3.2
10.00	88.3	4.0
8.00	85.8	2.5
6.00	80.9	4.9
5.00	78.2	2.7
4.00	73.6	4.6
3.00	66.6	6.9
2.00	57.1	9.5
1.50	51.2	5.8
1.00	43.3	8.0
0.80	37.8	5.4
0.60	30.5	7.3
0.50	26.6	3.9
0.40	22.9	3.7

MINERAL RESEARCH
 CORPORATION
 378-2416
D. Malmstrom

UNIT NUMBER: 1
START 09:04:56 09/29/8
REPT 09:22:09 09/29/8
TOT RUN TIME 0:16:5
SAM DENS: 2.6500 g/c
LIQ DENS: 0.9940 g/c
LIQ VISC: 0.7173 cp

SAMPLE ID: Hole 50-50 #2104
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 55.4 deg C RUN TYPE: Standard

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

SAMPLE ID: Hole 89-50 #2105

SUBMITTER: James Bay Co.

OPERATOR: Kaarina

SAMPLE TYPE: Clay

LIQUID TYPE: Water

ANALYSIS TEMP: 35.4 deg C RUN TYPE: Standard

START 09:34:41 09/29/89

REPRT 09:51:52 09/29/89

TOT RUN TIME 0:16:51

SAM DENS: 2.6500 g/cc

LIQ DENS: 0.9940 g/cc

LIQ VISC: 0.7173 cp

STARTING DIAMETER: 50.00 μ m

ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22

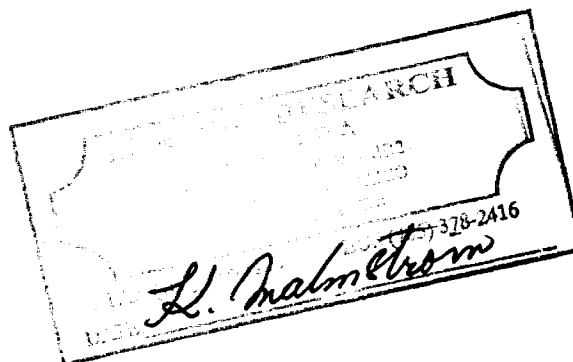
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.41 μ m

MODAL DIAMETER: 0.40 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.8	1.2
40.00	98.2	0.6
30.00	96.8	1.4
25.00	96.2	0.7
20.00	94.7	1.5
15.00	91.4	3.3
10.00	86.7	4.7
8.00	83.4	3.3
6.00	78.4	5.0
5.00	75.6	2.8
4.00	71.4	4.2
3.00	64.9	6.5
2.00	57.0	7.9
1.50	51.0	6.0
1.00	44.2	6.8
0.80	39.9	4.3
0.60	34.5	5.4
0.50	31.1	3.4
0.40	26.1	5.0



SAMPLE ID: Hole 89-50 #2105

SUBMITTER: James Bay Co.

LABORATOR: Kaarina

SAMPLE TYPE: Clay

LIQUID TYPE: Water

ANALYSIS TEMP: 35.4 deg C

RUN TYPE: Standard

START 09:34:41 09/29/89

REPR 09:51:52 09/29/89

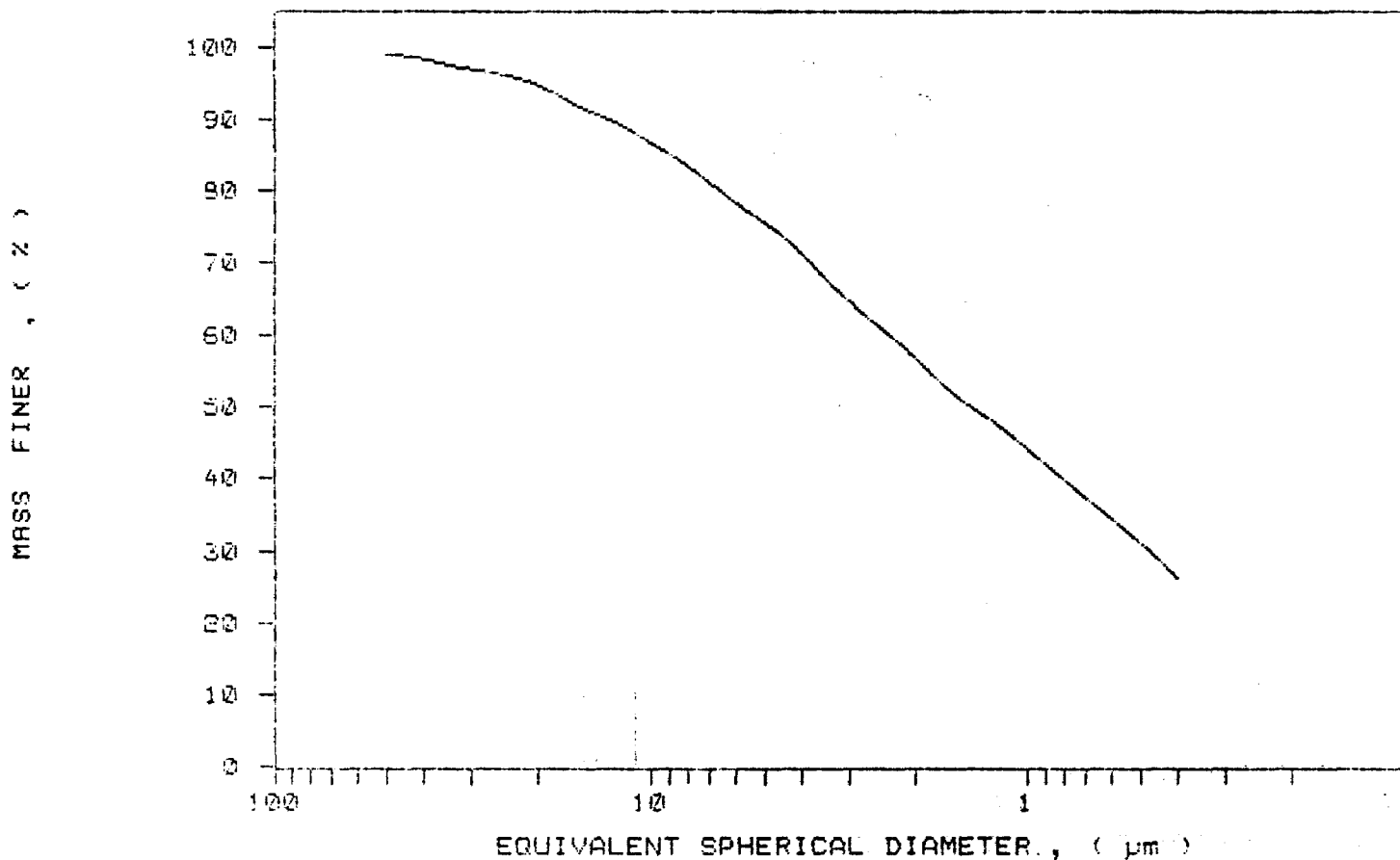
TOT RUN TIME 0:16:51

SAM DENS: 2.6500 g/cc

LIQ DENS: 0.9940 g/cc

LIQ VISC: 0.7173 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

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PAGE 1

SAMPLE DIRECTORY/NUMBER: SECOND /312
 SAMPLE ID: Hole 2950- # 2106
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.4 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 14:12:02 12/18/89
 REPT 14:29:53 12/18/89
 TOT RUN TIME 0:17:28
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7173 cp

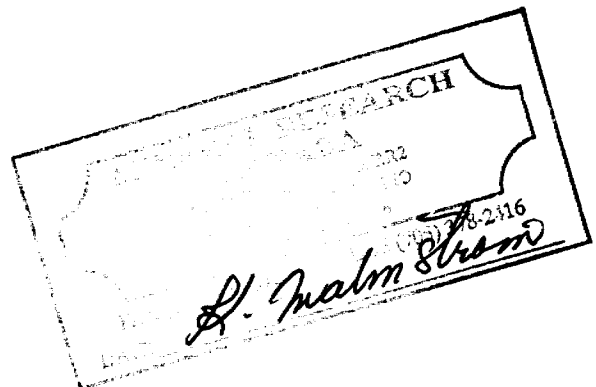
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.42 μ m MODAL DIAMETER: 0.40 μ m

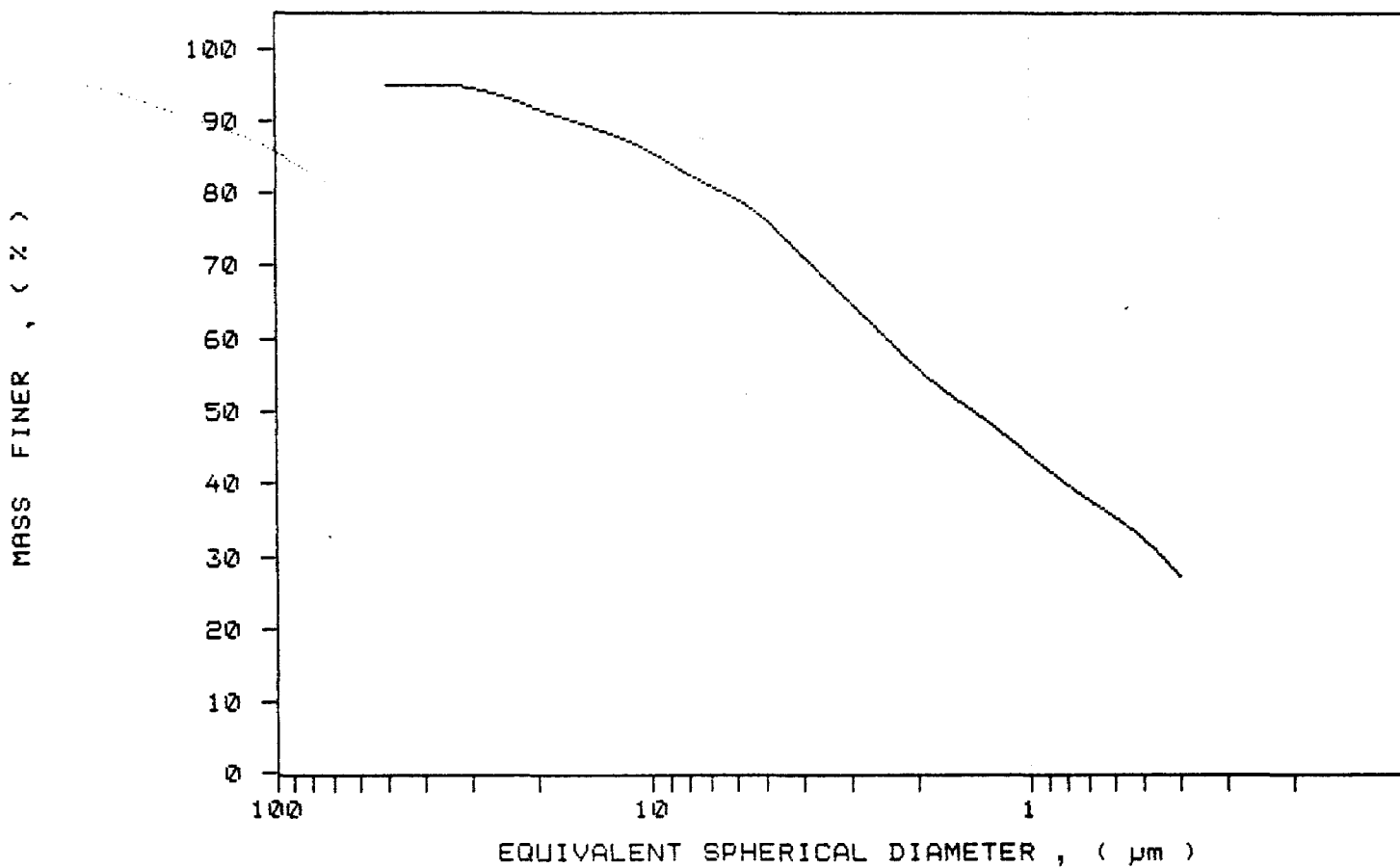
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	95.0	5.0
40.00	95.0	-0.0
30.00	94.6	0.4
25.00	93.6	1.0
20.00	91.7	1.8
15.00	89.5	2.2
10.00	85.6	3.9
8.00	82.6	3.0
6.00	79.2	3.3
5.00	76.3	3.0
4.00	71.4	4.9
3.00	64.8	6.6
2.00	55.9	9.0
1.50	50.9	5.0
1.00	43.8	7.1
0.80	39.6	3.9
0.60	35.4	4.4
0.50	32.2	3.2
0.40	27.1	5.1



SAMPLE DIRECTORY/NUMBER: SECOND /312
SAMPLE ID: Hole 8950- # 2106
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.4 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 14:12:02 12/18/89
REPRT 14:29:53 12/18/89
TOT RUN TIME 0:17:28
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7173 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /313
 SAMPLE ID: Hole 8950- # 2107
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.4 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 14:53:47 12/18/89
 REPRT 15:11:04 12/18/89
 TOT RUN TIME 0:16:53
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7171 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.38 μ m MODAL DIAMETER: 0.40 μ m

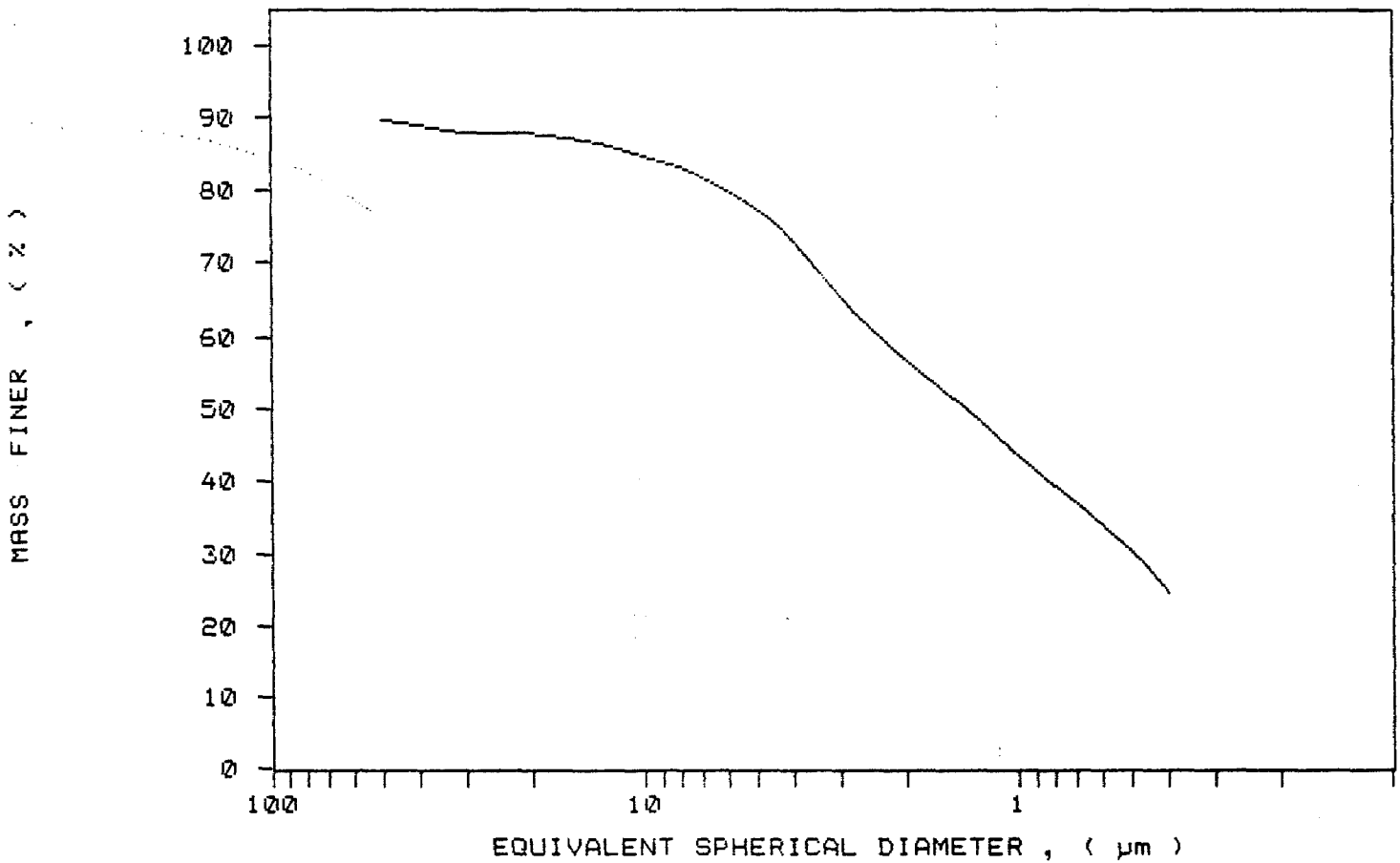
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	89.7	10.3
40.00	88.9	0.8
30.00	87.9	1.0
25.00	87.7	0.1
20.00	87.7	0.0
15.00	86.9	0.8
10.00	84.6	2.3
8.00	83.1	1.5
6.00	79.9	3.2
5.00	77.4	2.5
4.00	72.9	4.5
3.00	65.4	7.6
2.00	56.8	8.6
1.50	51.5	5.3
1.00	43.4	8.1
0.80	39.3	4.1
0.60	33.9	5.4
0.50	30.2	3.7
0.40	24.6	5.6

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SAMPLE DIRECTORY/NUMBER: SECOND /313
SAMPLE ID: Hole 8950- # 2107
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.4 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 14:53:47 12/18/89
REPT 15:11:04 12/18/89
TOT RUN TIME 0:16:53
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7171 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /314
 SAMPLE ID: Hole 8950- 3 2108
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.4 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 15:34:58 12/18/89
 REPR 15:52:12 12/18/89
 TOT RUN TIME 0:16:51
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7172 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

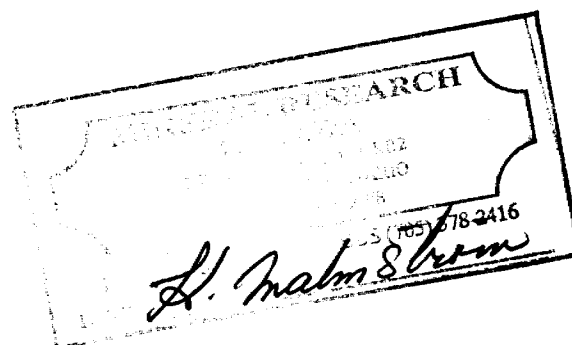
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.67 μ m

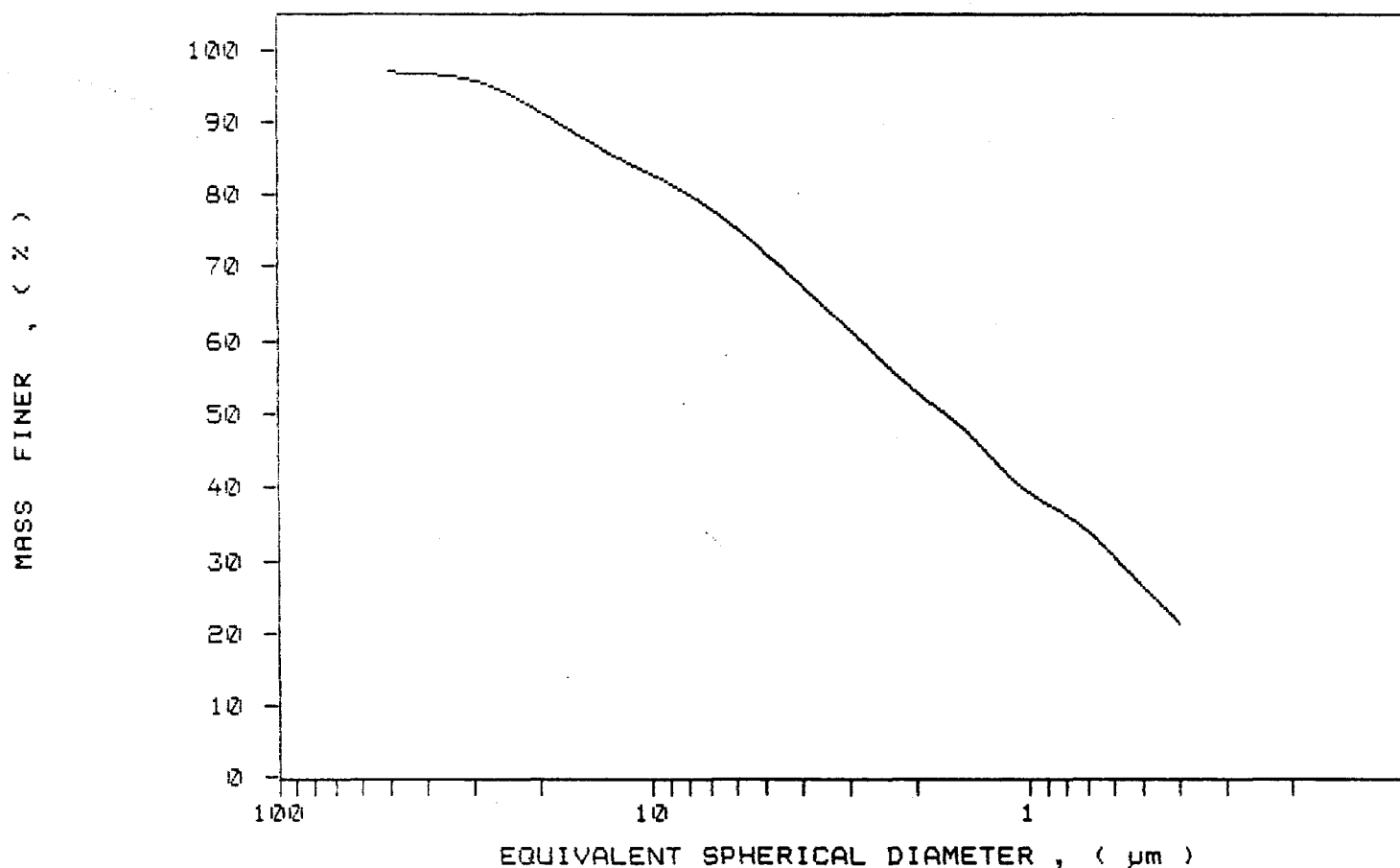
MODAL DIAMETER: 1.31 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	97.0	3.0
40.00	96.6	0.3
30.00	95.7	0.9
25.00	94.3	1.4
20.00	91.5	2.8
15.00	87.6	3.9
10.00	82.8	4.8
8.00	80.1	2.7
6.00	75.4	4.7
5.00	72.0	3.4
4.00	67.4	4.5
3.00	61.6	5.8
2.00	53.0	8.6
1.50	48.0	5.0
1.00	39.3	8.8
0.80	36.2	3.1
0.60	30.5	5.7
0.50	26.3	4.2
0.40	21.3	5.0



SAMPLE DIRECTORY/NUMBER: SECOND /314	UNIT NUMBER: 1
SAMPLE ID: Hole 8950- 3 2108	START 15:34:58 12/18/89
SUBMITTER: James Bay Co.	REPRT 15:52:12 12/18/89
OPERATOR: Kaarina	TOT RUN TIME 0:16:51
SAMPLE TYPE: Clay	SAM DENS: 2.6500 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9940 g/cc
ANALYSIS TEMP: 35.4 deg C	LIQ VISC: 0.7172 cp
RUN TYPE: Standard	

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /315
 SAMPLE ID: Hole 89-50 3 2109
 SUBMITTER: James bay co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.4 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 16:11:08 12/18/89
 REPRT 16:29:00 12/18/89
 TOT RUN TIME 0:17:27
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7170 cp

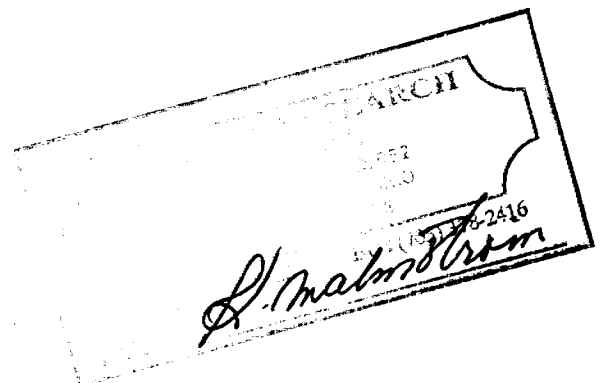
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.27 μ m MODAL DIAMETER: 0.40 μ m

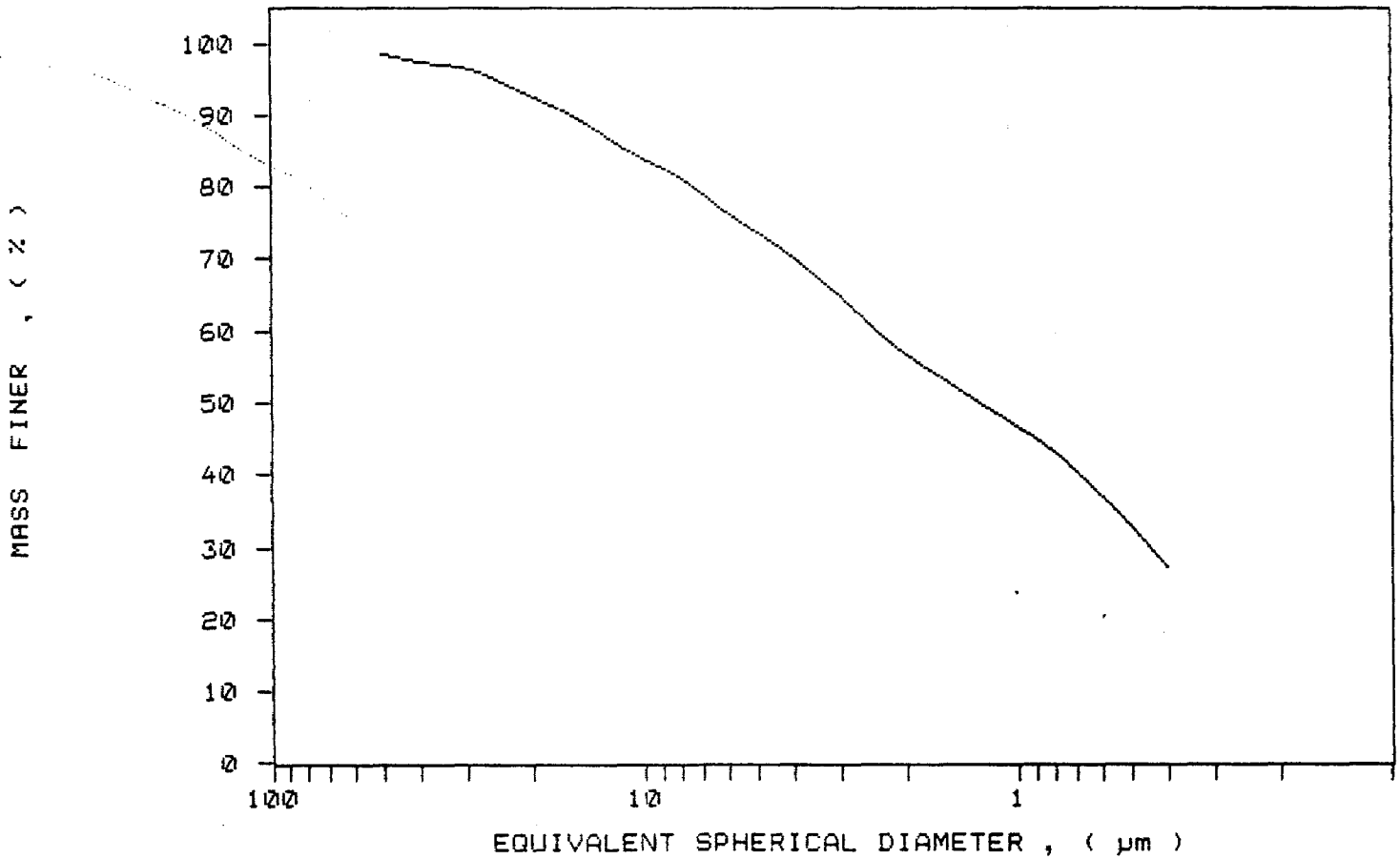
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.5	1.5
40.00	97.5	1.0
30.00	96.5	0.9
25.00	95.1	1.5
20.00	92.7	2.4
15.00	89.5	3.2
10.00	83.9	5.6
8.00	81.3	2.6
6.00	76.3	4.9
5.00	73.8	2.6
4.00	70.3	3.5
3.00	64.9	5.4
2.00	56.8	8.1
1.50	52.5	4.3
1.00	46.6	5.9
0.80	43.0	3.6
0.60	36.9	6.1
0.50	32.7	4.2
0.40	27.1	5.6



SAMPLE DIRECTORY/NUMBER: SECOND /315
SAMPLE ID: Hole 89-50 3 2109
SUBMITTER: James bay co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.4 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 16:11:08 12/18/89
REPT 16:29:00 12/18/89
TOT RUN TIME 0:17:27
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7170 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



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Kaolin

PAGE 1

SAMPLE DIRECTORY/NUMBER: SECOND /316
SAMPLE ID: Hole 89-50 # 2110
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 36.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 09:55:14 12/20/89
REPT 10:12:20 12/20/89
TOT RUN TIME 0:16:43
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9937 g/cc
LIQ VISC: 0.7047 cp

STARTING DIAMETER: 50.00 μ m
ENDING DIAMETER: 0.40 μ m

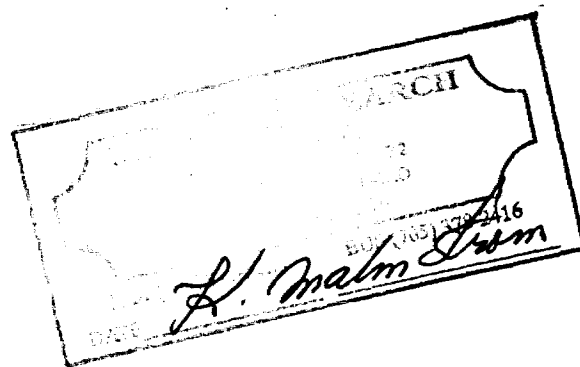
REYNOLDS NUMBER: 0.23
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.82 μ m

MODAL DIAMETER: 2.34 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	104.1	-4.1
40.00	101.9	2.2
30.00	100.2	1.7
25.00	99.0	1.2
20.00	96.9	2.1
15.00	94.9	2.0
10.00	91.0	3.9
8.00	86.3	4.7
6.00	77.7	8.6
5.00	71.1	6.6
4.00	62.8	8.3
3.00	52.6	10.2
2.00	32.9	19.7
1.50	22.6	10.2
1.00	17.0	5.6
0.80	15.2	1.9
0.60	13.9	1.3
0.50	12.3	1.6
0.40	10.3	1.9



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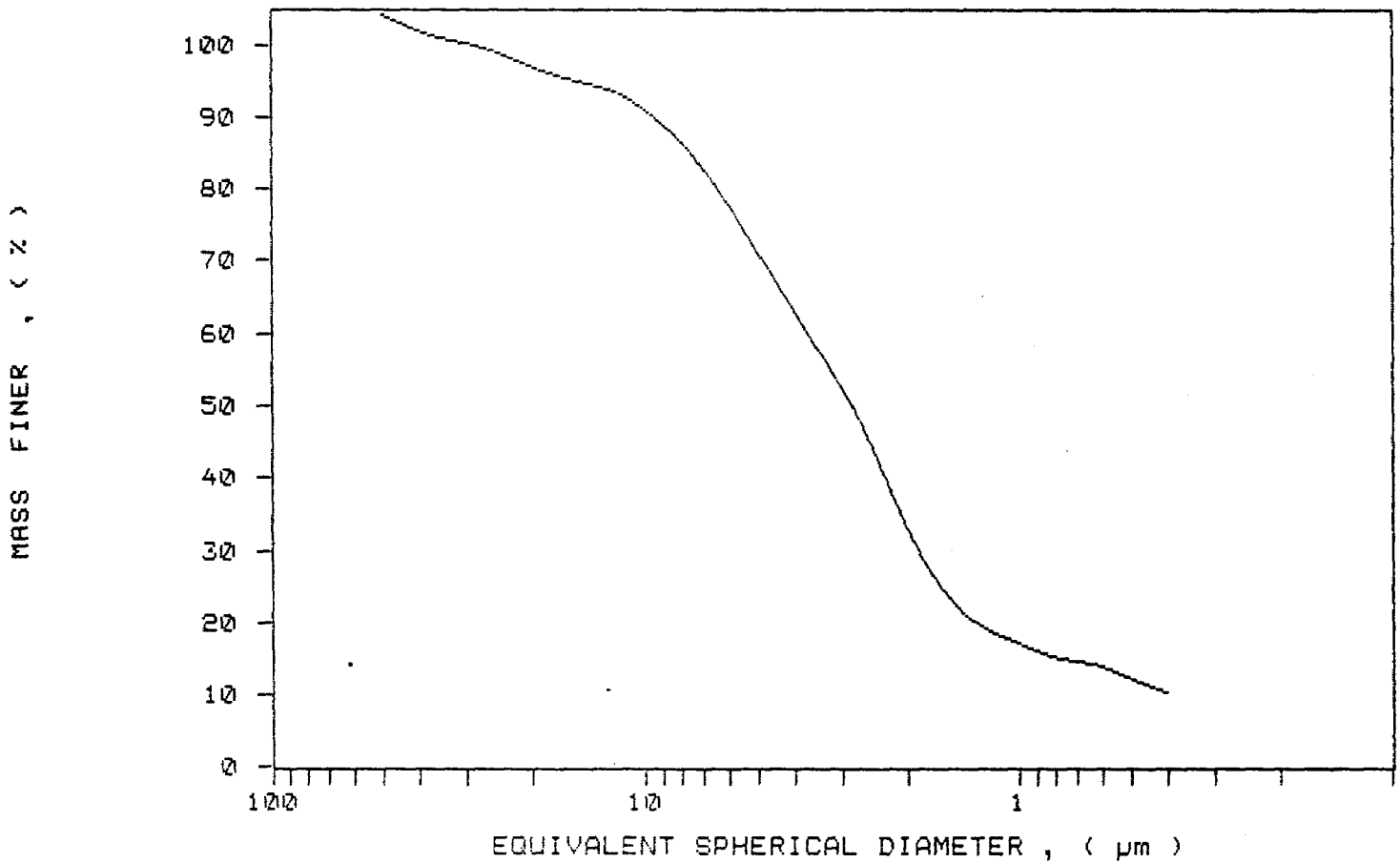
SediGraph 5100 V2.00

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SAMPLE DIRECTORY/NUMBER: SECOND /316
SAMPLE ID: Hole 89-50 # 2110
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 36.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 09:55:14 12/20/89
REPT 10:12:20 12/20/89
TOT RUN TIME 0:16:43
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9987 g/cc
LIQ VISC: 0.7047 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

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SAMPLE DIRECTORY/NUMBER: SECOND /317
 SAMPLE ID: Hole 89-50 # 2111
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 36.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:44:09 12/20/89
 REPT 11:01:36 12/20/89
 TOT RUN TIME 0:17:05
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9937 g/cc
 LIQ VISC: 0.7052 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.23
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.11 μ m

MODAL DIAMETER: 0.52 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.7	1.3
40.00	97.9	0.8
30.00	96.5	1.4
25.00	94.9	2.2
20.00	91.9	2.4
15.00	88.6	3.3
10.00	83.6	5.0
8.00	80.1	3.5
6.00	75.8	4.3
5.00	72.8	2.9
4.00	69.5	3.3
3.00	65.5	4.0
2.00	58.4	7.1
1.50	54.8	3.6
1.00	47.8	7.0
0.80	43.2	4.6
0.60	37.6	5.6
0.50	33.4	4.2
0.40	28.5	4.9

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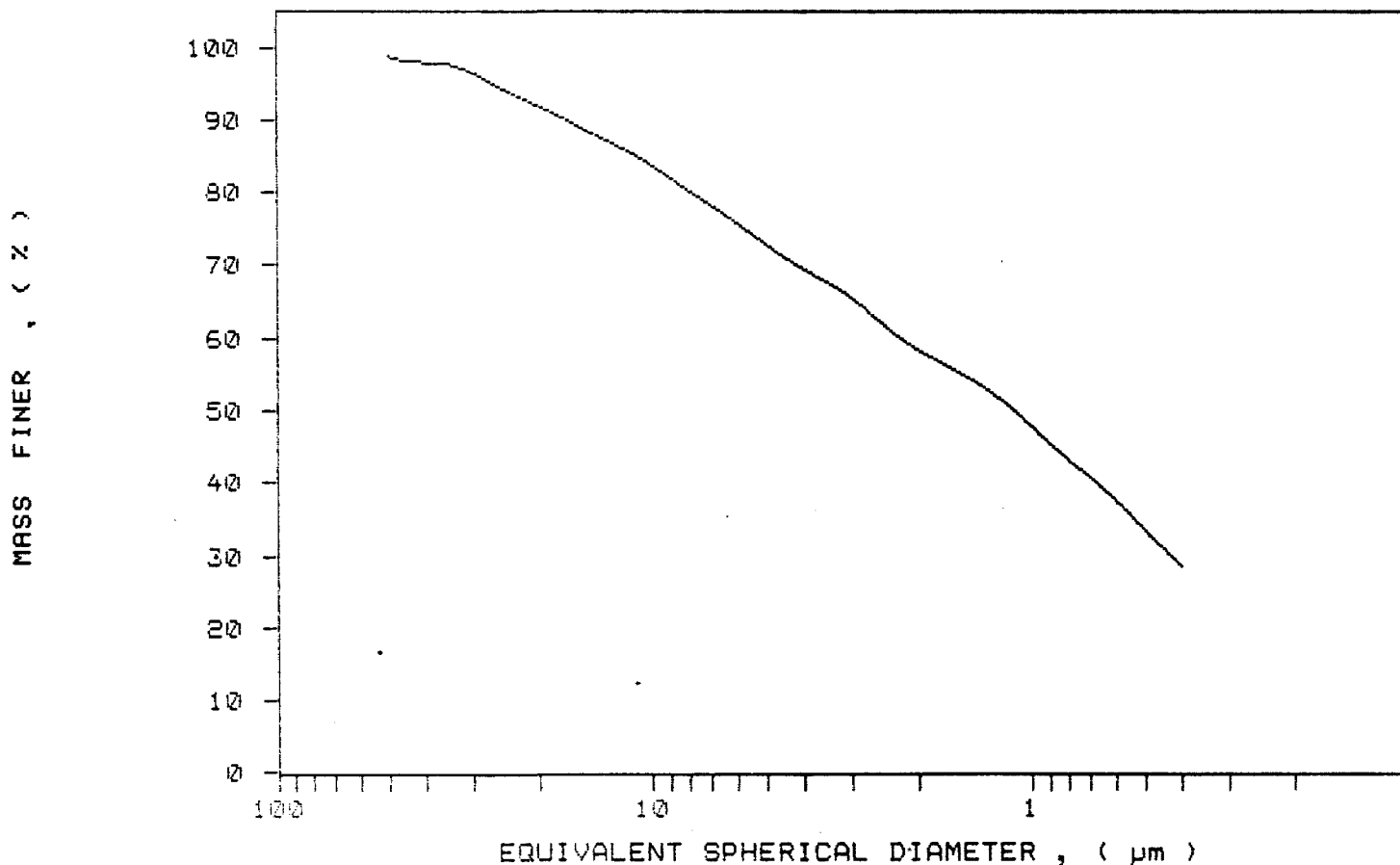
SediGraph 5100 V2.00

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SAMPLE DIRECTORY/NUMBER: SECOND /317
SAMPLE ID: Hole 89-50 # 2111
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 36.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 10:44:09 12/20/89
REPRT 11:01:36 12/20/89
TOT RUN TIME 0:17:05
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9937 g/cc
LIQ VISC: 0.7052 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

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PAGE 1

SAMPLE DIRECTORY/NUMBER: SECOND /318
 SAMPLE ID: Hole 89-50 # 2112
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 36.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 11:25:30 12/20/89
 REPR 11:42:33 12/20/89
 TOT RUN TIME 0:16:40
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9937 g/cc
 LIQ VISC: 0.7048 cp

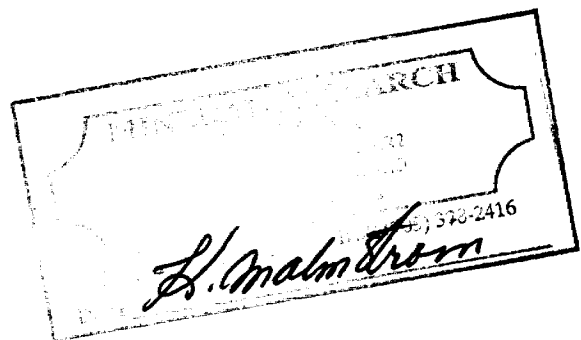
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.23
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.53 μ m MODAL DIAMETER: 2.78 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.9	0.1
40.00	98.1	1.8
30.00	96.4	1.7
25.00	95.1	1.4
20.00	92.7	2.4
15.00	88.6	4.1
10.00	82.5	6.1
8.00	78.2	4.3
6.00	71.3	6.9
5.00	67.1	4.3
4.00	61.9	5.2
3.00	54.5	7.3
2.00	44.2	10.4
1.50	37.5	6.7
1.00	29.0	8.5
0.80	24.7	4.3
0.60	19.9	4.8
0.50	16.9	3.0
0.40	12.8	4.1



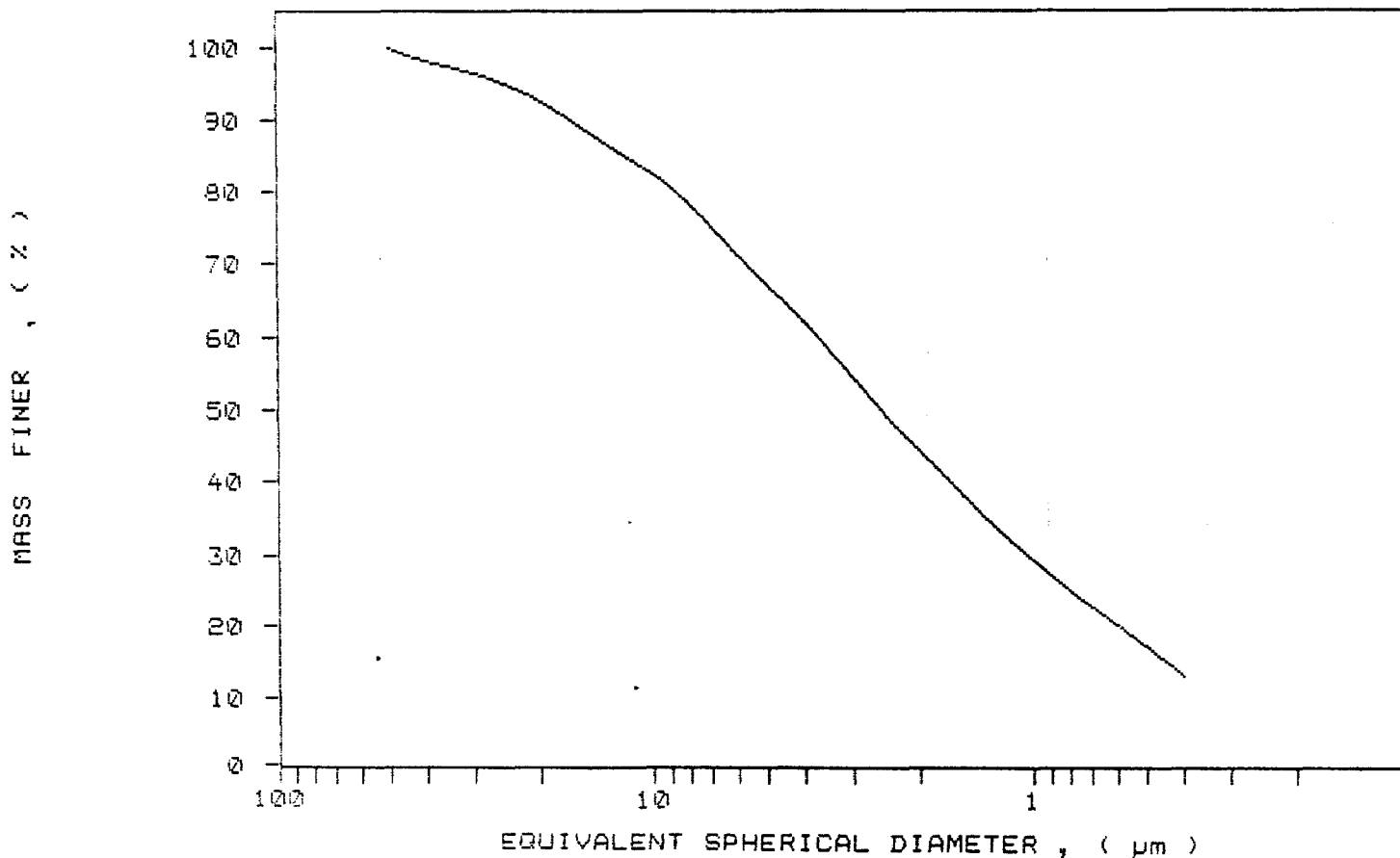
Kaolin

SediGraph 5100 V2.00

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SAMPLE DIRECTORY/NUMBER: SECONO /318	UNIT NUMBER: 1
SAMPLE ID: Hole 89-50 # 2112	START 11:25:30 12/20/89
SUBMITTER: James Bay Co.	REPRT 11:42:33 12/20/89
OPERATOR: Kaarina	TOT RUN TIME 0:16:40
SAMPLE TYPE: Clay	SAM DENS: 2.6500 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9937 g/cc
ANALYSIS TEMP: 36.3 deg C	LIQ VISC: 0.7048 cp
RUN TYPE: Standard	

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

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SAMPLE DIRECTORY/NUMBER: SECOND /319
SAMPLE ID: Hole 89-50 # 2113
SUBMITTER: James bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 36.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 11:55:11 12/20/89
REPRT 12:12:09 12/20/89
TOT RUN TIME 0:16:36
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9937 g/cc
LIQ VISC: 0.7047 cp

STARTING DIAMETER: 50.00 μ m
ENDING DIAMETER: 0.40 μ m

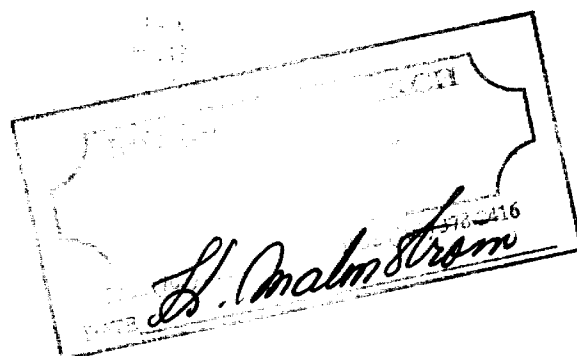
REYNOLDS NUMBER: 0.23
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 0.97 μ m

MODAL DIAMETER: 0.40 μ m

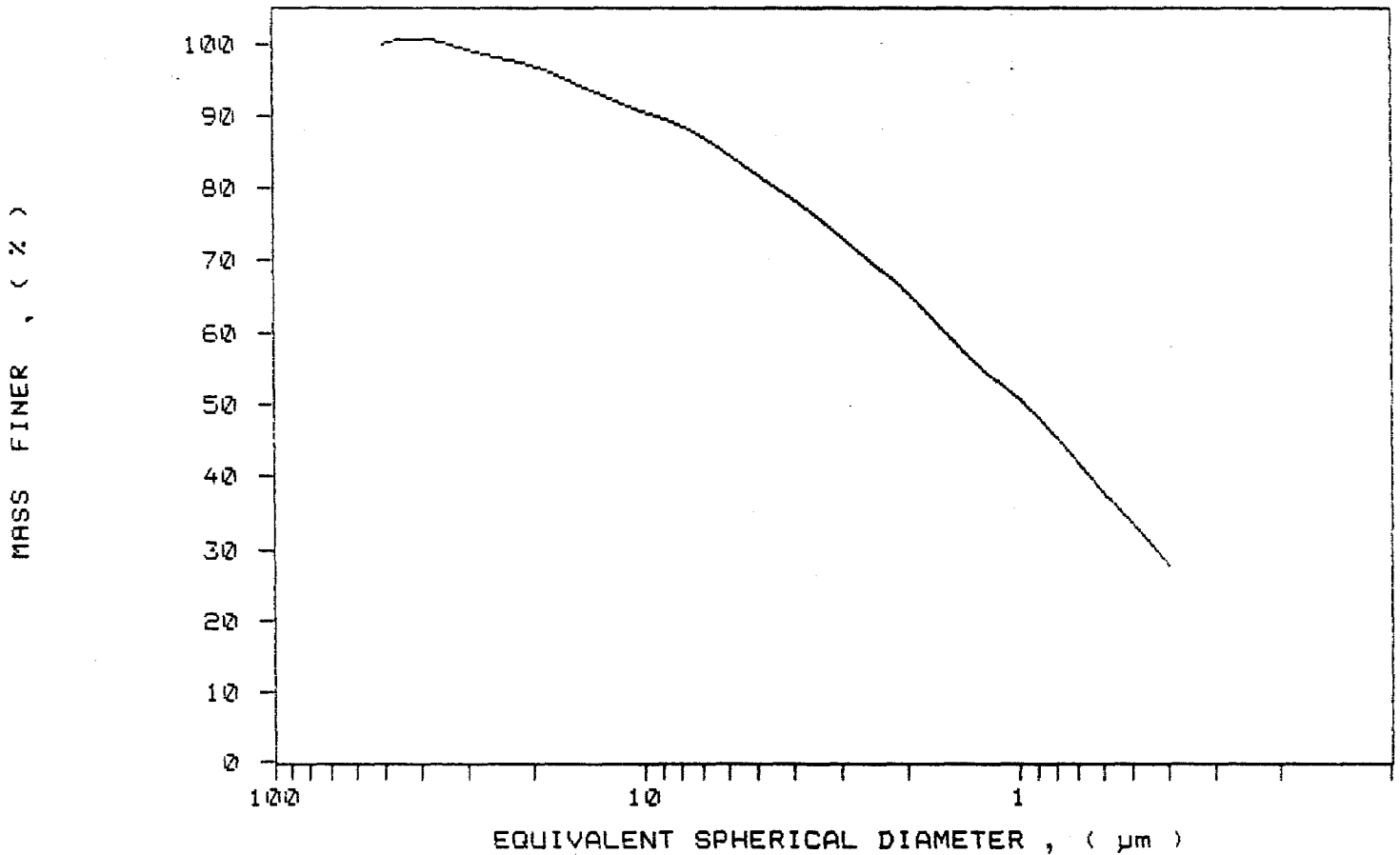
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	100.0	-0.0
40.00	100.7	-0.7
30.00	99.2	1.5
25.00	98.1	1.1
20.00	97.0	1.2
15.00	94.3	2.6
10.00	90.5	3.8
8.00	88.7	1.8
6.00	84.8	3.9
5.00	81.9	2.9
4.00	78.5	3.4
3.00	73.4	5.1
2.00	65.6	7.8
1.50	58.7	6.9
1.00	50.6	8.1
0.80	45.4	5.2
0.60	37.9	7.5
0.50	33.5	4.3
0.40	27.7	5.8



SAMPLE DIRECTORY/NUMBER: SECOND /319
SAMPLE ID: Hole 39-50 # 2113
SUBMITTER: James bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 36.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 11:55:11 12/20/89
REPT 12:12:09 12/20/89
TOT RUN TIME 0:16:36
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9937 g/cc
LIQ VISC: 0.7047 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /320
 SAMPLE ID: Hole 89-50 # 2114
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 36.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 13:09:53 12/20/89
 REPRT 13:27:06 12/20/89
 TOT RUN TIME 0:16:49
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9987 g/cc
 LIQ VISC: 0.7047 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.29
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.90 μ m

MODAL DIAMETER: 4.69 μ m

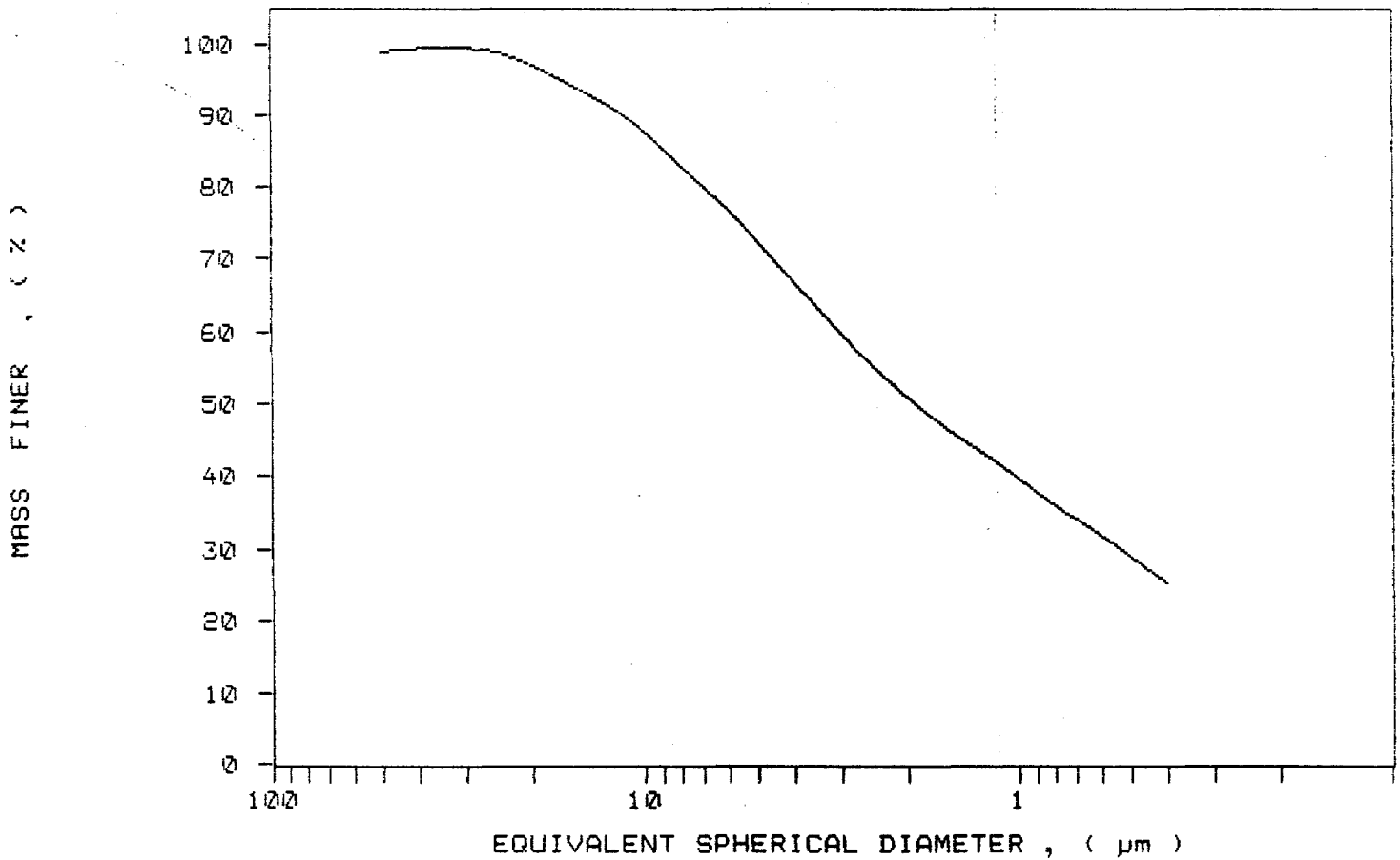
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.8	1.2
40.00	99.4	-0.5
30.00	99.4	-0.1
25.00	98.9	0.6
20.00	97.1	1.7
15.00	93.8	3.4
10.00	87.6	6.1
8.00	82.9	4.8
6.00	76.8	6.1
5.00	72.4	4.4
4.00	66.8	5.6
3.00	59.8	7.0
2.00	51.0	8.8
1.50	45.9	5.1
1.00	39.6	6.3
0.80	35.8	3.7
0.60	31.8	4.1
0.50	28.8	3.0
0.40	25.2	3.6

SEARCH
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SAMPLE DIRECTORY/NUMBER: SECOND /320
SAMPLE ID: Hole 89-50 # 2114
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 36.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 13:09:58 12/20/89
REPRT 13:27:06 12/20/89
TOT RUN TIME 0:16:49
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9937 g/cc
LIQ VISC: 0.7047 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /321
 SAMPLE ID: Hole 29-50 # 2115
 SUBMITTER: James bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 36.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 13:39:40 12/20/89
 REPR 13:56:44 12/20/89
 TOT RUN TIME 0:16:41
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9997 g/cc
 LIQ VISC: 0.7046 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

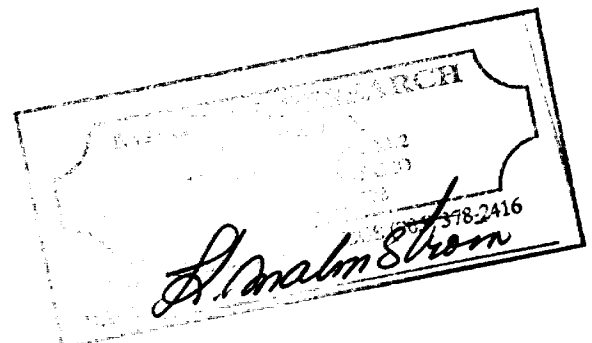
REYNOLDS NUMBER: 0.23
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.86 μ m

MODAL DIAMETER: 6.16 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	101.5	-1.5
40.00	100.7	0.8
30.00	99.1	1.6
25.00	97.4	1.7
20.00	94.1	3.3
15.00	88.3	5.8
10.00	79.7	8.6
8.00	74.5	5.2
6.00	67.6	6.8
5.00	63.3	4.4
4.00	57.9	5.3
3.00	51.1	6.9
2.00	42.6	8.5
1.50	37.1	5.4
1.00	31.2	5.9
0.80	28.1	3.1
0.60	24.9	3.2
0.50	22.7	2.2
0.40	19.5	3.2



SAMPLE DIRECTORY/NUMBER: SECOND /321

SAMPLE ID: Hole 89-50 # 2115

SUBMITTER: James bay Co.

OPERATOR: Kaarina

SAMPLE TYPE: Clay

LIQUID TYPE: Water

ANALYSIS TEMP: 36.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1

START 13:39:40 12/20/89

REPT 13:56:44 12/20/89

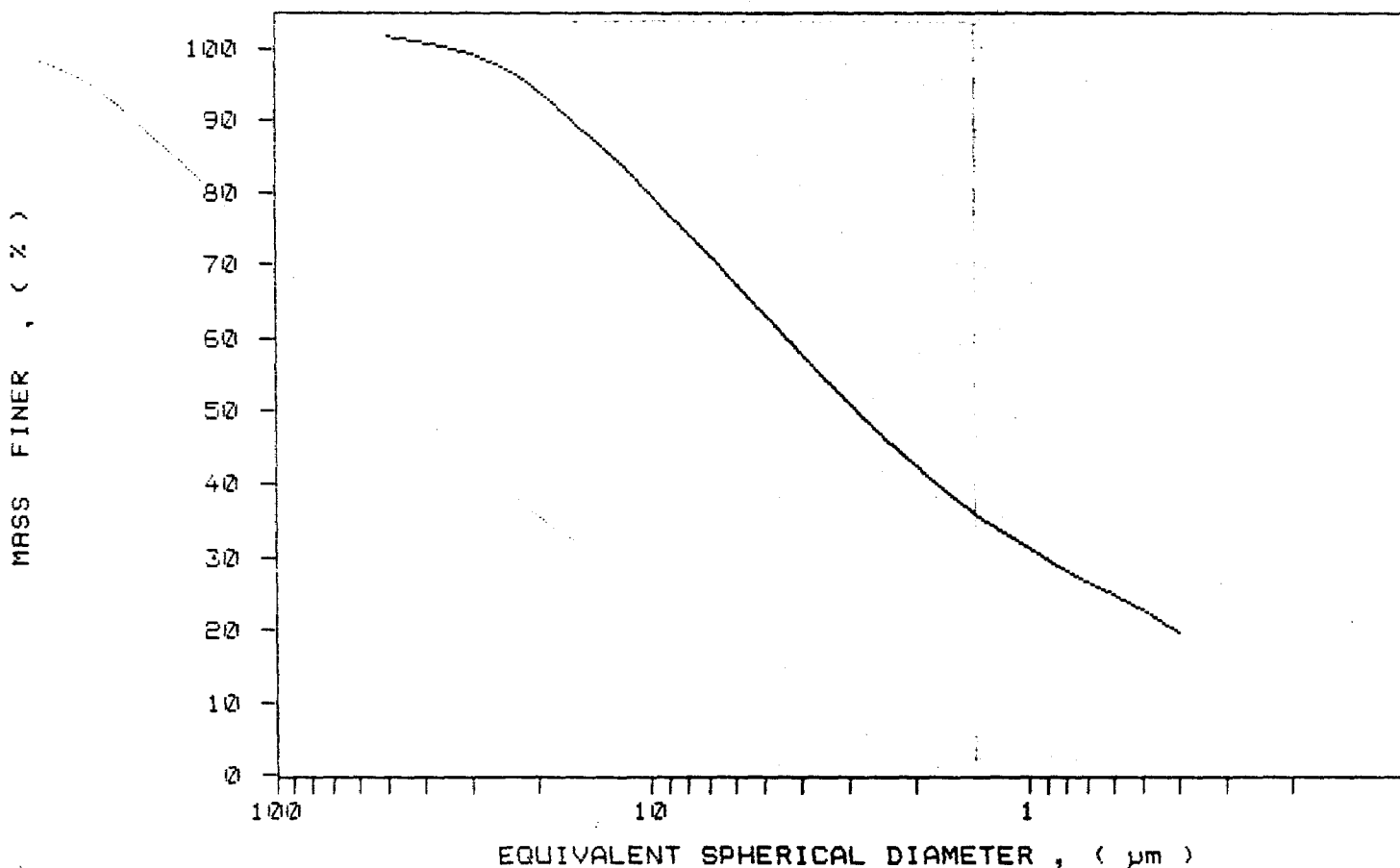
TOT RUN TIME 0:16:41

SAM DENS: 2.6500 g/cc

LIQ DENS: 0.9987 g/cc

LIQ VISC: 0.7046 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /322
 SAMPLE ID: Hole 89-50 # 2116
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 36.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 14:09:45 12/20/89
 REPRT 14:27:03 12/20/89
 TOT RUN TIME 0:16:54
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9987 g/cc
 LIQ VISC: 0.7046 cp

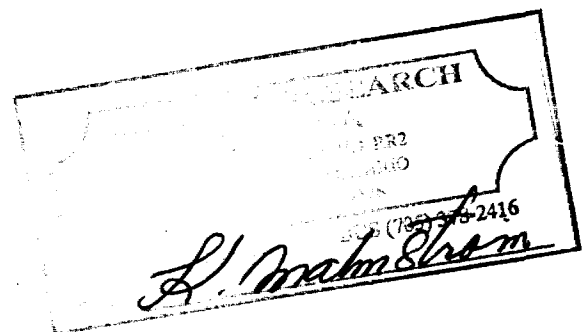
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.23
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.18 μ m MODAL DIAMETER: 3.65 μ m

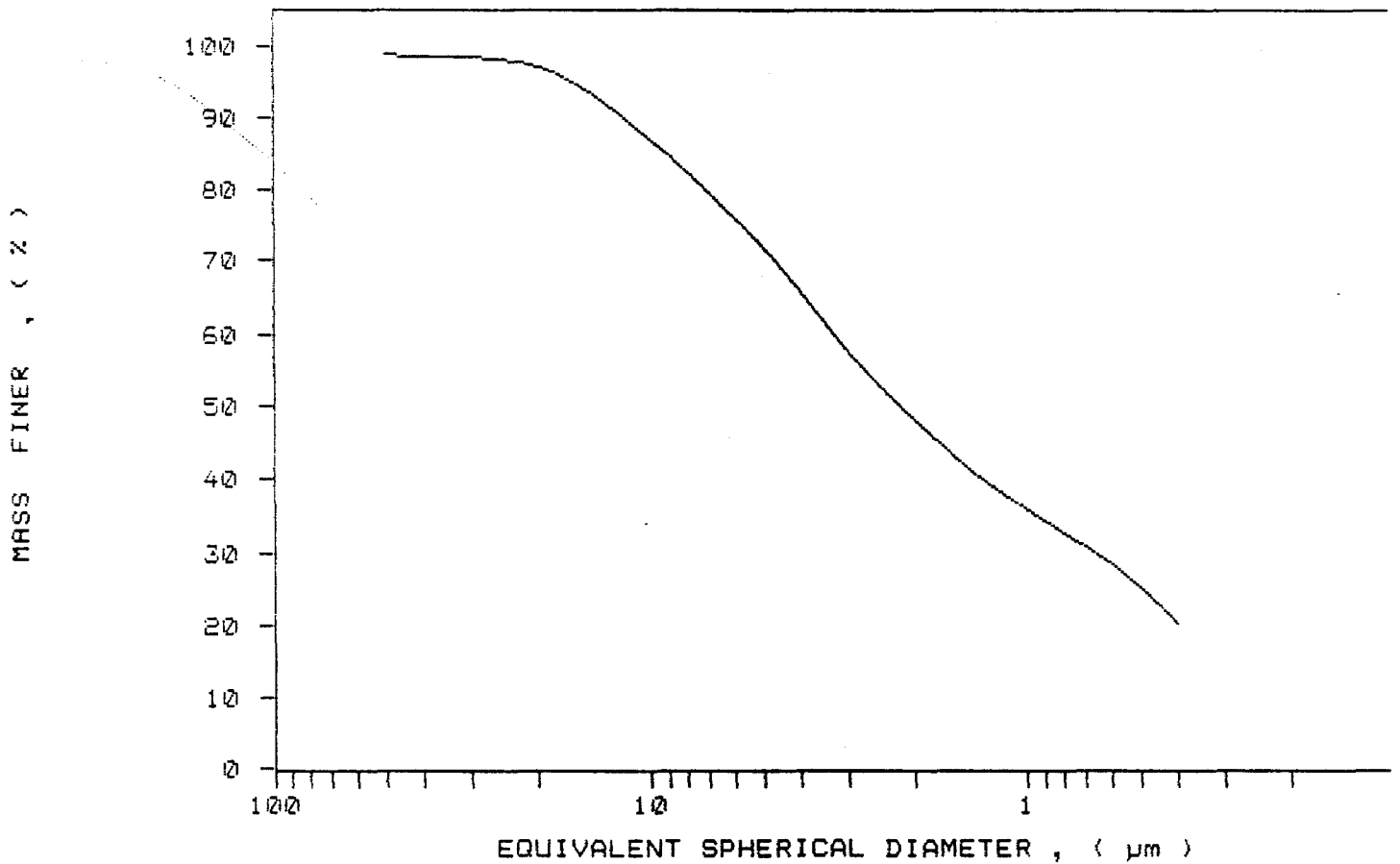
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.9	1.1
40.00	98.4	0.5
30.00	98.4	-0.0
25.00	98.1	0.4
20.00	97.1	0.9
15.00	93.9	3.2
10.00	86.9	7.0
8.00	82.5	4.4
6.00	76.1	6.4
5.00	71.7	4.4
4.00	65.8	5.9
3.00	57.7	8.1
2.00	48.2	9.5
1.50	42.4	5.8
1.00	35.9	6.5
0.80	32.6	3.2
0.60	28.4	4.2
0.50	25.1	3.4
0.40	20.3	4.8



SAMPLE DIRECTORY/NUMBER: SECOND /322
SAMPLE ID: Hole 89-50 # 2116
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 36.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 14:09:45 12/20/8
REPRT 14:27:03 12/20/8
TOT RUN TIME 0:16:5
SAM DENS: 2.6500 g/c
LIQ DENS: 0.9937 g/c
LIQ VISC: 0.7046 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /323
 SAMPLE ID: Hole 89-50 # 2117
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 36.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 14:44:53 12/20/89
 REPT 15:02:12 12/20/89
 TOT RUN TIME 0:16:53
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9937 g/cc
 LIQ VISC: 0.7045 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.23
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.42 μ m MODAL DIAMETER: 4.52 μ m

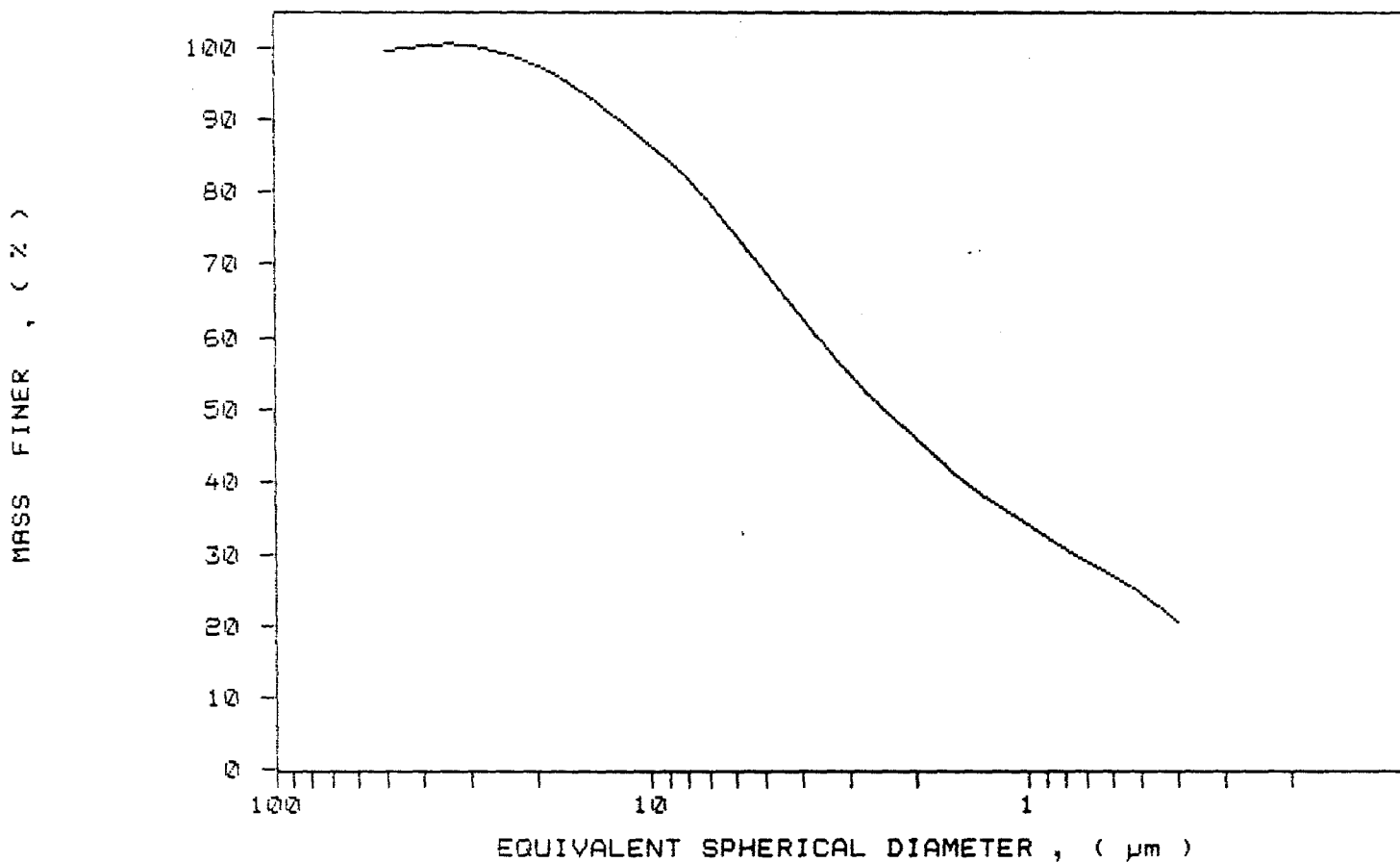
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.5	0.5
40.00	100.2	-0.6
30.00	100.2	-0.1
25.00	99.3	0.9
20.00	97.5	1.8
15.00	93.6	3.9
10.00	86.4	7.2
8.00	81.8	4.6
6.00	74.1	7.7
5.00	69.0	5.1
4.00	62.7	6.3
3.00	54.9	7.7
2.00	46.1	8.8
1.50	40.3	5.8
1.00	34.0	6.3
0.80	30.7	3.3
0.60	27.0	3.7
0.50	24.4	2.6
0.40	20.5	3.9



SAMPLE DIRECTORY/NUMBER: SECOND /323
SAMPLE ID: Hole 89-50 # 2117
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: water
ANALYSIS TEMP: 36.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 14:44:53 12/20/89
REPRT 15:02:12 12/20/89
TOT RUN TIME 0:16:52
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9987 g/cc
LIQ VISC: 0.7045 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECONO /324
 SAMPLe ID: Hole 39-50 # 2118
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLe TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 36.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 15:25:16 12/20/89
 REPRt 15:42:32 12/20/89
 TOT RUN TIME 0:16:50
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9937 g/cc
 LIQ VISC: 0.7047 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.23
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.45 μ m MODAL DIAMETER: 0.41 μ m

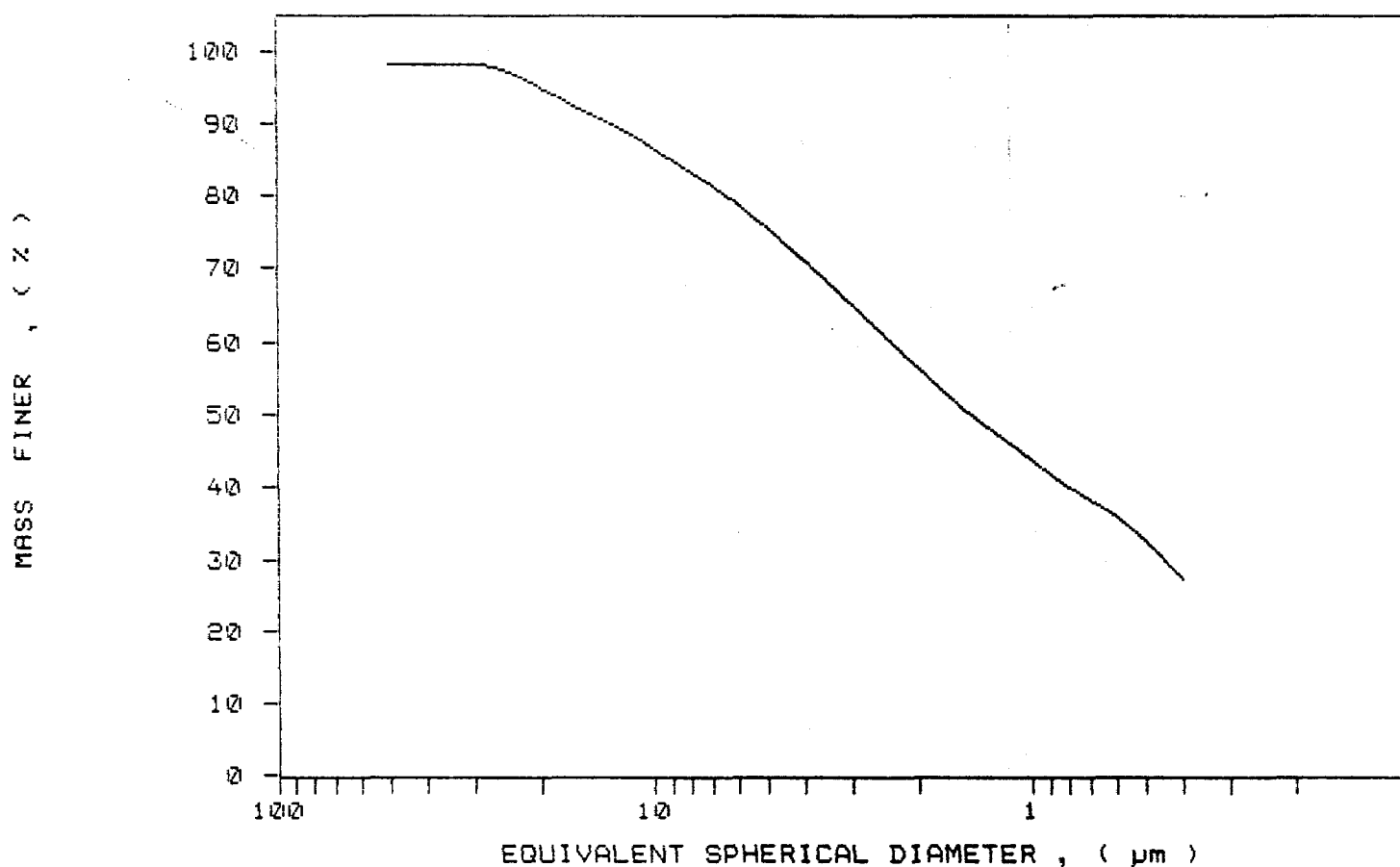
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.2	1.8
40.00	98.1	0.2
30.00	98.2	-0.1
25.00	97.4	0.8
20.00	95.0	2.4
15.00	91.5	3.4
10.00	86.6	4.9
8.00	83.4	3.3
6.00	78.8	4.5
5.00	75.5	3.3
4.00	71.2	4.3
3.00	65.2	6.0
2.00	56.5	8.8
1.50	50.6	5.9
1.00	43.7	6.8
0.80	40.1	3.7
0.60	35.9	4.2
0.50	32.4	3.5
0.40	27.3	5.1

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SAMPLE DIRECTORY/NUMBER: SECOND /324
SAMPLE ID: Hole 89-50 # 2113
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 36.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 15:25:16 12/20/89
REPRT 15:42:32 12/20/89
TOT RUN TIME 0:16:50
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9937 g/cc
LIQ VISC: 0.7047 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /325
 SAMPLE ID: Hole 89-50 # 2119
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 36.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 15:58:49 12/20/89
 REPR 16:16:11 12/20/89
 TOT RUN TIME 0:17:00
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9987 g/cc
 LIQ VISC: 0.7046 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

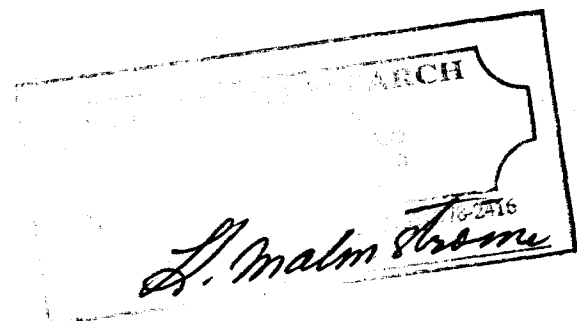
REYNOLDS NUMBER: 0.23
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 0.52 μ m

MODAL DIAMETER: 0.40 μ m

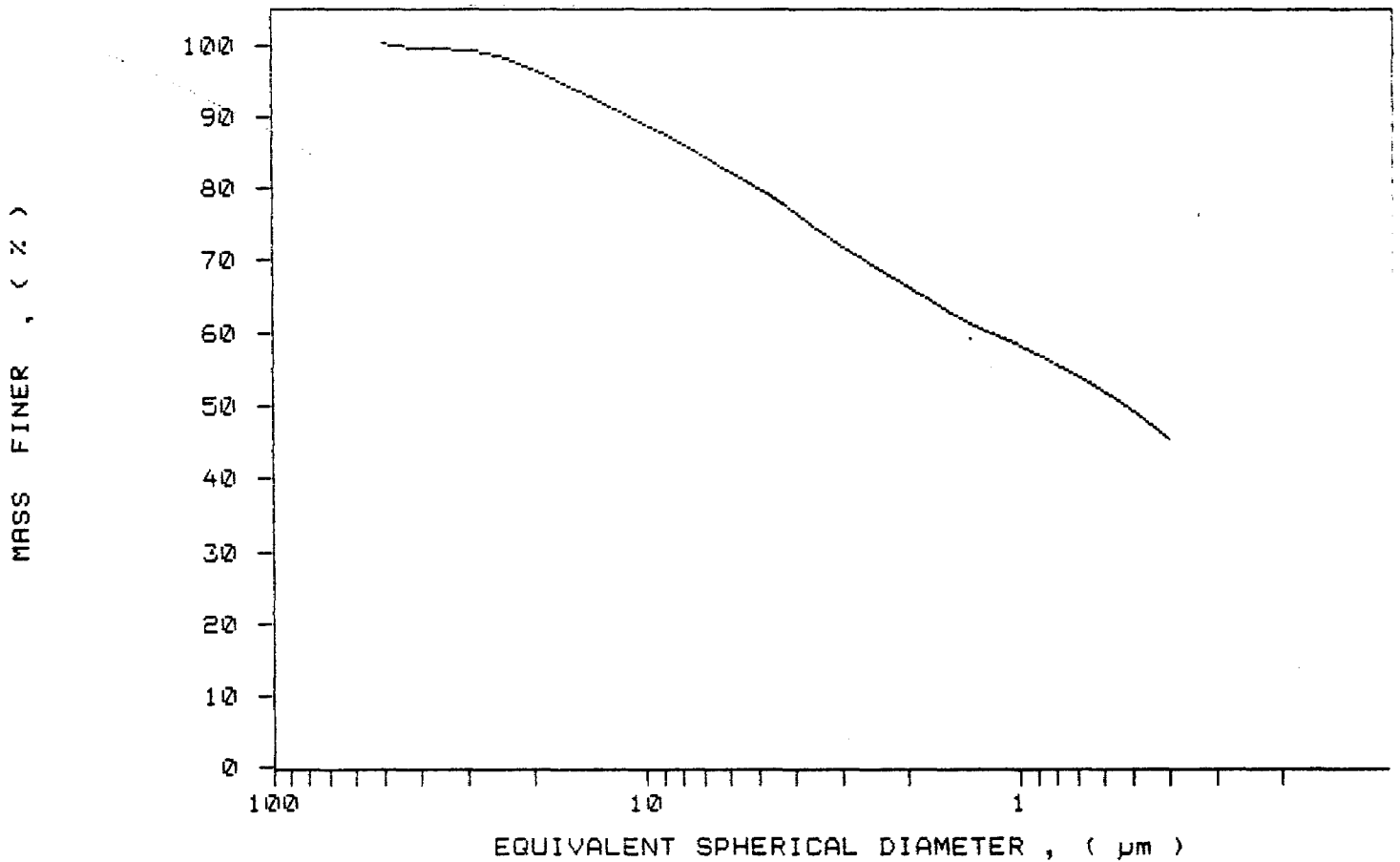
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	100.1	-0.1
40.00	99.5	0.6
30.00	99.2	0.3
25.00	98.5	0.7
20.00	96.6	1.9
15.00	93.5	3.1
10.00	88.8	4.7
8.00	86.3	2.6
6.00	82.4	3.9
5.00	80.0	2.4
4.00	76.7	3.4
3.00	72.1	4.6
2.00	66.5	5.6
1.50	62.6	3.9
1.00	58.2	4.4
0.80	55.6	2.5
0.60	52.0	3.6
0.50	49.3	2.7
0.40	45.4	4.0



SAMPLE DIRECTORY/NUMBER: SECOND /325
SAMPLE ID: Hole 09-50 # 2119
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 36.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 15:58:49 12/20/89
REPRT 16:16:11 12/20/89
TOT RUN TIME 0:17:00
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9987 g/cc
LIQ VISC: 0.7046 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

SediGraph 5100 V2.00

PAGE 1

SAMPLE DIRECTORY/NUMBER: SECOND /326
 SAMPLE ID: Hole 89-50 # 2120
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 36.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 16:29:05 12/20/89
 REPR 16:46:17 12/20/89
 TOT RUN TIME 0:16:48
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9987 g/cc
 LIQ VISC: 0.7045 cp

STARTING DIAMETER: 50.00 μm
 ENDING DIAMETER: 0.40 μm

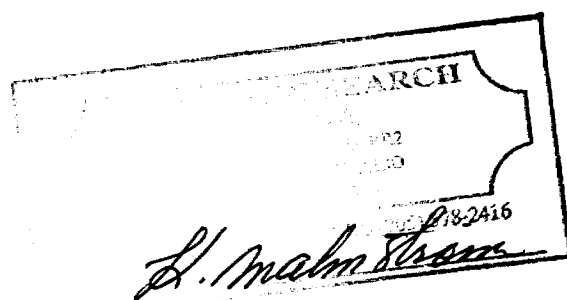
REYNOLDS NUMBER: 0.23
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.13 μm

MODAL DIAMETER: 2.43 μm

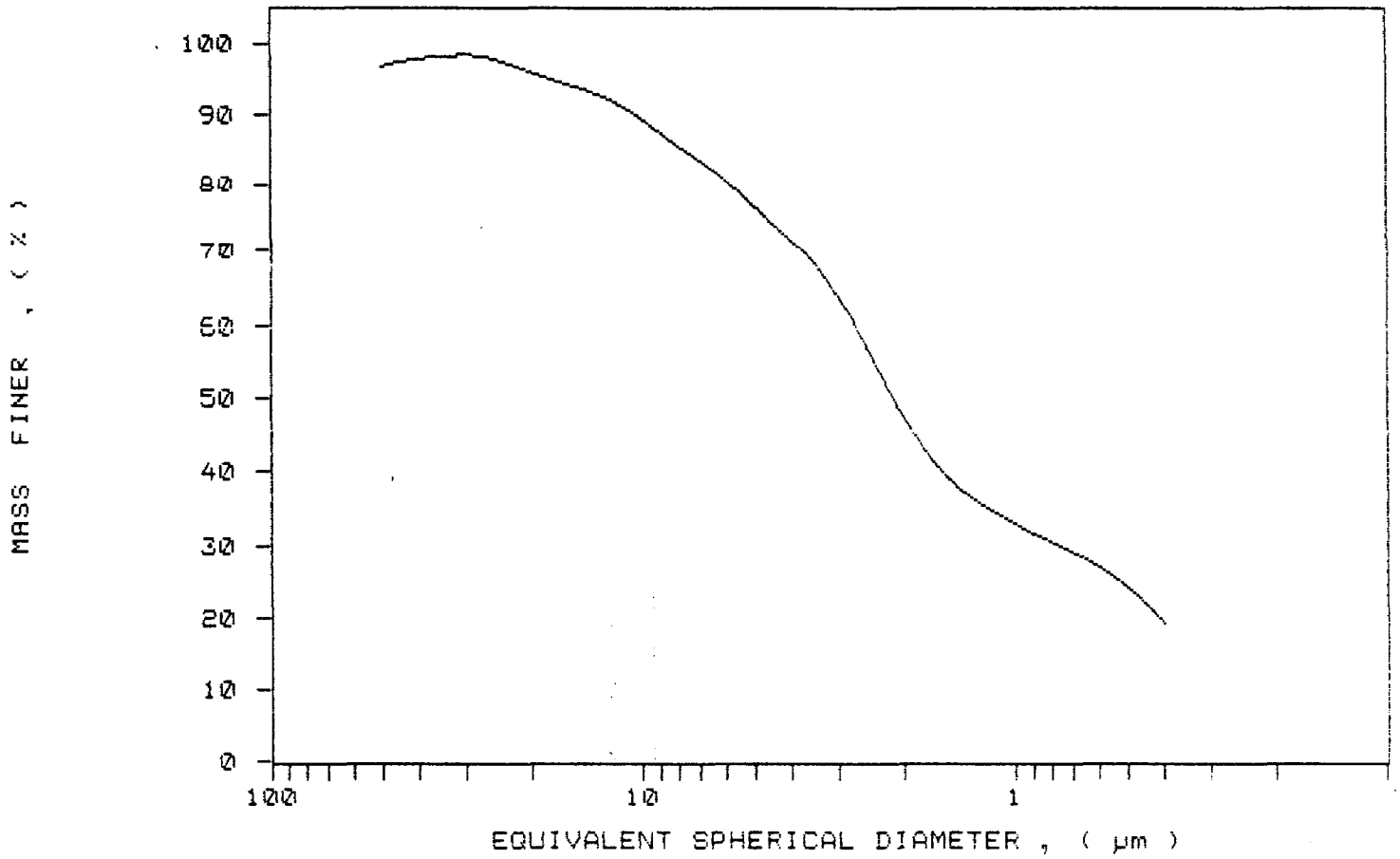
DIAMETER (μm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	96.8	3.2
40.00	97.8	-1.0
30.00	98.3	-0.5
25.00	97.8	0.5
20.00	95.9	1.9
15.00	93.8	2.1
10.00	89.4	4.4
8.00	85.7	3.7
6.00	80.8	4.9
5.00	76.8	4.0
4.00	72.0	4.9
3.00	64.4	7.6
2.00	47.6	16.8
1.50	39.0	8.6
1.00	32.9	6.1
0.80	30.4	2.5
0.60	27.1	3.3
0.50	24.2	2.9
0.40	19.2	4.9



2120

89-50

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /327
 SAMPLE ID: Hole 89-50 # 2121
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.0 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 08:52:09 12/21/89
 REPR 08:50:32 12/21/89
 TOT RUN TIME 0:17:58
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9944 g/cc
 LIQ VISC: 0.7369 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

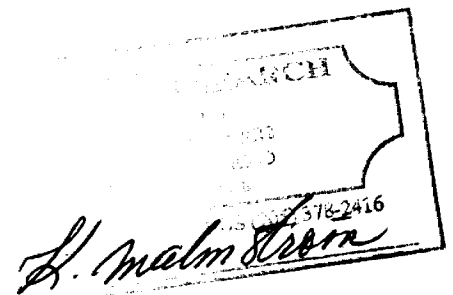
REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.54 μ m

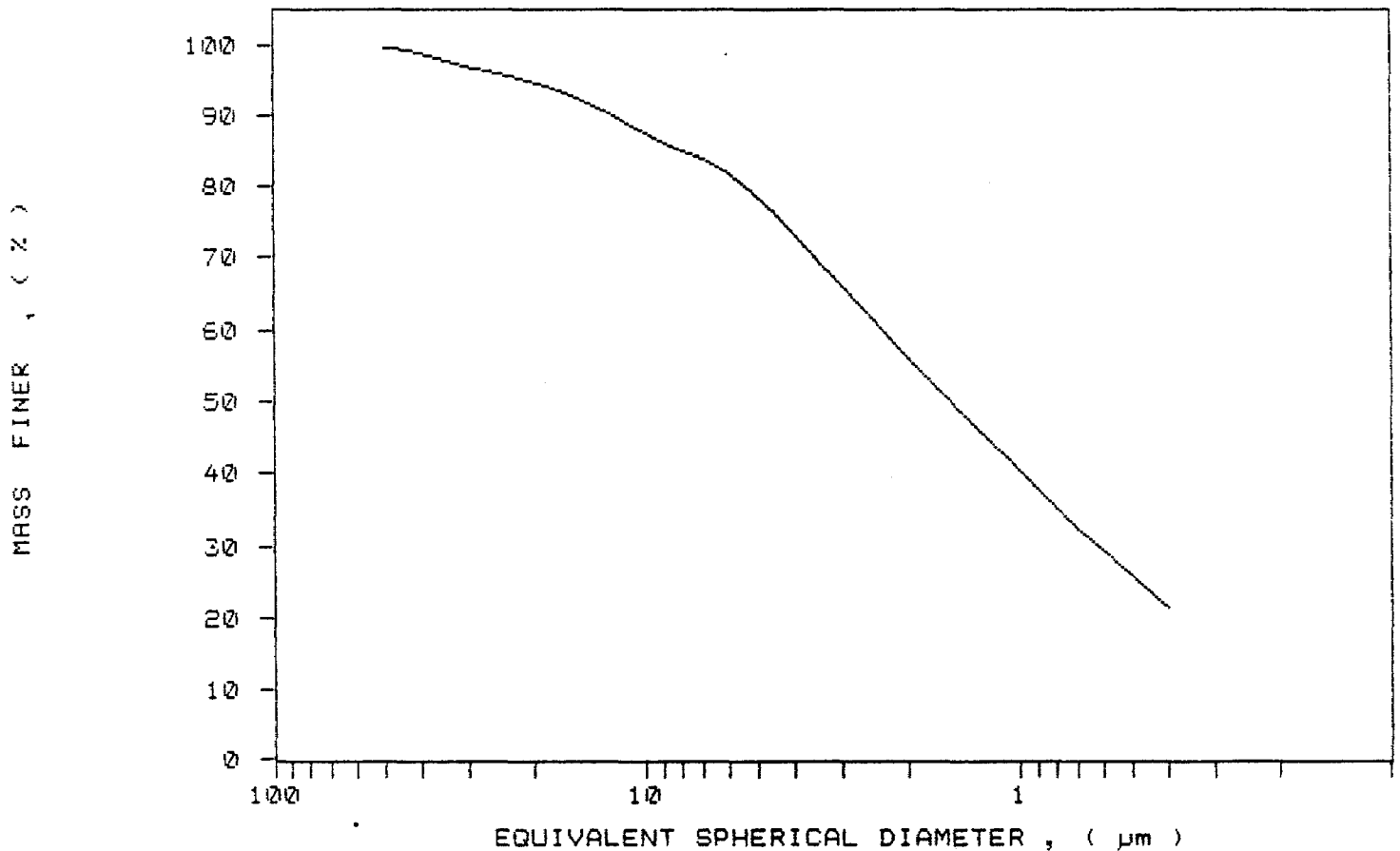
MODAL DIAMETER: 3.79 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.6	0.4
40.00	98.7	0.9
30.00	97.0	1.8
25.00	96.0	0.9
20.00	94.8	1.2
15.00	92.3	2.5
10.00	87.5	4.8
8.00	85.1	2.4
6.00	81.9	3.2
5.00	78.5	3.4
4.00	73.3	5.2
3.00	66.1	7.2
2.00	56.1	9.9
1.50	49.4	6.8
1.00	40.2	9.2
0.80	35.1	5.1
0.60	29.3	5.8
0.50	25.7	3.6
0.40	21.3	4.4



SAMPLE DIRECTORY/NUMBER: SECOND /327	UNIT NUMBER: 1
SAMPLE ID: Hole 89-50 # 2121	START 08:32:09 12/21/89
SUBMITTER: James Bay Co.	REPRT 08:50:32 12/21/89
OPERATOR: Kaarina	TOT RUN TIME 0:17:58
SAMPLE TYPE: Clay	SAM DENS: 2.6500 g/cc
LIQUID TYPE: Water	LIO DENS: 0.9944 g/cc
ANALYSIS TEMP: 34.0 deg C	RUN TYPE: Standard
	LIO VISC: 0.7369 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /328
 SAMPLE ID: Hole 89-50 # 2122
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 09:02:12 12/21/89
 REPT 09:20:20 12/21/89
 TOT RUN TIME 0:17:46
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9944 g/cc
 LIQ VISC: 0.7364 cp

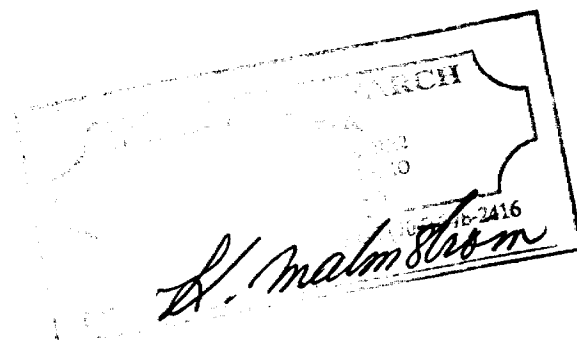
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

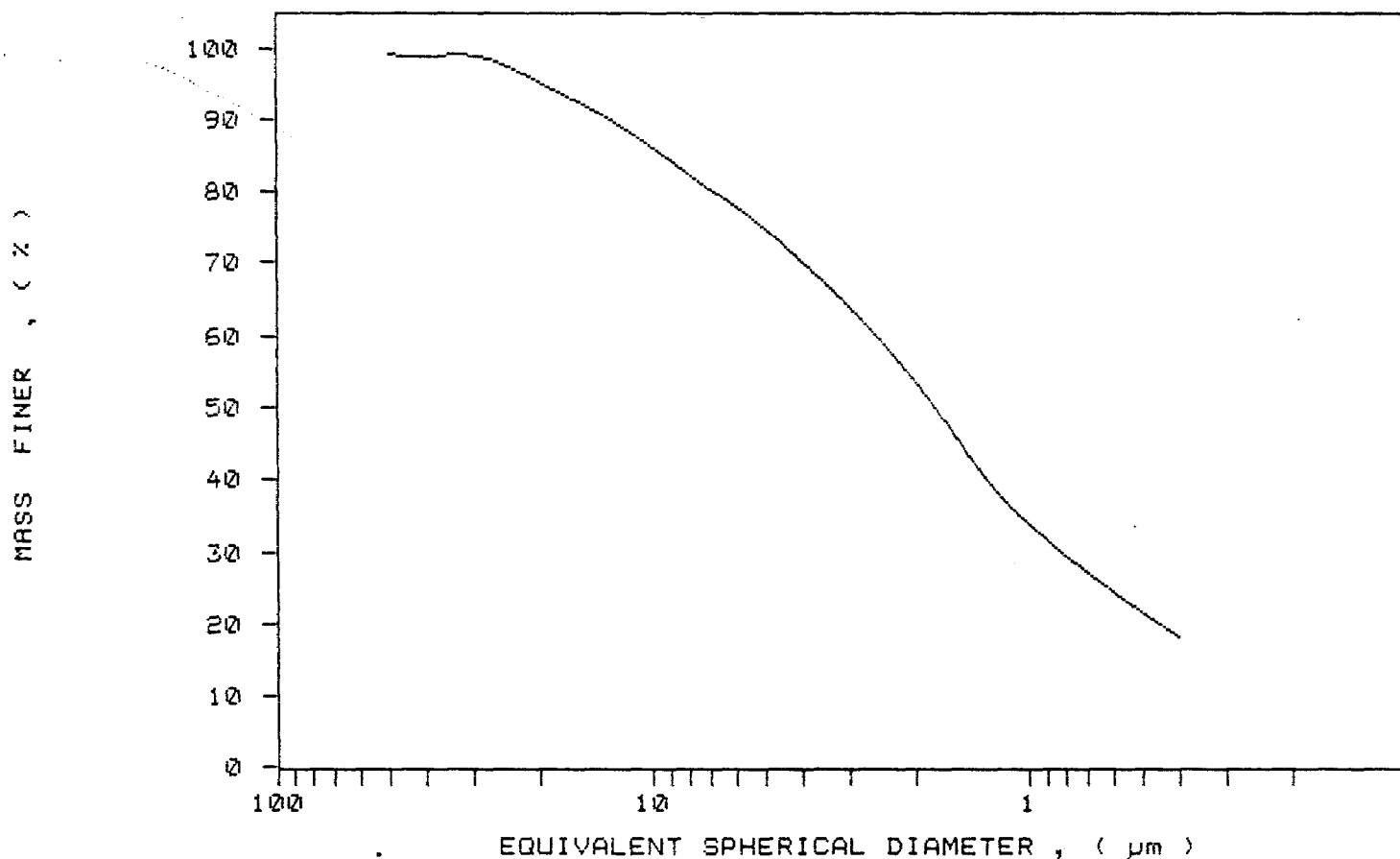
MEDIAN DIAMETER: 1.78 μ m MODAL DIAMETER: 1.58 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.2	0.8
40.00	98.8	0.4
30.00	98.9	-0.1
25.00	97.8	1.2
20.00	95.2	2.5
15.00	91.9	3.3
10.00	86.1	5.8
8.00	82.4	3.7
6.00	78.0	4.4
5.00	74.8	3.2
4.00	70.2	4.6
3.00	64.0	6.2
2.00	53.6	10.5
1.50	44.4	9.1
1.00	33.7	10.7
0.80	29.4	4.4
0.60	24.4	4.9
0.50	21.4	3.0
0.40	18.2	3.2



SAMPLE DIRECTORY/NUMBER: SECONO /328	UNIT NUMBER: 1
SAMPLE ID: Hole 89-50 # 2122	START 09:02:12 12/21/89
SUBMITTER: James Bay Co.	REPRT 09:20:20 12/21/89
OPERATOR: Kaarina	TOT RUN TIME 0:17:46
SAMPLE TYPE: Clay	SAM DENS: 2.6500 g/cc
LIQUID TYPE: Water	LID DENS: 0.9944 g/cc
ANALYSIS TEMP: 34.1 deg C	LID VISC: 0.7364 cp
RUN TYPE: Standard	

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /329
 SAMPLE ID: Hole 99-50 # 2123
 SUBMITTER: James Bay Co.
 OPERATOR: kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 09:31:28 12/21/89
 REPR 09:49:36 12/21/89
 TOT RUN TIME 0:17:44
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9944 g/cc
 LIQ VISC: 0.7363 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.15 μ m

MODAL DIAMETER: 0.40 μ m

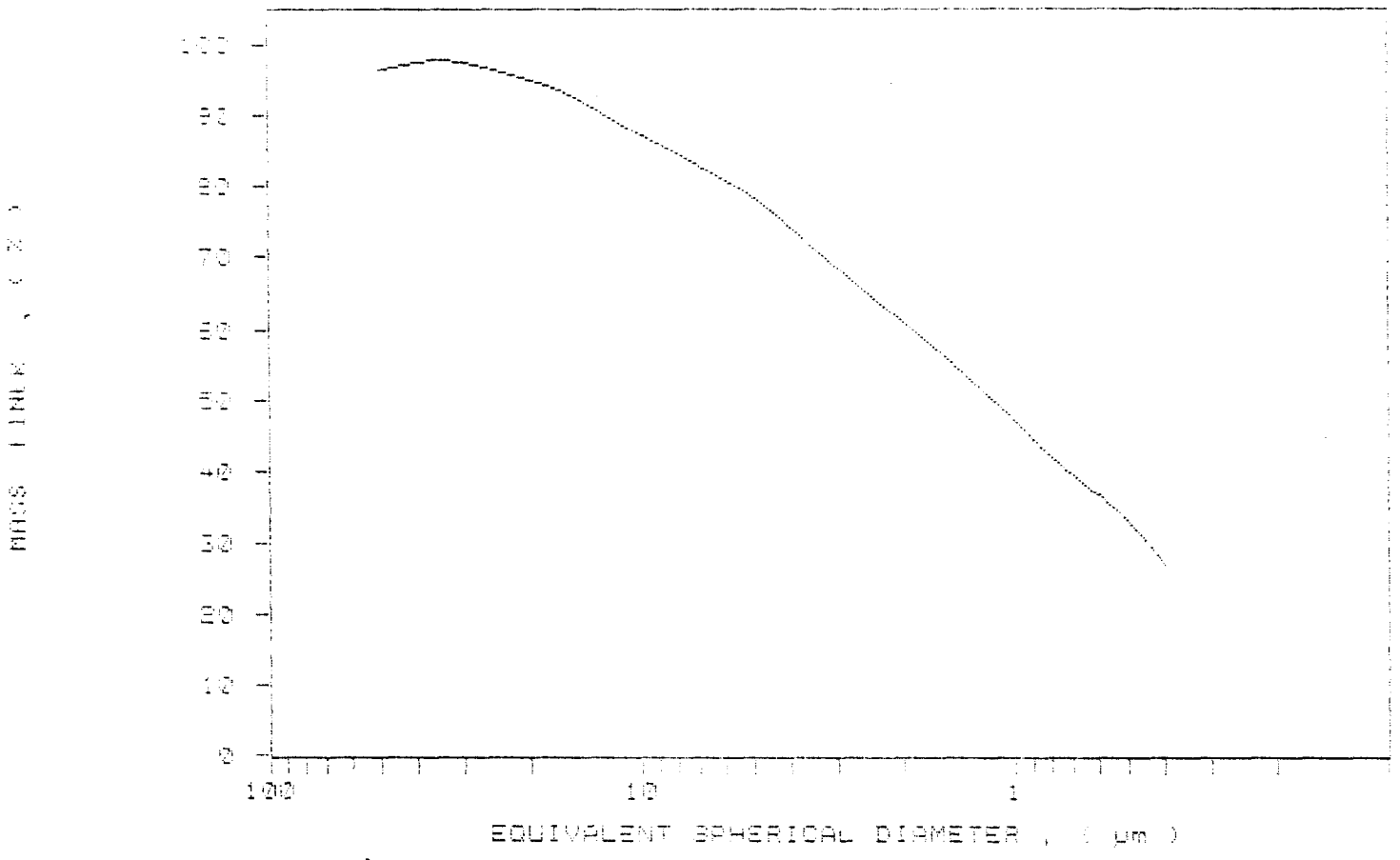
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	96.2	3.8
40.00	97.4	-1.1
30.00	97.4	-0.0
25.00	96.4	1.0
20.00	95.0	1.4
15.00	92.4	2.6
10.00	87.2	5.2
8.00	84.6	2.6
6.00	80.9	3.7
5.00	78.3	2.5
4.00	74.1	4.2
3.00	68.5	5.6
2.00	61.0	7.5
1.50	55.4	5.6
1.00	46.9	8.5
0.80	41.8	5.1
0.60	36.5	5.3
0.50	32.8	3.8
0.40	26.7	6.1

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QUALITY OF PASS PERCENT POWER BY DIAMETER



Kaolin

SediGraph 5100 V2.00

PAGE 1

SAMPLE DIRECTORY NUMBER: 000000000000
 SAMPLE ID: Hole 33-2v # 210
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:01:00 12/21/89
 REPT 10:19:07 12/21/89
 TOT RUN TIME 0:17:44
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9944 g/cc
 LIQ VISC: 0.7363 cp

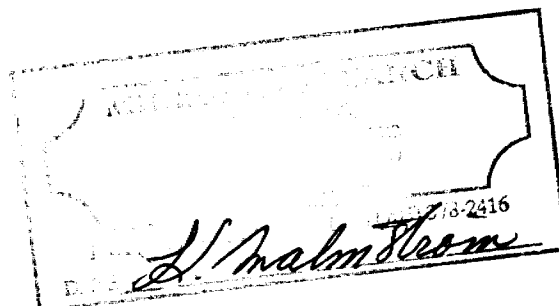
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.10 μ m MODAL DIAMETER: 0.40 μ m

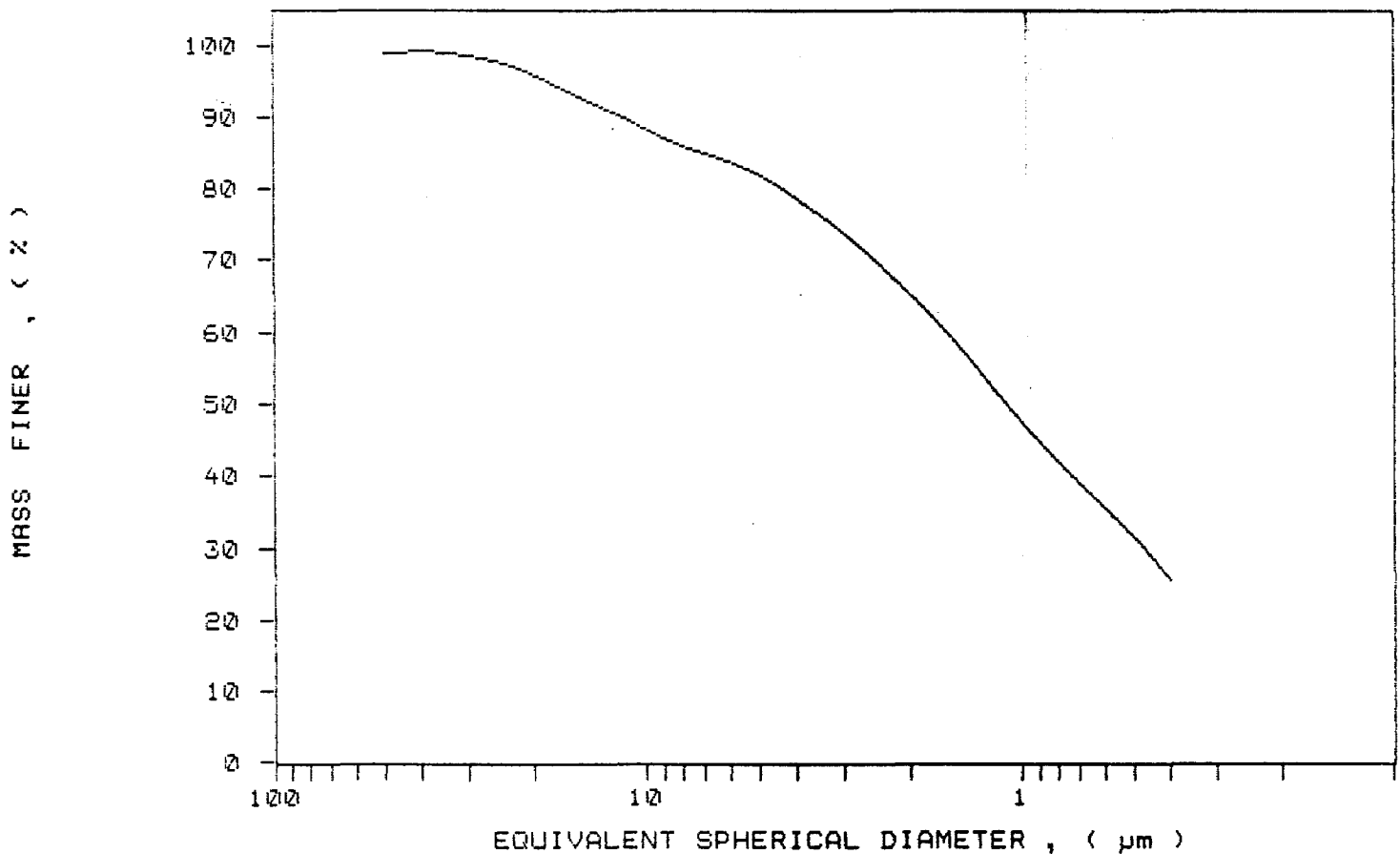
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.7	1.3
40.00	99.1	-0.4
30.00	98.5	0.6
25.00	97.7	0.8
20.00	95.9	1.8
15.00	92.8	3.1
10.00	88.4	4.4
8.00	86.1	2.3
6.00	83.9	2.2
5.00	82.0	1.8
4.00	78.8	3.2
3.00	74.0	4.8
2.00	65.5	8.5
1.50	58.5	7.0
1.00	47.5	11.0
0.80	42.0	5.4
0.60	35.6	6.5
0.50	31.5	4.1
0.40	25.5	6.0



SAMPLE DIRECTORY/NUMBER: SECONND /330
SAMPLE ID: Hole 89-50 # 2124
SUBMITTER: James bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 10:01:00 12/21/89
REPRT 10:19:07 12/21/89
TOT RUN TIME 0:17:44
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9944 g/cc
LIQ VISC: 0.7363 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /331
 SAMPLE ID: Hole 39-50 # 2125
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:30:26 12/21/89
 REPRT 10:48:37 12/21/89
 TOT RUN TIME 0:17:46
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9944 g/cc
 LIQ VISC: 0.7361 cp

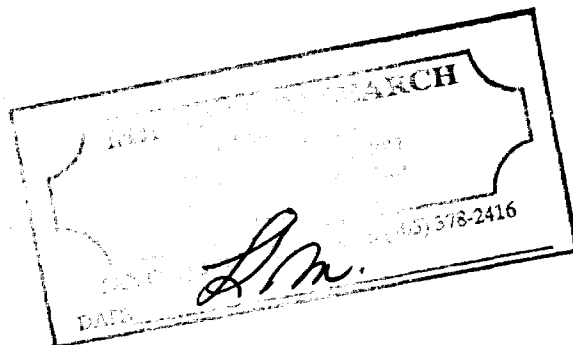
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.52 μ m MODAL DIAMETER: 2.52 μ m

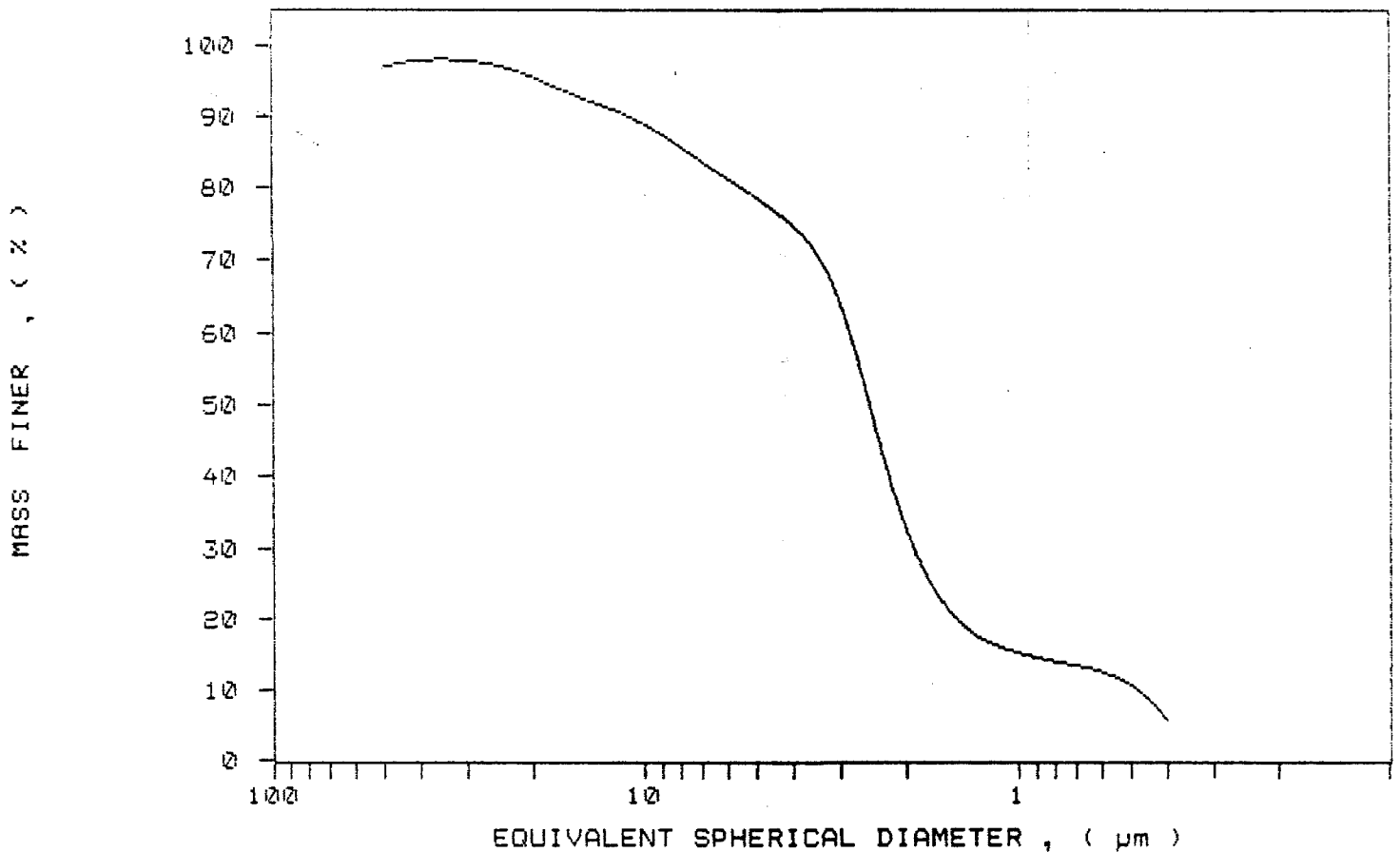
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	96.9	3.1
40.00	97.8	-0.9
30.00	97.8	0.0
25.00	97.2	0.6
20.00	95.5	1.6
15.00	92.8	2.8
10.00	89.0	3.8
8.00	85.8	3.2
6.00	81.4	4.4
5.00	78.7	2.7
4.00	74.9	3.8
3.00	68.9	11.0
2.00	32.3	31.6
1.50	20.5	11.8
1.00	15.3	5.2
0.80	14.1	1.2
0.60	12.6	1.4
0.50	10.6	2.0
0.40	5.7	5.0



SAMPLE DIRECTORY/NUMBER: SECOND /991
SAMPLE ID: Hole 89-50 # 2125
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 10:30:26 12/21/89
REPRT 10:48:37 12/21/89
TOT RUN TIME 0:17:46
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9944 g/cc
LIQ VISC: 0.7361 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /332
 SAMPLE ID: Hole 89-50 # 2126
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 11:02:33 12/21/89
 REPRT 11:20:38 12/21/89
 TOT RUN TIME 0:17:41
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9944 g/cc
 LIQ VISC: 0.7357 cp

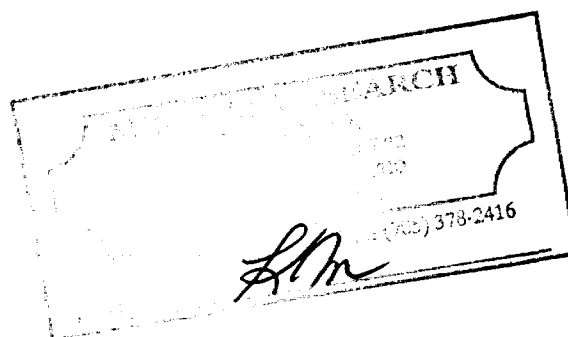
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.35 μ m MODAL DIAMETER: 2.12 μ m

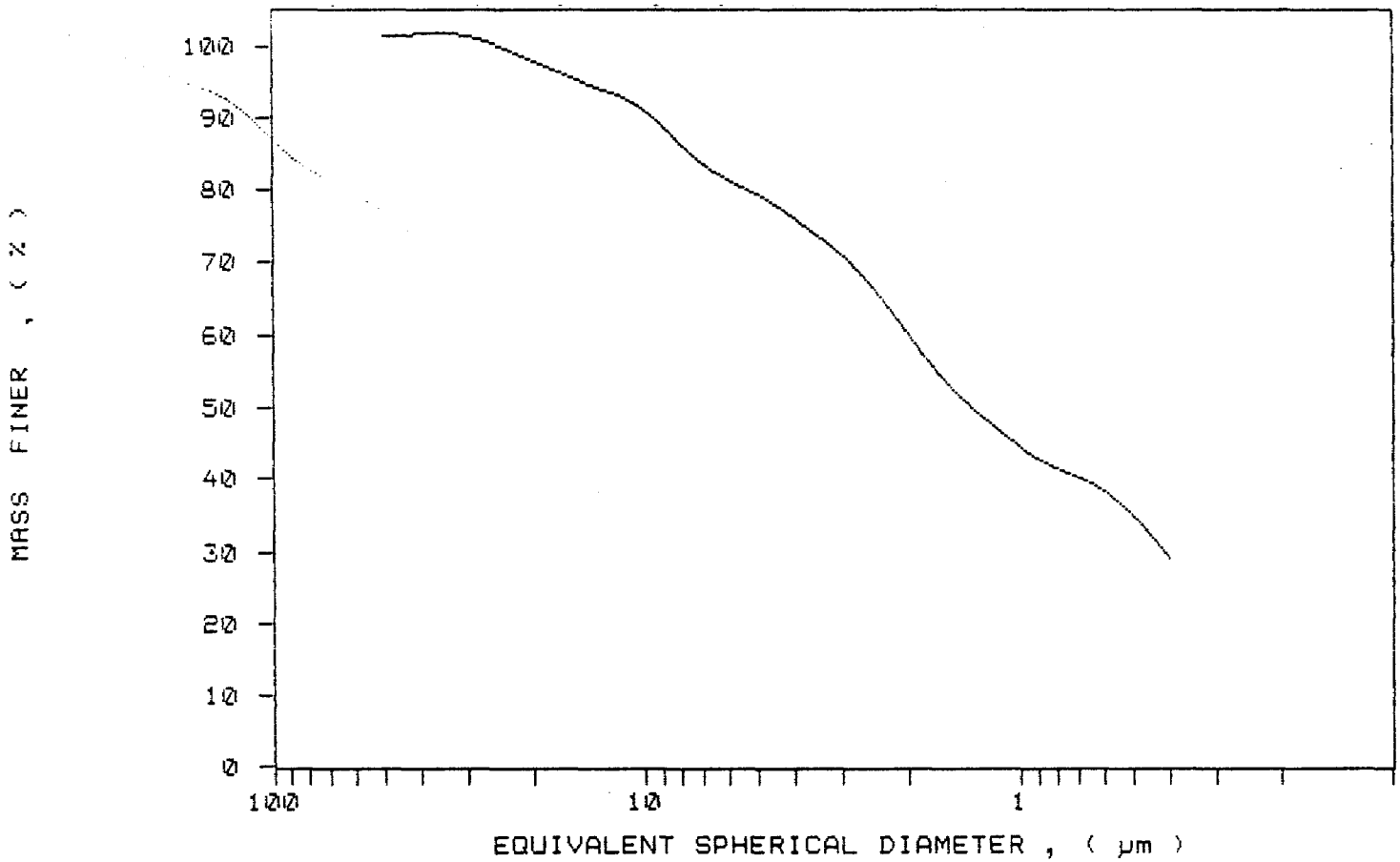
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	101.4	-1.4
40.00	101.5	-0.2
30.00	101.3	0.2
25.00	100.0	1.3
20.00	97.9	2.2
15.00	95.2	2.7
10.00	91.0	4.2
8.00	86.2	4.7
6.00	81.4	4.8
5.00	79.4	2.1
4.00	76.2	3.2
3.00	71.1	5.0
2.00	60.1	11.1
1.50	52.2	7.9
1.00	44.4	7.8
0.80	41.4	3.0
0.60	38.3	3.1
0.50	34.8	3.5
0.40	29.1	5.8



SAMPLE DIRECTORY/NUMBER: SECOND /332
SAMPLE ID: Hole 89-50 # 2126
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 11:02:33 12/21/89
REPT 11:20:38 12/21/89
TOT RUN TIME 0:17:41
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9944 g/cc
LIQ VISC: 0.7357 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /333
 SAMPLE ID: Hole 89-50 # 2127
 SUBMITTER: James bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.7 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 11:37:43 12/21/89
 REPT 11:55:42 12/21/89
 TOT RUN TIME @:17:36
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9942 g/cc
 LIQ VISC: 0.7263 cp

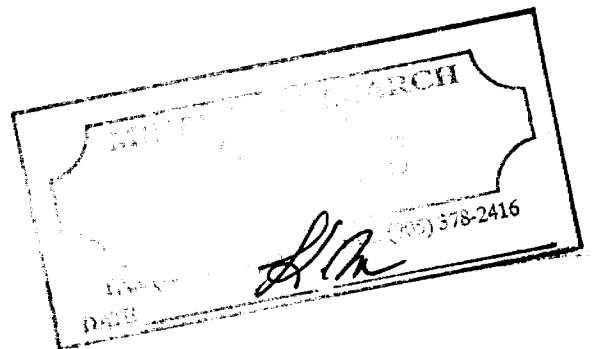
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.21
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.64 μ m MODAL DIAMETER: 0.40 μ m

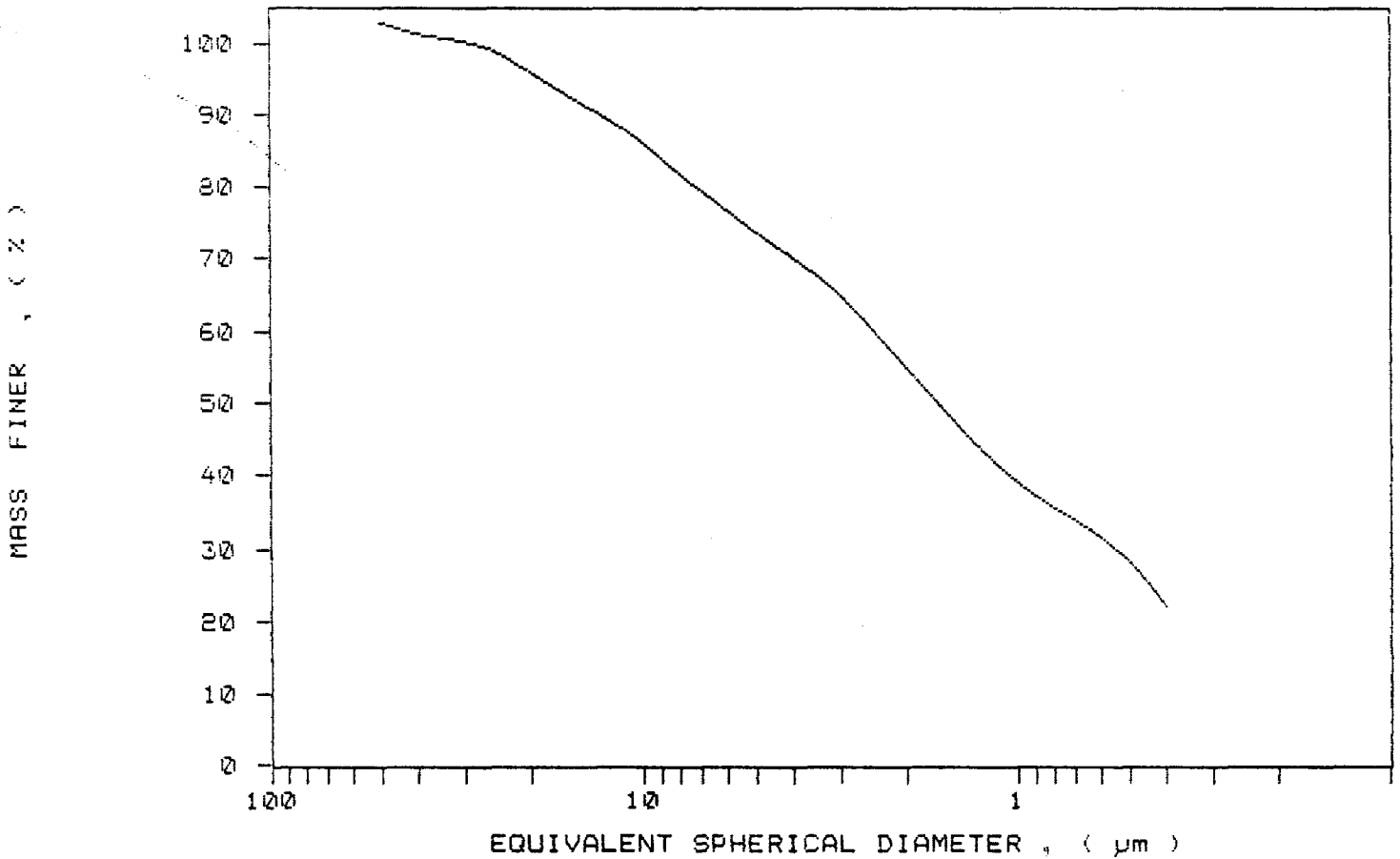
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	102.8	-2.8
40.00	101.3	1.6
30.00	100.2	1.1
25.00	98.9	1.3
20.00	96.0	2.8
15.00	92.0	4.0
10.00	86.0	6.0
8.00	81.8	4.2
6.00	76.8	5.0
5.00	73.7	3.1
4.00	70.2	3.5
3.00	65.0	5.2
2.00	55.0	10.0
1.50	47.7	7.3
1.00	39.0	8.7
0.80	35.5	3.5
0.60	31.6	3.9
0.50	28.1	3.6
0.40	21.9	6.1



SAMPLE DIRECTORY/NUMBER: SECOND /333
SAMPLE ID: Hole 89-50 # 2127
SUBMITTER: James bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 34.7 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 11:37:43 12/21/89
REPRT 11:55:42 12/21/89
TOT RUN TIME 0:17:36
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9942 g/cc
LIQ VISC: 0.7263 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /334
 SAMPLE ID: Hole 89-50 # 2128
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 13:10:05 12/21/89
 REPT 13:27:17 12/21/89
 TOT RUN TIME 0:16:56
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7187 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

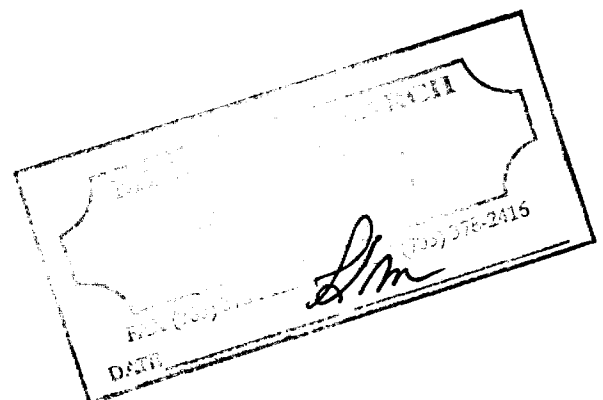
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 3.07 μ m

MODAL DIAMETER: 3.31 μ m

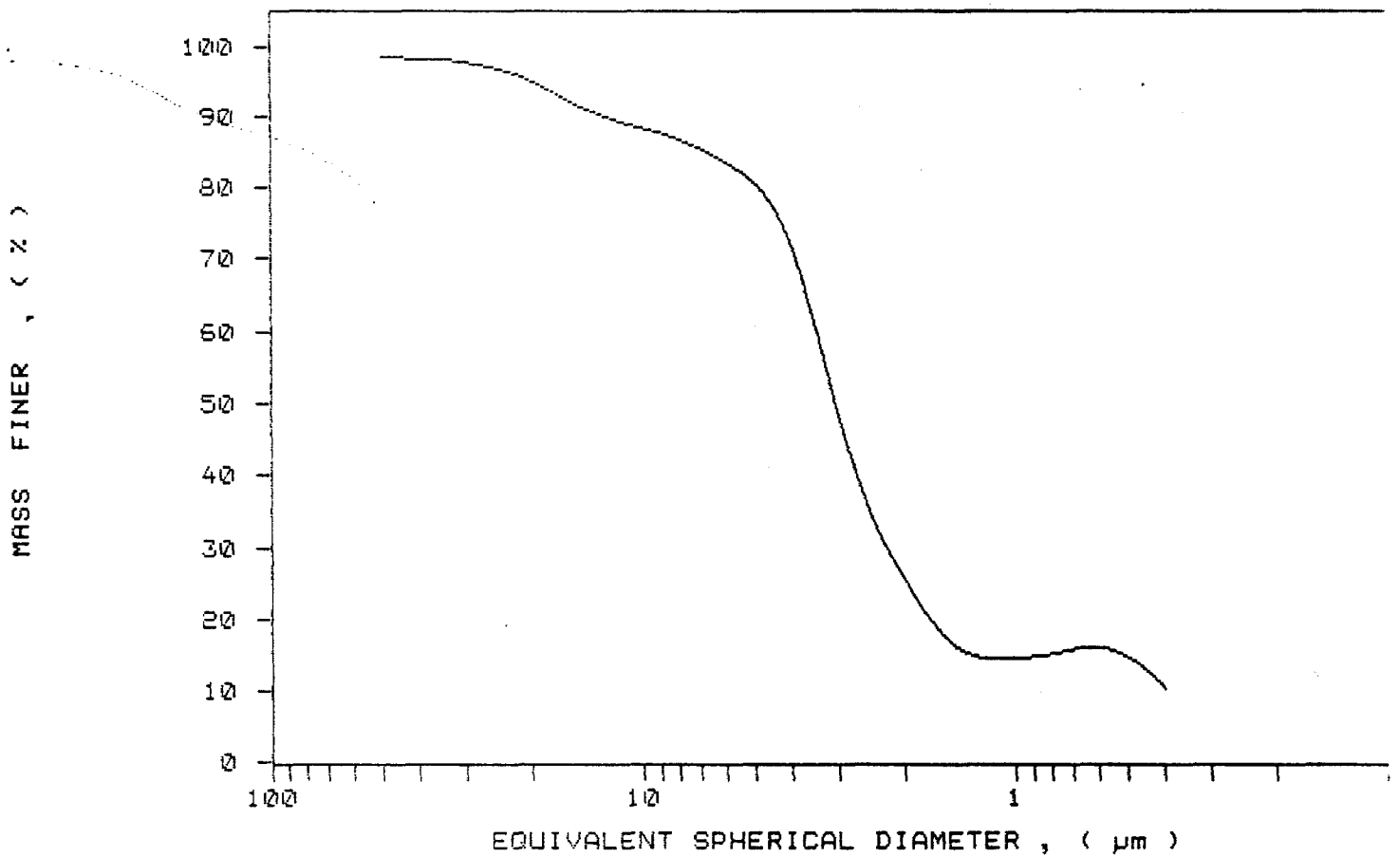
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.5	1.5
40.00	98.2	0.3
30.00	97.7	0.5
25.00	96.8	0.9
20.00	95.1	1.8
15.00	91.6	3.5
10.00	88.4	3.2
8.00	86.8	1.6
6.00	83.6	3.2
5.00	80.6	3.0
4.00	71.5	9.1
3.00	48.1	23.3
2.00	25.4	22.7
1.50	16.8	8.6
1.00	14.7	2.1
0.80	15.3	-0.6
0.60	16.1	-0.8
0.50	14.7	1.4
0.40	10.4	4.3



SAMPLE DIRECTORY/NUMBER: SECOND /334
SAMPLE ID: Hole 89-50 # 2128
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 13:10:05 12/21/89
REPRT 13:27:17 12/21/89
TOT RUN TIME 0:16:56
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7187 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /335
 SAMPLE ID: Hole 89-50 # 2129
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.3 deg C RUN TYPE: Standard

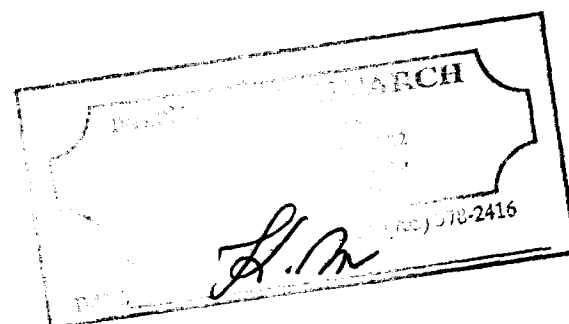
UNIT NUMBER: 1
 START 14:18:59 12/21/89
 REPT 14:36:09 12/21/89
 TOT RUN TIME 0:16:53
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7186 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

NO. MASS DISTRIBUTION
 MEDIAN DIAMETER: 1.51 μ m MODAL DIAMETER: 2.08 μ m

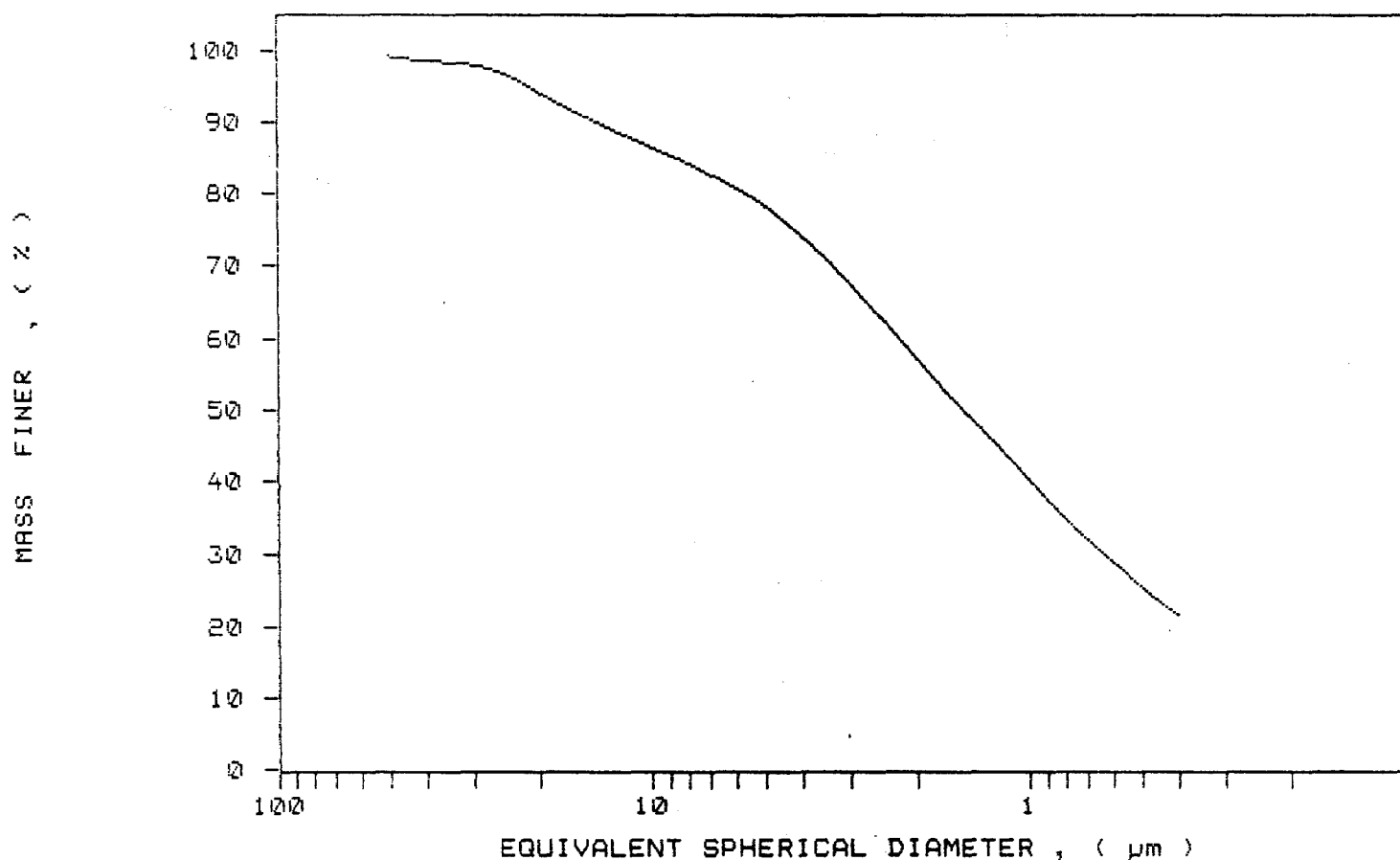
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.0	1.0
40.00	98.5	0.6
30.00	97.9	0.6
25.00	96.8	1.1
20.00	94.1	2.7
15.00	90.7	3.4
10.00	86.5	4.2
8.00	84.3	2.2
6.00	80.9	3.4
5.00	78.4	2.5
4.00	74.1	4.2
3.00	67.7	6.5
2.00	57.1	10.5
1.50	49.8	7.3
1.00	40.1	9.8
0.80	34.6	5.4
0.60	28.8	5.8
0.50	25.3	3.6
0.40	21.5	3.8



SAMPLE DIRECTORY/NUMBER: SECOND /335
SAMPLE ID: Hole 89-50 # 2129
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 55.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 14:18:59 12/21/89
REPT 14:36:09 12/21/89
TOT RUN TIME 0:16:53
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7186 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /336
 SAMPLE ID: Hole 89-50 # 2130
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 15:00:27 12/21/89
 REPRT 15:17:47 12/21/89
 TOT RUN TIME 0:17:04
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7184 cp

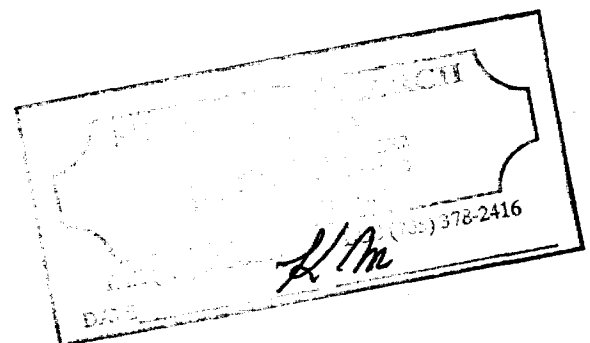
STARTING DIAMETER: 50.00 µm
 ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.61 µm MODAL DIAMETER: 3.04 µm

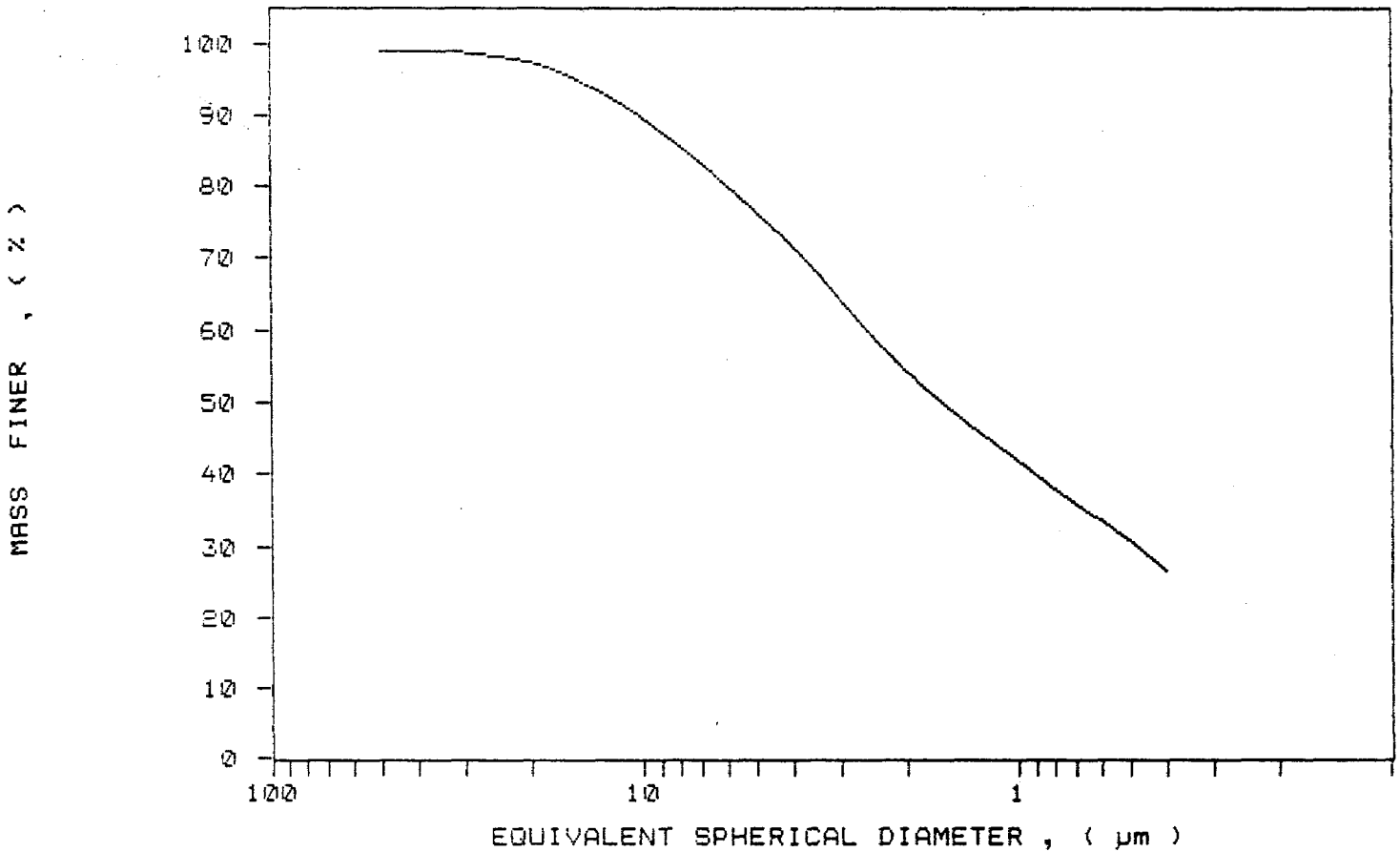
DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.7	1.3
40.00	98.8	-0.2
30.00	98.6	0.2
25.00	98.2	0.5
20.00	97.3	0.8
15.00	94.9	2.4
10.00	89.6	5.4
8.00	85.6	3.9
6.00	80.1	5.6
5.00	76.4	3.7
4.00	71.6	4.8
3.00	64.2	7.4
2.00	54.3	9.9
1.50	48.7	5.7
1.00	41.7	7.0
0.80	37.9	3.8
0.60	33.5	4.4
0.50	30.7	2.9
0.40	26.5	4.2



SAMPLE DIRECTORY/NUMBER: SECOND /386
SAMPLE ID: Hole 29-50 # 2130
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 15:00:27 12/21/89
REPRT 15:17:47 12/21/89
TOT RUN TIME 0:17:04
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7184 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /337

SAMPLE ID: Hole 89-50 # 2131

LOCATION: James Bay Co.

LABORATORY: James Bay Co.

TEST METHOD: Laser Light Scattering

TEST DATE: 12/22/89

TEST TIME: 09:51:12

TEST OPERATOR: JLM

TEST INSTRUMENT: SediGraph 5100

TEST SOFTWARE: SediSoft 2.00

TEST PARAMETERS: 5 deg C

TEST RESULTS: 1.54 um

RUN TYPE: Standard

MASS DISTRIBUTION

MODAL DIAMETER: 1.82 um

UNIT NUMBER: 1

START 09:51:12

STOP 10:04:40

DATE 12/22/89

TIME 09:51:12

OPERATOR JLM

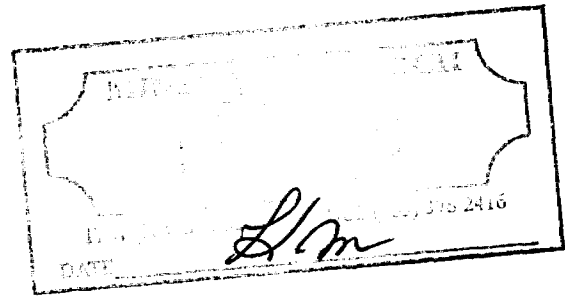
INSTRUMENT SEDI5100

SOFTWARE SEDISOFT

PARAMETERS 5 deg C

RESULTS 1.82 um

DIAMETER (um)	CUMULATIVE FINER (%)	MASS INTERVAL (%)
50.00	99.1	6.9
40.00	95.6	-2.7
30.00	97.7	-1.9
25.00	97.4	0.3
20.00	95.2	2.2
15.00	91.2	4.0
10.00	88.2	2.9
8.00	85.6	2.6
6.00	80.7	4.9
5.00	77.2	3.5
4.00	72.1	5.1
3.00	66.2	5.9
2.00	56.8	9.3
1.50	49.3	7.5
1.00	40.2	9.2
0.80	36.1	4.1
0.60	30.9	5.2
0.50	26.7	4.2
0.40	22.0	4.7



SAMPLE DIRECTORY/NUMBER: SECOND /337

SAMPLE ID: Hole 89-50 # 2131

UNIT NUMBER: 1

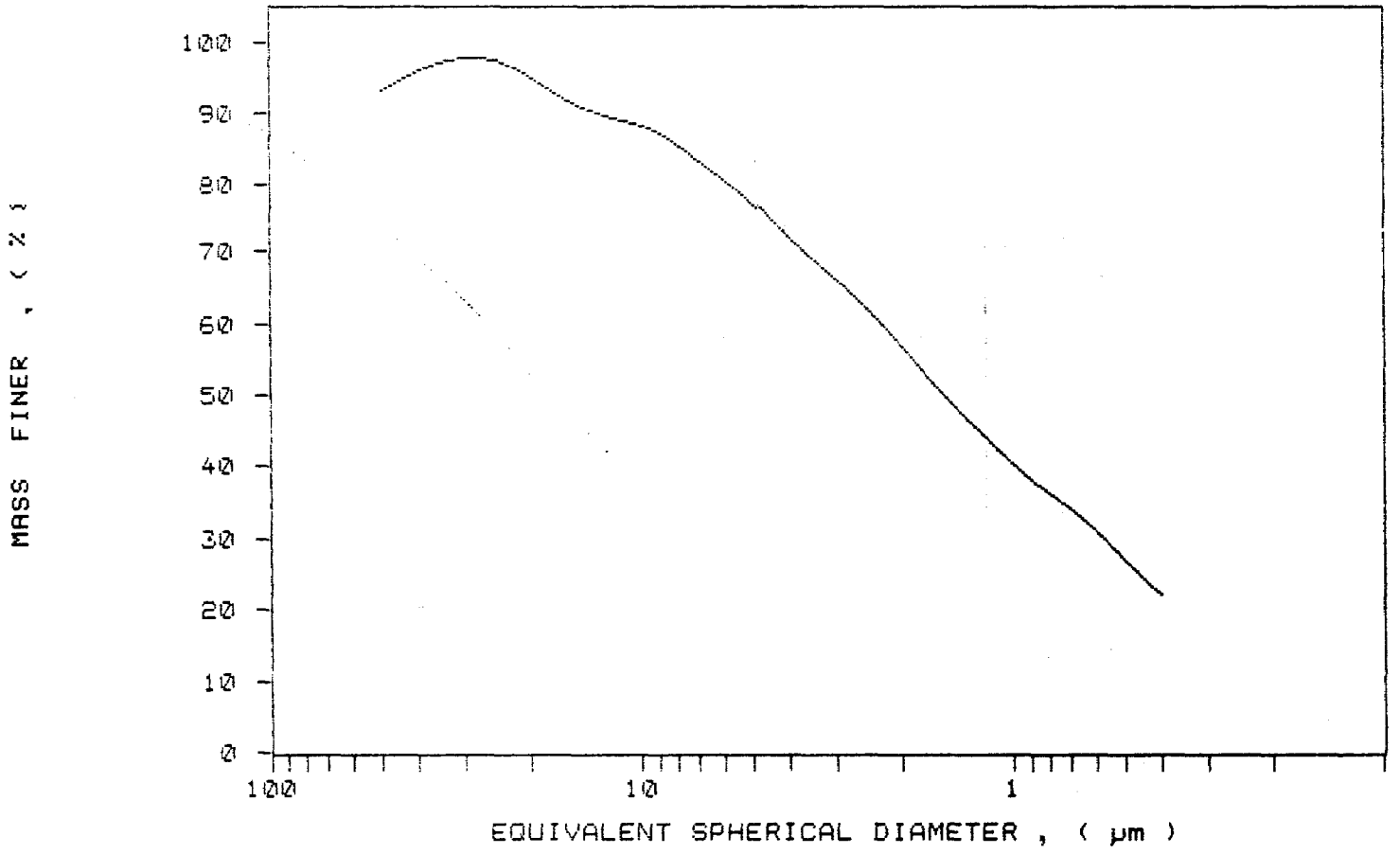
START 09:51:12 12/22/89

SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 33.5 deg C

SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9946 g/cc
LIQ VISC: 0.7442 cp

RUN TYPE: Standard

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /339
 SAMPLE ID: Hole 59-50 # 2132
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.8 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:33:44 12/22/89
 REPR 14:48:08 10/08/91
 TOT RUN TIME 0:16:51
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9938 g/cc
 LIQ VISC: 0.7113 cp

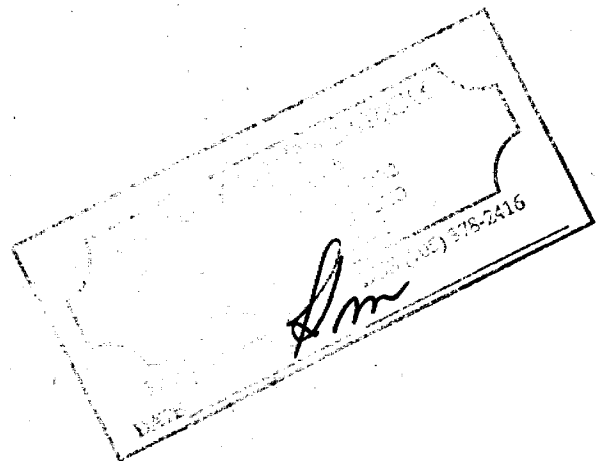
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.51 μ m MODAL DIAMETER: 2.78 μ m

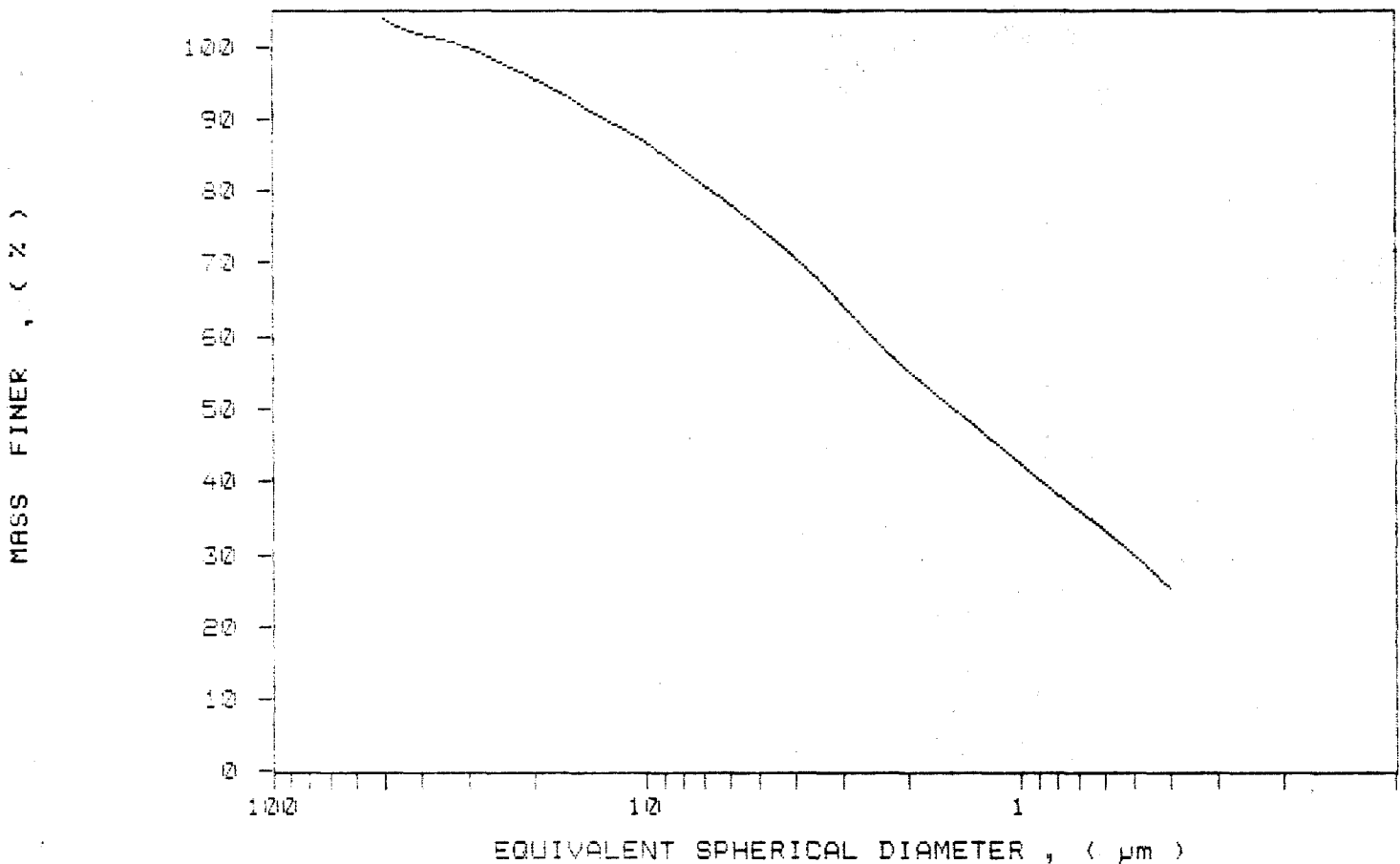
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	103.6	-3.6
40.00	101.6	2.1
30.00	99.5	1.8
25.00	98.0	1.8
20.00	95.5	2.4
15.00	91.9	3.6
10.00	86.7	5.2
8.00	83.0	3.7
6.00	78.2	4.8
5.00	75.1	3.2
4.00	70.3	4.8
3.00	64.4	5.9
2.00	55.2	9.2
1.50	49.9	5.3
1.00	42.3	7.6
0.80	38.2	4.1
0.60	33.3	4.9
0.50	29.9	3.5
0.40	25.2	4.7



SAMPLE DIRECTORY/NUMBER: SECOND /339
SAMPLE ID: Hole 29-50 # 2132
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.8 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 10:33:44 12/22/89
REPT 14:48:03 10/08/91
TOT RUN TIME 0:16:51
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9988 g/cc
LIQ VISC: 0.7113 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

SediGraph 5100 V2.00

PAGE 1

SAMPLE DIRECTORY/NUMBER: SECOND /342
 SAMPLE ID: Hole 89-50 # 2133
 SUBMITTER: JBK
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 36.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:18:32 01/02/90
 REPR 10:36:02 01/02/90
 TOT RUN TIME 0:17:06
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9937 g/cc
 LIQ VISC: 0.7051 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

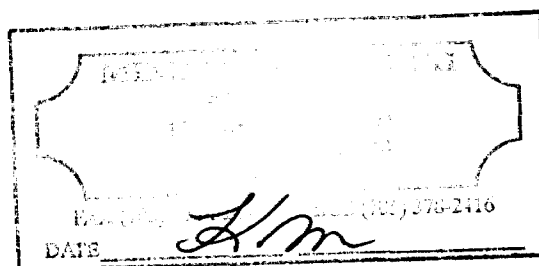
REYNOLDS NUMBER: 0.23
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.48 μ m

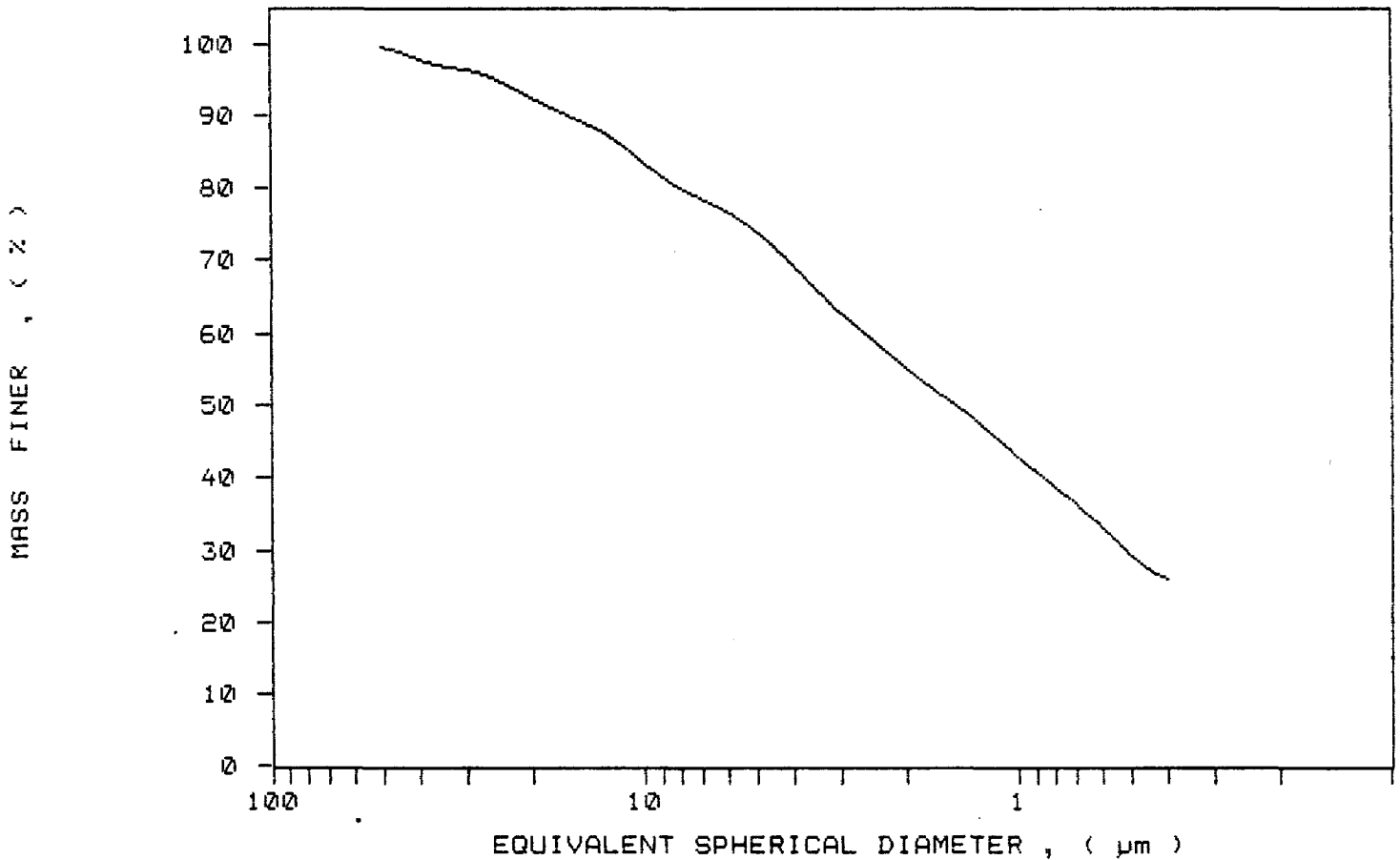
MODAL DIAMETER: 3.79 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.4	0.6
40.00	97.8	1.6
30.00	96.4	1.5
25.00	95.1	1.3
20.00	92.5	2.6
15.00	89.3	3.2
10.00	83.4	5.9
8.00	80.0	3.4
6.00	76.7	3.3
5.00	73.9	2.8
4.00	69.2	4.7
3.00	62.8	6.4
2.00	55.2	7.6
1.50	50.3	4.9
1.00	42.8	7.5
0.80	38.7	4.0
0.60	33.1	5.6
0.50	29.2	4.0
0.40	26.1	3.1



SAMPLE DIRECTORY/NUMBER: SECOND /342	UNIT NUMBER: 1
SAMPLE ID: Hole 89-50 # 2133	START 10:18:32 01/02/90
SUBMITTER: JBK	REPRT 10:36:02 01/02/90
OPERATOR: Kaarina	TOT RUN TIME 0:17:06
SAMPLE TYPE: Clay	SAM DENS: 2.6500 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9987 g/cc
ANALYSIS TEMP: 36.2 deg C	RUN TYPE: Standard
	LIQ VISC: 0.7051 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

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SAMPLE DIRECTORY/NUMBER: SECOND /343
 SAMPLE ID: Hole 89-50 # 2134
 SUBMITTER: JBK
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 36.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 11:02:49 01/02/90
 REPT 11:20:06 01/02/90
 TOT RUN TIME 0:16:52
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9937 g/cc
 LIQ VISC: 0.7051 cp

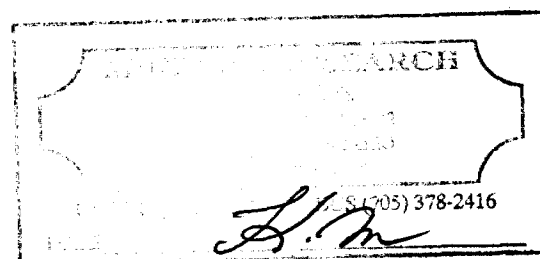
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.23
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.60 μ m MODAL DIAMETER: 6.06 μ m

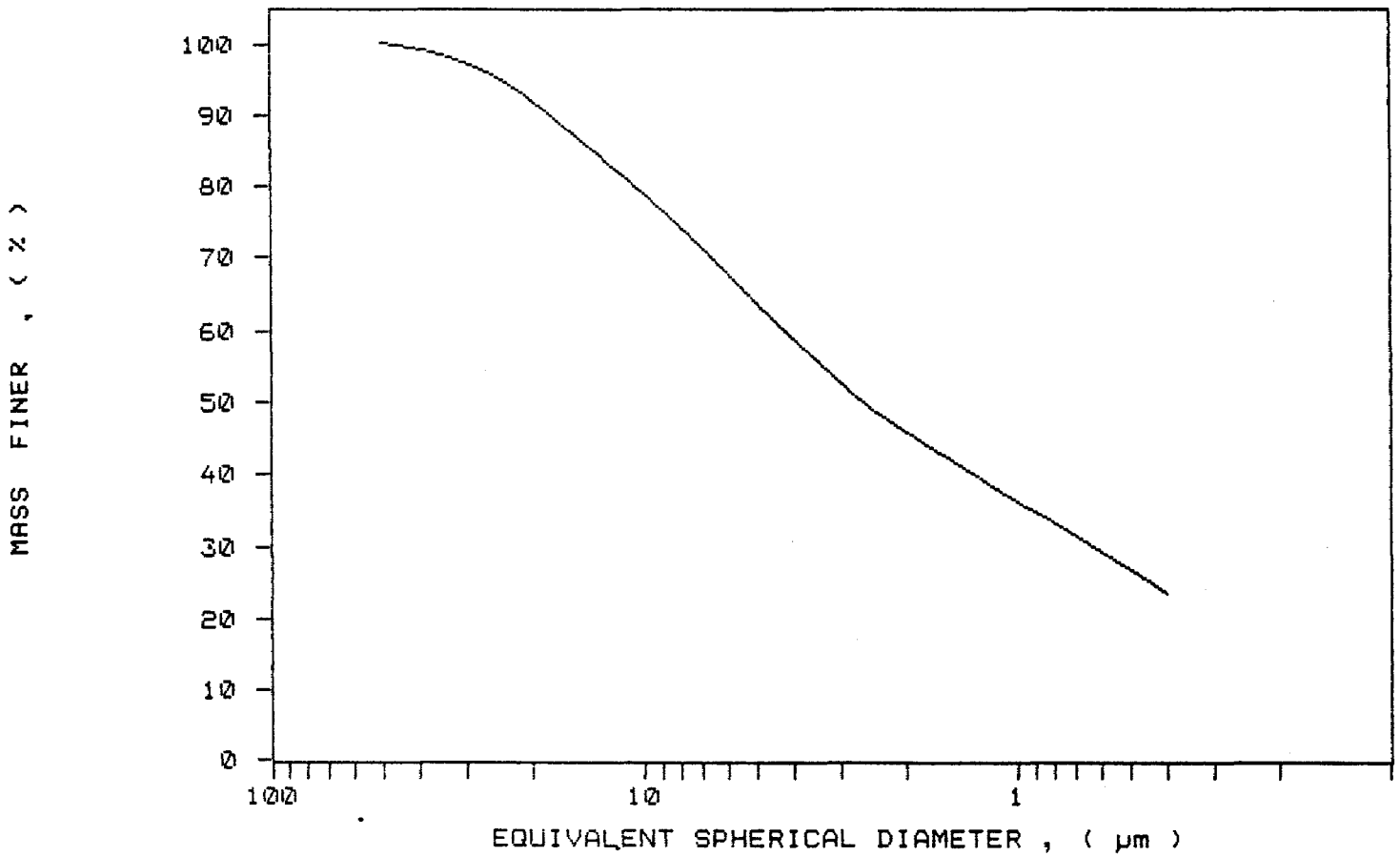
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	100.2	-0.2
40.00	99.3	0.9
30.00	97.3	2.0
25.00	95.5	1.9
20.00	92.2	3.3
15.00	86.9	5.3
10.00	78.9	8.0
8.00	74.3	4.6
6.00	67.9	6.4
5.00	63.7	4.1
4.00	58.9	4.9
3.00	52.7	6.2
2.00	45.9	6.8
1.50	41.8	4.1
1.00	36.2	5.7
0.80	33.2	2.9
0.60	29.2	4.1
0.50	26.7	2.5
0.40	23.5	3.2



SAMPLE DIRECTORY/NUMBER: SECOND /343
SAMPLE ID: Hole 89-50 # 2134
SUBMITTER: JBK
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 36.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 11:02:49 01/02/90
REPT 11:20:06 01/02/90
TOT RUN TIME 0:16:52
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9937 g/cc
LIQ VISC: 0.7051 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



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Kaolin

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SAMPLE DIRECTORY/NUMBER: SECOND /344
SAMPLE ID: Hole 89-50 # 2135
SUBMITTER: JBK
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 36.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 11:37:08 01/02/90
REPR 11:54:07 01/02/90
TOT RUN TIME 0:16:36
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9937 g/cc
LIQ VISC: 0.7051 cp

STARTING DIAMETER: 50.00 μ m
ENDING DIAMETER: 0.40 μ m

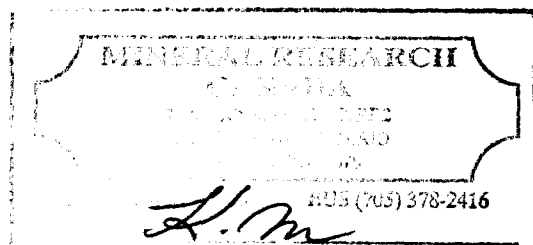
REYNOLDS NUMBER: 0.23
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.13 μ m

MODAL DIAMETER: 5.48 μ m

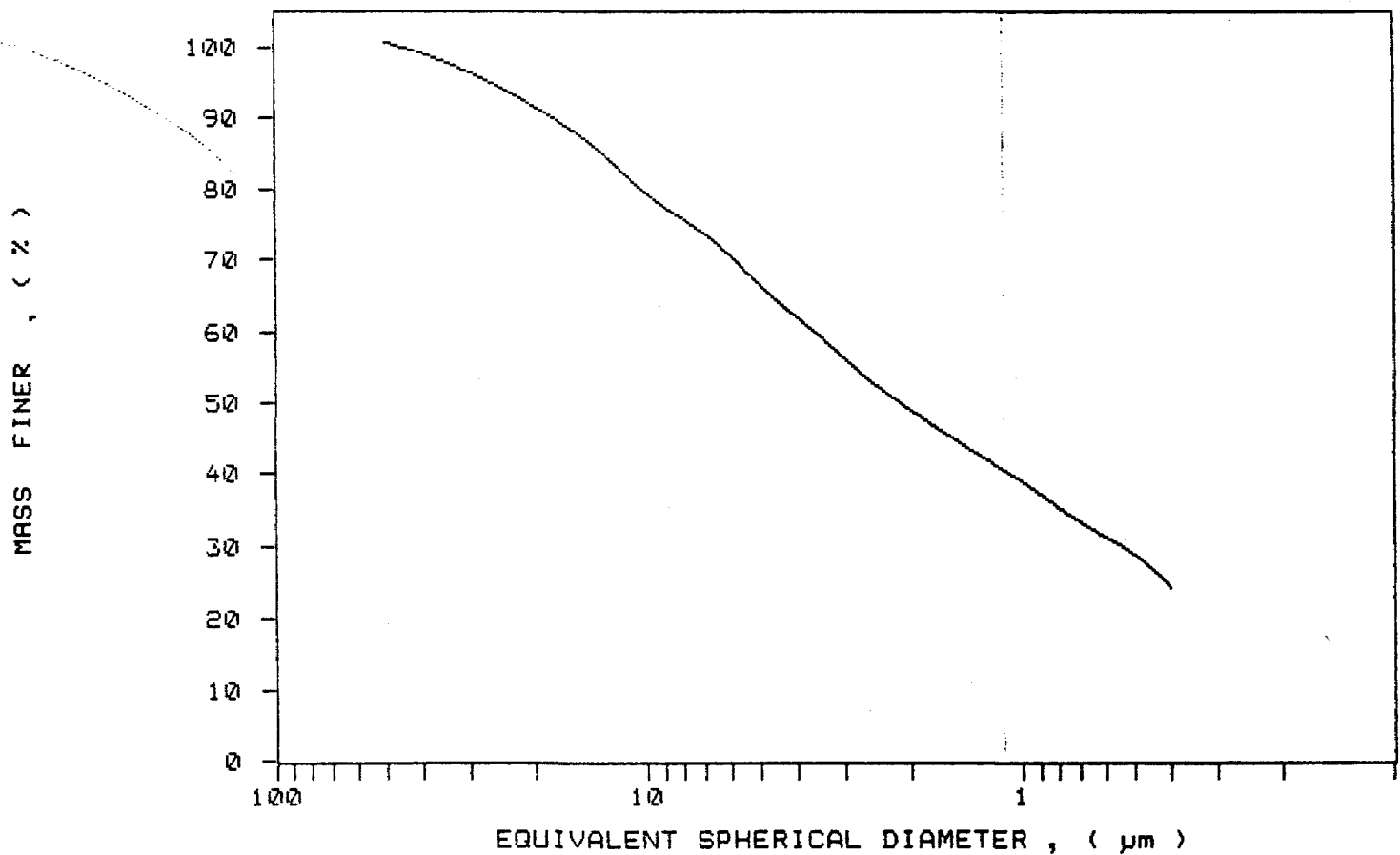
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	100.7	-0.7
40.00	99.1	1.6
30.00	96.5	2.6
25.00	94.5	2.0
20.00	91.6	2.9
15.00	87.5	4.1
10.00	79.5	8.0
8.00	75.9	3.6
6.00	70.7	5.3
5.00	66.5	4.2
4.00	62.1	4.4
3.00	56.3	5.8
2.00	49.0	7.3
1.50	44.6	4.4
1.00	38.8	5.7
0.80	35.4	3.5
0.60	31.3	4.1
0.50	29.7	2.6
0.40	24.3	4.4



SAMPLE DIRECTORY/NUMBER: SECOND /344
SAMPLE ID: Hole 89-50 # 2135
SUBMITTER: JBK
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 36.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 11:37:08 01/02/90
REPT 11:54:07 01/02/90
TOT RUN TIME 0:16:36
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9937 g/cc
LIQ VISC: 0.7051 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /345
 SAMPLE ID: Hole 89-50 # 2136
 SUBMITTER: JBK
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 36.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 13:09:54 01/02/90
 REPR 13:27:24 01/02/90
 TOT RUN TIME 0:17:06
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9937 g/cc
 LIQ VISC: 0.7056 cp

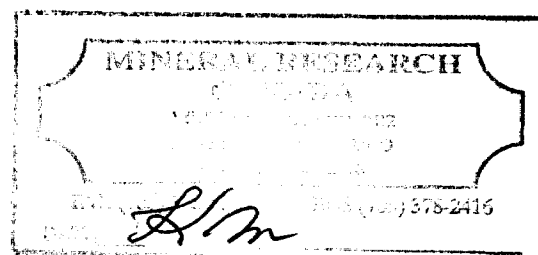
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.30 μ m MODAL DIAMETER: 0.66 μ m

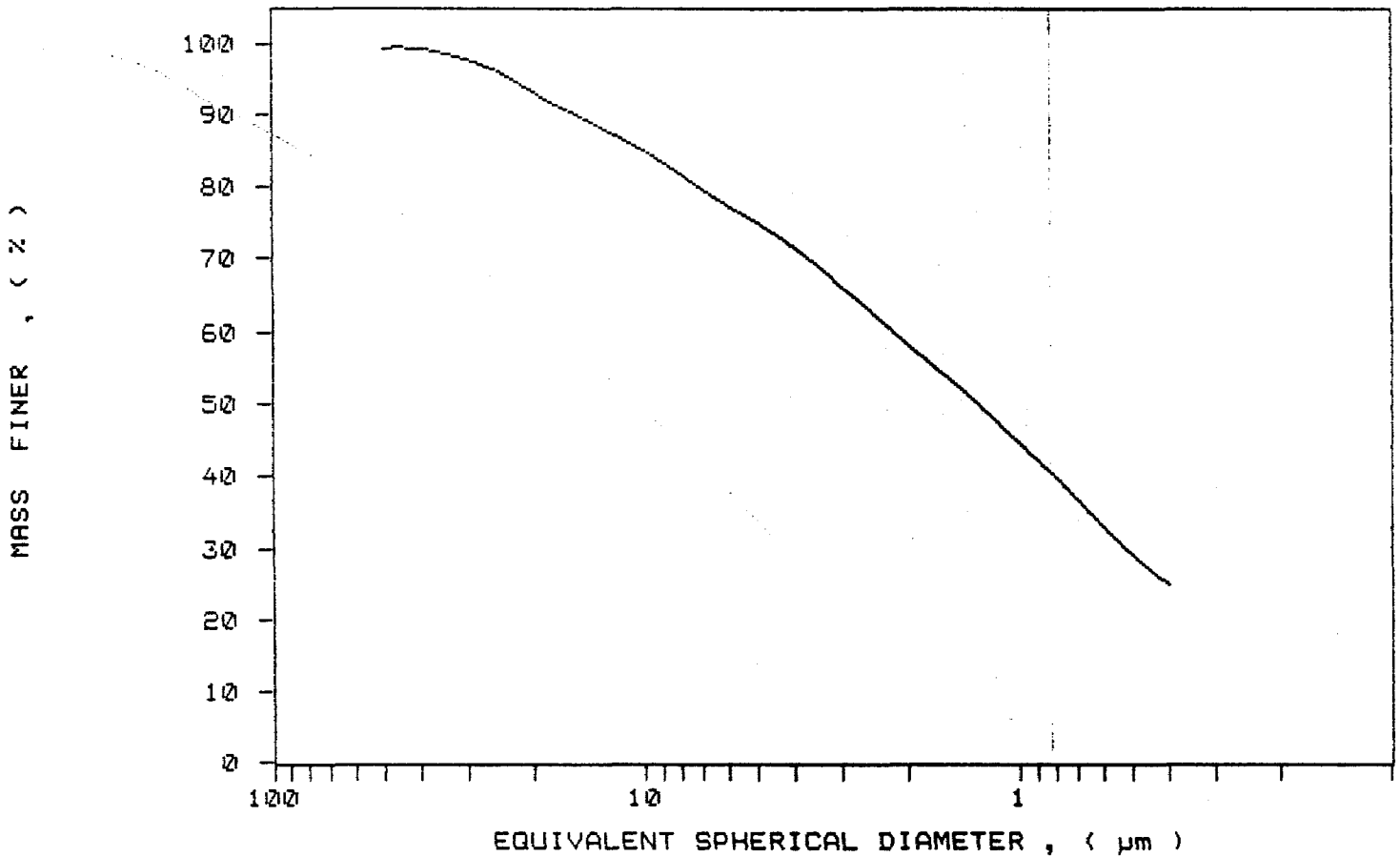
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.3	0.7
40.00	99.2	0.1
30.00	97.7	1.4
25.00	96.1	1.6
20.00	93.2	2.9
15.00	89.7	3.5
10.00	84.9	4.8
8.00	81.7	3.2
6.00	77.5	4.2
5.00	75.1	2.4
4.00	71.7	3.4
3.00	66.4	5.3
2.00	58.4	8.1
1.50	53.0	5.4
1.00	44.4	8.5
0.80	39.8	4.7
0.60	33.0	6.7
0.50	29.0	4.0
0.40	24.9	4.1



SAMPLE DIRECTORY/NUMBER: SECOND /345
SAMPLE ID: Hole 89-50 # 2136
SUBMITTER: JBK
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 36.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 13:09:54 01/02/90
REPT 13:27:24 01/02/90
TOT RUN TIME: 0:17:06
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9937 g/cc
LIQ VISC: 0.7056 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /346
 SAMPLE ID: Hole 89-50 # 2137
 SUBMITTER: JBK
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 36.2 deg C RUN TYPE: Standard

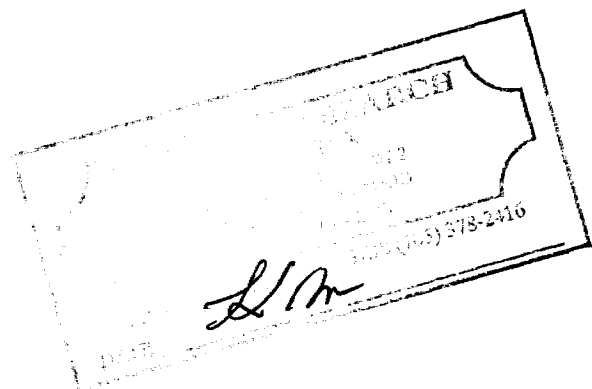
UNIT NUMBER: 1
 START 13:40:05 01/02/90
 REPRT 13:57:31 01/02/90
 TOT RUN TIME 0:17:03
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9937 g/cc
 LIQ VISC: 0.7054 cp

STARTING DIAMETER: 50.00 μ m REYNOLDS NUMBER: 0.23
 ENDING DIAMETER: 0.40 μ m FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.73 μ m MODAL DIAMETER: 0.40 μ m

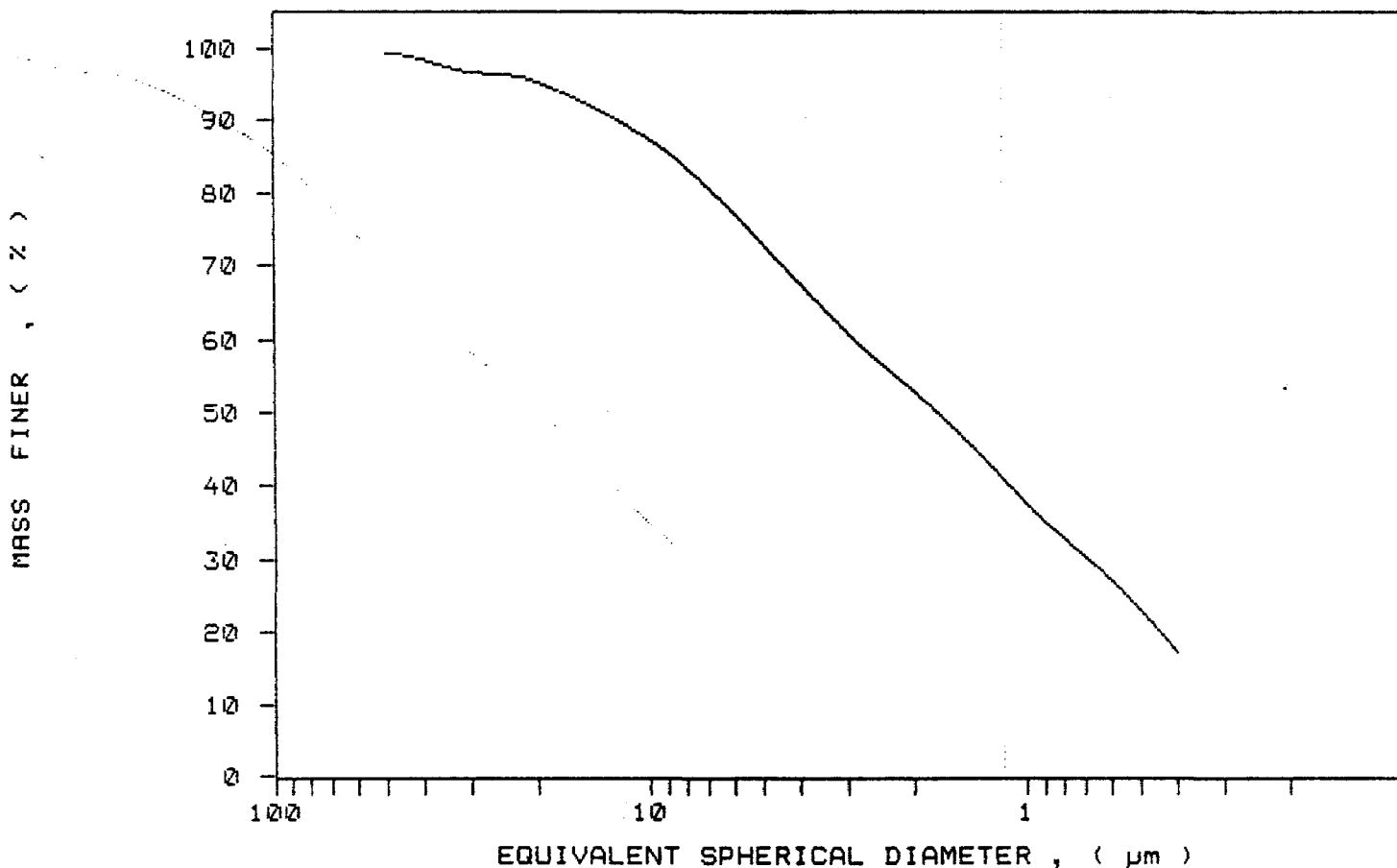
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.3	0.7
40.00	98.4	0.9
30.00	96.7	1.7
25.00	96.3	0.4
20.00	95.4	1.0
15.00	92.5	2.9
10.00	87.3	5.2
8.00	83.6	3.7
6.00	77.4	6.2
5.00	73.1	4.4
4.00	67.6	5.4
3.00	60.9	6.7
2.00	53.0	7.9
1.50	46.9	6.2
1.00	37.4	9.5
0.80	32.7	4.6
0.60	27.0	5.7
0.50	22.9	4.2
0.40	17.1	5.8



SAMPLE DIRECTORY/NUMBER: SECOND /346
SAMPLE ID: Hole 89-50 # 2137
SUBMITTER: JBK
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 36.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 13:40:05 01/02/90
REPT 13:57:31 01/02/90
TOT RUN TIME 0:17:03
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9937 g/cc
LIQ VISC: 0.7054 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /347
 SAMPLE ID: Hole 89-50 # 2138
 SUBMITTER: JBK
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 36.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 14:13:11 01/02/90
 REPRT 14:30:44 01/02/90
 TOT RUN TIME 0:17:10
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9937 g/cc
 LIQ VISC: 0.7056 cp

STARTING DIAMETER: 50.00 μm
 ENDING DIAMETER: 0.40 μm

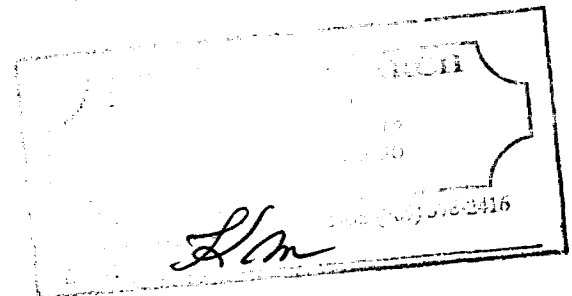
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 0.91 μm

MODAL DIAMETER: 0.61 μm

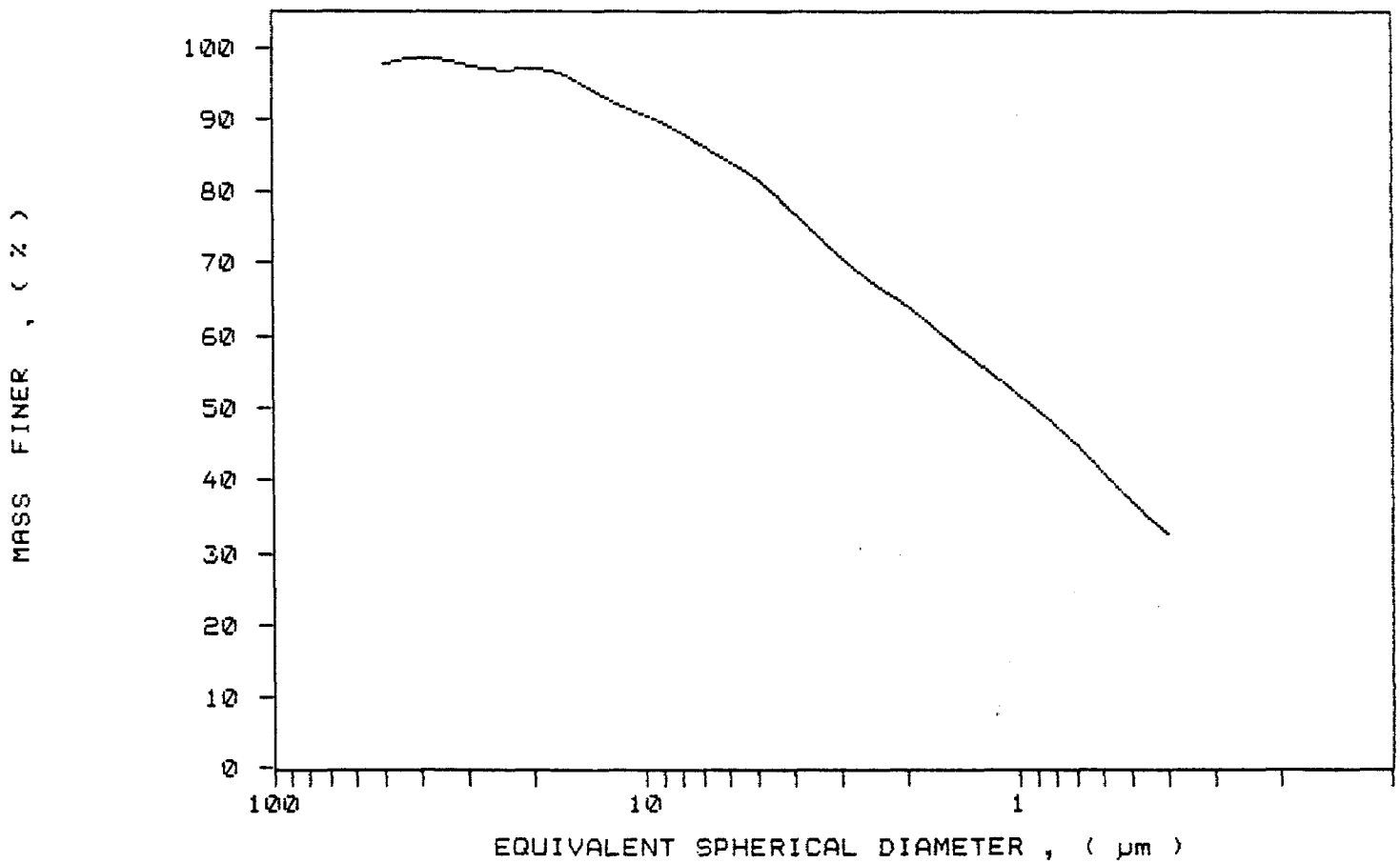
DIAMETER (μm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	97.6	2.4
40.00	98.6	-1.0
30.00	97.5	1.0
25.00	96.9	0.7
20.00	97.0	-0.1
15.00	95.0	2.0
10.00	90.5	4.5
8.00	88.0	2.5
6.00	84.2	3.8
5.00	81.6	2.6
4.00	77.1	4.5
3.00	70.8	6.3
2.00	64.1	6.7
1.50	58.9	5.3
1.00	51.7	7.2
0.80	47.4	4.3
0.60	41.1	6.3
0.50	36.9	4.1
0.40	32.6	4.4



SAMPLE DIRECTORY/NUMBER: SECOND /347
SAMPLE ID: Hole 89-50 # 2138
SUBMITTER: JBK
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 36.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 14:13:11 01/02/90
REPRT 14:30:44 01/02/90
TOT RUN TIME 0:17:10
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9997 g/cc
LIQ VISC: 0.7056 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /348
 SAMPLE ID: Hole 89-50 # 2139
 SUBMITTER: JBK
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 36.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 14:42:44 01/02/90
 REPRT 15:00:11 01/02/90
 TOT RUN TIME 0:17:03
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9937 g/cc
 LIQ VISC: 0.7056 cp

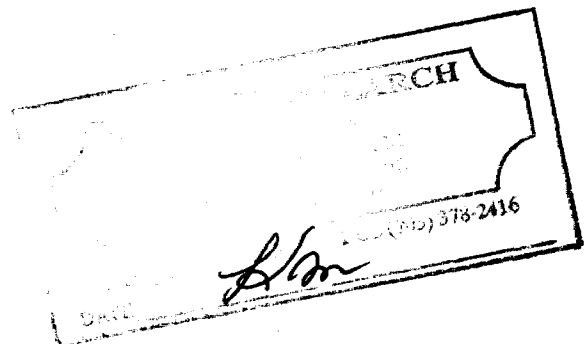
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.83 μ m MODAL DIAMETER: 4.52 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	96.3	3.7
40.00	97.6	-1.3
30.00	96.2	1.4
25.00	95.5	0.7
20.00	95.1	0.4
15.00	92.8	2.3
10.00	86.6	6.2
8.00	82.8	3.8
6.00	77.6	5.3
5.00	73.4	4.1
4.00	67.8	5.6
3.00	61.0	6.8
2.00	52.2	8.7
1.50	45.6	6.6
1.00	37.2	8.4
0.80	31.9	5.4
0.60	25.8	6.1
0.50	21.9	3.9
0.40	17.3	4.7



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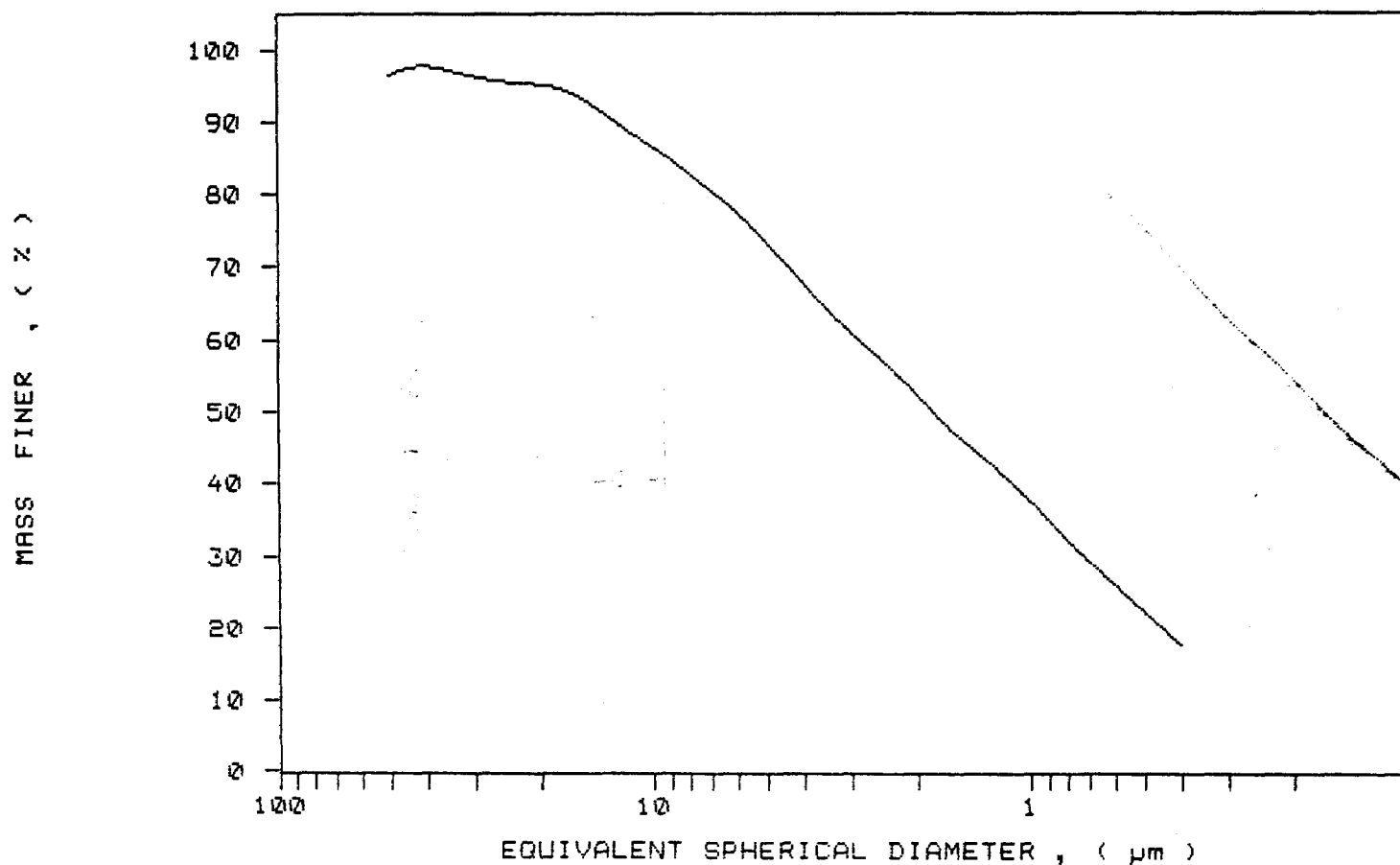
Kaolin

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SAMPLE DIRECTORY/NUMBER: SECOND /348
SAMPLE ID: Hole 89-50 # 2139
SUBMITTER: JBK
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 36.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 14:42:44 01/02/90
REPT 15:00:11 01/02/90
TOT RUN TIME 0:17:03
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9937 g/cc
LIQ VISC: 0.7056 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

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SAMPLE DIRECTORY/NUMBER: SECOND /349
 SAMPLE ID: Hole 89-50 # 2140
 SUBMITTER: JBK
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 36.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 15:27:46 01/02/90
 REPR 15:45:12 01/02/90
 TOT RUN TIME 0:17:02
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9937 g/cc
 LIQ VISC: 0.7057 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

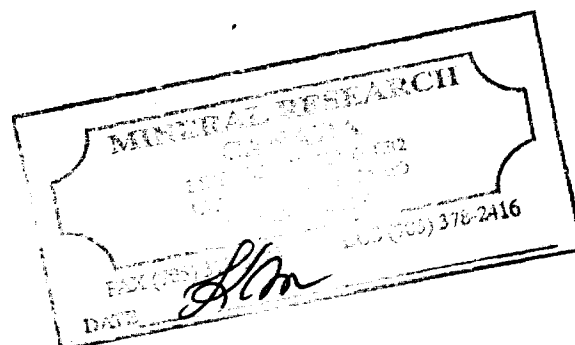
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

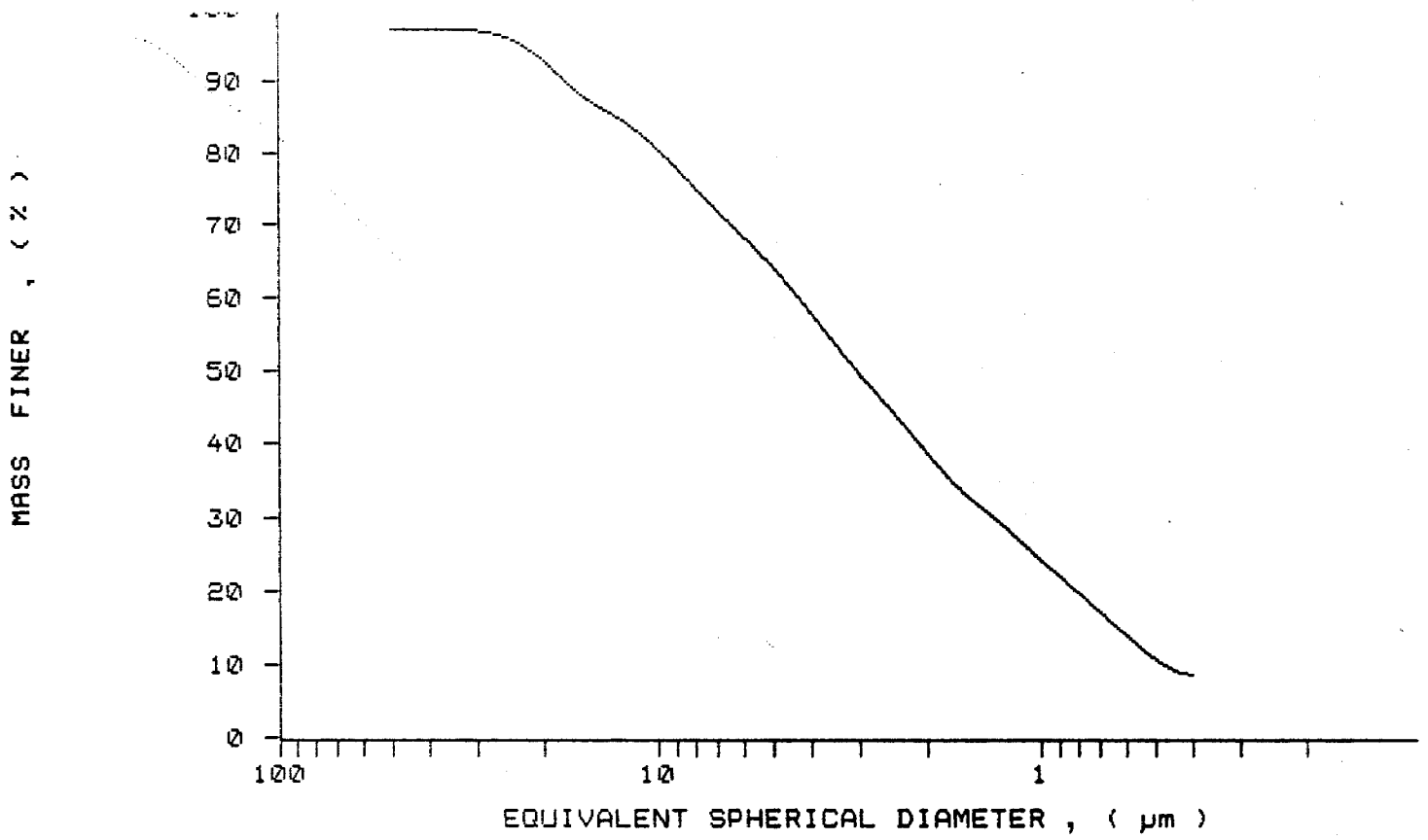
MEDIAN DIAMETER: 3.03 μ m

MODAL DIAMETER: 3.72 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	97.2	2.8
40.00	97.0	0.2
30.00	96.9	0.1
25.00	95.9	1.0
20.00	92.8	3.1
15.00	87.3	5.6
10.00	80.5	6.7
8.00	75.3	5.2
6.00	68.4	6.9
5.00	64.0	4.5
4.00	57.9	6.0
3.00	49.7	8.2
2.00	38.8	10.9
1.50	32.1	6.7
1.00	24.1	8.0
0.80	19.8	4.4
0.60	13.9	5.8
0.50	10.7	3.2
0.40	8.7	2.0



#214



SAMPLE DIRECTORY/NUMBER: SECOND /350
 SAMPLE ID: Hole 89-50 # 2141
 SUBMITTER: JBK
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 36.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 15:56:36 01/02/9
 REPR 16:14:01 01/02/9
 TOT RUN TIME 0:17:0
 SAM DENS: 2.6500 g/c
 LIQ DENS: 0.9937 g/c
 LIQ VISC: 0.7057 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

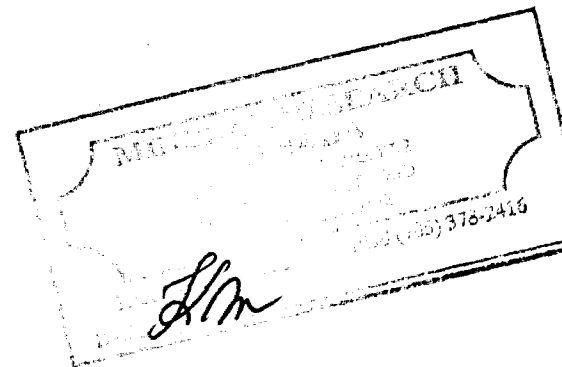
REYNOLDS NUMBER: 0.2
 FULL SCALE MASS %: 10

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.80 μ m

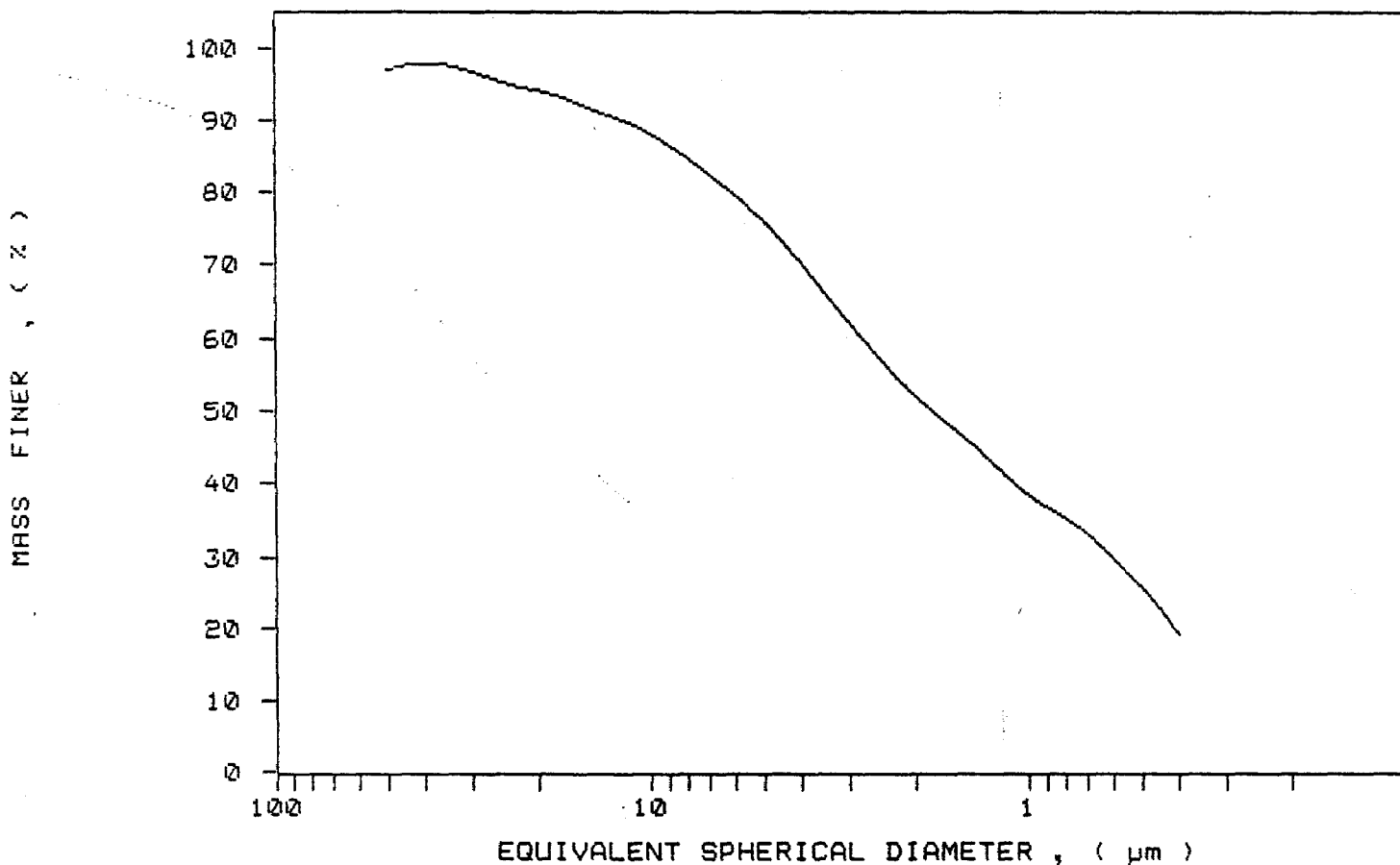
MODAL DIAMETER: 0.40 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	96.9	3.1
40.00	97.9	-1.0
30.00	96.7	1.1
25.00	95.3	1.4
20.00	94.1	1.2
15.00	92.0	2.2
10.00	88.1	3.9
8.00	84.8	3.3
6.00	79.7	5.1
5.00	76.0	3.6
4.00	70.3	5.7
3.00	62.2	8.1
2.00	52.1	10.1
1.50	46.6	5.5
1.00	38.4	8.3
0.80	35.3	3.1
0.60	29.8	5.5
0.50	25.5	4.3
0.40	19.0	6.5



SAMPLE DIRECTORY/NUMBER: SECOND /350	UNIT NUMBER: 1
SAMPLE ID: Hole 89-50 # 2141	START 15:56:36 01/02/90
SUBMITTER: JBK	REPRT 16:14:01 01/02/90
OPERATOR: Kaarina	TOT RUN TIME 0:17:01
SAMPLE TYPE: Clay	SAM DENS: 2.6500 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9937 g/cc
ANALYSIS TEMP: 36.2 deg C	LIQ VISC: 0.7057 cp
RUN TYPE: Standard	

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /351
 SAMPLE ID: Hole 89-50 # 2142
 SUBMITTER: JBK
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 36.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 16:25:37 01/02/90
 REPT 16:43:04 01/02/90
 TOT RUN TIME 0:17:03
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9937 g/cc
 LIQ VISC: 0.7057 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

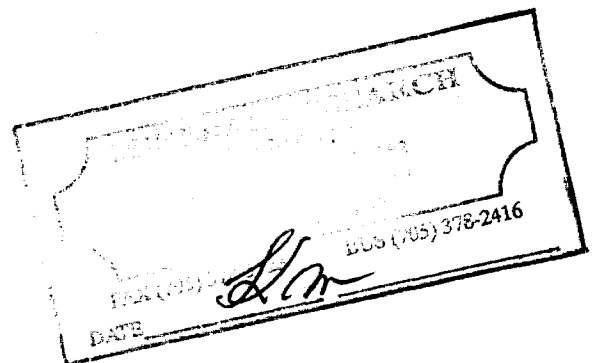
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.50 μ m

MODAL DIAMETER: 0.40 μ m

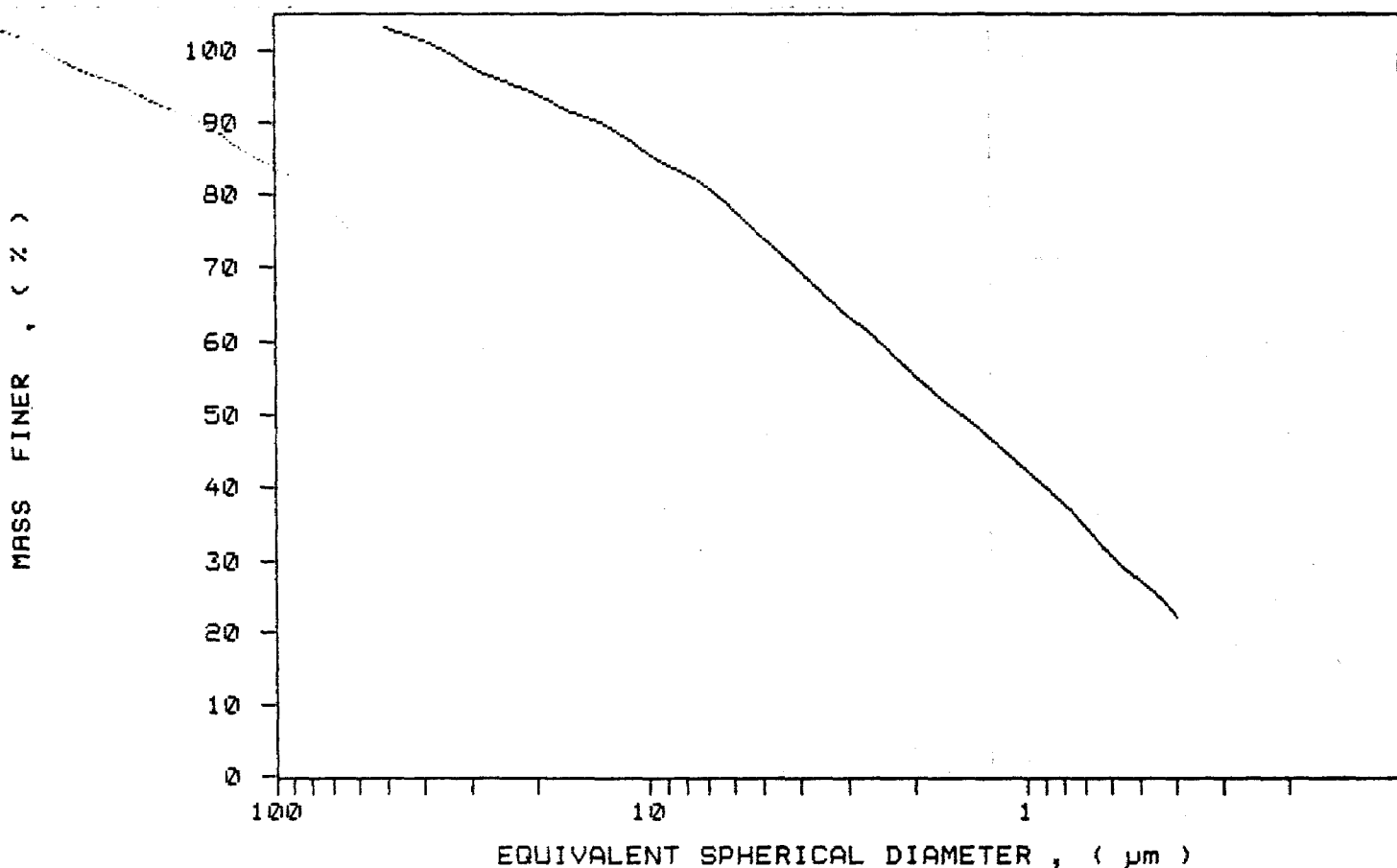
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	103.1	-3.1
40.00	101.2	1.8
30.00	97.8	3.4
25.00	95.9	2.0
20.00	93.9	2.0
15.00	90.9	3.0
10.00	85.6	5.2
8.00	82.8	2.8
6.00	78.0	4.8
5.00	74.2	3.8
4.00	69.7	4.6
3.00	63.6	6.1
2.00	55.4	8.1
1.50	50.0	5.4
1.00	42.1	7.9
0.80	37.7	4.4
0.60	30.6	7.1
0.50	27.1	3.5
0.40	22.1	5.1



SAMPLE DIRECTORY/NUMBER: SECOND /351
SAMPLE ID: Hole 89-50 # 2142
SUBMITTER: JBK
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 36.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 16:25:37 01/02/90
REPRT 16:43:04 01/02/90
TOT RUN TIME 0:17:03
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9937 g/cc
LIQ VISC: 0.7057 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

SediGraph 5100 V2.00

PAGE 1

SAMPLE DIRECTORY/NUMBER: SECOND /352
 SAMPLE ID: Hole 89-50 # 2143
 SUBMITTER: JBK
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 36.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 08:30:20 01/03/90
 REPRT 08:47:47 01/03/90
 TOT RUN TIME 0:17:02
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9937 g/cc
 LIQ VISC: 0.7058 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

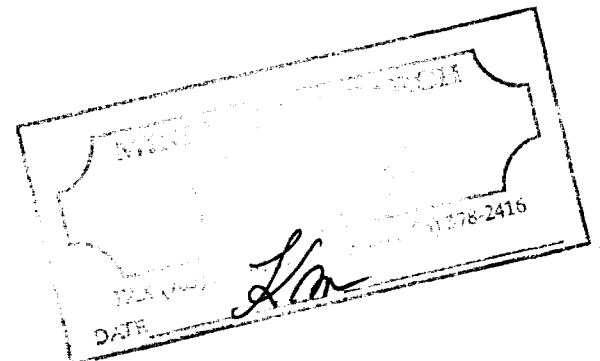
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.37 μ m

MODAL DIAMETER: 0.40 μ m

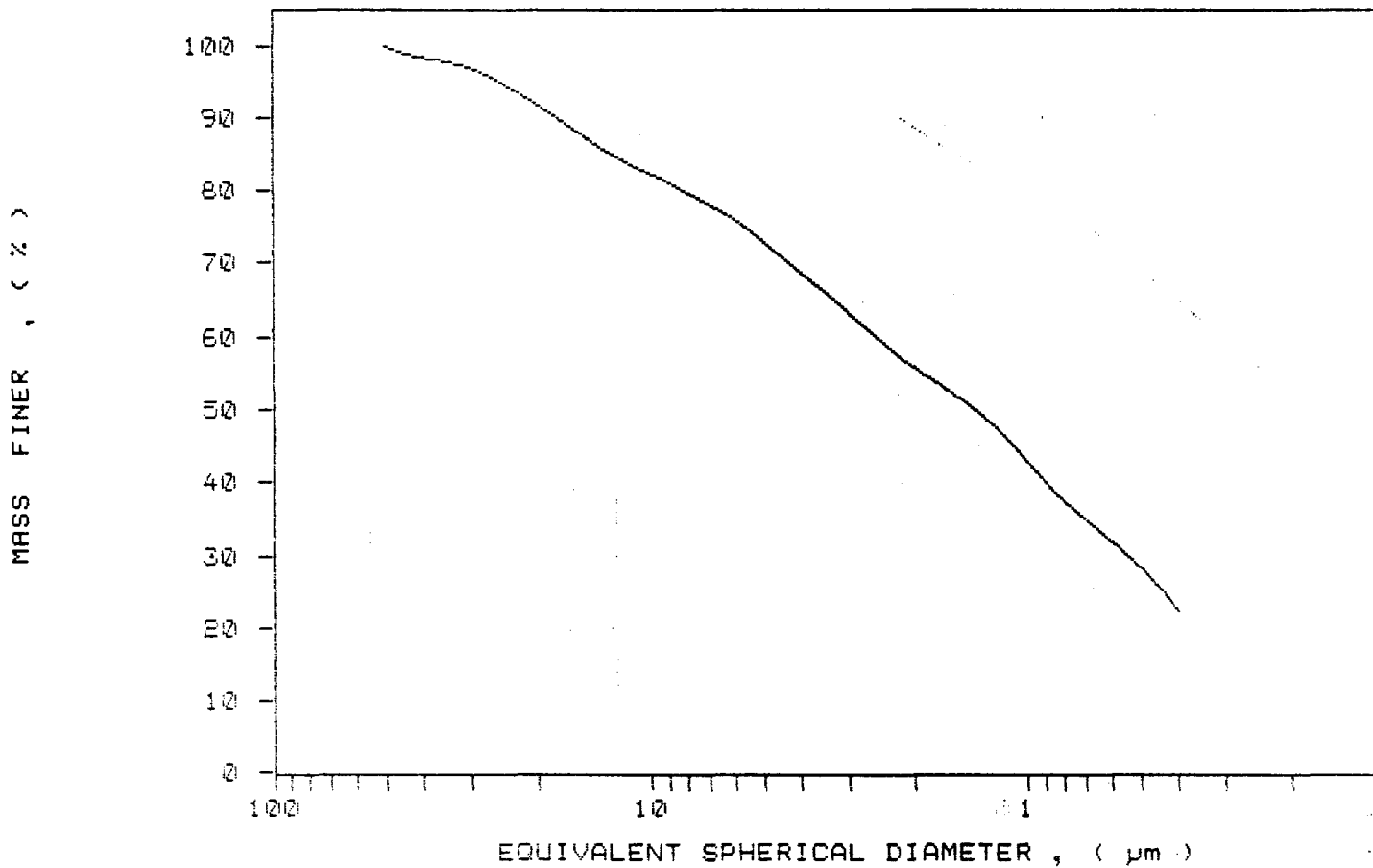
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.8	0.2
40.00	98.8	1.5
30.00	96.9	1.4
25.00	95.0	2.0
20.00	91.8	3.1
15.00	87.5	4.4
10.00	82.4	5.1
8.00	79.8	2.6
6.00	76.1	3.7
5.00	73.0	3.1
4.00	68.8	4.2
3.00	63.4	5.4
2.00	56.0	7.5
1.50	51.5	4.5
1.00	42.8	8.7
0.80	37.5	5.8
0.60	32.0	5.5
0.50	28.2	3.8
0.40	22.8	5.9



SAMPLE DIRECTORY/NUMBER: SECOND /352
SAMPLE ID: Hole 89-50 # 2143
SUBMITTER: JBK
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 36.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 08:30:20 01/03/9
REPRT 08:47:47 01/03/9
TOT RUN TIME 0:17:0
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9937 g/cc
LIQ VISC: 0.7058 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /353
 SAMPLE ID: Hole 89-50 # 2144
 SUBMITTER: JBK
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 36.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 09:00:10 01/03/90
 REPT 09:17:36 01/03/90
 TOT RUN TIME 0:17:02
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9937 g/cc
 LIQ VISC: 0.7055 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

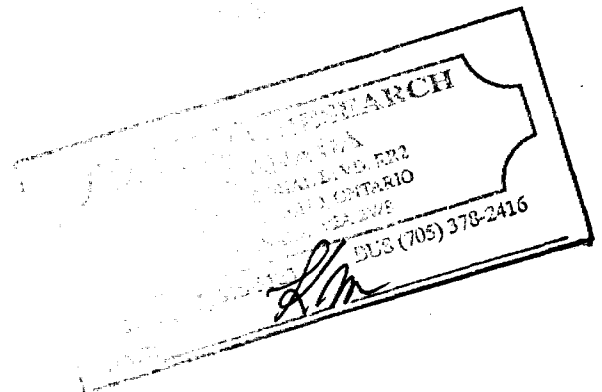
REYNOLDS NUMBER: 0.23
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.80 μ m

MODAL DIAMETER: 4.02 μ m

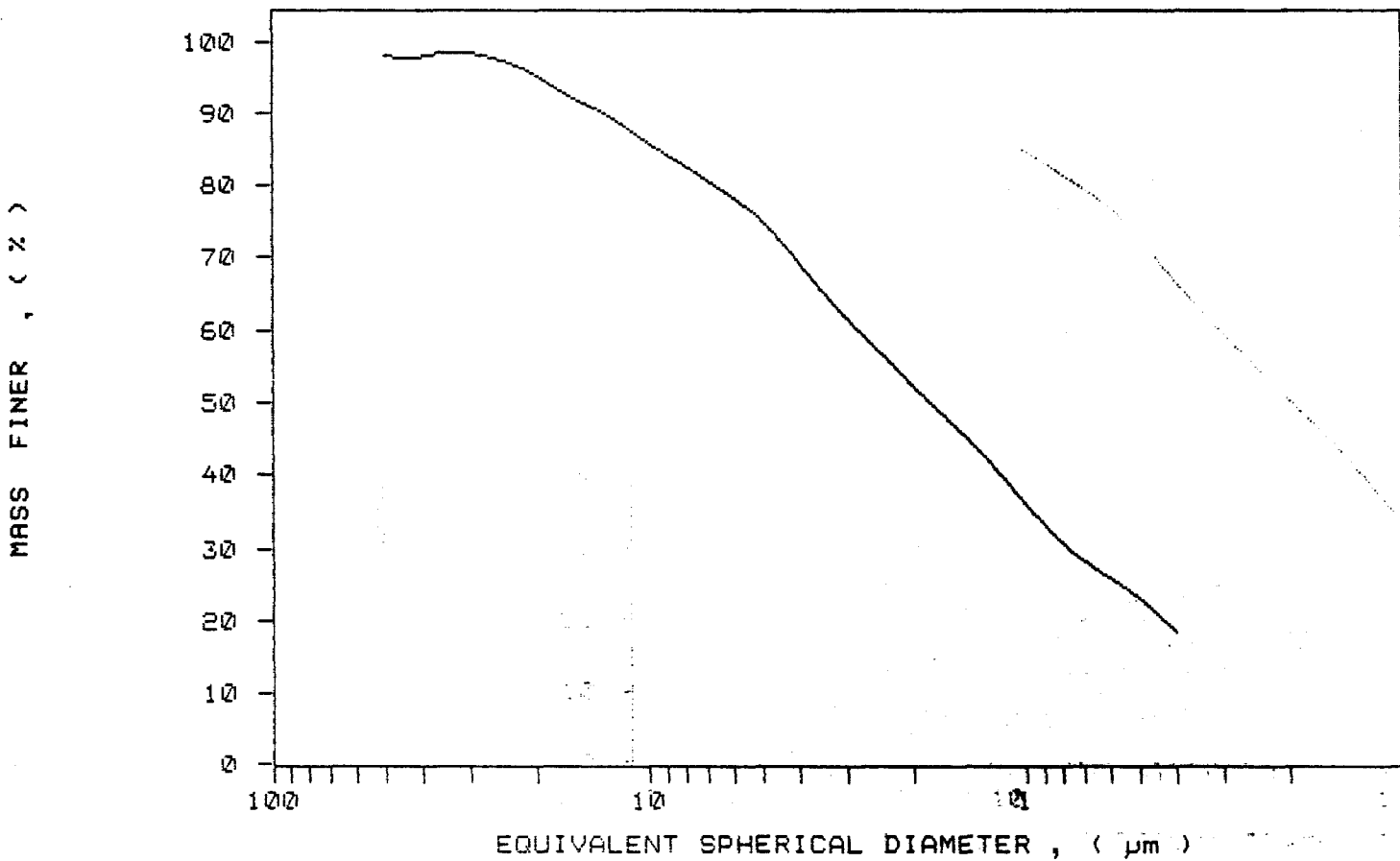
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.2	1.8
40.00	97.9	0.2
30.00	98.4	-0.5
25.00	97.5	0.9
20.00	95.3	2.2
15.00	91.5	3.9
10.00	85.0	5.6
8.00	82.7	2.1
6.00	78.4	4.3
5.00	75.1	3.2
4.00	69.3	5.9
3.00	61.7	7.5
2.00	52.3	9.4
1.50	46.1	6.3
1.00	35.9	10.2
0.80	30.7	5.2
0.60	25.8	4.9
0.50	22.9	2.9
0.40	18.6	4.3



SAMPLE DIRECTORY/NUMBER: SECOND /353
SAMPLE ID: Hole 89-50 # 2144
SUBMITTER: JBK
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 36.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 09:00:10 01/03/90
REPT 09:17:36 01/03/90
TOT RUN TIME 0:17:02
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9937 g/cc
LIQ VISC: 0.7055 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

SediGraph 5100 V2.00

PAGE 1

SAMPLE DIRECTORY/NUMBER: SECOND /354
 SAMPLE ID: Hole 89-50 # 2145
 SUBMITTER: JBK
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 36.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 09:30:14 01/03/90
 REPRT 09:47:47 01/03/90
 TOT RUN TIME 0:17:09
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9937 g/cc
 LIQ VISC: 0.7056 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

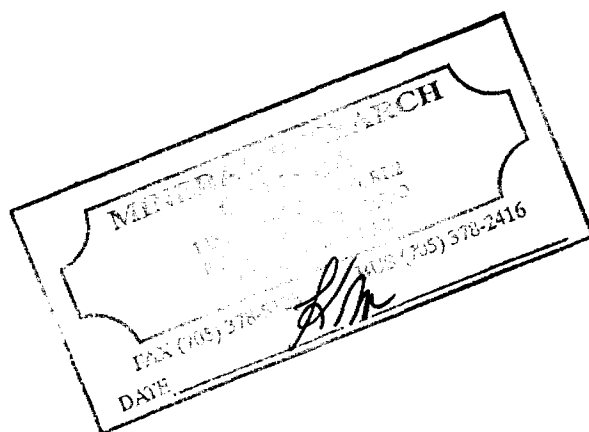
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.72 μ m

MODAL DIAMETER: 0.40 μ m

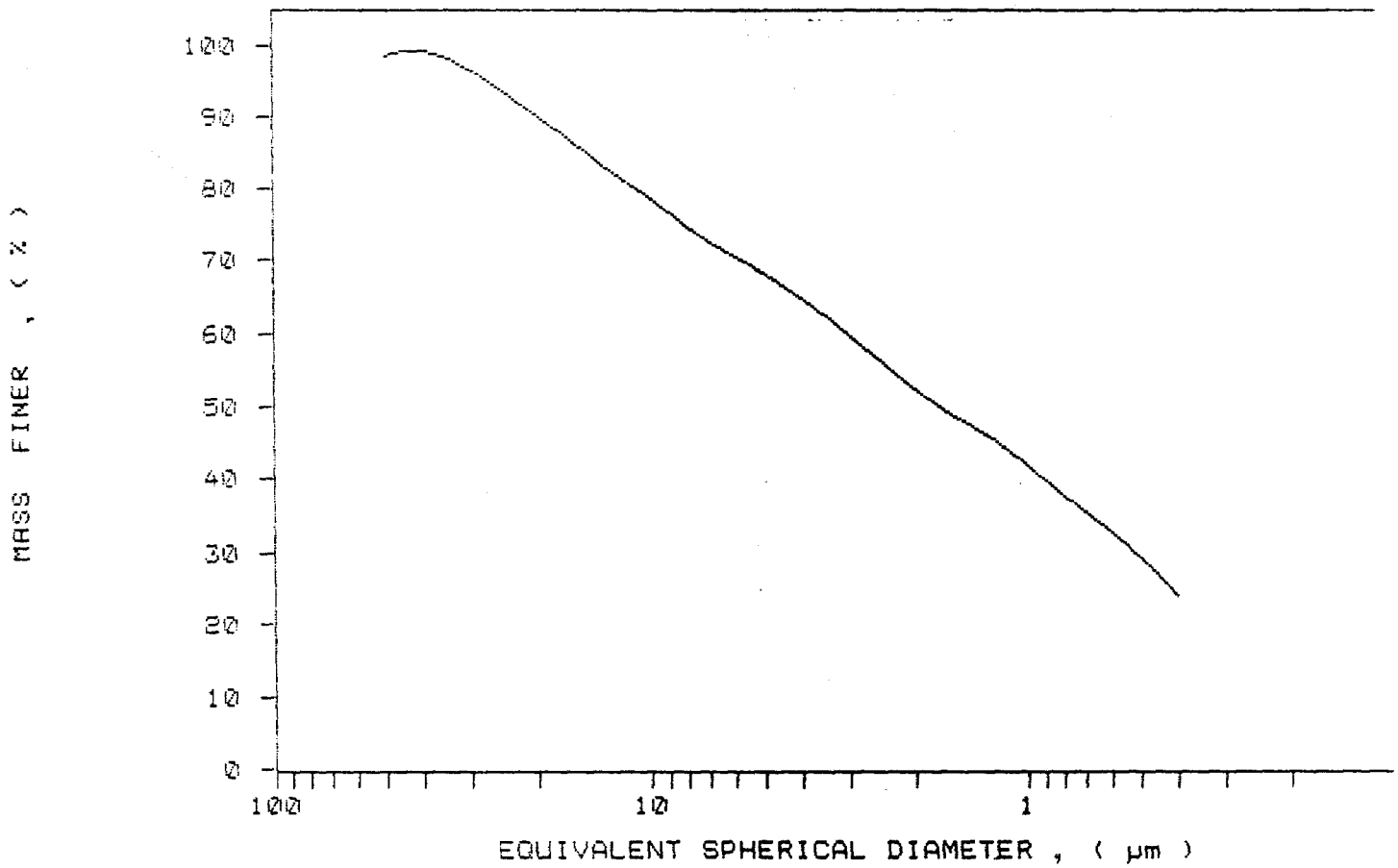
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.5	1.5
40.00	99.1	-0.6
30.00	96.6	2.5
25.00	93.9	2.7
20.00	90.2	3.7
15.00	85.2	4.9
10.00	78.7	6.6
8.00	74.8	3.9
6.00	70.6	4.2
5.00	68.2	2.5
4.00	64.8	3.4
3.00	59.9	4.9
2.00	52.5	7.4
1.50	48.0	4.4
1.00	41.8	6.3
0.80	37.6	4.1
0.60	32.7	4.9
0.50	29.1	3.6
0.40	23.8	5.3



SAMPLE DIRECTORY/NUMBER: SECOND /354
SAMPLE ID: Hole 89-50 # 2145
SUBMITTER: JBK
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: water
ANALYSIS TEMP: 36.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 09:30:14 01/03/
REPRT 09:47:47 01/03/
TOT RUN TIME 0:17:
SAM DENS: 2.6500 g/
LIQ DENS: 0.9937 g/
LIQ VISC: 0.7056 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /355
 SAMPLE ID: Hole 89-50 # 2146
 SUBMITTER: JBK
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 36.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:01:57 01/03/90
 REPT 10:19:28 01/03/90
 TOT RUN TIME 0:17:06
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9937 g/cc
 LIQ VISC: 0.7056 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

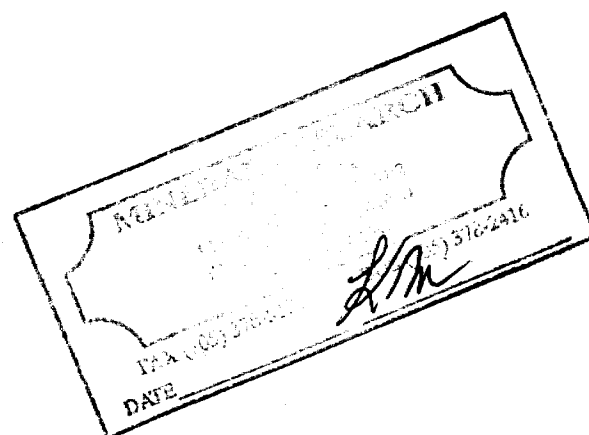
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.81 μ m

MODAL DIAMETER: 4.02 μ m

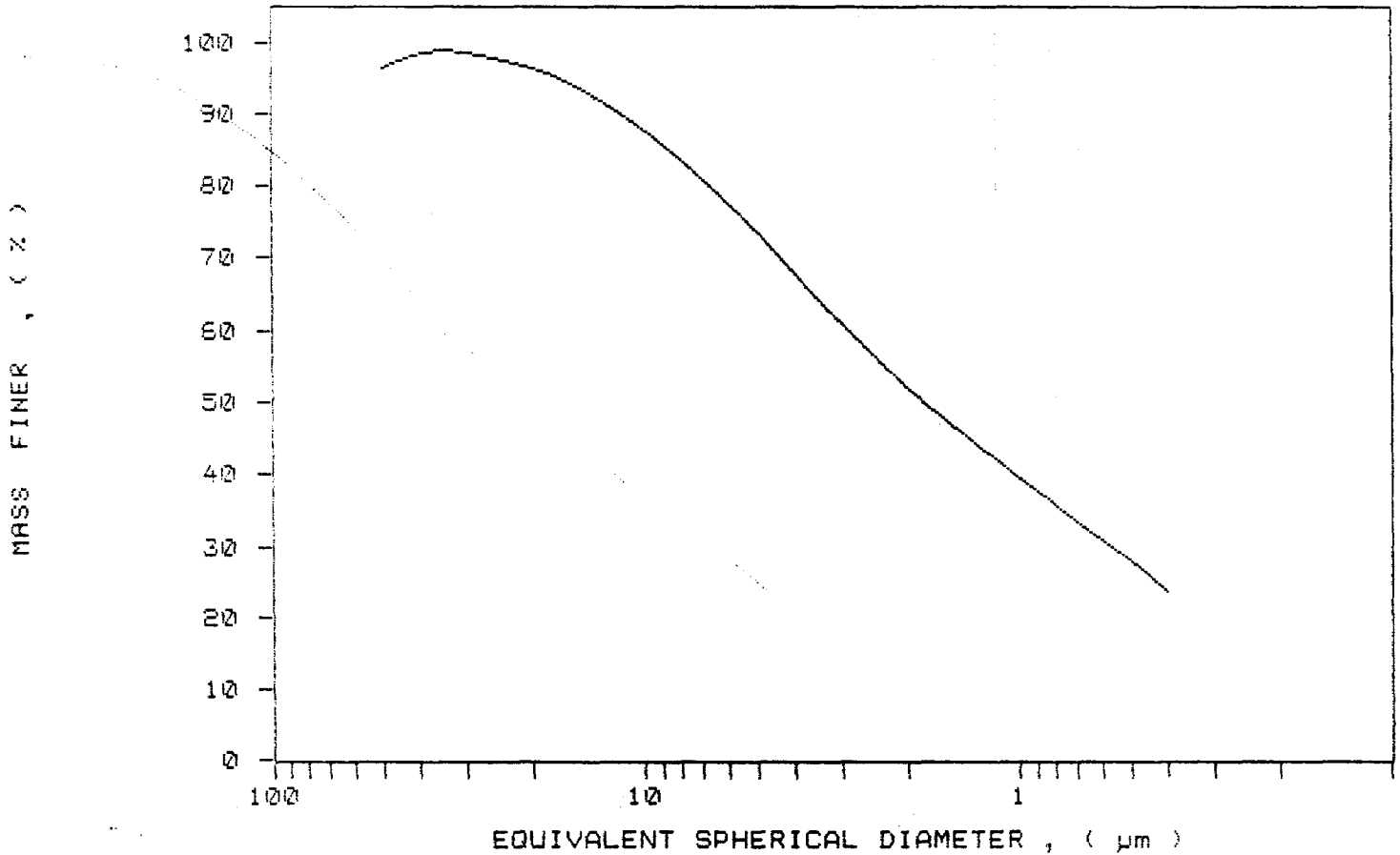
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	96.4	3.6
40.00	98.3	-1.9
30.00	98.5	-0.2
25.00	97.7	0.8
20.00	96.4	1.3
15.00	93.7	2.7
10.00	87.7	6.0
8.00	83.5	4.1
6.00	77.6	5.9
5.00	73.5	4.1
4.00	67.9	5.6
3.00	61.0	6.9
2.00	52.0	8.9
1.50	46.7	5.4
1.00	39.4	7.2
0.80	35.7	3.7
0.60	30.8	4.9
0.50	27.8	3.0
0.40	23.5	4.3



SAMPLE DIRECTORY/NUMBER: SECOND /855
SAMPLE ID: Hole 89-50 # 2146
SUBMITTER: JBR
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 36.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 10:01:57 01/03/90
REPRT 10:19:28 01/03/90
TOT RUN TIME 0:17:06
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9937 g/cc
LIQ VISC: 0.7056 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /356
 SAMPLE ID: Hole 89-50 # 2147
 SUBMITTER: JBK
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 36.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:32:11 01/03/90
 REPRT 10:49:47 01/03/90
 TOT RUN TIME 0:17:12
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9937 g/cc
 LIQ VISC: 0.7056 cp

STARTING DIAMETER: 50.00 μm
 ENDING DIAMETER: 0.40 μm

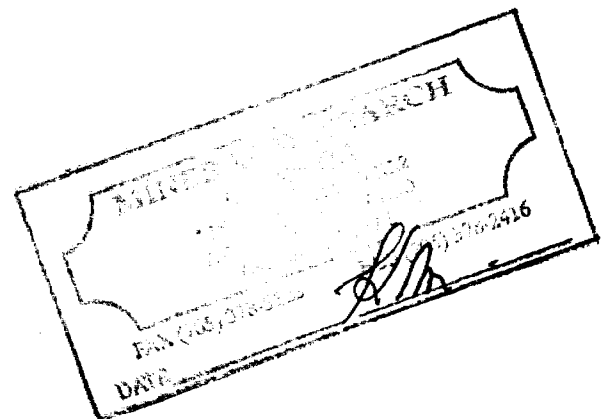
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 3.01 μm

MODAL DIAMETER: 3.58 μm

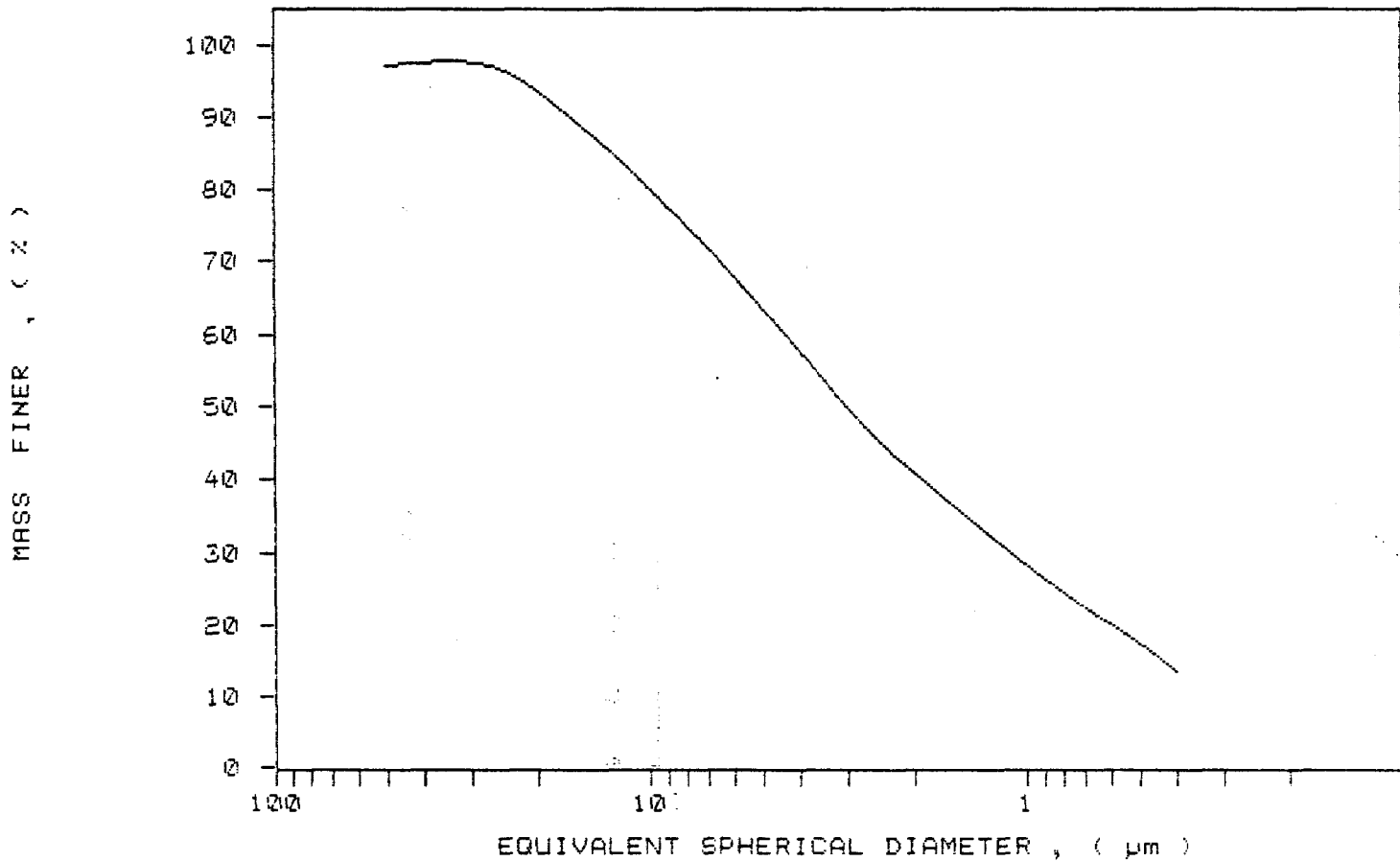
DIAMETER (μm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	97.0	3.0
40.00	97.5	-0.5
30.00	97.5	-0.0
25.00	96.6	0.9
20.00	93.7	2.9
15.00	88.5	5.2
10.00	80.2	8.4
8.00	75.0	5.2
6.00	68.1	6.9
5.00	63.4	4.7
4.00	57.6	5.8
3.00	49.9	7.8
2.00	41.0	8.9
1.50	35.7	5.3
1.00	28.1	7.6
0.80	24.5	3.7
0.60	20.1	4.4
0.50	17.3	2.8
0.40	13.5	3.8



SAMPLE DIRECTORY/NUMBER: SECOND /356
SAMPLE ID: Hole 89-50 # 2147
SUBMITTER: JBK
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 36.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 10:32:11 01/03/90
REPR 10:49:47 01/03/90
TOT RUN TIME 0:17:12
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9937 g/cc
LIQ VISC: 0.7056 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



ROTARY DRILL HOLE RECORD

Drilling Started: November 25, 1988
Drilling Finished: November 26, 1988
Length: 240.0'
Overburden Depth: 77.5'
Core: 3.5"
Claim No.: Patented, T21584
Dip Collar: -90
Northing: 980 N
Easting: 390 W
Hole Number: D88-9

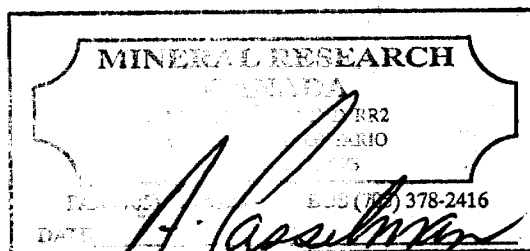
Logged: A. Casselman
Logged: April 7, 1989
Drilling Co.: Midwest
Core Storage:
Mineral Research Canada
R. R. # 2
Parry Sound, ON
P2A 2W8
Property: Douglas/Kiping

SUMMARY

From To Description

0.0' 77.5' Glacial Clay Till Pleistocene - Overburden
77.5' 79.75' Kaolin Silica Sand (kss)
79.75' 80.0' Glacial Sand
80.0' 99.0' Kss
99.0' 107.0' Sandy Clay
107.0' 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'



Detail Log D88-9

FROM	TO	SAMPLE No.	DESCRIPTION
0.0'	75.0'		Overburden
75.0	77.5		Glacial Clay Till - dark brown, competent, rare 1" clast of gniessic material or carbonate.
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", 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", 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	Sandy Clay - light grey, fine grain, minor illite and heavies. 14.71% kaolin.
103.0	107.0	3558	Sandy Clay - 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.
111.0	115.0	3560	Kss - as above. 9.87% kaolin.
115.0	119.0	3561	Kss - as above, minor illite and heavies. 9.29% kaolin.
119.0	123.0	3562	Kss - as above. 7.47% kaolin.
123.0	127.0		Kss - coarse grain, fining downsection to medium grain, white, grading to light brown.

vari-coloured silicas, slightly larger than the matrix silica.

127.0 131.0 Kss - low clay content, medium grain, light grey, minor heavies and illite, moist.

131.0 136.0 Kss - coarse grain 131.0 -132.0 ' in a clay matrix, white; 132.0 - 136.0 ' in a medium grain matrix, light brown.

136.0 140.0 Kss - medium grain, rare coarser clasts at upper contact, light grey, minor heavies and illite, slightly moist.

140.0 144.0 Kss - medium grain, white, dried.

144.0 149.0 Kss - fine grain, fining downsection, white, dried.

149.0 154.0 Kss - coarse grain fining downsection to medium grain, light grey, dried.

154.0 159.0 Kss - medium grain, light blue/grey to medium, high amount of heavies and illite, moist.

159.0 164.5 Clay & Kss - interbedded, competent and pliable chocolate brown clay with lighter sections, interbedded with light brown kss, medium grain.

164.5 170.0 Clay - grading to Sandy Clay (last 1") competent, disc-like, greasy, chocolate brown grading to very light brown sandy clay, minor illite in sandy clay.

170.0 175.0 Kss - clay-rich, becoming less so downsection, fine grain, coarsening downsection to medium grain, light grey, minor illite, moist.

175.0 179.0 Kss - medium grain, white, dried.

179.0 183.0 Kss - as at 170.0 - 175.0'.

183.0 187.0 Kss - as above.

187.0 192.0 Kss - medium grain, light brown, minor heavies and illite.

192.0 196.0 Kss - medium grain, white.

196.0 200.0 Kss - coarse grain, fining downsection to medium, white, moist.

200.0 205.0 Kss - medium grain, rare larger clasts, white, moist.

205.0 207.0 Kss - medium grain, medium brown, red at lower contact dried.

207.0 210.0 Clay - competent, disc-like, greasy, light grey to green/yellow to chocolate brown with yellow laminations, sulphureous seams and smell.

210.0 215.0 Clay - competent, disc-like, greasy, medium brown, mottled with yellow/green grading to buff and red mottled, carbonaceous.

215.0 220.0 Clay - disc-like, competent, greasy, red and grey mottled.

220.0 225.0 Clay - competent, fissile, red & grey mottled, dried, former flowage from bag.

225.0 230.0 Clay - competent, as above, dark red/brown mottled with red, medium grey and black mottled, silica external contamination due to drilling action, highly disrupted.

230.0 235.0 Clay - competent, disc-like, greasy, chocolate brown to very dark grading to medium brown, carbonaceous, exterior red coating.

235.0 240.0 Clay - competent, disc-like, greasy, yellow & grey mottled grading to dark yellow.

EOH - 240'

Section D88-9

Dip Collar: -90

Northing: 980 N

Easting: 390 W

Scale: 1.0" = 50.0'

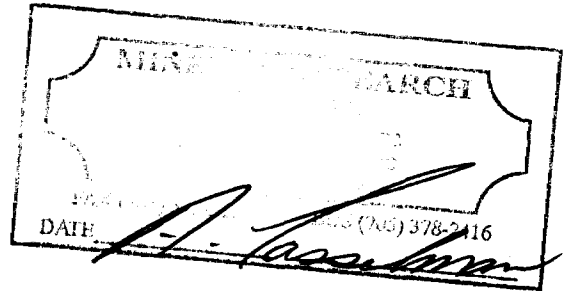
Length: 240.0'

Overburden Depth: 77.5'

Claim No.: Patented, T21584

1200 W

1200 W



D88-9

Silty Clay

Sand/Pebbly Sand

KSS

Clay(choc brn)
Clay(lf brn-gry)

KSS

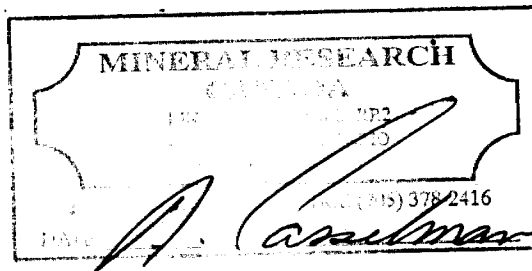
Clay(brn-gry)
Clay(red/red-brn,gry)
Clay(choc brn)
Clay(lf gry)
Clay(grn, gry)



65' SOUTH

1400 W

1200 W



D88-9

Silty Clay

Sand/Pebbly Sand

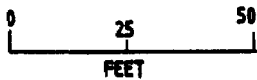
KSS

9.62%

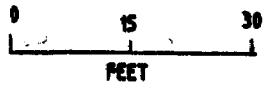
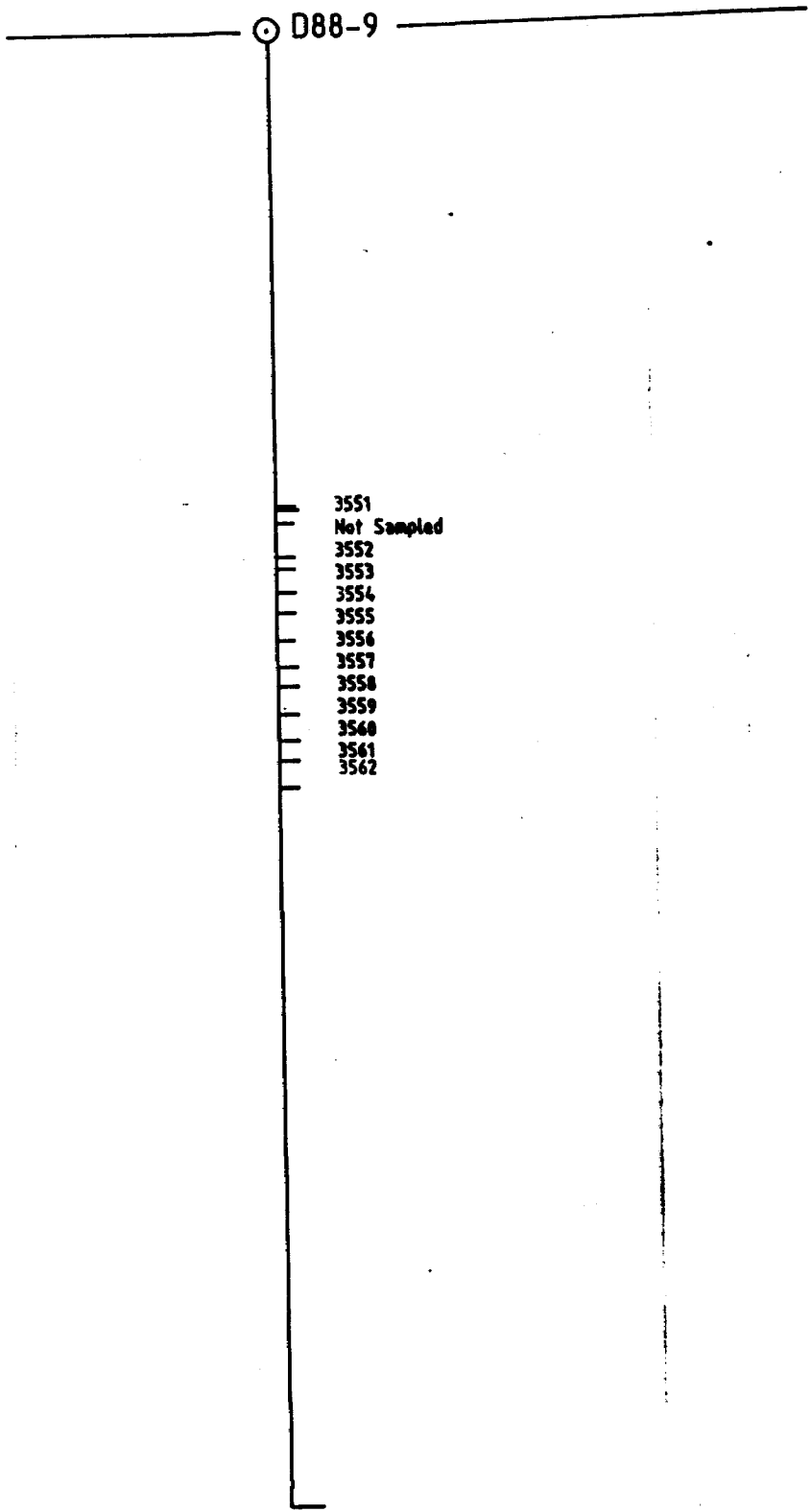
Clay(choc brn)
Clay(lt brn-gry)

KSS

Clay(brn-gry)
Clay(red/red-brn,gry)
Clay(choc brn)
Clay(lt gry)
Clay(grn, gry)



65' SOUTH



MINERAL RESEARCH CANADA

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

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
D-88-9 3551	+ 4	0.4	6.7	
	+ 40	66.4		
	+100	23.8		
	+200	1.6		
	+325	0.8		
	-325	7.0		
3552	+ 4	0.6	5.9	
	+ 40	69.6		
	+100	18.1		
	+200	1.5		
	+325	0.9		
	-325	9.3		
3553	+ 4	0.5	9.3	
	+ 40	61.8		
	+100	21.8		
	+200	2.2		
	+325	1.3		
	-325	12.4		
3554	+ 4	0.8	11.0	
	+ 40	49.3		
	+100	38.8		
	+200	1.2		
	+325	0.7		
	-325	9.2		
3555	+ 4	1.6	14.1	
	+ 40	42.5		
	+100	15.3		
	+200	3.8		
	+325	5.0		
	-325	31.8		

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

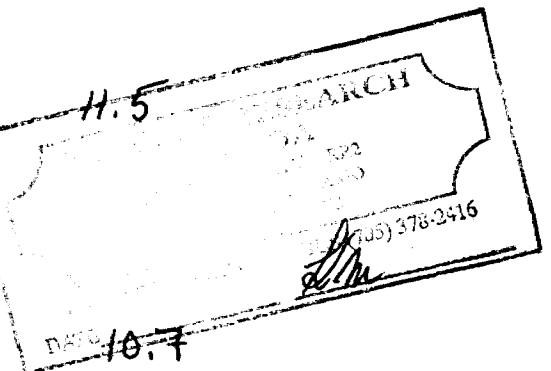
MINERAL RESEARCH CANADA

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

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
D 88-9 3556	+ 4	0.2	8.8	
	+ 40	64.7		
	+100	25.7		
	+200	1.2		
	+325	0.8		
	-325	7.4		
3557	+ 4	0.2	12.1	
	+ 40	1.4		
	+100	68.1		
	+200	6.1		
	+325	4.8		
	-325	25.6		
3558	+ 4	0.2	16.2	
	+ 40	4.2		
	+100	57.1		
	+200	8.9		
	+325	4.1		
	-325	25.7		
3559	+ 4	0.2	11.5	
	+ 40	51.3		
	+100	37.1		
	+200	2.1		
	+325	0.8		
	-325	8.7		
3560	+ 4	0.2	10.7	
	+ 40	48.9		
	+100	34.1		
	+200	4.2		
	+325	0.9		
	-325	11.9		



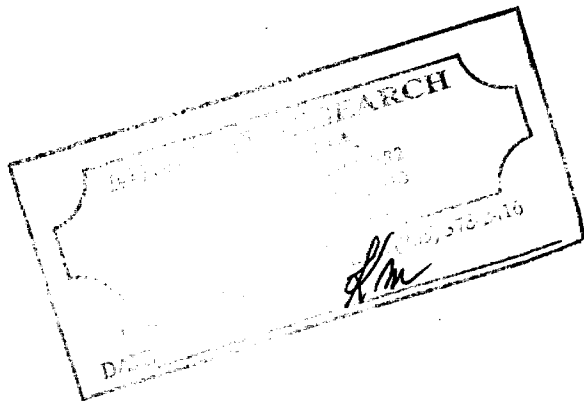
MINERAL RESEARCH CANADA

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

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
D 88-9 3561	+ 4	2	9.1	
	+ 40	47.7		
	+100	38.5		
	+200	2.5		
	+325	1.0		
	-325	10.3		
3562	+ 4	0.2	8.0	
	+ 40	43.3		
	+100	40.2		
	+200	3.6		
	+325	1.8		
	-325	10.9		
	+ 4			
	+ 40			
	+100			
	+200			
	+325			
	-325			
	+ 4			
	+ 40			
	+100			
	+200			
	+325			
	-325			



SAMPLE DIRECTOR NUMBER: DATA 7097
 SAMPLE ID: none B 2010 W 2001
 SUBMITTER: James van der
 DE LAER: Dr. Kaarina
 SAMPLE TYPE: clay
 LIQUID TYPE: water
 ANALYSIS: LID: 2010 deg 1 RUN TYPE: Standard

UNIT NUMBER: 1
 START 11:19:24 11/07/89
 REPR: 08:28:35 09/20/91
 TOT RUN TIME 0:15:59
 SAM DENS: 2.0500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7205 cP

STARTING DIAMETER: 50.00 um
 ENDING DIAMETER: 0.140 um

REYNOLDS NUMBER: 0.122
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAW DIAMETER: 1.00 um MODAL DIAMETER: 1.26 um

DIAMETER (um)	CUMULATIVE MASS FINE (%)	MASS IN INTERVAL (%)
50.000	1.00	1.00
40.000	1.11	1.11
30.000	1.20	0.92
25.000	1.25	1.44
20.000	1.29	3.13
15.000	1.32	3.13
10.000	1.34	3.13
8.000	1.35	4.44
6.000	1.36	6.67
5.000	1.37	1.11
4.000	1.37	3.14
3.000	1.37	7.16
2.000	1.37	6.15
1.500	1.37	7.16
1.000	1.37	12.17
0.500	1.37	4.15
0.200	1.37	1.17
0.150	1.37	2.14
0.140	1.37	1.17



SAMPLE DIRECTORY/NUMBER: DATA 7097

UNIT NUMBER: 1

SAMPLE ID: 1010 1000 1000 1000

START 11:19:24 11/07/85

SUBMITTER: James Bay Co.

REPT 08:23:36 09/20/91

ORIGINATOR: Keesing

TOT RUN TIME 0:16:55

SAMPLE TYPE: Clay

SAM DENS: 2.6300 g/cc

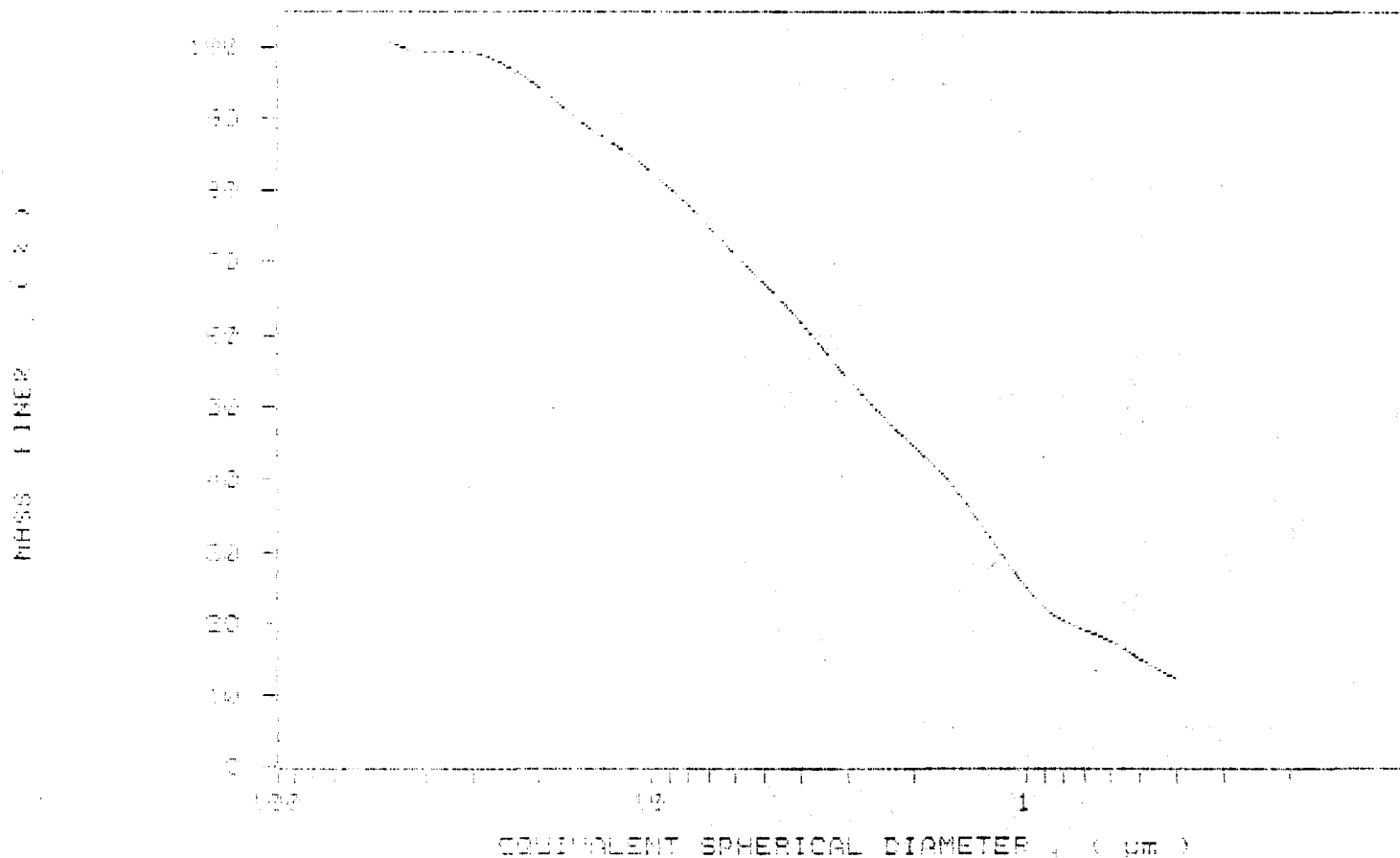
LIQUID TYPE: water

LIO DENS: 0.9991 g/cc

ANALYSIS Temp: 25.1 deg C RUN TYPE: Standard

LIO VISC: 0.7205 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



General: size 1000

SAMPLE ID: 11/07/89
 SAMPLE ID: 11/07/89
 SUBST: 11/07/89
 OPERATOR: 11/07/89
 SAMPLE ID: 11/07/89
 LIQUID TYPE: water
 STRAIN RATE: 10.1 day 1 RUN TIME: Standard

UNIT NUMBER: 1
 START: 11:54:54 11/07/89
 REPORT: 08:25:00 08/20/91
 TOT RUN TIME: 0:10:07
 SAN BENS: 0.0000 g/cc
 LIO BENS: 0.0041 g/cc
 LIO VISC: 0.7200 cp

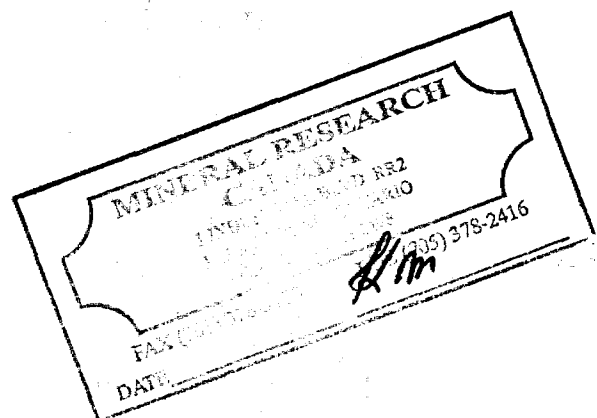
STARTING DIAMETER: 0.100 mm
 ENDING DIAMETER: 0.100 mm

REYNOLDS NUMBER: 0.122
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

NUMBER OF PARTICLES: 1000000 TOTAL DIAMETER: 0.147 mm

DIAMETER (mm)	CUMULATIVE PERCENT	MASS PER INTERVAL (%)
0.000	0.00	0.00
0.005	0.00	0.00
0.010	0.00	0.00
0.015	0.00	0.00
0.020	0.00	0.00
0.025	0.00	0.00
0.030	0.00	0.00
0.035	0.00	0.00
0.040	0.00	0.00
0.045	0.00	0.00
0.050	0.00	0.00
0.055	0.00	0.00
0.060	0.00	0.00
0.065	0.00	0.00
0.070	0.00	0.00
0.075	0.00	0.00
0.080	0.00	0.00
0.085	0.00	0.00
0.090	0.00	0.00
0.095	0.00	0.00
0.100	0.00	0.00

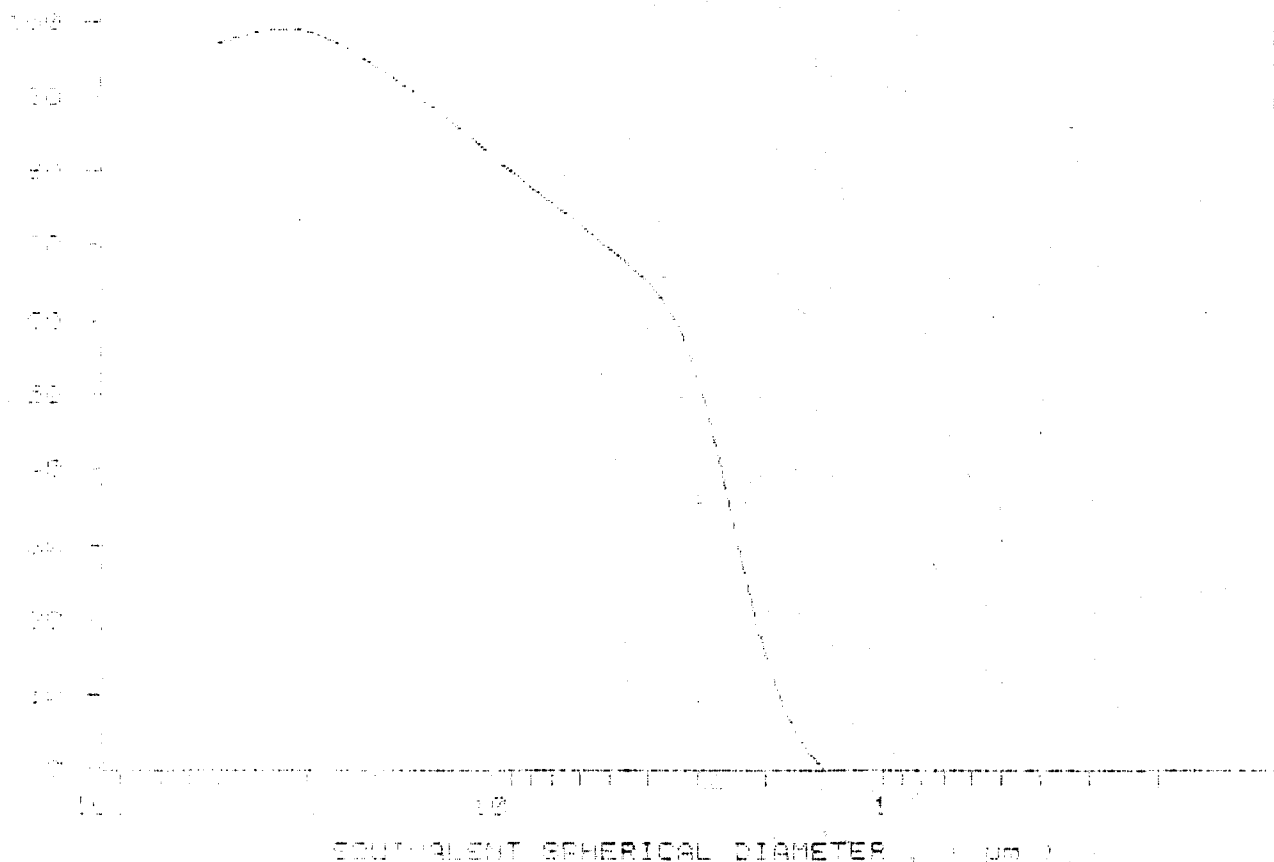


SAMPLE NO: 100-100-100 Date: 11/07/85
 ANALYST: J. J. ...
 LAB: ...
 RUN TYPE: Standard

UNIT NUMBER: 1
 START: 11:54:04 11/07/85
 REPORT: 00:28:05 05/20/86
 TOT RUN TIME: 04:16:27
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9991 g/cc
 LIQ VISC: 0.7205 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER

GROSS FINER (%)



EQUIVALENT SPHERICAL DIAMETER (μm)

Sample No. 100-1200
 Date: 11/07/89
 Operator: James
 Method: Standard
 Analysis Type: Standard

UNIT NUMBER: 1
 START 10:06:23 11/07/89
 REPRY 08:02:32 09/20/91
 TOT RUN TIME 01:07:50
 SAM DENS: 2.6500 g/cc
 LIO DENS: 0.9991 g/cm
 LIO VISC: 0.7207 cp

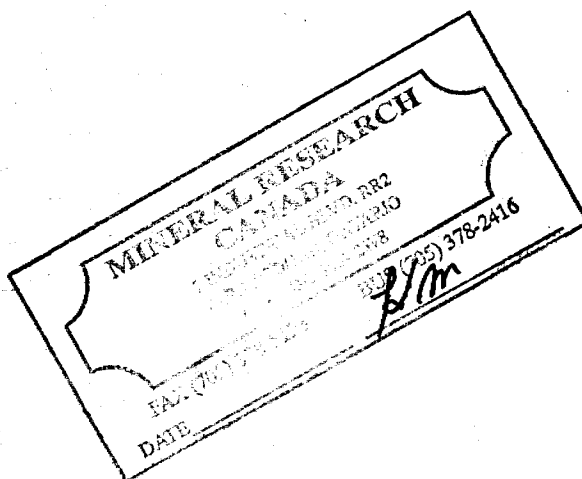
Blowing Time: 0.100 sec
 Entrainment: 0.140 sec

REYNOLDS NUMBER: 6.51
 FULL SCALE MASS %: 100

PAWF DISTRIBUTION

Blowing Time: 0.100 sec NODAL DIAMETER: 2.02 um

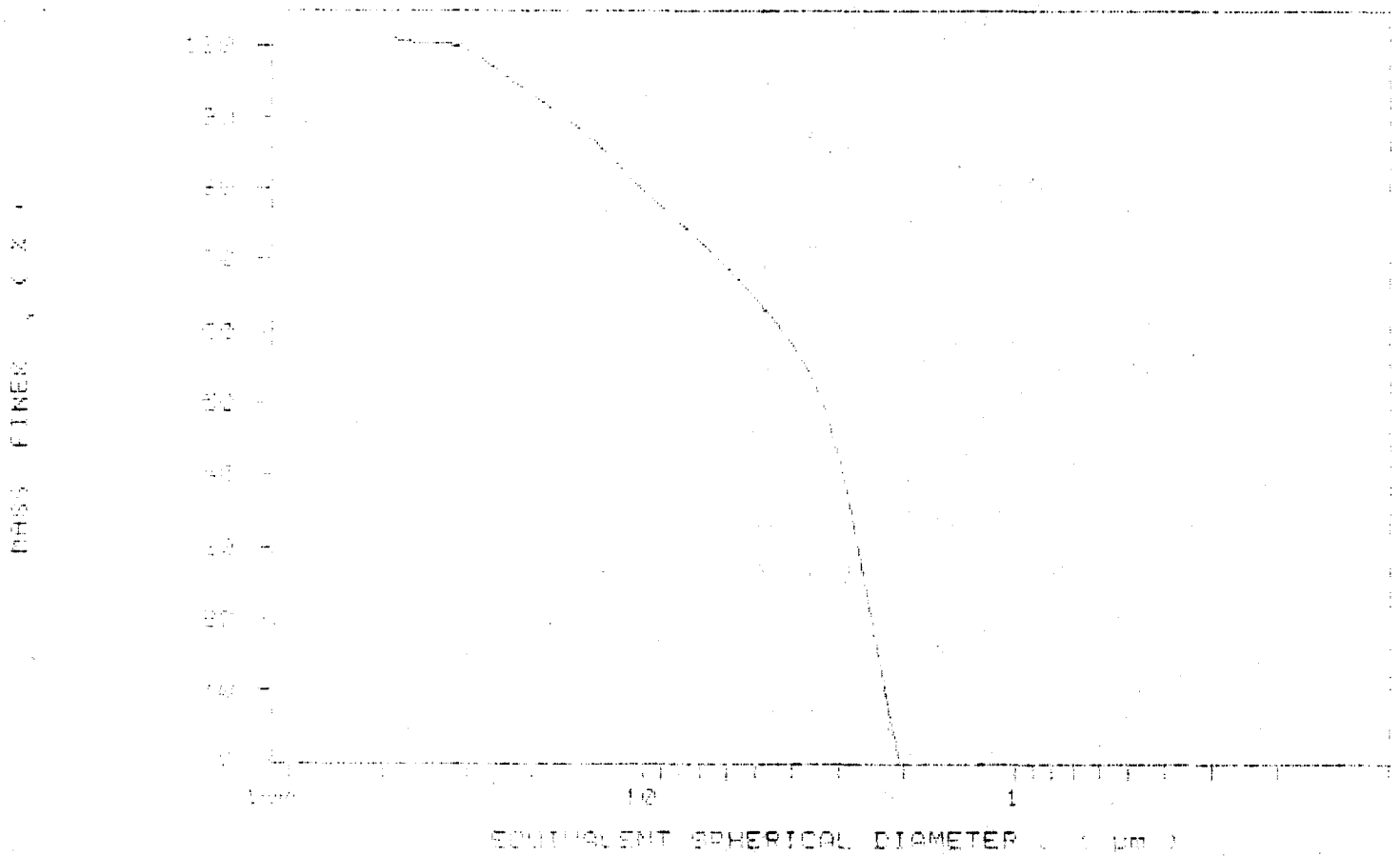
STANDARD No.	Weight %	Particle Size um	Weight %
10.00	10.00	1.0	1.2
20.00	20.00	1.1	1.1
30.00	30.00	1.2	1.0
40.00	40.00	1.3	0.9
50.00	50.00	1.4	0.8
60.00	60.00	1.5	0.7
70.00	70.00	1.6	0.6
80.00	80.00	1.7	0.5
90.00	90.00	1.8	0.4
100.00	100.00	1.9	0.3
110.00	110.00	2.0	0.2
120.00	120.00	2.1	0.1
130.00	130.00	2.2	0.1
140.00	140.00	2.3	0.1
150.00	150.00	2.4	0.1
160.00	160.00	2.5	0.1
170.00	170.00	2.6	0.1
180.00	180.00	2.7	0.1
190.00	190.00	2.8	0.1
200.00	200.00	2.9	0.1



Sample Description:
 Sample ID:
 Substrate:
 Operator:
 Date:
 Fluid:
 Material:
 Test Type: Standard

UNIT NUMBER: 1
 START TIME: 11/07/89
 RUN TIME: 09/06/89
 TEST RUN TIME: 01/07/89
 SOL DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7267 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE NUMBER: 210000 710
 SAMPLE ID: note 2 23-3 # 2554
 SUBMITTER: James Bay Co.
 OPERATOR: Learning
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 25.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 11:57:11 11/08/89
 REPRT 10:08:42 09/20/91
 TOT RUN TIME 0:17:10
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9991 g/cc
 LIQ VISC: 0.7205 cp

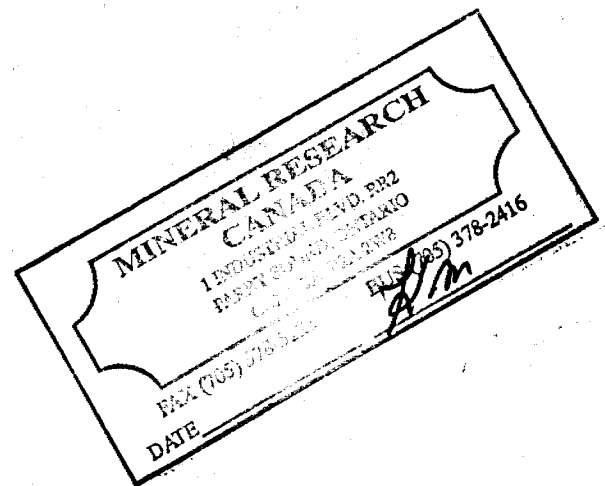
STARTING DIAMETER: 50.00 um
 ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 0.71
 FULL SCALE MASS %: 100

PSDL DISTRIBUTION

MEDIAN DIAMETER: 1.50 um RODIAL DIAMETER: 0.51 um

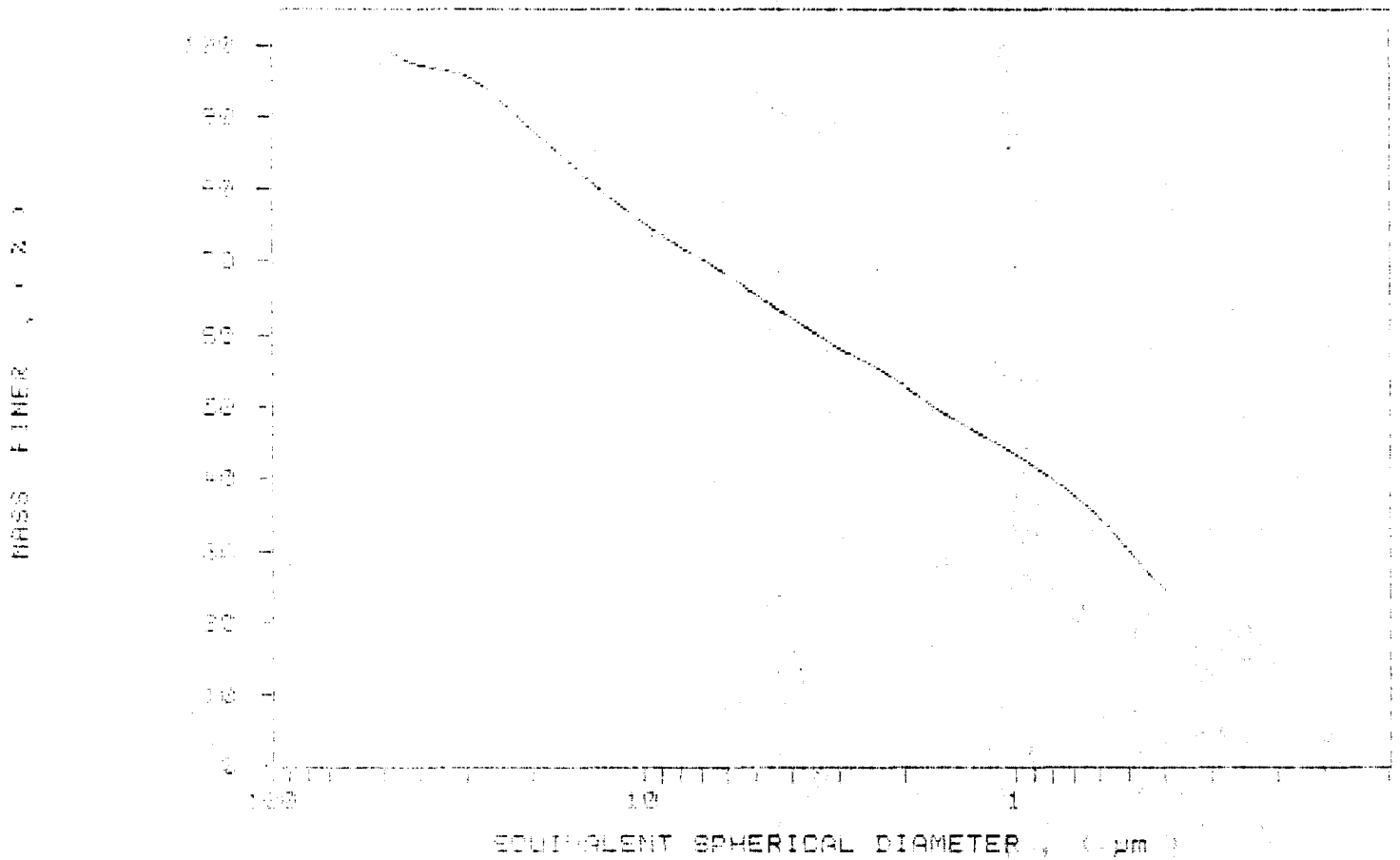
DIAMETER (um)	CUMULATIVE MASS FINE (%)	MASS IN INTERVAL (%)
50.00	50.0	0.0
40.00	37.1	2.4
30.00	25.0	1.0
20.00	12.5	0.6
15.00	6.25	0.6
10.00	3.12	0.6
7.50	1.56	0.6
5.00	0.78	0.6
3.75	0.39	0.7
2.50	0.19	0.8
1.87	0.09	0.8
1.25	0.05	0.9
0.75	0.02	0.9
0.50	0.01	0.9
0.37	0.00	0.9
0.25	0.00	0.9
0.18	0.00	0.9
0.12	0.00	0.9
0.07	0.00	0.9
0.05	0.00	0.9
0.03	0.00	0.9



SAMPLE DIRECTORIAL NUMBER: SECOND 719
SAMPLE ID: HOLE # 60-9 x 125A
SUBMITTER: James Day Co.
OPERATOR: Kearns
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TYPE: Soil deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 11:57:11 11/08/69
REPR: 10:03:42 09/20/69
TOT RUN TIME 0:17:12
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9941 g/cc
LIQ VISC: 0.7205 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIALO (Dry/round): SeCond 711
 SAMPLE lot note B 22-3 4 2105
 COUNTY: James Bay Co.
 LOCATION: Leathia
 SAMPLE TYPE: Clay
 LIQUID: Water
 ANALYSIS REPORT: 2011 Dec 0 RUN TYPE: Standard

UNIT NUMBER: 1
 START 13:05:45 11/08/99
 REPT 10:08:12 09/20/91
 TOT RUN TIME 0:17:00
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9991 g/cc
 LIQ VISC: 0.7206 cp

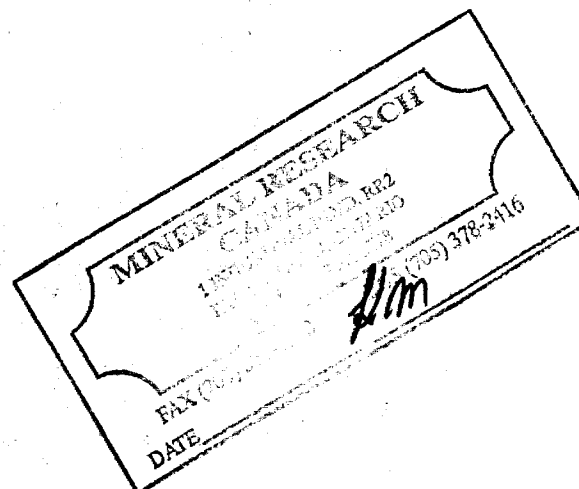
STARTING DIAMETER: 50.00 um
 ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 0.82
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.95 um MODAL DIAMETER: 2.57 um

DIAMETER (um)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	0.0	0.0
40.00	07.3	7.3
30.00	16.1	8.8
25.00	24.2	8.1
20.00	31.7	7.5
15.00	37.3	5.6
10.00	46.5	9.2
7.00	55.0	8.5
5.00	62.4	7.4
4.00	69.4	7.0
3.00	75.0	5.6
2.00	79.2	4.2
1.50	80.0	0.8
1.00	83.1	3.1
0.75	87.1	4.0
0.50	89.1	2.0
0.40	89.0	0.1

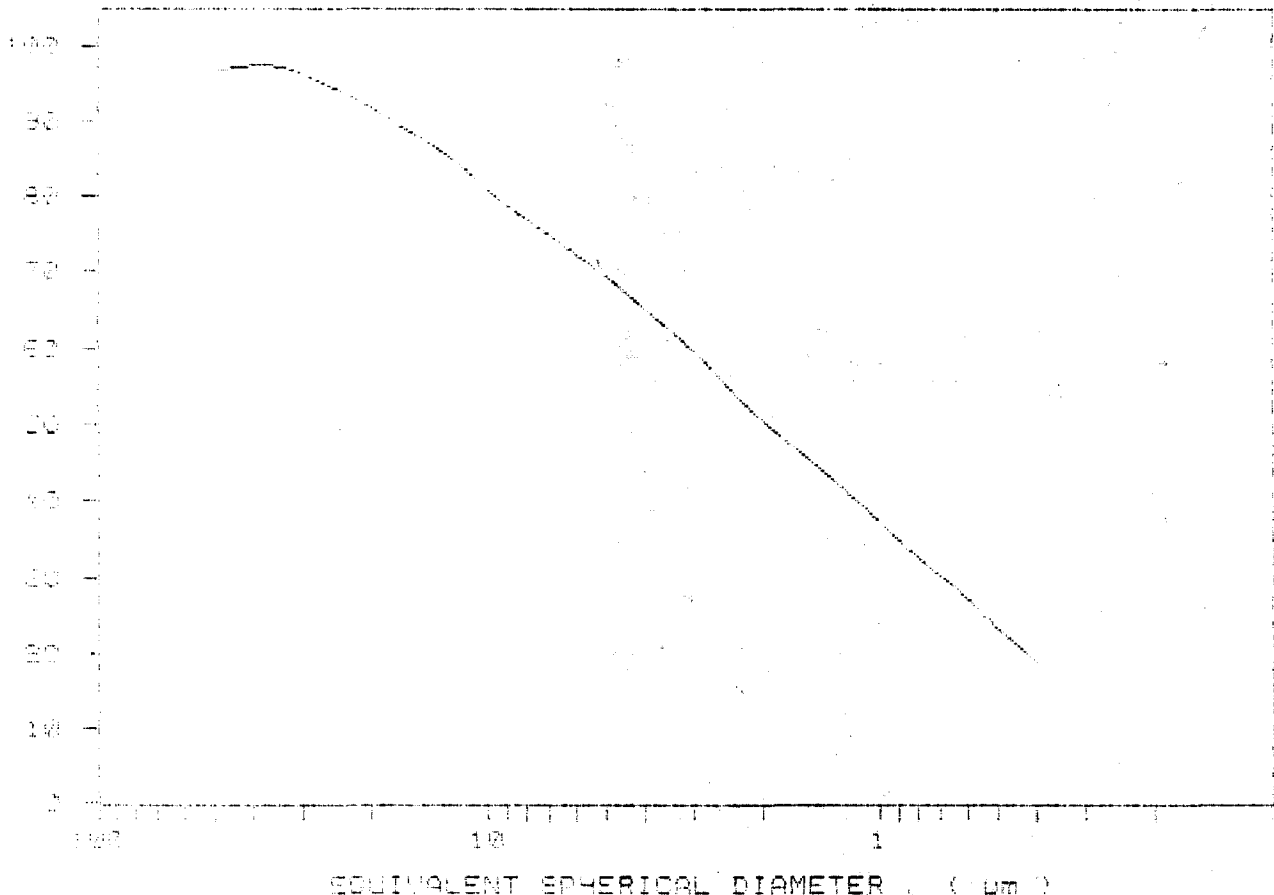


SAMPLE DIRECTOR/NUMBER: SED001 711
 SAMPLE ID: Core D 20-3 # 3555
 SUBMITTER: James Bay Co.
 OPERATOR: Keatinge
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 25.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:05:43 11/08/89
 REPR 10:08:12 09/20/91
 TOT RUN TIME 0:17:00
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7200 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER

MASS FINER (%)



EQUIVALENT SPHERICAL DIAMETER (µm)

SAMPLE IDENTIFICATION NUMBER: 810000 710
 SAMPLE ID: note 6 25ms & 5036
 Supplier: James Bay Co.
 OPERATOR: Keesing
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 55.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 13:35:48 11/08/89
 REPT 11:52:12 03/20/91
 TOT RUN TIME 0:17:11
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9990 g/cc
 LIQ VISC: 0.7204 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

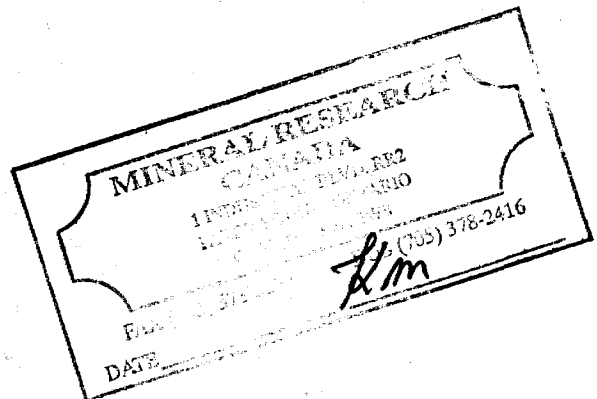
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASE DISTRIBUTION

MEDIAN DIAMETER: 1.67 μ m

MODAL DIAMETER: 0.50 μ m

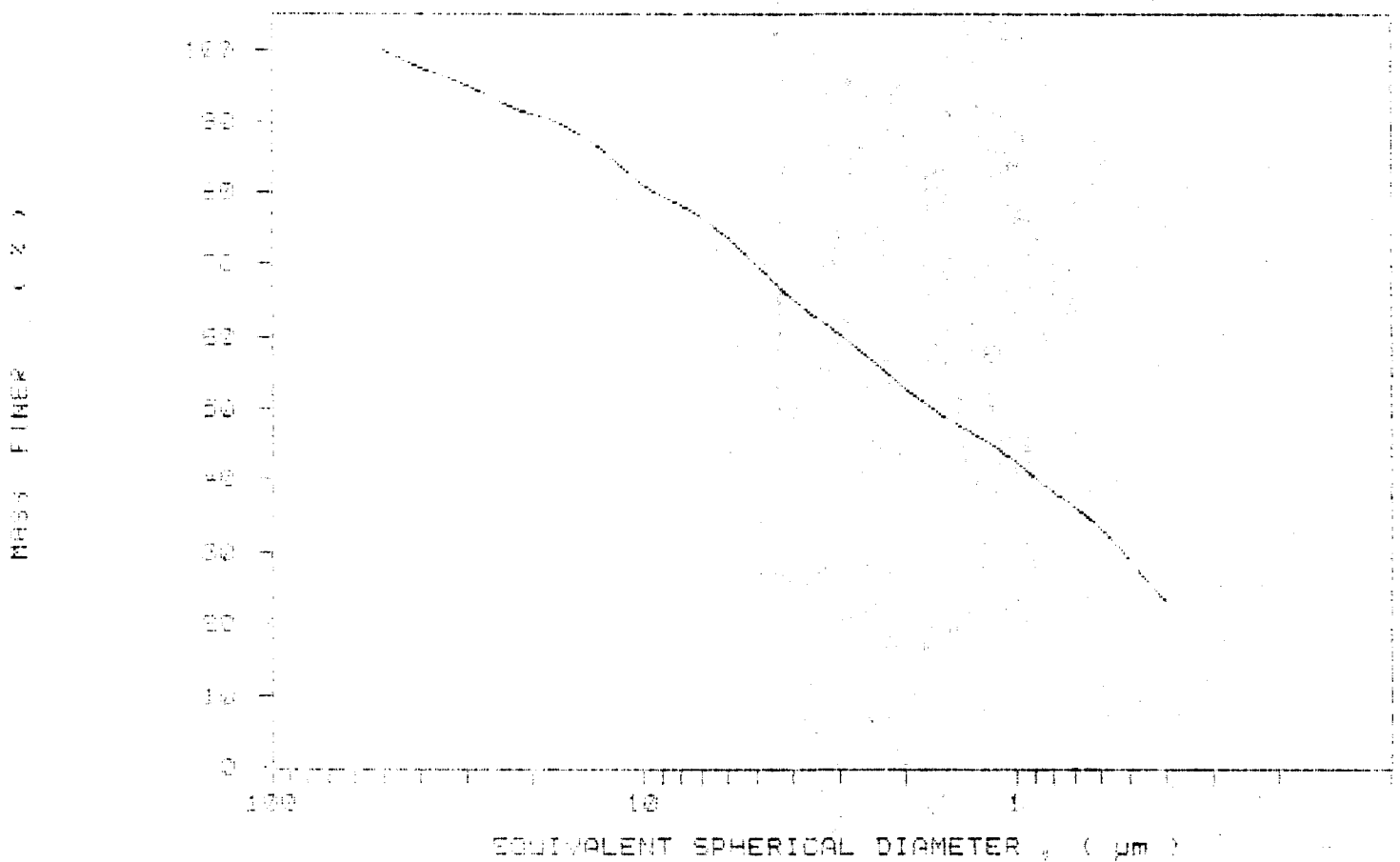
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASE IN INTERVAL (%)
50.00	55.1	0.2
40.00	77.4	2.4
30.00	90.0	2.5
25.00	91.6	1.5
20.00	91.0	2.0
18.00	88.2	2.7
16.00	86.0	2.2
14.00	78.2	2.7
12.00	72.7	2.5
11.00	60.0	2.0
10.00	65.2	4.7
9.00	60.2	4.8
8.00	65.2	7.5
7.00	48.2	4.6
6.00	42.1	6.1
5.00	38.1	4.0
4.00	33.1	3.6
3.00	28.2	4.8
2.00	22.0	3.6



SAMPLE DIRECTOR NUMBER: 00000 710
 SAMPLE NO. 101 1 000 1 1000
 SUBMITTER: James Bay Co.
 OPERATOR: Maolin
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 25.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 13:55:48 11/08/99
 REPT 11:52:12 09/20/01
 TOT RUN TIME 0:17:11
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7204 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTOR: Mchesek. SECOND 717
 SAMPLE ID: none D 8075 # 2207
 SUPPLY CO: James Res. Co.
 OPERATOR: Kacina
 SAMPLE SIZE: 1.5g
 LIQUID TYPE: water
 ANALYSIS TEMP: 20.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 11:19:07 11/09/89
 REPT 12:00:47 03/20/91
 TOT RUN TIME 0:17:15
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.1202 cP

STARTING DIAMETER: 50.00 um
 ENDING DIAMETER: 0.40 um

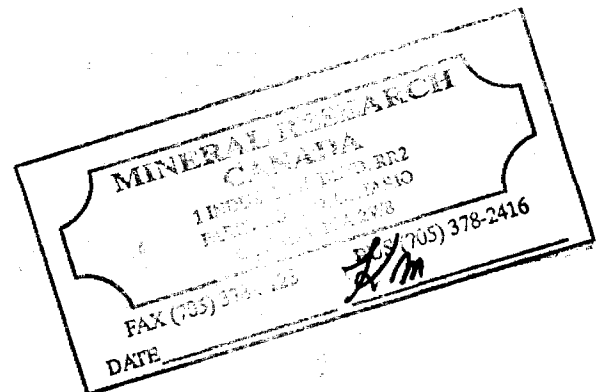
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

RELATIVE DIAMETER: 0.51 um

MODAL DIAMETER: 0.55 um

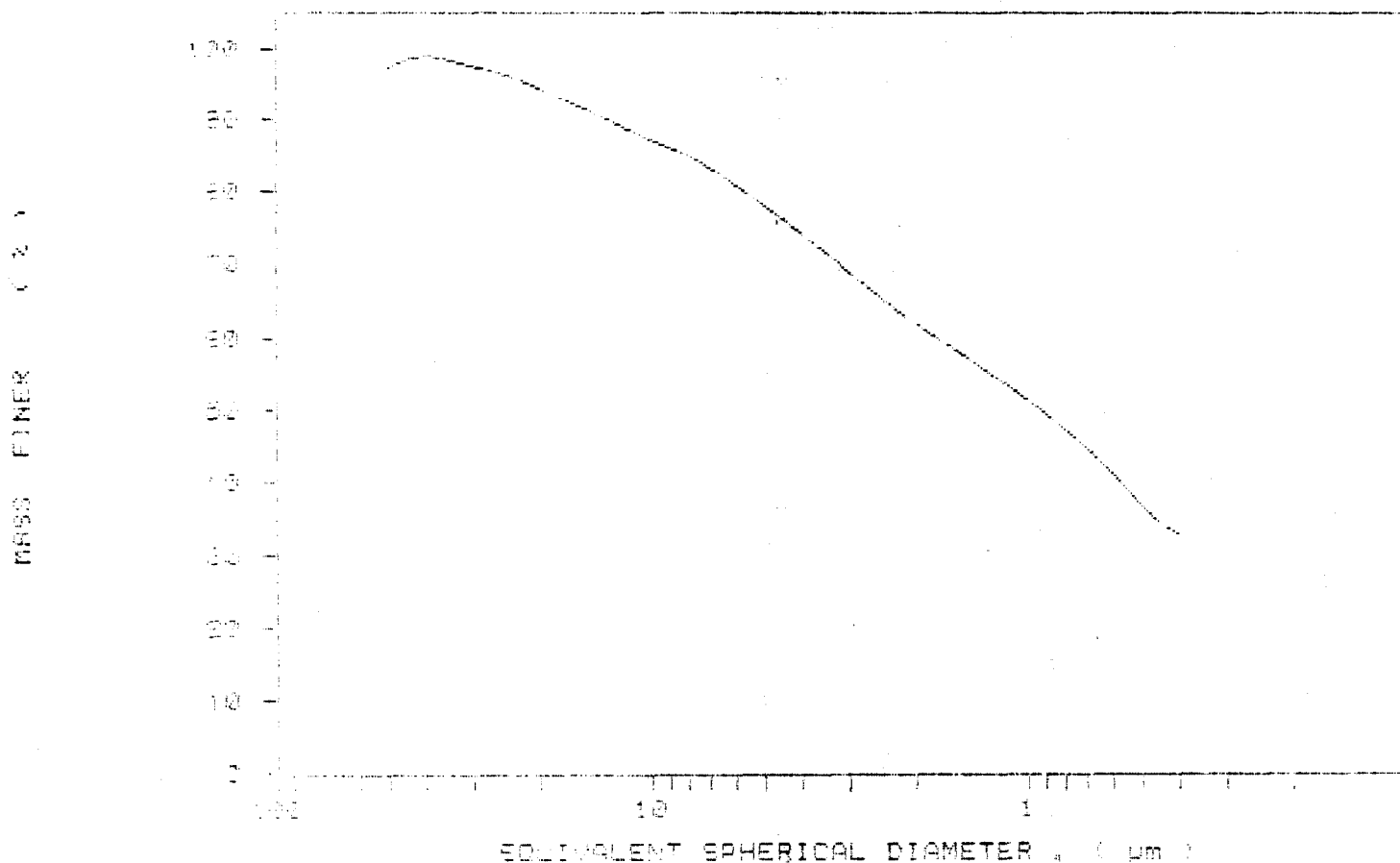
DIAMETER (um)	CUMULATIVE MASS (%)	MASS IN INTERVAL (%)
50.00	0.11	0.3
40.00	0.17	1.6
30.00	0.21	1.4
25.00	0.26	1.1
20.00	0.31	2.0
15.00	0.37	1.3
10.00	0.43	4.3
8.00	0.48	0.2
6.00	0.50	0.3
5.00	0.52	0.0
4.00	0.52	0.7
3.00	0.53	0.5
2.00	0.53	7.0
1.50	0.54	1.2
1.00	0.54	0.4
0.800	0.54	0.0
0.600	0.54	0.2
0.500	0.54	0.0
0.40	0.54	0.0



SAMPLE DESCRIPTION/NUMBER: SECOND 717
 SAMPLE ID: Hole D 20-5 # 2057
 SUBMITTER: James Bay Co.
 OPERATOR: Kearina
 SAMPLE TITLE: clay
 LIQUID TYPE: water
 ANALYSIS TECH: cone seg 0 RUN TYPE: Standard

UNIT NUMBER: 1
 START 11:19:07 11/09/08
 REPT 12:00:47 09/20/09
 TOT RUN TIME 0:17:10
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7202 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE IDENTIFICATION: SEDIMENT
 SAMPLE ID: note D Co-9 # 2500
 SUBMITTER: James B. ...
 OPERATOR: Caroline
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS ITEM: Soil bag U RUN TYPE: Standard

UNIT NUMBER: 1
 START: 11:49:20 11/09/89
 REPR: 12:05:25 09/20/91
 TOT RUN TIME: 0:17:27
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7200 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

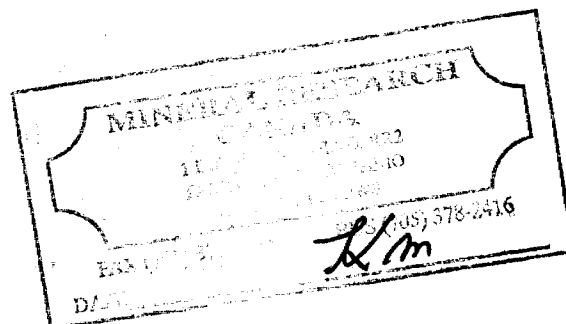
REYNOLDS NUMBER: 0.12
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIA DIAMETER: 1.51 μ m

MODAL DIAMETER: 5.27 μ m

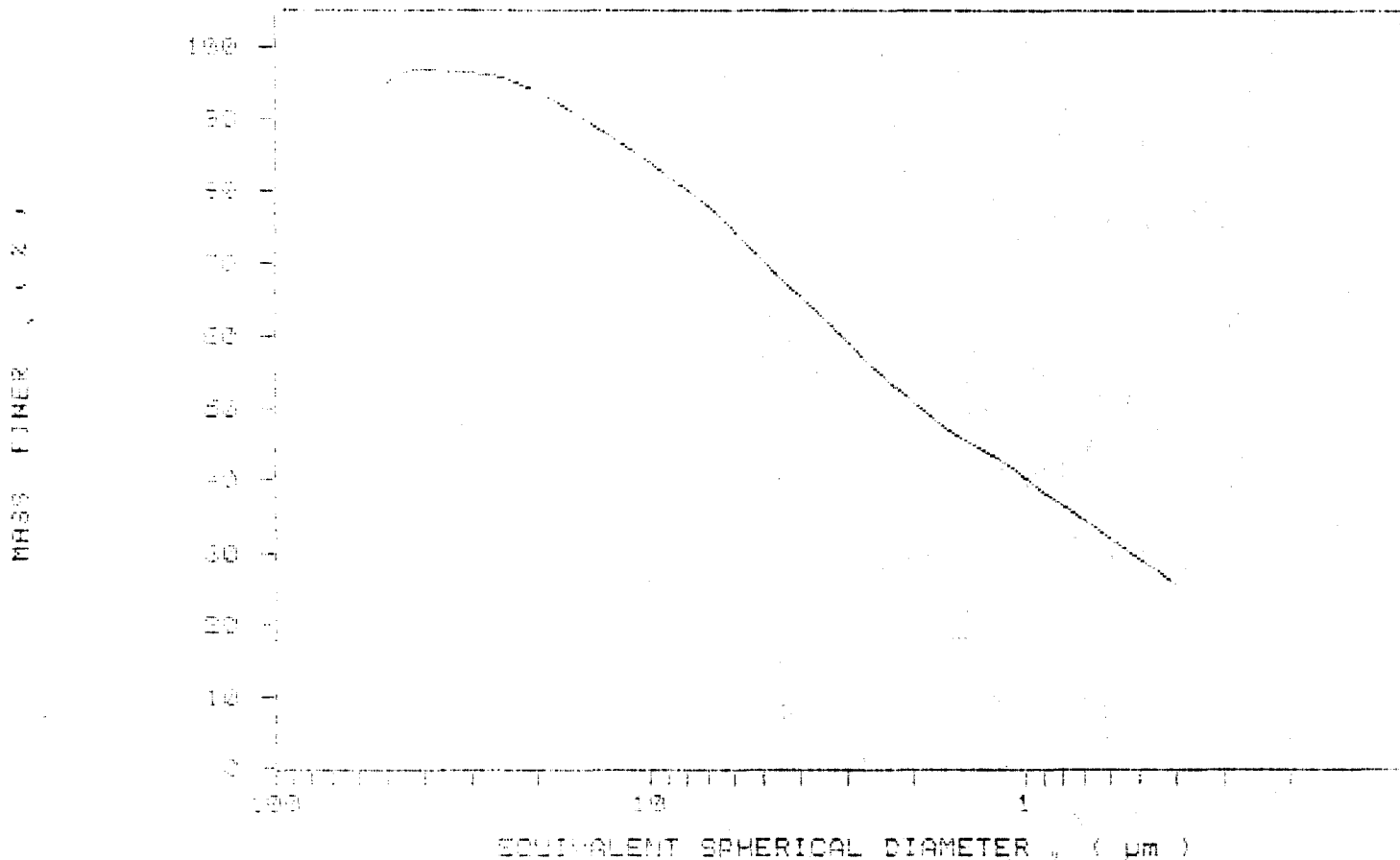
DIAMETER (μ m)	CUMULATIVE PERCENT	MASS IN INTERVAL (%)
50.00	35.0	3.0
40.00	37.7	11.7
30.00	39.0	6.0
25.00	39.7	0.0
20.00	40.0	2.0
15.00	40.7	2.7
10.00	41.0	0.1
5.00	40.0	3.8
2.00	40.7	0.5
1.00	40.4	4.0
0.50	40.0	4.0
0.20	39.0	0.0
1.00	40.0	0.0
2.00	40.0	0.0
1.00	40.0	0.0
1.00	40.0	0.0
0.50	40.0	0.0
0.20	40.0	0.0
0.10	40.0	0.0
0.05	40.0	0.0
0.02	40.0	0.0
0.01	40.0	0.0



SAMPLE DIRECTORY NUMBER: SECOND 718
SAMPLE NO. Hole D 21-0 # 0000
SUBMITTER: James Bay Co.
OPERATION: Kaolin
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS METHOD: 20 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 11:49:20 11/09/89
REPT 12:35:23 09/20/91
TOT RUN TIME 0:17:27
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7800 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTOR NUMBER: SECOND 719
 SAMPLE ID: Hole D 05-9 + 0059
 SUBMITTER: James Mac. Co.
 OPERATOR: Kaolin
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 25.0 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:05:07 11/09/89
 REPR 12:40:00 09/20/91
 TOT RUN TIME 0117:24
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7200 cp

STARTING DIAMETER: 00.00 um
 ENDING DIAMETER: 0.40 um

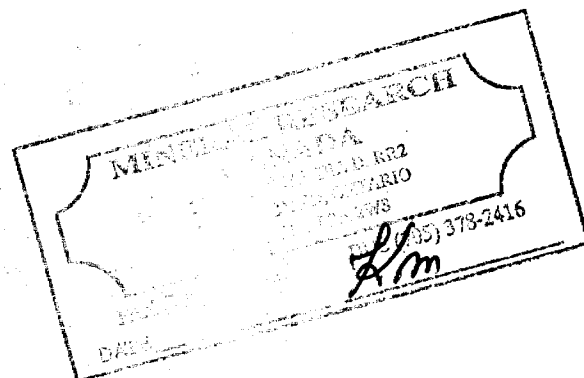
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 3.81 um

MODAL DIAMETER: 0.46 um

DIAMETER (um)	CUMULATIVE MASS FINE (wt %)	MASS IN INTERVAL (wt %)
50.00	99.9	0.1
40.00	99.8	0.1
30.00	97.2	2.6
25.00	89.4	7.8
20.00	78.3	11.1
15.00	61.7	16.6
10.00	31.3	30.4
7.00	17.4	13.9
5.00	7.1	10.3
4.00	2.4	4.7
3.00	0.6	1.8
2.00	0.2	0.4
1.50	0.1	0.1
1.00	0.0	0.0
0.75	0.0	0.0
0.50	0.0	0.0
0.40	0.0	0.0



Keolin

Centrifuge 5100 V2.03

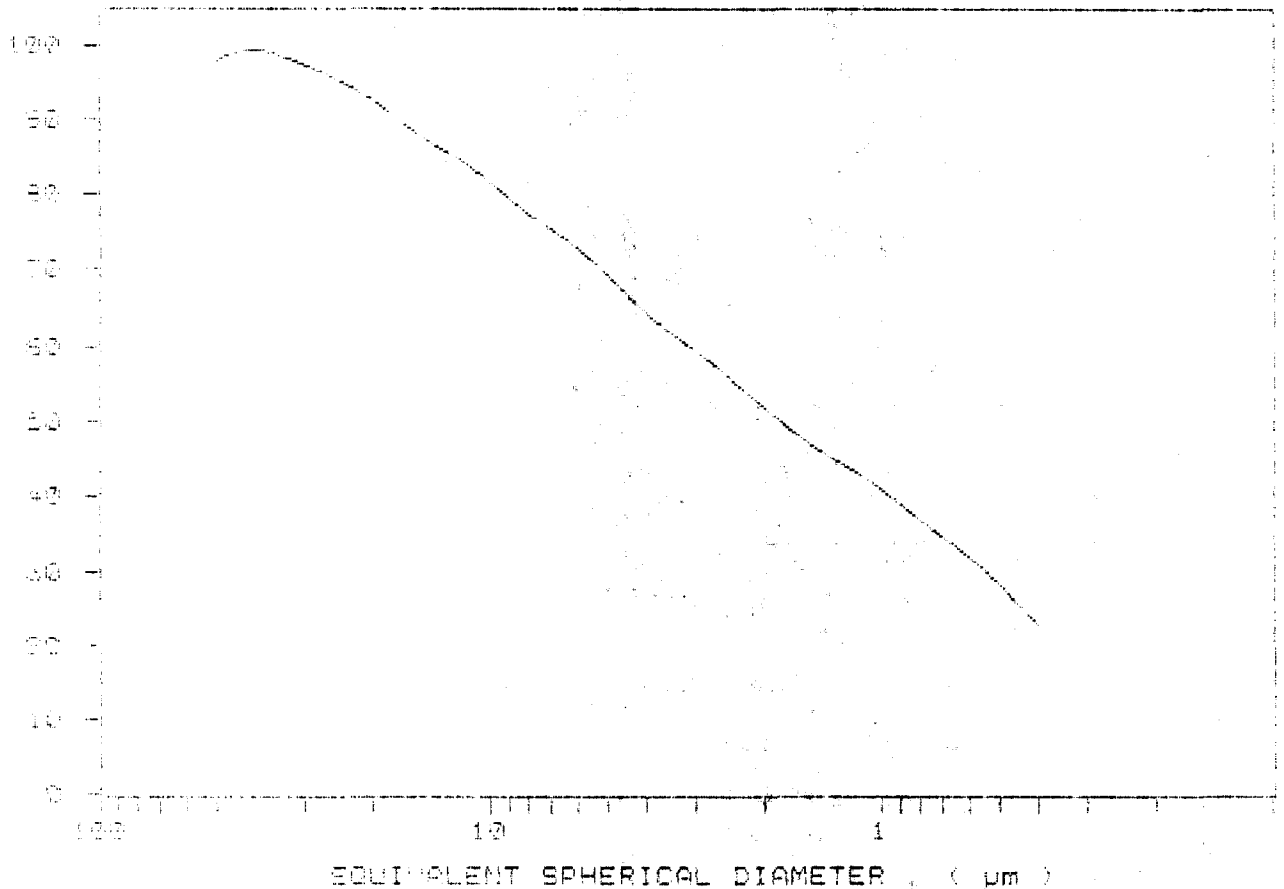
PAGE =

CORRECTION DIRECTOR NUMBER: 00000000
SAMPLE ID: none 5 51-5 4 3000
SUBMITTER: James Lee Co.
OPERATION: Keolin
SAMPLE TYPE: Clay
LIQUID TYPE: water
ANALYSIS TEMP: 23.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 13:05:37 11/09/89
REPR1 12:40:00 05/20/91
TOT RUN TIME 0:17:24
SOL DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7203 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER

MASS FINER (%)



EQUIVALENT SPHERICAL DIAMETER (µm)

SAMPLE DIRECTORY/NUMBER: S60001 720
 SAMPLE ID: Hole D 85-9 # 2500
 SUBMITTER: James Bay Lab
 OPERATOR: Keatinge
 SAMPLE TYPE: clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 25.0 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:28:59 11/27/99
 REPT 12:44:37 09/20/01
 TOT RUN TIME 0:17:10
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9998 g/cc
 LIQ VISC: 0.7115 cp

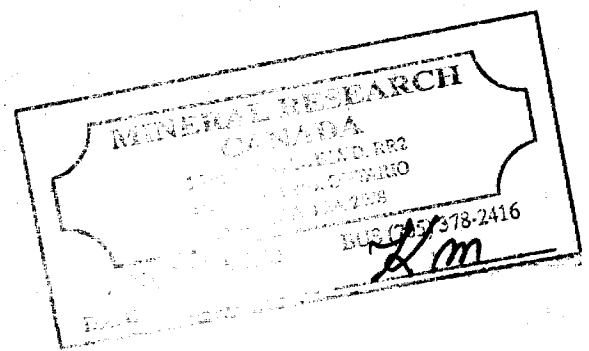
STARTING DIAMETER: 50.00 um
 ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 4.49 um MODAL DIAMETER: 14.39 um

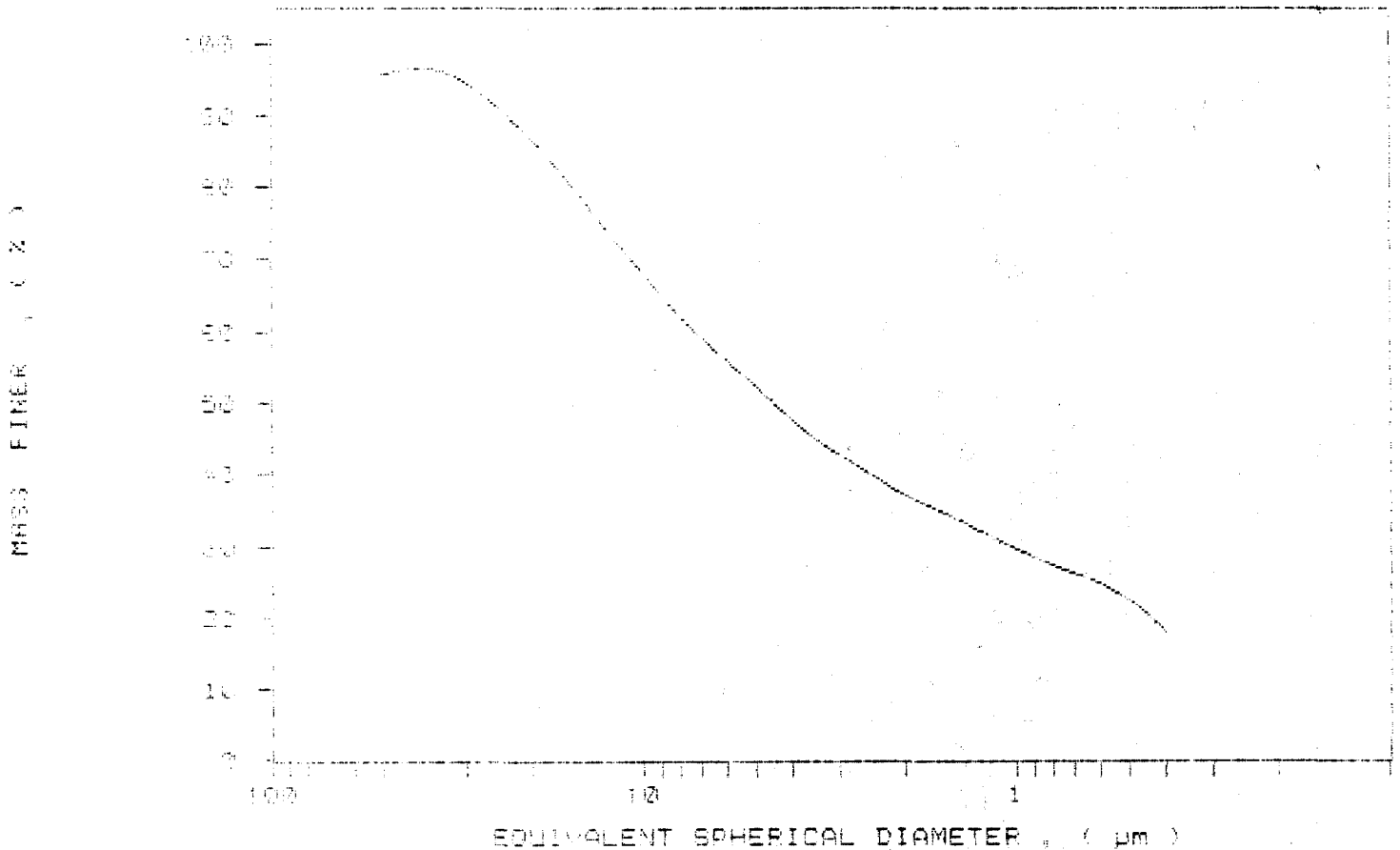
DIAMETER (um)	CUMULATIVE MASS FINE (%)	MASS IN INTERVAL (%)
50.00	50.0	4.5
40.00	55.3	10.3
30.00	64.4	11.9
20.00	71.4	8.0
15.00	75.7	4.7
10.00	78.1	2.6
7.500	80.0	11.1
5.000	82.1	3.8
3.750	83.2	0.3
3.000	83.2	0.6
2.250	87.1	4.6
1.500	88.3	4.8
1.000	89.9	0.7
0.750	94.0	8.6
0.600	95.5	4.3
0.450	97.2	2.2
0.300	99.7	1.3
0.225	99.8	1.3
0.140	100.0	4.4



SAMPLE DIRECTION: North; SECOND /20
 SAMPLE ID: Hole 0 Core # 3350
 SUBMITTER: James Bay Co.
 OPERATOR: Karina
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 35.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:28:59 11/27/99
 REPT 12:44:37 09/20/01
 TOT RUN TIME 0:17:15
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9998 g/cc
 LIQ VISC: 0.7113 cc

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE ID: 11/27/95
 SAMPLE ID: Hole D 25-3 # 3501
 SUPPLIER: James Day Co.
 ORIGIN: Kaolin
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 20°C @ 2000 RPM TYPE: Standard

UNIT NUMBER: 1
 START 11:51:14 11/27/95
 REPT 12:49:16 09/20/91
 TOT RUN TIME 0:17:17
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9988 g/cc
 LIQ VISC: 0.7112 cp

STARTING DIAMETER: 50.00 µm
 ENDING DIAMETER: 0.40 µm

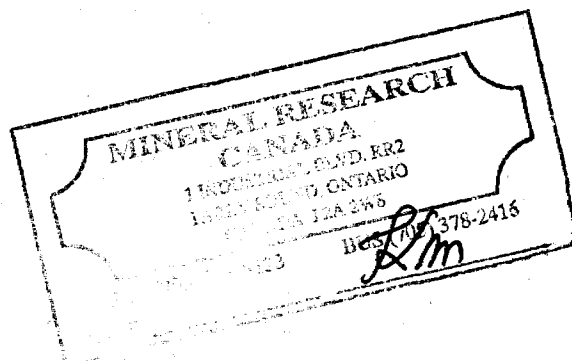
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIA DIAMETER: 5.10 µm

MODAL DIAMETER: 1.28 µm

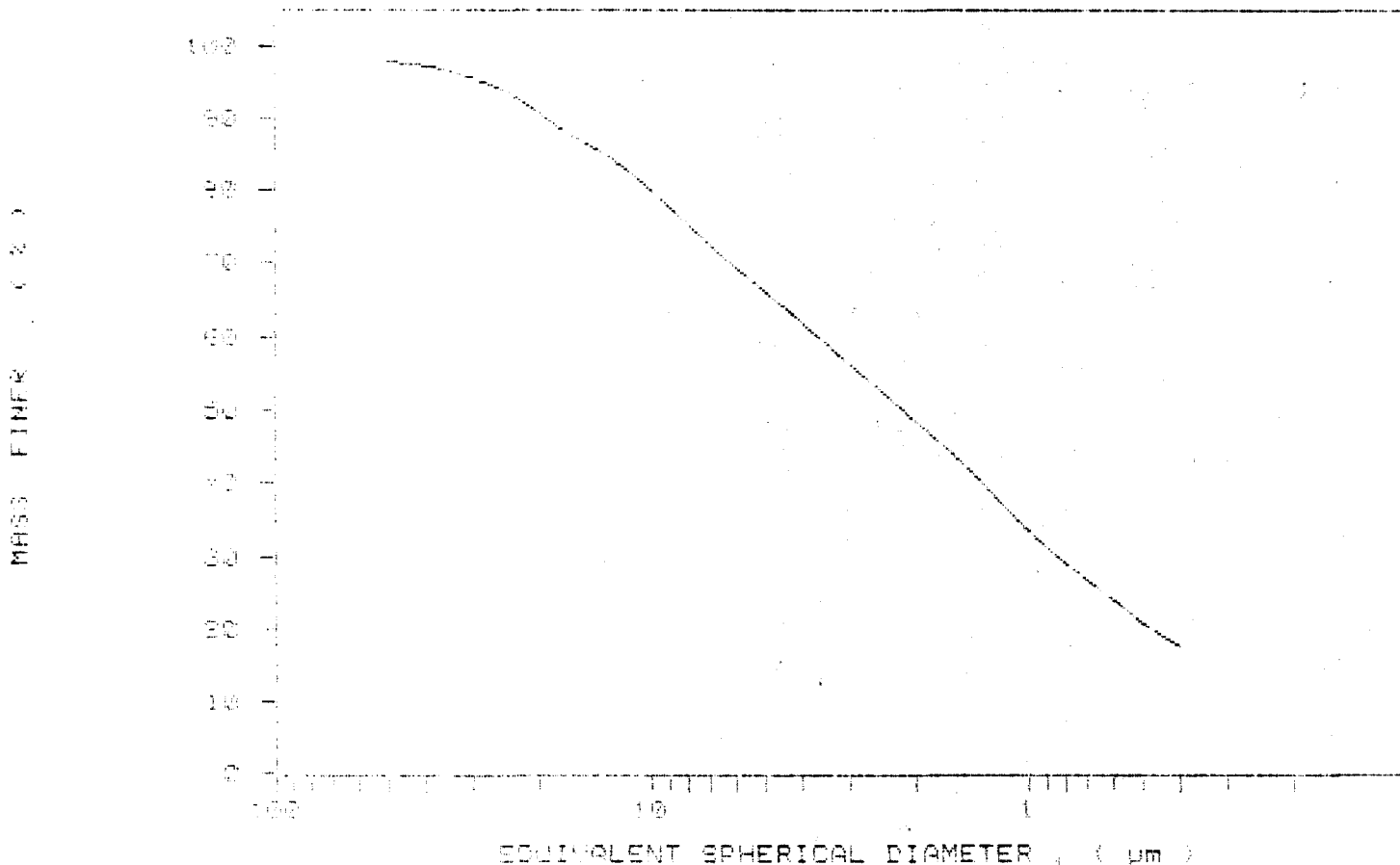
DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	37.7	2.3
40.00	57.2	6.6
30.00	65.3	1.6
25.00	62.7	1.6
20.00	70.6	2.1
15.00	58.7	4.2
10.00	79.3	5.6
7.50	75.4	4.6
5.00	69.4	5.9
3.75	66.1	5.4
2.50	62.0	4.1
1.75	58.2	5.6
1.25	49.3	7.9
0.80	42.7	5.8
0.60	33.3	9.4
0.40	17.6	4.3
0.30	24.0	5.6
0.25	26.7	5.2
0.20	27.6	5.2



SAMPLE DISCOVERY NUMBER: 82000 721
SAMPLE ID: note D 85-7 # 5001
SUBMITTER: James G. G. G.
OPERATOR: Kaarina
SAMPLE TYPE: clay
LIQUID TYPE: water
ANALYSIS TEMP: 20.0 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 11:01:14 11/27/89
REPT 12:49:16 09/20/91
TOT RUN TIME 0:17:17
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9988 g/cc
LIQ VISC: 0.7112 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SEDONA /EE
 SAMPLE ID: note 0 22-9 # 0562
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 25.0 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 09:47:01 11/09/89
 REPR: 12:53:53 09/20/91
 TOT RUN TIME 0:17:19
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7205 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

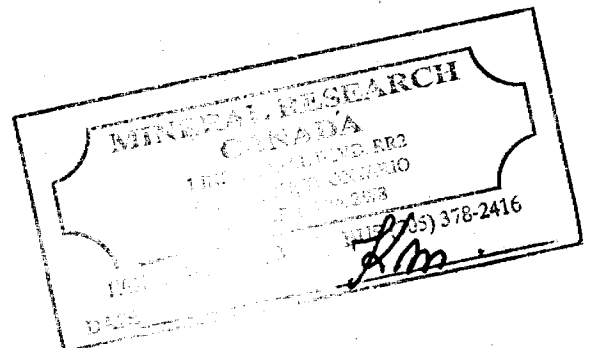
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

PAISE DISTRIBUTION

MEDIAN DIAMETER: 2.52 μ m

MODAL DIAMETER: 4.79 μ m

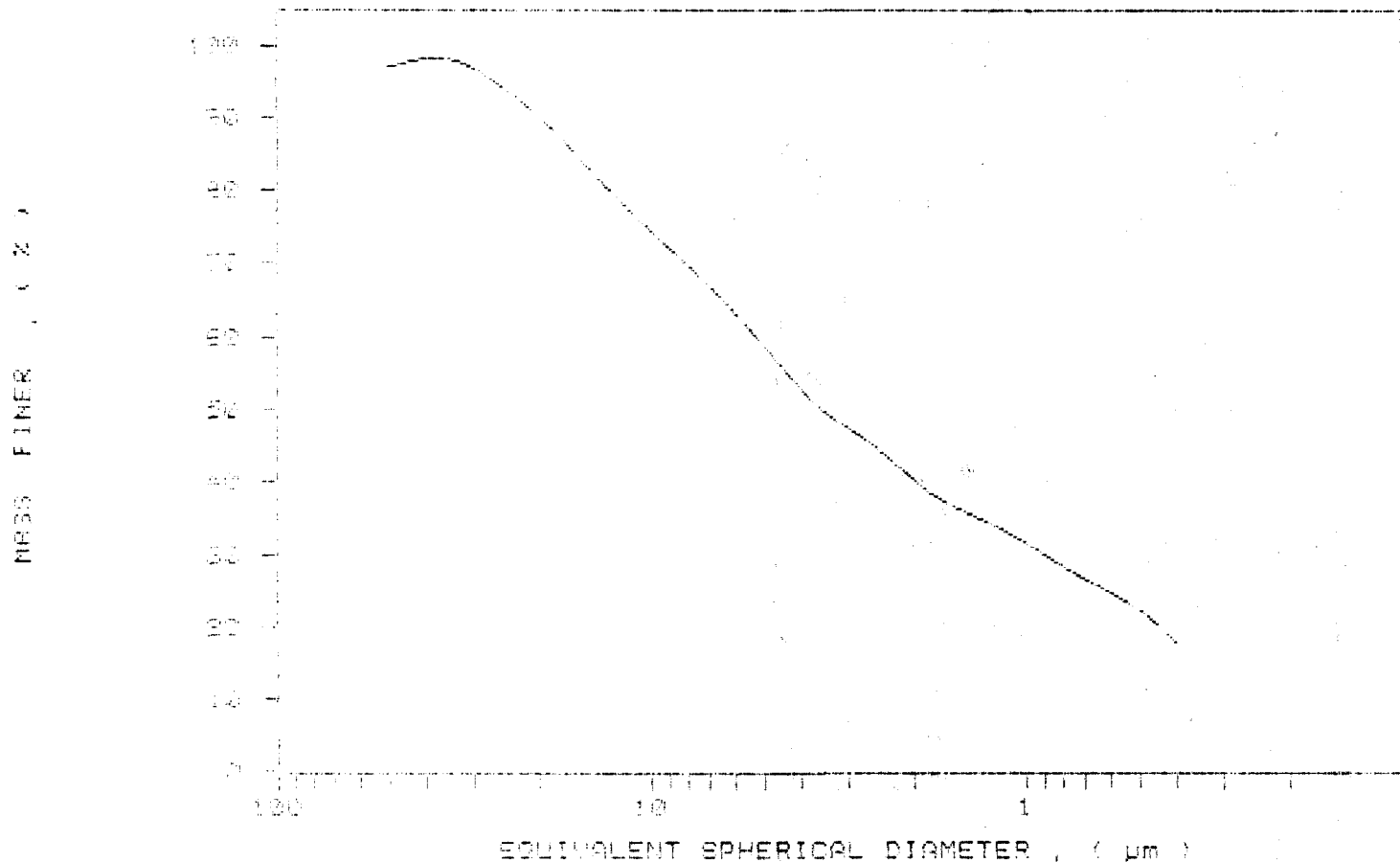
DIAMETER (μ m)	CUMULATIVE PAISE FIBER (%)	PAISE IN INTERVAL (%)
50.00	30.1	3.1
40.00	32.0	1.9
30.00	36.0	4.0
25.00	38.2	2.2
20.00	39.2	1.0
15.00	40.9	1.7
10.00	44.3	3.4
5.00	53.0	8.7
2.50	63.4	10.4
1.25	68.7	5.3
0.625	81.2	12.5
0.3125	97.3	16.1
0.15625	99.0	1.7
0.078125	99.9	0.9
0.0390625	100.0	0.1



SAMP ID DIRECTORY NUMBER: 000001 /EE
 SAMPLE ID: Nole D CS-9 # 5562
 SOURCE: James Ray, Co.
 OPERATOR: Kaarina
 SAMPLE WT: 1.0g
 LIQUID TYPE: water
 ANALYSIS TIME: 20.2 sec D RUN TYPE: Standard

UNIT NUMBER: 1
 START: 09:47:01 11/09/90
 REPT: 12:58:53 09/20/91
 TOT RUN TIME 0:17:10
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7200 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



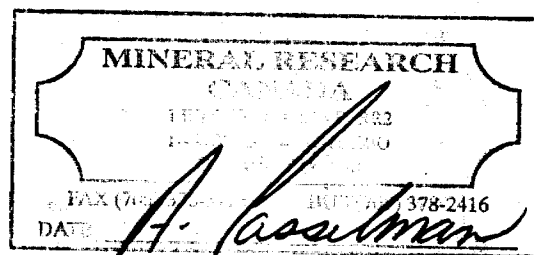
ROTARY DRILL HOLE RECORD

Drilling Started: February 17, 1989	Logged By: A. Casselman
Drilling Finished: February 18, 1989	Logged: September 12, 1989
Property: Kipling	Drilling Co.: Midwest
Dip Collar: -90	Core Storage:
Core: 3.5"	Mineral Research Canada
Length: 150.0'	R. R. # 2
Overburden Depth: 89.0'	Parry Sound, ON
Northing: 000 N	P2A 2W8
Easting: 9400 E	Claim No: 1089040
Hole Number: 89-228	

SUMMARY

From	To	Description	
0.0'	3.0'	Peat	
3.0'	25.0'	Silty Lacustrine Clay	
25.0'	42.0'	Glacial Clay Till	
42.0'	43.0'	Sand	
43.0'	89.0'	Glacial Clay Till	Pleistocene - Overburden
89.0'	128.0'	Kaolin Silica Sand (Kss)	Cretaceous
128.0'	129.0'	Sandy Clay	
129.0'	129.75'	Kss	
129.75'	133.0'	Decomposed Bedrock	
133.0'	135.5'	Kss	
135.0'	150.0'	Decomposed Bedrock	

EOH - 150.0'



Detail Log

From	To	Sample No.	Description
0.0'	3.0'		Peat
3.0'	25.0'		Silty Lacustrine Clay
25.0'	42.0'		Glacial Clay Till
42.0'	43.0'		Sand
43.0'	89.0'		Glacial Clay Till
89.0'	94.0'	751	Kss - medium grain, dried, low clay content, adhering to silica grains only, medium to dark grey, well rounded, smoky quartz and yellow chert. 9.01% kaolin.
94.0'	99.0'	752	Kss - as above, some green/yellow staining on surface and on interior, few clay bands, 0.5 - 0.25", dark grey, fissile, 13.24% kaolin.
99.0'	103.0'	753	Kss - as above, green contamination on surface only, kss is a dark purple/blue colour, medium grain. 5.90% kaolin.
103.0'	108.0'	754	Kss - as above, 0.25" clay seam, at 107.75', dark grey, fissile. 6.41% kaolin.
108.0'	112.0'	755	Kss - as above, some areas of medium brown, sandy clay sections that contain high amounts of illite, also some areas of dark grey clay. 26.66% kaolin.
112.0'	115.0'	756	Kss - coarse grain, dark grey, well rounded clasts, some lighter green areas, good clay content. 14.03% kaolin.
115.0'	120.0'	757	Kss - as above, light grey where dried. 12.35% kaolin.
120.0'	125.0'	758	Kss - as above, predominantly light grey due to low moisture contents. 16.51%
125.0'	128.0'	759	Kss - as above, some areas of haematite staining and areas of dark purple/grey as clots, coarse grain, dark grey. 9.19% kaolin.
128.0'	129.0'	760	Sandy Clay - high large quartz content,

up to 0.25", high heavies contents, light brown, some apparent garnet. 42.15% kaolin.

- 129.0' 129.75' 761 Kss - light brown, coarse grain, crumbly, garnet present. 15.04% kaolin.
- 129.75' 133.0' 762 Decomposed Bedrock/Contact Alteration Material - grey and white, high kaolin content, garnet is disseminated, partially decomposed feldspars, some chlorite, large quartz, angular up to 6.0". 42.43% kaolin by calculation - in this instance the equation can't possibly be valid, or for the remainder of the samples in this hole.
- 133.0' 135.0' 763 Kss - as from 125.0' - 128.0'. 21.39% kaolin.
- 135.0' 140.0' 764 Decomposed Bedrock/Contact Alteration Material - predominantly green, less kaolin, very dispersed, serpentine, garnet, chlorite, biotite present. 39.44% kaolin.
- 140.0' 145.0' 765 Decomposed Bedrock/Contact Alteration Material - as above. 43.29% kaolin.
- 145.0' 150.0' 766 Decomposed Bedrock/Contact Alteration Material - as above, haematite stained. 45.77% kaolin.

EOH - 150.0'

Section 89-228

Claim No: 1089040

Length: 150.0'

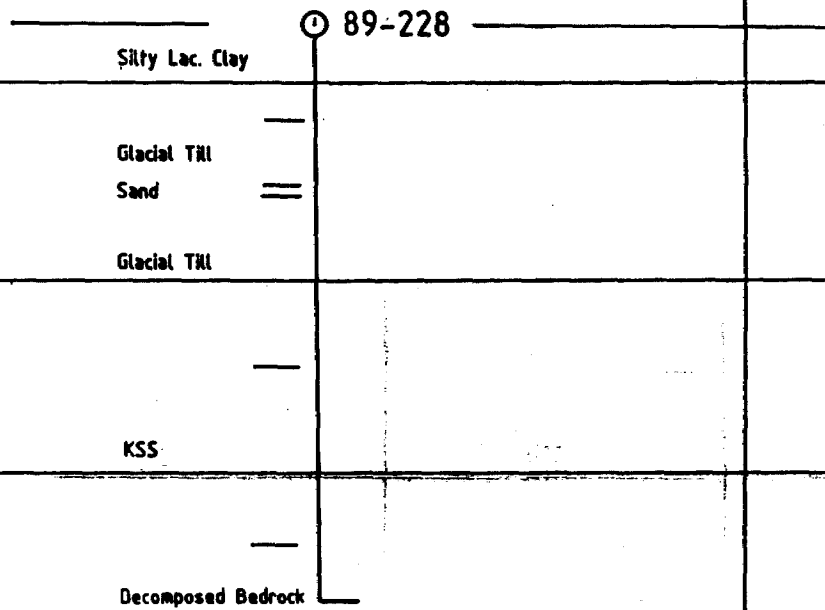
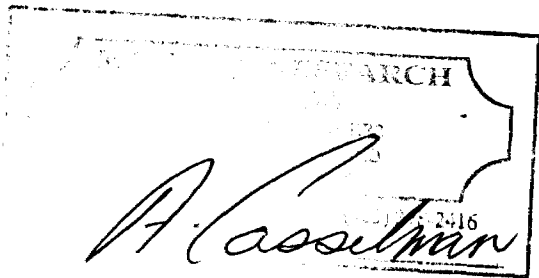
Overburden Depth: 89.0'

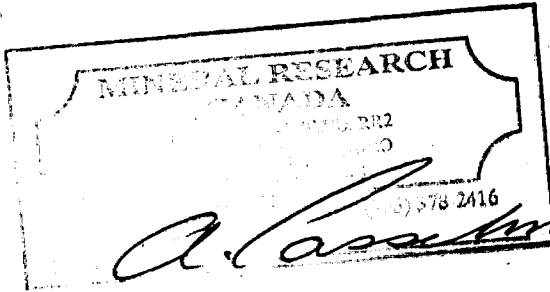
Dip Collar: -90

Scale: 1.0" = 50.0'

Northing: 000 N

Easting: 9400 E





89-228

Silty Lac. Clay

Glacial Till

Sand

Glacial Till

KSS

15.13%

Decomposed Bedrock

39.79%



89-228

- 751
- 752
- 753
- 754
- 755
- 756
- 757
- 758
- 759
- 760
- 761
- 762
- 763
- 764
- 765
- 766



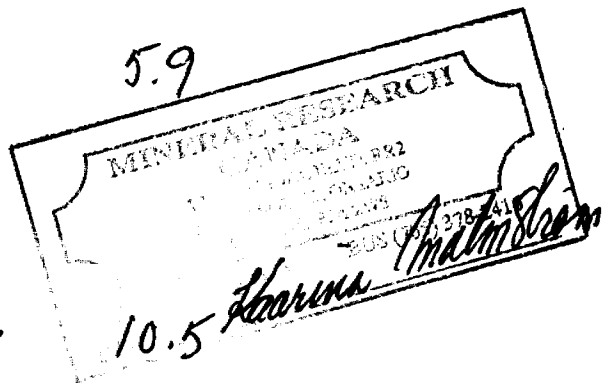
MINERAL RESEARCH CANADA

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

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
<i>Hole 89-228</i> 751	+ 4	∅	5.2	
	+ 40	0.6		
	+100	36.5		
	+200	3.8		
	+325	1.5		
	-325	57.6		
752	+ 4	∅	9.2	
	+ 40	0.2		
	+100	54.0		
	+200	14.0		
	+325	3.7		
	-325	28.1		
753	+ 4	0.4	6.7	
	+ 40	66.4		
	+100	23.8		
	+200	1.6		
	+325	0.8		
	-325	7.0		
754	+ 4	0.6	5.9	
	+ 40	69.6		
	+100	18.1		
	+200	1.5		
	+325	0.9		
	-325	9.3		
755	+ 4	∅	10.5	
	+ 40	52.7		
	+100	36.2		
	+200	2.6		
	+325	0.9		
	-325	7.6		



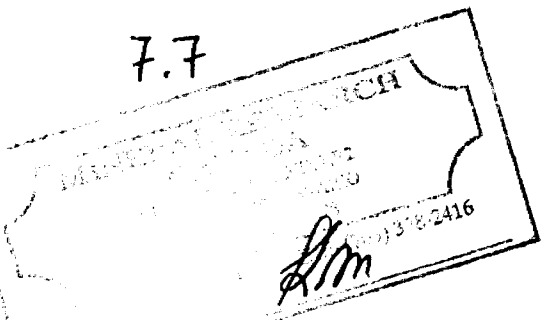
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1 INDUSTRIAL BLVD., RR2
 PARRY SOUND, ON. CANADA
 P2A 2W8

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
<i>Hole 89-228</i> 756	+ 4	8.0	8.0	
	+ 40	51.1		
	+100	25.6		
	+200	3.7		
	+325	1.6		
	-325	10.0		
757	+ 4	0.1	7.4	
	+ 40	56.2		
	+100	22.1		
	+200	3.1		
	+325	1.6		
	-325	16.9		
758	+ 4	0	1.2	
	+ 40	47.7		
	+100	38.5		
	+200	2.5		
	+325	1.0		
	-325	10.3		
759	+ 4	6.6	7.7	
	+ 40	52.7		
	+100	26.1		
	+200	2.9		
	+325	1.4		
	-325	10.3		
760	+ 4	0	10.8	
	+ 40	0.7		
	+100	34.2		
	+200	29.1		
	+325	6.9		
	-325	29.1		



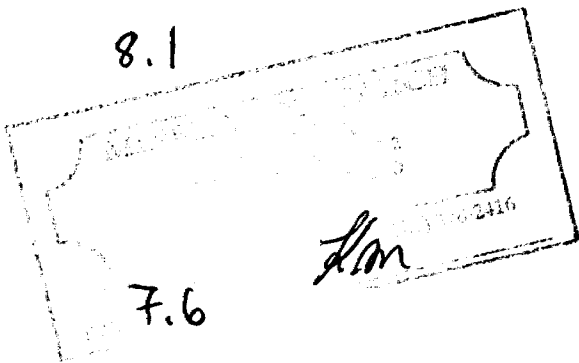
MINERAL RESEARCH CANADA

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 FAX: (705) 378-5123

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
<i>State 89-228</i> 761	+ 4	7.4	7.4	
	+ 40	50.7		
	+100	28.1		
	+200	3.9		
	+325	1.8		
	-325	8.1		
762	+ 4	8.1	7.9	
	+ 40	29.2		
	+100	16.3		
	+200	6.3		
	+325	4.9		
	-325	35.2		
763	+ 4	1.9	5.5	
	+ 40	73.2		
	+100	20.4		
	+200	2.4		
	+325	1.2		
	-325	10.9		
764	+ 4	0	8.1	
	+ 40	0.5		
	+100	28.4		
	+200	24.4		
	+325	4.6		
	-325	42.1		
765	+ 4	0	7.6	
	+ 40	0.4		
	+100	54.1		
	+200	11.8		
	+325	3.0		
	-325	30.7		



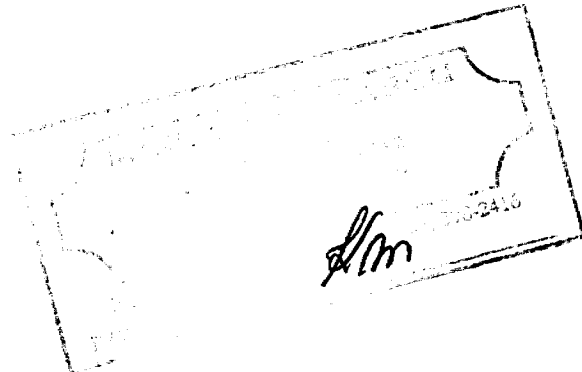
MINERAL RESEARCH CANADA

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FAX: (705) 378-5123

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
<i>Lot 89-228</i> <i>766</i>	+ 4	<i>0</i>	<i>11.2</i>	
	+ 40	<i>0.5</i>		
	+100	<i>33.4</i>		
	+200	<i>29.8</i>		
	+325	<i>6.3</i>		
	-325	<i>30.0</i>		
	+ 4			
	+ 40			
	+100			
	+200			
	+325			
	-325			
	+ 4			
	+ 40			
	+100			
	+200			
	+325			
	-325			
	+ 4			
	+ 40			
	+100			
	+200			
	+325			
	-325			



SAMPLE DIRECTORY/NUMBER: SECOND /47

SAMPLE ID: Hole 89-223 # 751

SUBMITTER: James Bay Co.

OPERATOR: Kaarina

SAMPLE TYPE: Clay

LIQUID TYPE: water

ANALYSIS TEMP: 95.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1

START 14:03:57 11/13/89

REPRT 10:31:13 10/10/91

TOT RUN TIME @:17:30

SAM DENS: 2.6500 g/cc

LIQ DENS: 0.9941 g/cc

LIQ VISC: 0.7206 cp

STARTING DIAMETER: 50.00 μ mENDING DIAMETER: 0.40 μ m

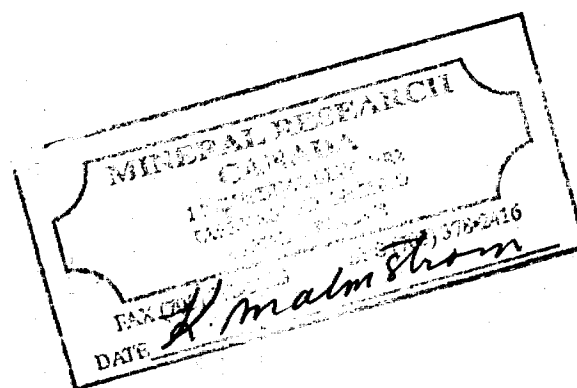
REYNOLDS NUMBER: 0.22

FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.40 μ mMODAL DIAMETER: 0.43 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	50.2	6.8
40.00	96.3	-3.1
30.00	96.5	-0.2
25.00	95.6	0.8
20.00	93.2	2.5
15.00	89.0	4.2
10.00	84.4	4.6
8.00	82.5	1.9
6.00	77.2	4.7
5.00	74.0	3.8
4.00	69.6	4.4
3.00	64.1	5.5
2.00	56.2	7.9
1.50	51.4	4.8
1.00	44.2	7.2
0.80	40.8	3.9
0.60	34.4	6.9
0.50	29.8	4.6
0.40	23.4	6.4



SAMPLE DIRECTORY/NUMBER: SECOND 747

SAMPLE ID: Hole 89-228 # 751

SUBMITTER: James Bay Co.

OPERATOR: Kaarina

SAMPLE TYPE: Clay

LIGUID TYPE: Water

ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1

START 14:03:57 11/13/89

REPRT 10:31:13 10/10/91

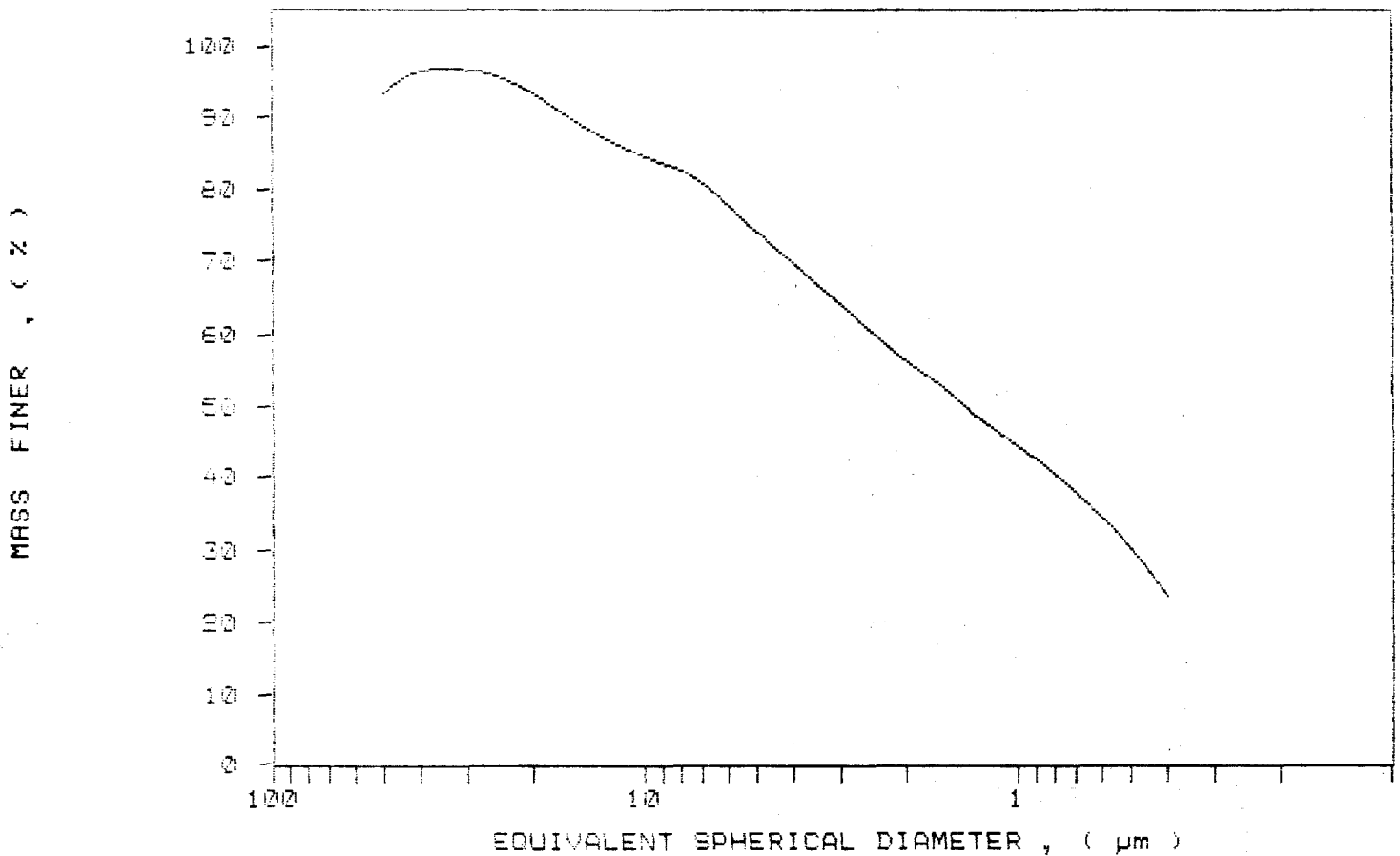
TOT RUN TIME 0:17:30

SAM DENS: 2.6500 g/cc

LIQ DENS: 0.9941 g/cc

LIQ VISC: 0.7206 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /46
 SAMPLE ID: Hole 29-229 # 766
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 95.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 13:33:56 11/13/89
 REPRT 10:26:50 10/10/91
 TOT RUN TIME 0:16:55
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7206 cp

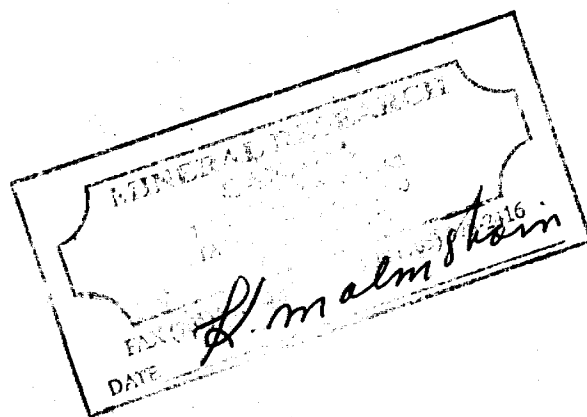
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

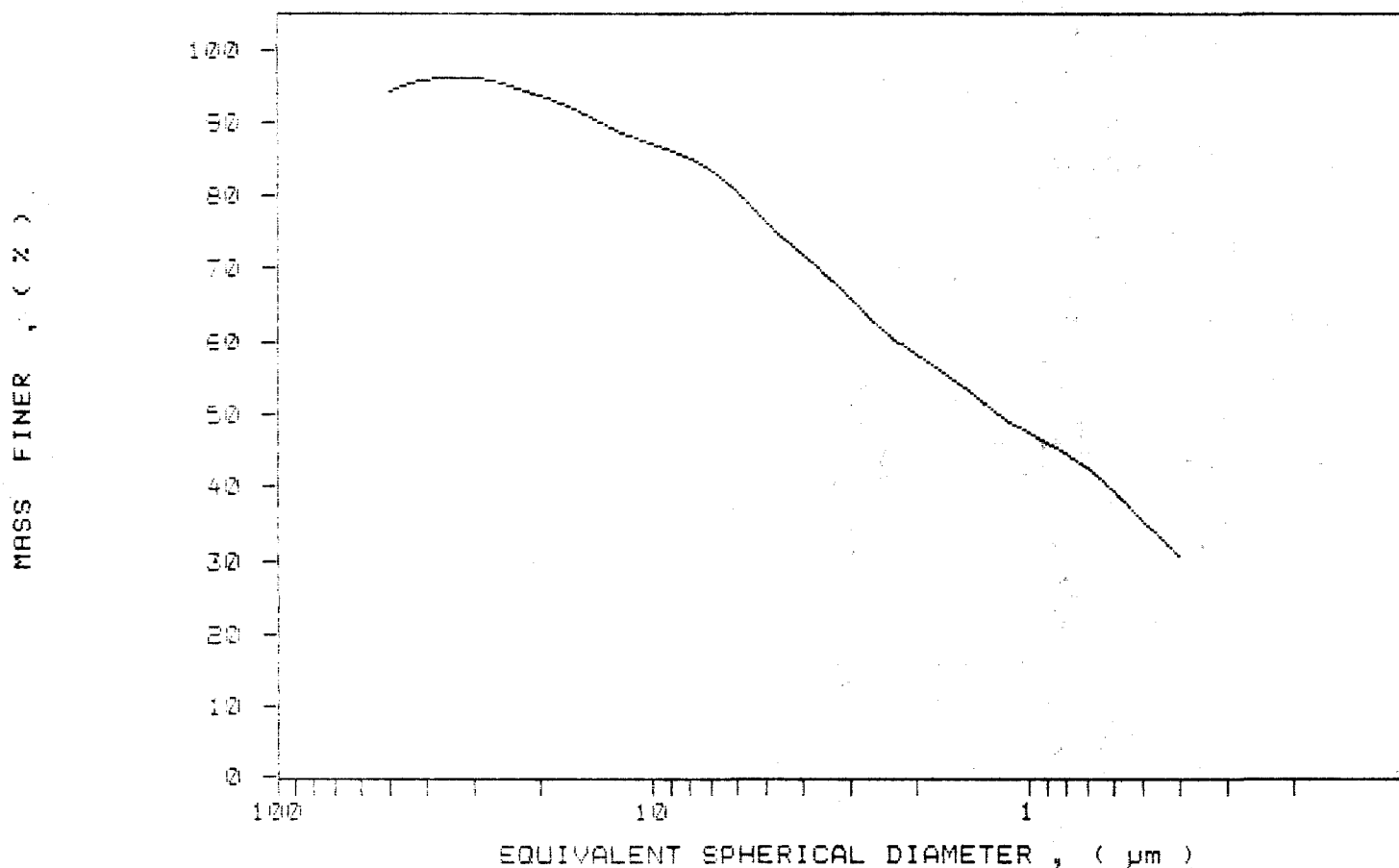
MEDIAN DIAMETER: 1.21 μ m MODAL DIAMETER: 5.38 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	94.8	5.7
40.00	95.7	-1.5
30.00	96.0	-0.2
25.00	95.3	0.7
20.00	93.5	1.8
15.00	90.9	2.6
10.00	87.0	3.9
8.00	85.1	1.9
6.00	80.6	4.6
5.00	76.4	4.2
4.00	71.9	4.5
3.00	66.0	5.9
2.00	58.2	7.8
1.50	53.7	4.5
1.00	47.4	6.3
0.80	44.6	2.8
0.60	39.4	5.2
0.50	35.4	4.0
0.40	30.3	5.1



SAMPLE DIRECTORY/NUMBER: SECOND /46	UNIT NUMBER: 1
SAMPLE ID: Hole 89-228 # 766	START 13:33:56 11/13/89
SUBMITTER: James Bay Co.	REPRT 10:26:50 10/10/91
OPERATOR: kaarina	TOT RUN TIME 0:16:55
SAMPLE TYPE: Clay	SAM DENS: 2.6500 g/cc
LIQUID TYPE: Water	LIO DENS: 0.9941 g/cc
ANALYSIS TEMP: 25.1 deg C	RUN TYPE: Standard
	LIO VISC: 0.7206 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /45
 SAMPLE ID: Hole 89-228 # 765
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 33.7 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 08:55:07 12/11/89
 REPRT 10:22:24 10/10/91
 TOT RUN TIME 0:17:26
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9945 g/cc
 LIQ VISC: 0.7421 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

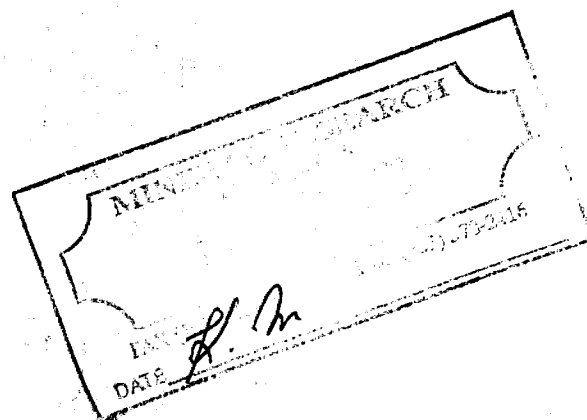
REYNOLDS NUMBER: 0.20
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.40 μ m

MODAL DIAMETER: 4.09 μ m

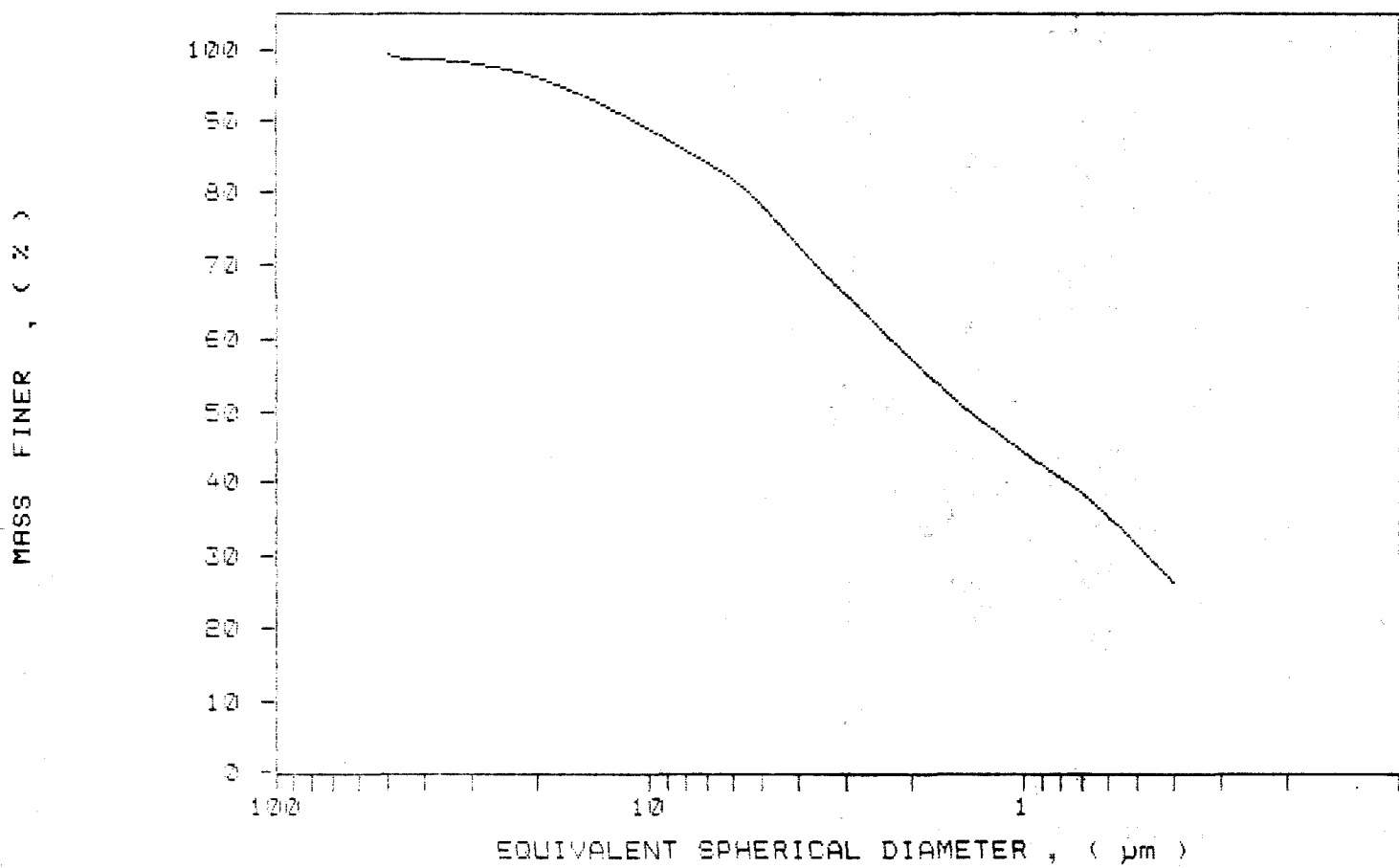
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.1	0.9
40.00	98.3	0.8
30.00	97.9	0.4
25.00	97.2	0.7
20.00	95.9	1.3
15.00	93.3	2.6
10.00	86.7	4.7
8.00	85.7	2.9
6.00	81.7	4.0
5.00	78.2	3.5
4.00	72.8	5.4
3.00	66.0	6.7
2.00	57.0	9.0
1.50	51.6	5.7
1.00	44.2	7.1
0.80	40.6	3.6
0.60	35.4	5.2
0.50	31.6	4.2
0.40	26.2	5.1



SAMPLE DIRECTORY/NUMBER: SECOND /45
SAMPLE ID: Hole 89-223 # 765
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: water
ANALYSIS TEMP: 33.7 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 08:55:07 12/11/89
REPRT 10:22:24 10/10/91
TOT RUN TIME 0:17:26
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9945 g/cc
LIQ VISC: 0.7421 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /44
 SAMPLE ID: Hole 89-228 # 764
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 11:39:23 11/13/89
 REPT 10:18:00 10/10/91
 TOT RUN TIME 0:16:58
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7206 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

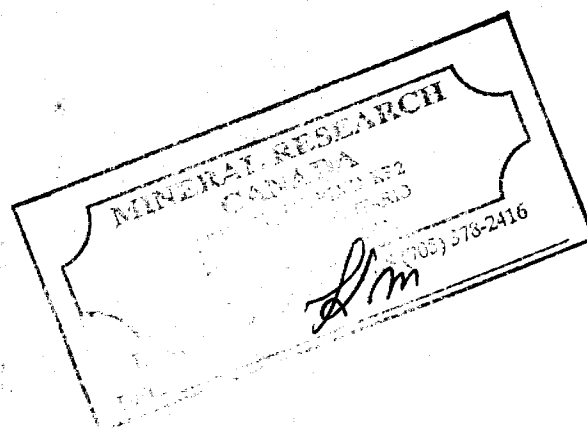
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.29 μ m

MODAL DIAMETER: 0.40 μ m

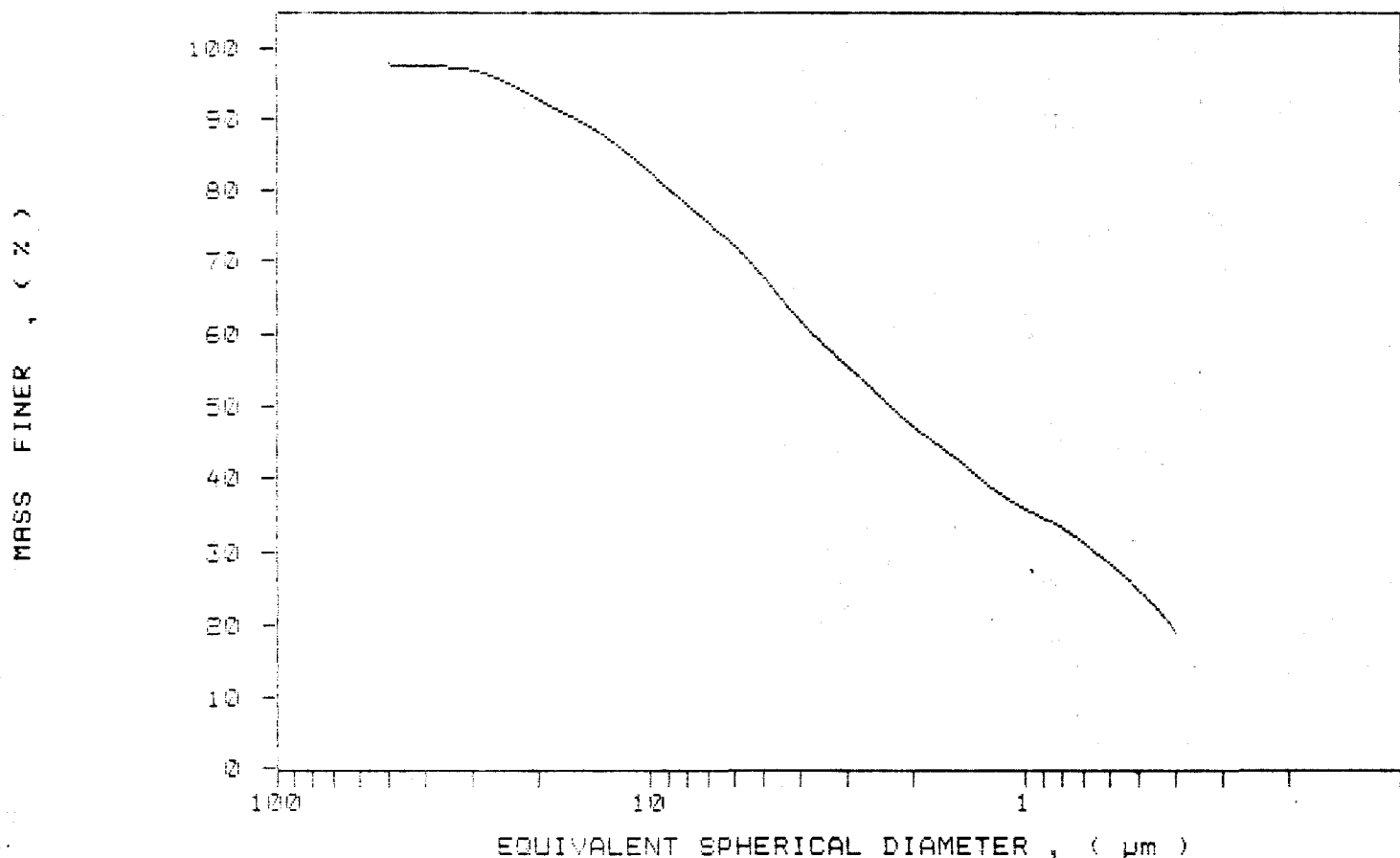
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	97.6	2.4
40.00	97.3	0.3
30.00	96.8	0.5
25.00	95.3	1.5
20.00	92.6	2.7
15.00	89.3	3.3
10.00	82.4	6.9
8.00	78.0	4.4
6.00	72.3	5.7
5.00	67.3	4.5
4.00	61.9	6.0
3.00	55.6	6.3
2.00	47.3	8.3
1.50	42.3	5.0
1.00	35.9	6.4
0.80	33.2	2.7
0.60	28.2	4.9
0.50	24.7	3.5
0.40	18.9	5.9



SAMPLE DIRECTORY/NUMBER: SECOND /44
SAMPLE ID: Hole 89-228 # 764
SUBMITTER: James Bay Co.
OPERATOR: kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: water
ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 11:39:23 11/13/89
REPRT 10:18:00 10/10/91
TOT RUN TIME 0:16:58
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9941 g/cc
LIQ VISC: 0.7206 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /43

SAMPLE ID: Hole 89-225 # 763

SUBMITTER: James Bay Co.

OPERATOR: Kaarina

SAMPLE TYPE: Clay

LIQUID TYPE: Water

ANALYSIS TEMP: 25.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1

START 11:04:07 11/13/89

REPRT 10:15:48 10/10/91

TOT RUN TIME @:17:02

SAM DENS: 2.6500 g/cc

LIQ DENS: 0.9941 g/cc

LIQ VISC: 0.7207 cp

STARTING DIAMETER: 50.00 μ mENDING DIAMETER: 0.40 μ m

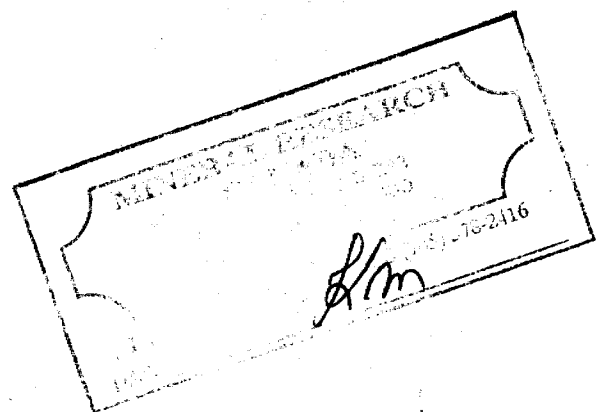
REYNOLDS NUMBER: 0.22

FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.96 μ mMODAL DIAMETER: 4.02 μ m

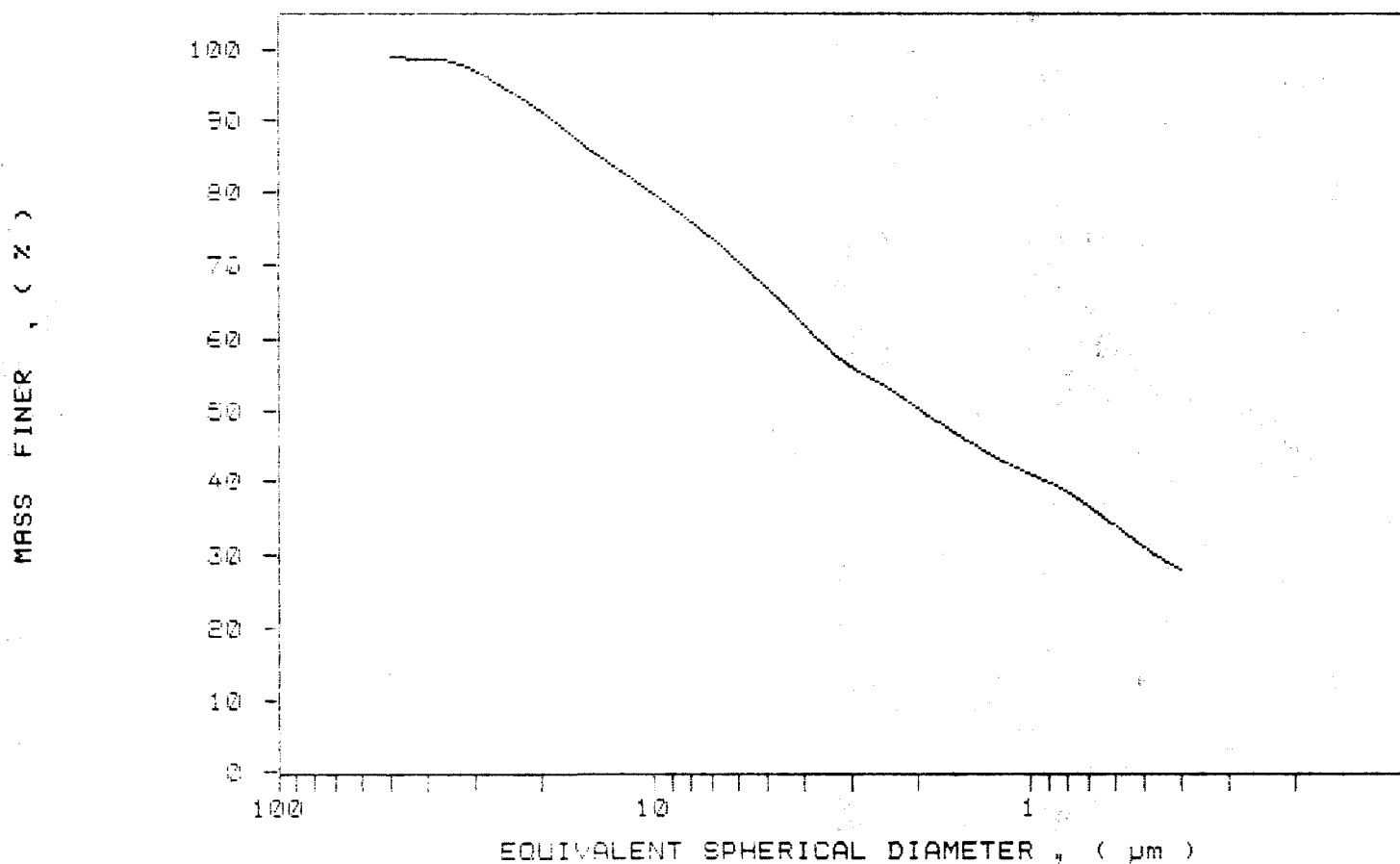
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.7	1.3
40.00	98.6	0.1
30.00	96.9	1.7
25.00	94.4	2.5
20.00	91.2	3.3
15.00	88.1	5.1
10.00	79.6	6.5
8.00	75.9	3.7
6.00	70.6	5.3
5.00	66.9	3.7
4.00	61.9	5.0
3.00	56.0	5.9
2.00	50.8	5.7
1.50	46.0	4.4
1.00	40.9	5.0
0.80	38.5	2.5
0.60	33.9	4.6
0.50	30.8	3.1
0.40	27.7	3.2



SAMPLE DIRECTORY/NUMBER: SECOND /43
SAMPLE ID: Hole 09-228 # 768
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: water
ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 11:04:07 11/13/89
REPRT 10:15:48 10/10/91
TOT RUN TIME 0:17:02
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9941 g/cc
LIQ VISC: 0.7207 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /42
 SAMPLE ID: Hole 89-228 # 752
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 32.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 15:34:10 12/08/89
 REPRT 10:11:23 10/10/91
 TOT RUN TIME 0:16:24
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9930 g/cc
 LIQ VISC: 0.6790 cp

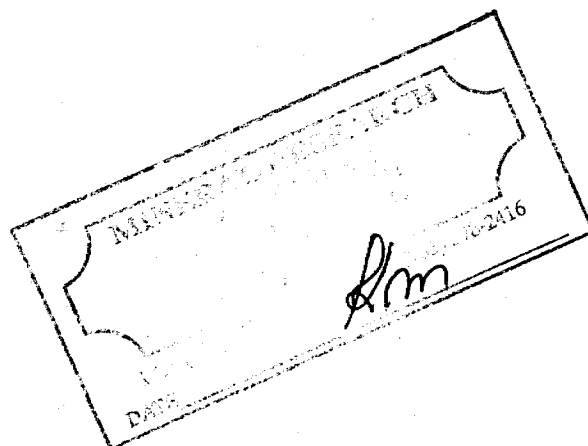
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.24
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.75 μ m MODAL DIAMETER: 3.79 μ m

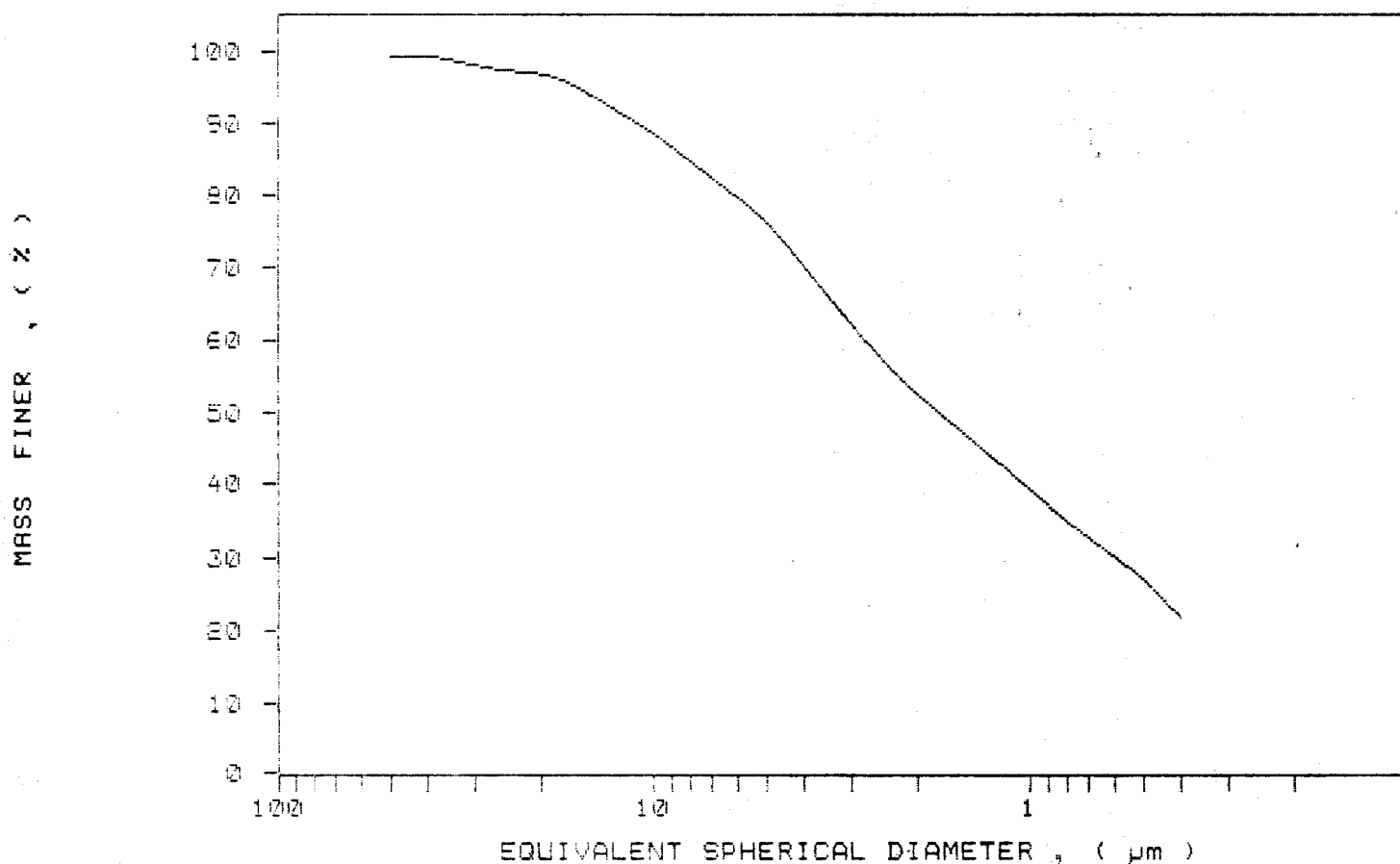
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.1	0.9
40.00	95.2	4.1
30.00	88.1	7.1
25.00	97.4	0.7
20.00	96.8	0.6
15.00	94.2	2.6
10.00	88.5	5.7
8.00	84.7	3.8
6.00	79.7	4.9
5.00	78.2	3.5
4.00	70.4	5.8
3.00	62.3	8.1
2.00	52.5	9.8
1.50	47.1	5.4
1.00	39.2	7.9
0.80	34.9	4.3
0.60	30.0	4.9
0.50	26.8	3.3
0.40	21.7	5.0



SAMPLE DIRECTORY/NUMBER: SECOND /42
SAMPLE ID: Hole 89-228 # 762
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 38.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 15:34:10 12/08/89
REPRT 10:11:23 10/10/91
TOT RUN TIME 0:16:24
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9980 g/cc
LIQ VISC: 0.6790 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /41

SAMPLE ID: Hole 89-228 # 761

SUBMITTER: James Bay Co.

OPERATOR: Kaarina

SAMPLE TYPE: Clay

LIQUID TYPE: Water

ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1

START 09:55:10 11/13/89

REPRT 10:06:59 10/10/91

TOT RUN TIME 0:16:58

SAM DENS: 2.6500 g/cc

LIQ DENS: 0.9941 g/cc

LIQ VISC: 0.7206 cp

STARTING DIAMETER: 50.00 μ mENDING DIAMETER: 0.40 μ m

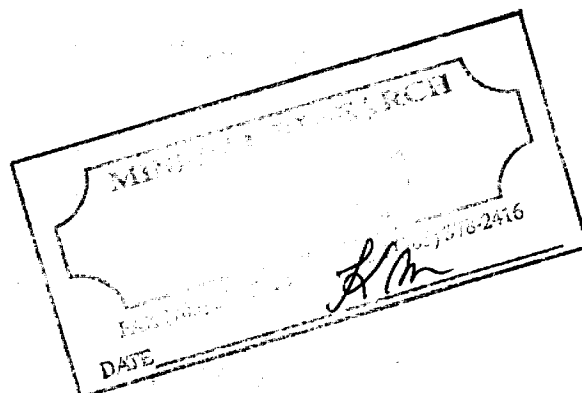
REYNOLDS NUMBER: 0.22

FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.62 μ mMODAL DIAMETER: 1.62 μ m

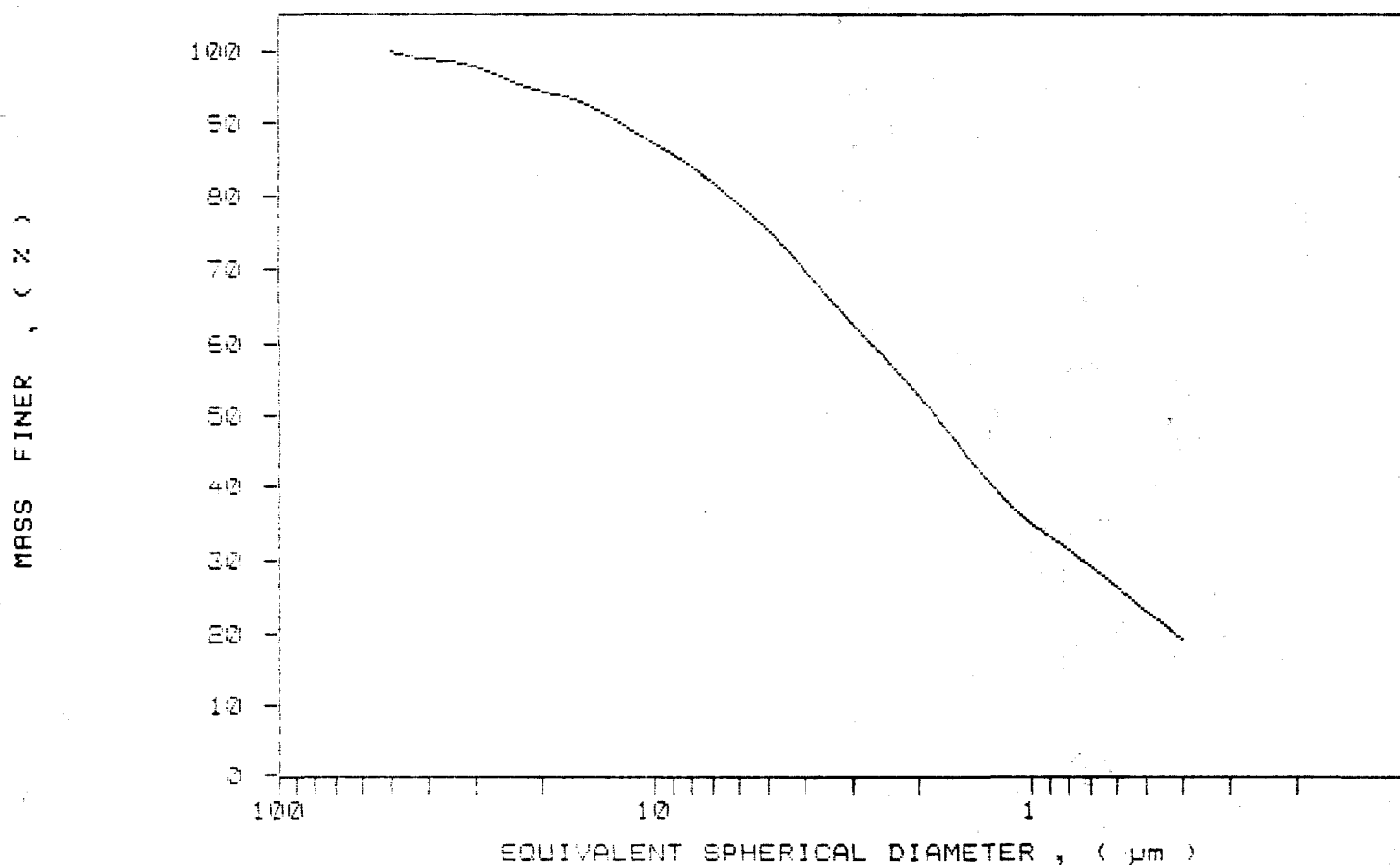
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.9	0.1
40.00	98.7	1.1
30.00	97.6	1.1
25.00	96.1	1.6
20.00	94.8	1.7
15.00	92.8	2.0
10.00	87.1	5.6
8.00	83.9	6.1
6.00	78.9	5.0
5.00	75.8	6.6
4.00	69.9	5.4
3.00	52.6	7.2
2.00	52.6	10.0
1.50	44.5	8.2
1.00	34.9	9.6
0.80	31.2	6.7
0.60	26.2	5.0
0.50	23.0	6.2
0.40	19.1	3.9



SAMPLE DIRECTORY/NUMBER: SECOND /41
SAMPLE ID: Hole 89-228 # 751
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 25.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 09:55:10 11/13/89
REPRT 10:06:59 10/10/91
TOT RUN TIME 0:16:58
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9941 g/cc
LIQ VISC: 0.7206 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /40
 SAMPLE ID: Hole 89-228 # 760
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 37.8 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 14:35:55 12/08/89
 REPT 10:02:34 10/10/91
 TOT RUN TIME 0:16:04
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9931 g/cc
 LIQ VISC: 0.6844 cp

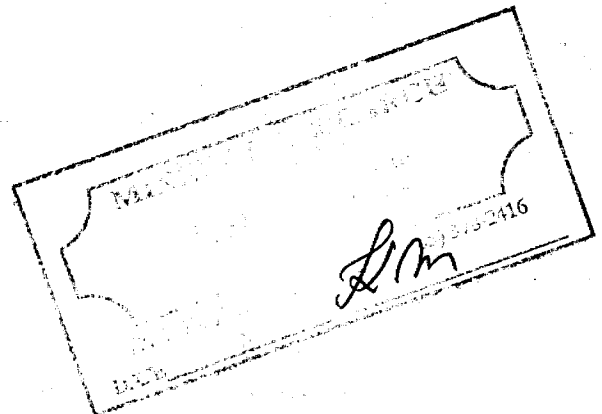
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.24
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.24 μ m MODAL DIAMETER: 0.40 μ m

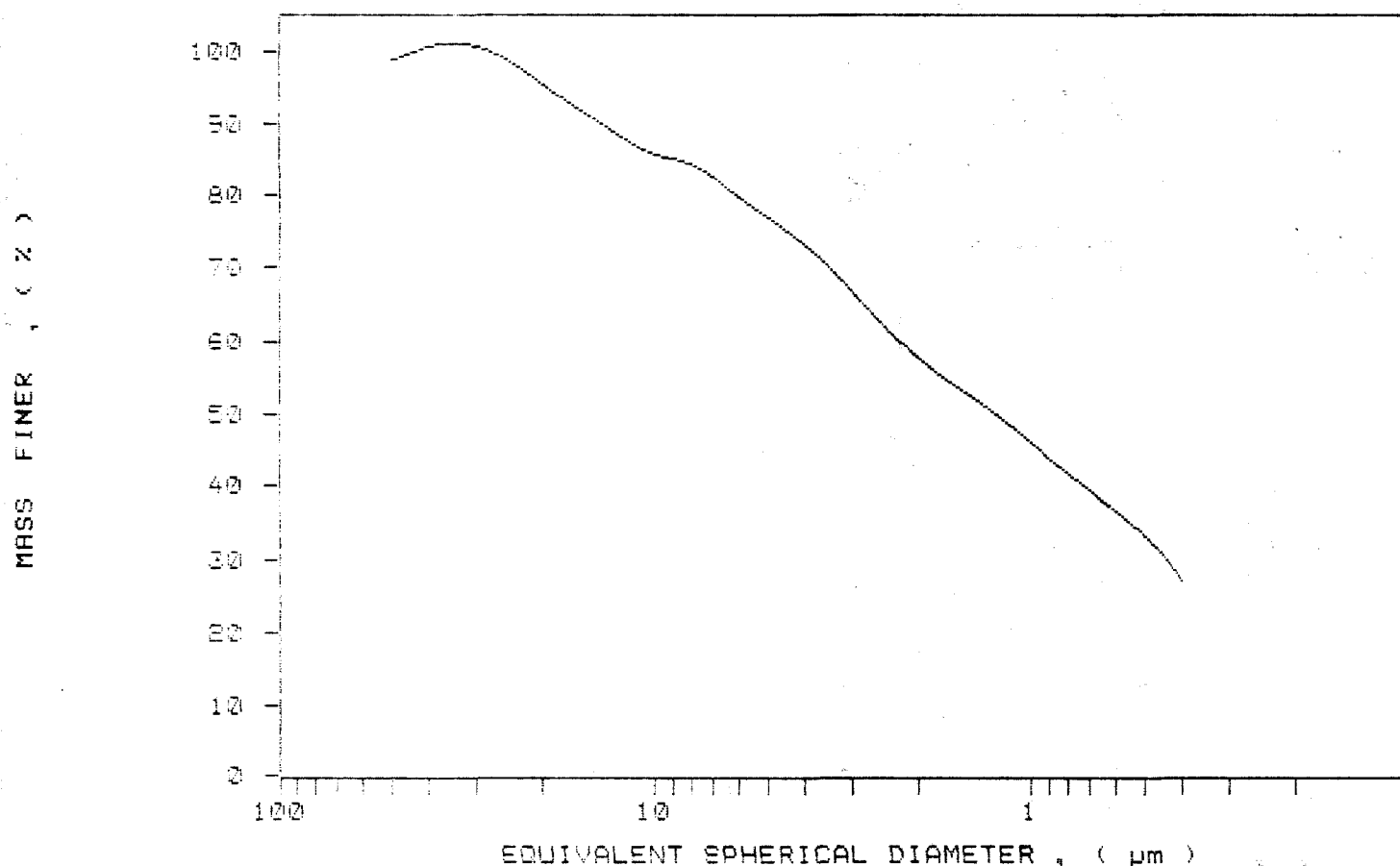
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.7	1.3
40.00	100.6	-1.9
30.00	100.6	-0.1
25.00	98.9	1.8
20.00	85.4	3.5
15.00	91.1	4.3
10.00	85.8	5.3
8.00	84.2	1.6
6.00	79.7	4.5
5.00	76.9	2.8
4.00	75.2	3.7
3.00	66.9	6.4
2.00	57.7	9.2
1.50	52.9	4.8
1.00	45.0	6.9
0.80	41.7	4.3
0.60	36.5	5.2
0.50	33.0	3.5
0.40	27.0	6.1



SAMPLE DIRECTORY/NUMBER: SECOND /40
SAMPLE ID: Hole 89-226 # 760
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 37.8 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 14:35:55 12/08/89
REFRT 10:02:34 10/10/91
TOT RUN TIME 0:16:04
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9981 g/cc
LIQ VISC: 0.6844 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /39

SAMPLE ID: Hole 89-228 # 759

SUBMITTER: James Bay Co.

OPERATOR: Kaarina

SAMPLE TYPE: Clay

LIQUID TYPE: water

ANALYSIS TEMP: 25.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1

START 15:10:39 11/10/89

REPRT 09:58:10 10/10/91

TOT RUN TIME 0:17:12

SAM DENS: 2.6500 g/cc

LIQ DENS: 0.9940 g/cc

LIQ VISC: 0.7203 cp

STARTING DIAMETER: 50.00 µm

ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 0.22

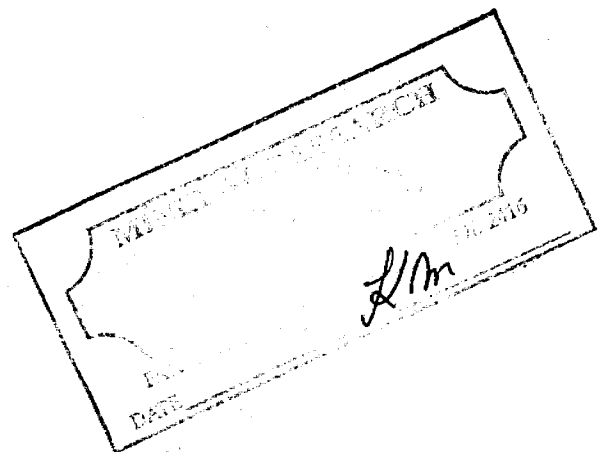
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.04 µm

MODAL DIAMETER: 0.40 µm

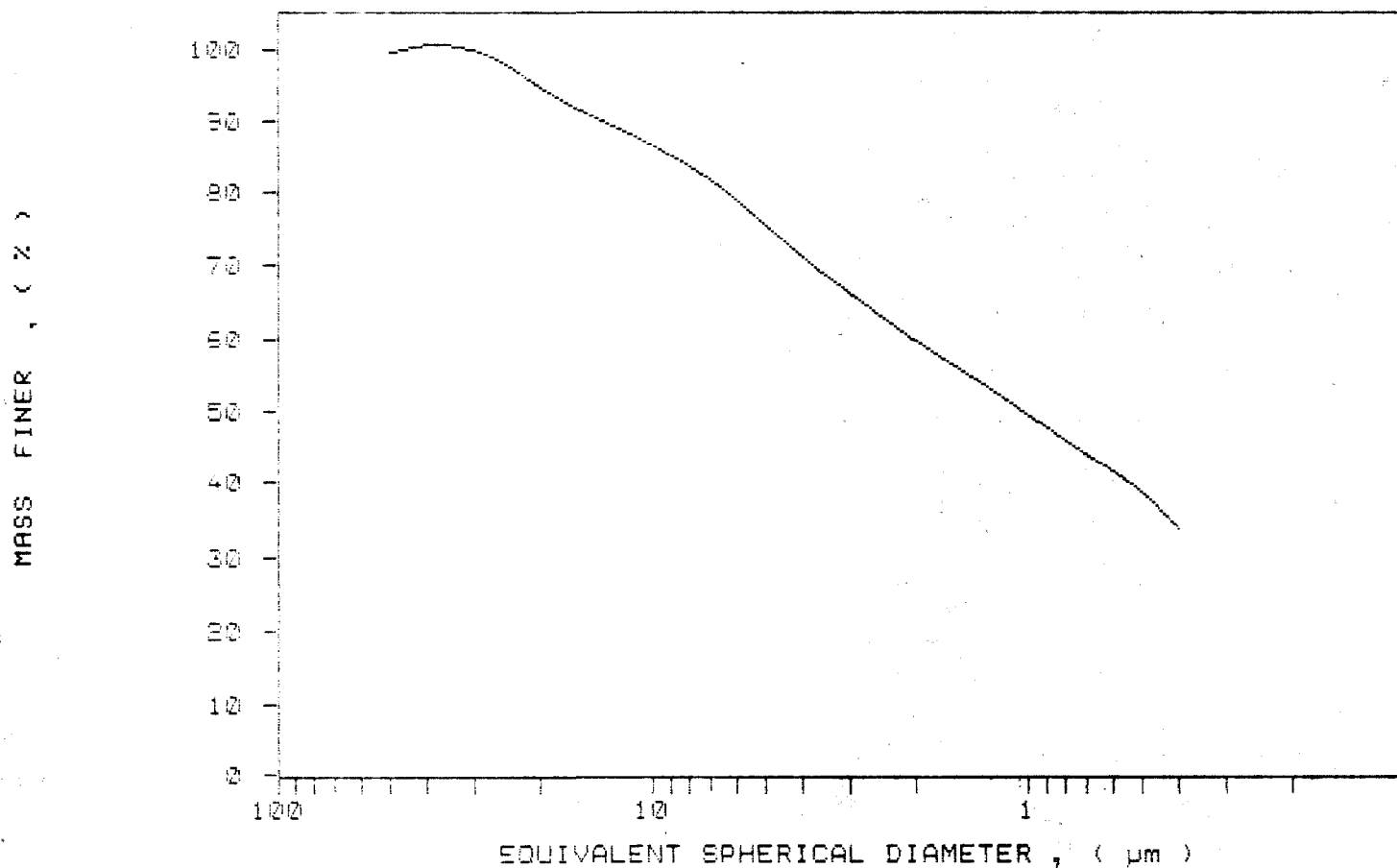
DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.4	0.6
40.00	100.5	-1.1
30.00	99.8	0.7
25.00	97.9	1.8
20.00	94.6	3.3
15.00	90.9	3.7
10.00	86.5	4.4
8.00	83.6	2.9
6.00	78.9	4.6
5.00	75.4	3.5
4.00	71.2	4.2
3.00	66.2	5.0
2.00	59.6	6.6
1.50	55.4	4.2
1.00	49.6	5.8
0.80	45.6	4.0
0.60	41.5	4.1
0.50	38.5	3.0
0.40	33.8	4.7



SAMPLE DIRECTORY/NUMBER: SECOND /39
SAMPLE ID: Hole 89-225 # 759
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: water
ANALYSIS TEMP: 25.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 15:10:39 11/10/89
REPT 09:58:10 10/10/91
TOT RUN TIME 0:17:12
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7203 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND / 38

SAMPLE ID: Hole 29-228 # 758

SUBMITTER: James Bay Co.

OPERATOR: Kaarina

SAMPLE TYPE: Clay

LIQUID TYPE: Water

ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1

START 14:17:56 11/10/89

REPRT 09:53:48 10/10/91

TOT RUN TIME 0:17:07

SAM DENS: 2.6500 g/cc

LIQ DENS: 0.9940 g/cc

LIQ VISC: 0.7204 cp

STARTING DIAMETER: 50.00 μ mENDING DIAMETER: 0.40 μ m

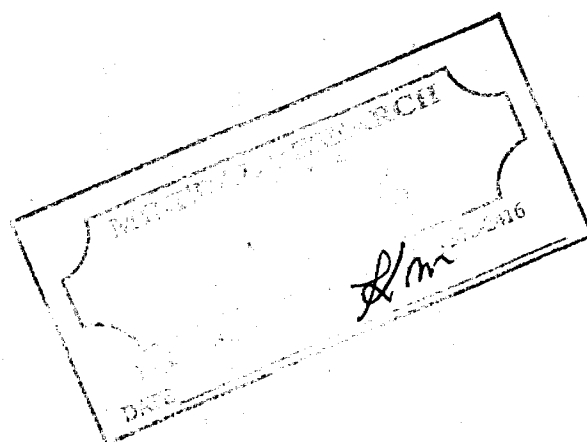
REYNOLDS NUMBER: 0.22

FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.55 μ mMODAL DIAMETER: 1.31 μ m

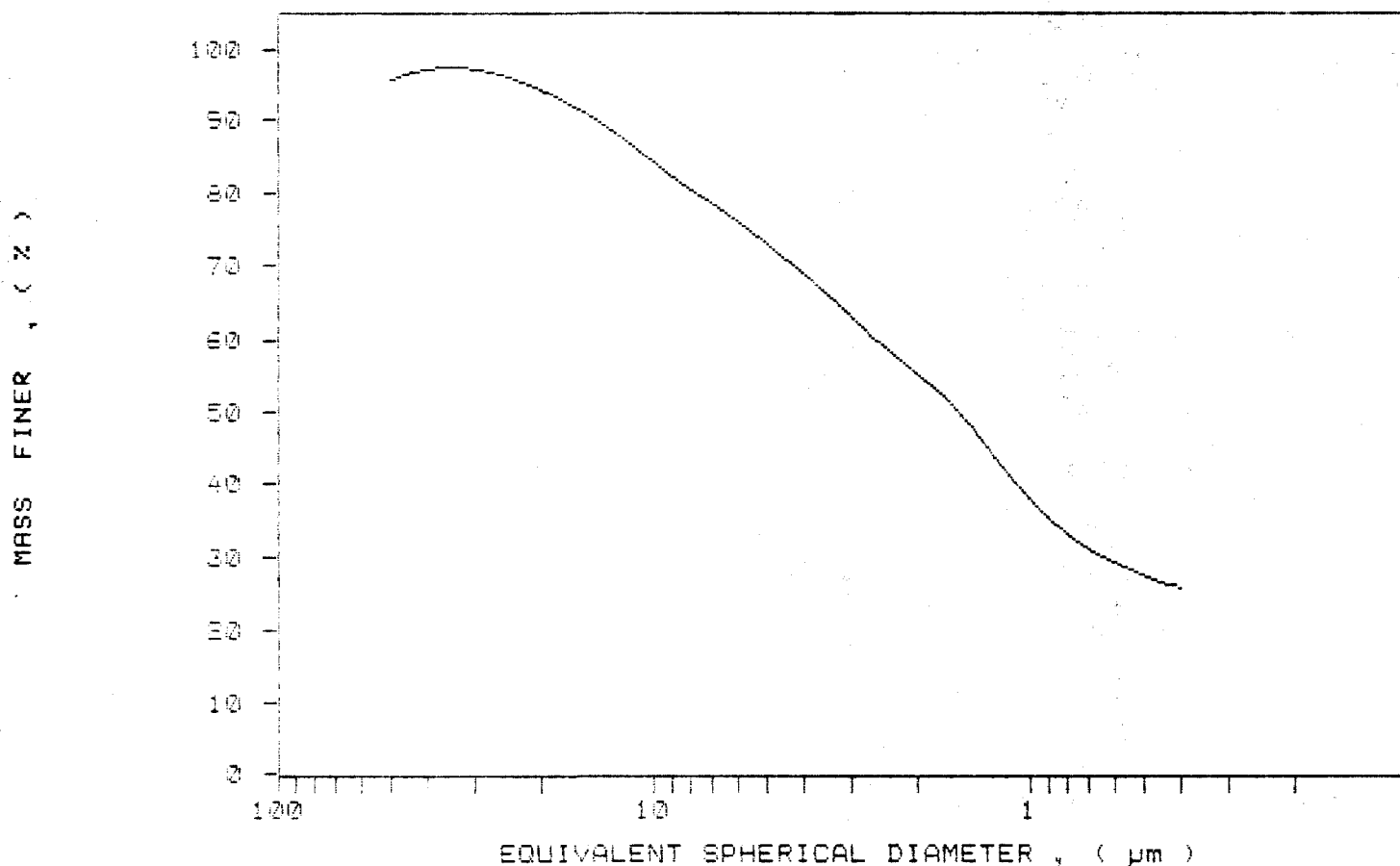
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	95.6	4.4
40.00	97.1	-1.5
30.00	97.1	-0.0
25.00	96.2	1.0
20.00	94.2	2.0
15.00	90.6	3.5
10.00	84.2	6.5
8.00	80.5	3.7
6.00	76.1	4.4
5.00	73.0	3.1
4.00	68.9	4.1
3.00	63.1	5.8
2.00	55.2	7.9
1.50	49.1	6.1
1.00	37.7	11.4
0.80	33.0	4.7
0.60	29.1	3.9
0.50	27.2	1.9
0.40	25.7	1.5



SAMPLE DIRECTORY/NUMBER: SECOND /38
SAMPLE ID: Hole 89-228 # 758
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: water
ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 14:17:56 11/10/89
REPRT 09:58:48 10/10/91
TOT RUN TIME 0:17:07
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7204 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /87
 SAMPLE ID: Hole 89-225 # 757
 SUBMITTER: James Ray Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 25.3 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 15:13:08 11/27/89
 REPR 09:46:13 10/10/91
 TOT RUN TIME 0:17:20
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9988 g/cc
 LIQ VISC: 0.7108 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

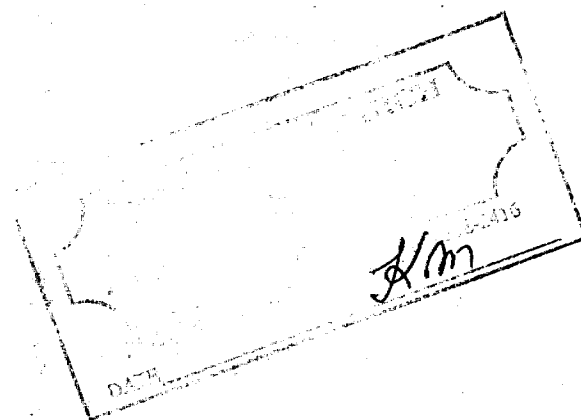
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.84 μ m

MODAL DIAMETER: 0.40 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	101.4	-1.4
40.00	99.2	2.2
30.00	97.5	1.7
25.00	96.0	1.5
20.00	93.7	2.4
15.00	90.1	3.6
10.00	86.5	3.6
8.00	83.6	3.2
6.00	78.4	5.2
5.00	75.1	3.3
4.00	70.8	4.4
3.00	65.2	5.5
2.00	57.2	7.9
1.50	52.2	5.1
1.00	44.3	7.9
0.80	40.2	4.0
0.60	35.0	5.2
0.50	31.1	3.9
0.40	24.5	6.6



SAMPLE DIRECTORY/NUMBER: SECOND /37

SAMPLE ID: Hole 89-228 # 757

SUBMITTER: James Bay Co.

OPERATOR: Kaarina

SAMPLE TYPE: Clay

LIQUID TYPE: Water

ANALYSIS TEMP: 35.8 deg C RUN TYPE: Standard

UNIT NUMBER: 1

START 15:13:08 11/27/89

REPRT 09:46:13 10/10/91

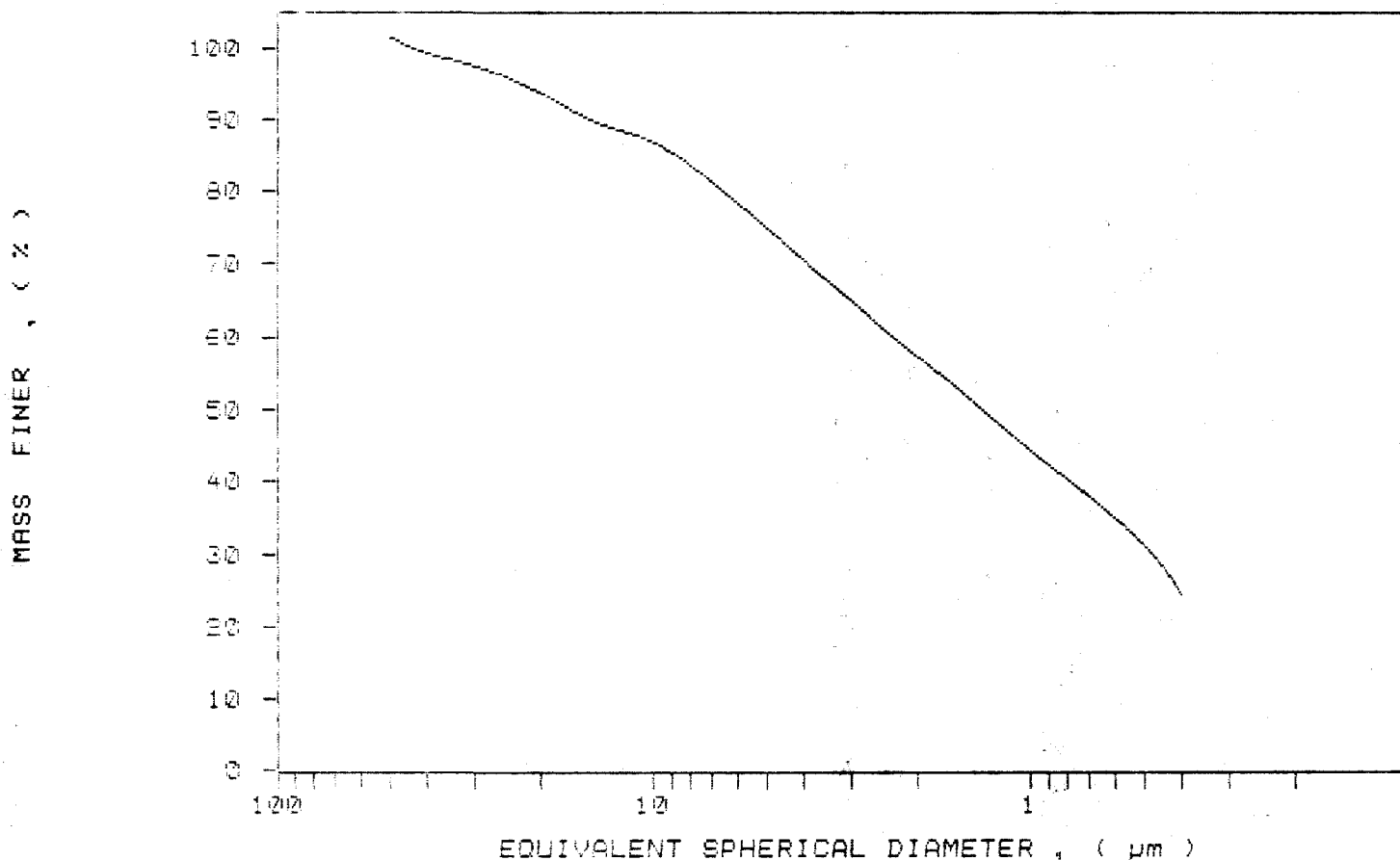
TOT RUN TIME 0:17:20

SAM DENS: 2.6500 g/cc

LIQ DENS: 0.9988 g/cc

LIQ VISC: 0.7108 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /36
 SAMPLE ID: Hole 89-228 # 756
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 25.9 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 11:31:37 12/08/89
 REPRT 09:41:52 10/10/91
 TOT RUN TIME 0:17:07
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9988 g/cc
 LIQ VISC: 0.7104 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

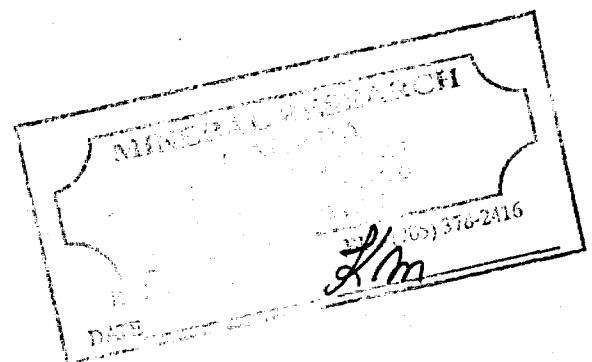
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.27 μ m

MODAL DIAMETER: 0.59 μ m

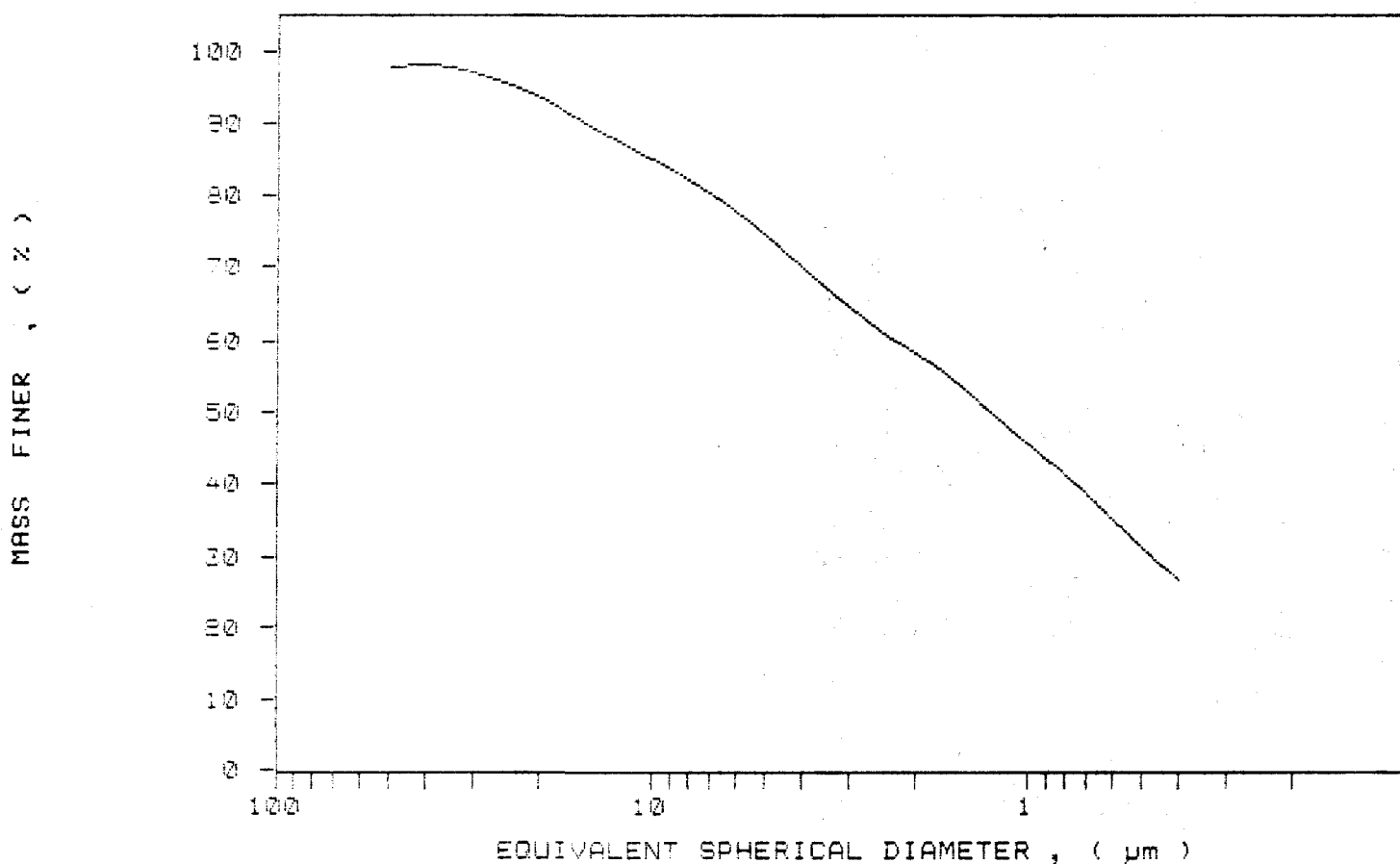
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	97.7	2.3
40.00	98.0	-0.4
30.00	97.0	1.1
25.00	95.6	1.4
20.00	93.6	2.1
15.00	89.8	3.8
10.00	84.9	4.9
8.00	82.0	2.8
6.00	77.7	4.4
5.00	74.4	3.3
4.00	69.9	4.5
3.00	64.5	5.4
2.00	58.1	6.3
1.50	53.4	4.8
1.00	45.4	8.0
0.80	41.2	4.2
0.60	35.2	6.1
0.50	31.1	4.0
0.40	26.7	4.4



SAMPLE DIRECTORY/NUMBER: SECOND /36
SAMPLE ID: Hole 89-228 # 756
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.9 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 11:31:37 12/08/89
REPRT 09:41:52 10/10/91
TOT RUN TIME 0:17:07
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9988 g/cc
LIQ VISC: 0.7104 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /35
 SAMPLE ID: Hole 89-229 # 755
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.8 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 14:10:37 11/27/89
 REPRT 09:37:29 10/10/91
 TOT RUN TIME 0:16:48
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9988 g/cc
 LIQ VISC: 0.7109 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

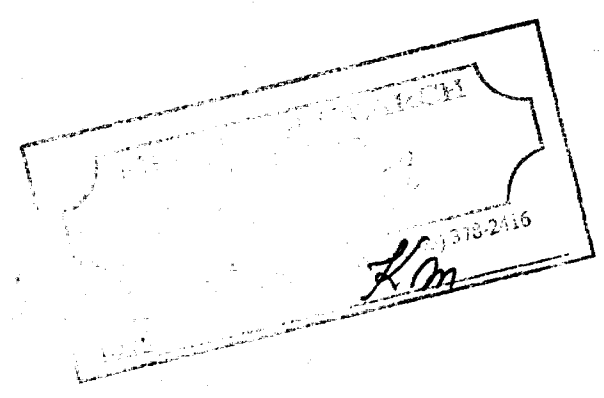
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 5.77 μ m

MODAL DIAMETER: 11.32 μ m

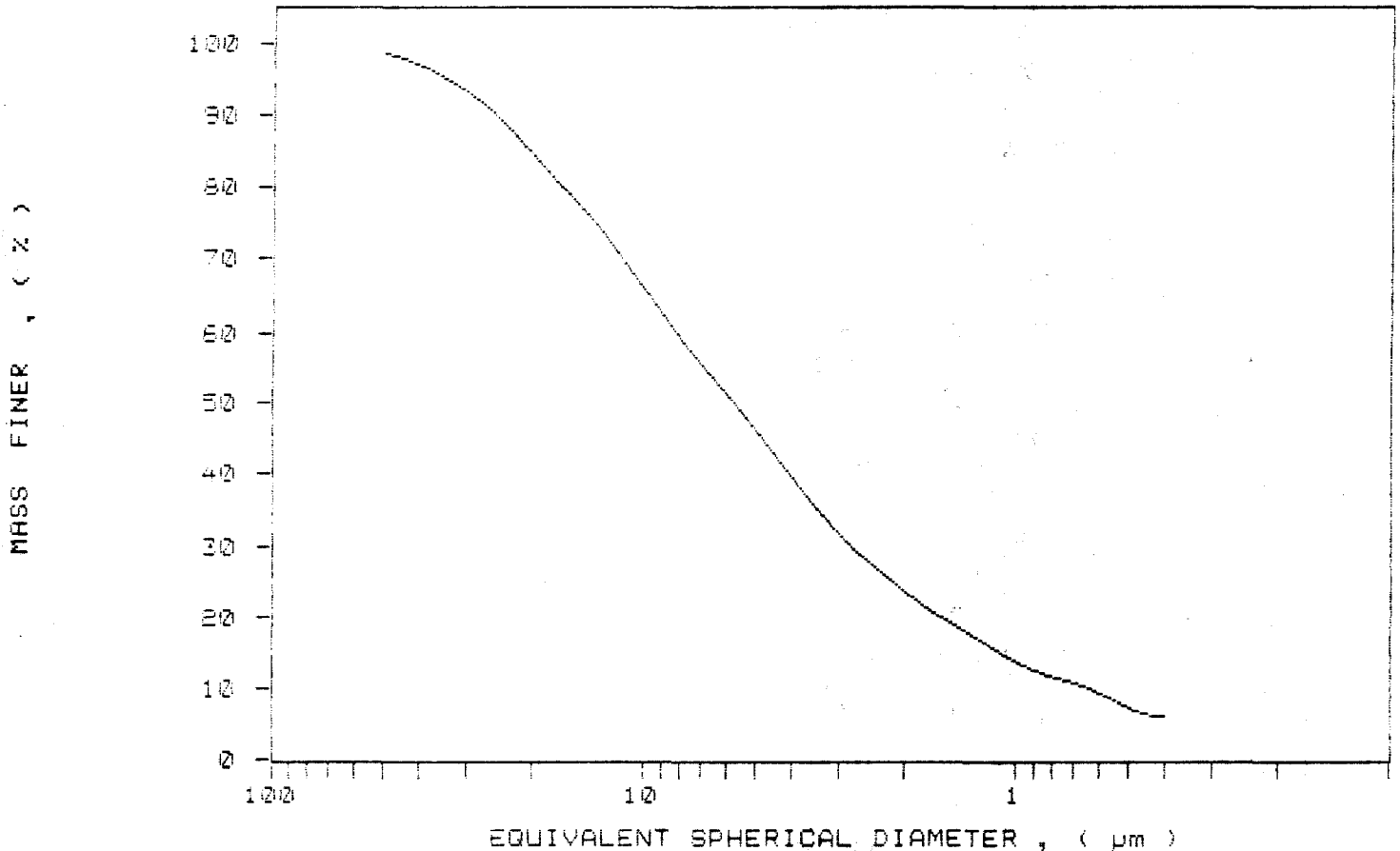
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.4	1.6
40.00	96.7	1.7
30.00	93.0	3.7
25.00	89.7	3.3
20.00	84.4	5.3
15.00	77.3	7.0
10.00	65.7	11.7
8.00	59.6	6.7
6.00	51.1	7.9
5.00	45.9	5.1
4.00	39.4	6.5
3.00	31.6	7.8
2.00	23.6	8.0
1.50	19.2	4.4
1.00	13.7	5.4
0.80	11.7	2.1
0.60	9.4	2.3
0.50	7.3	2.1
0.40	5.1	1.1



SAMPLE DIRECTORY/NUMBER: SECOND /35
SAMPLE ID: Hole 89-228 # 755
SUBMITTER: James Day Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.5 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 14:10:37 11/27/89
REPRT 09:37:29 10/10/91
TOT RUN TIME 0:16:48
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9938 g/cc
LIQ VISC: 0.7109 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /34
 SAMPLE ID: Hole 99-228 # 754
 SUBMITTER: James Bay Co.
 OPERATOR: Kearina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 25.2 deg C RUN TYPE: Standard

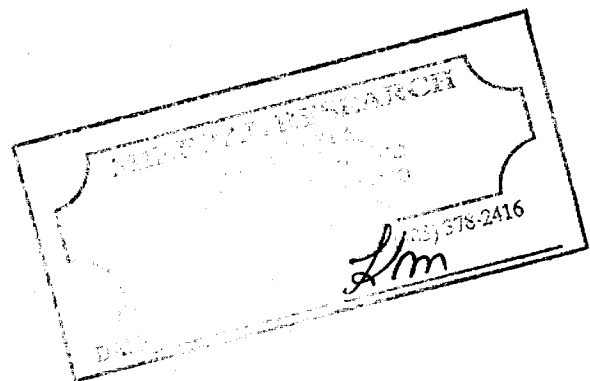
UNIT NUMBER: 1
 START 11:16:51 11/10/89
 REPRT 09:33:09 10/10/91
 TOT RUN TIME 0:17:11
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7203 cp

STARTING DIAMETER: 50.00 μ m REYNOLDS NUMBER: 0.22
 ENDING DIAMETER: 0.40 μ m FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.00 μ m MODAL DIAMETER: 0.40 μ m

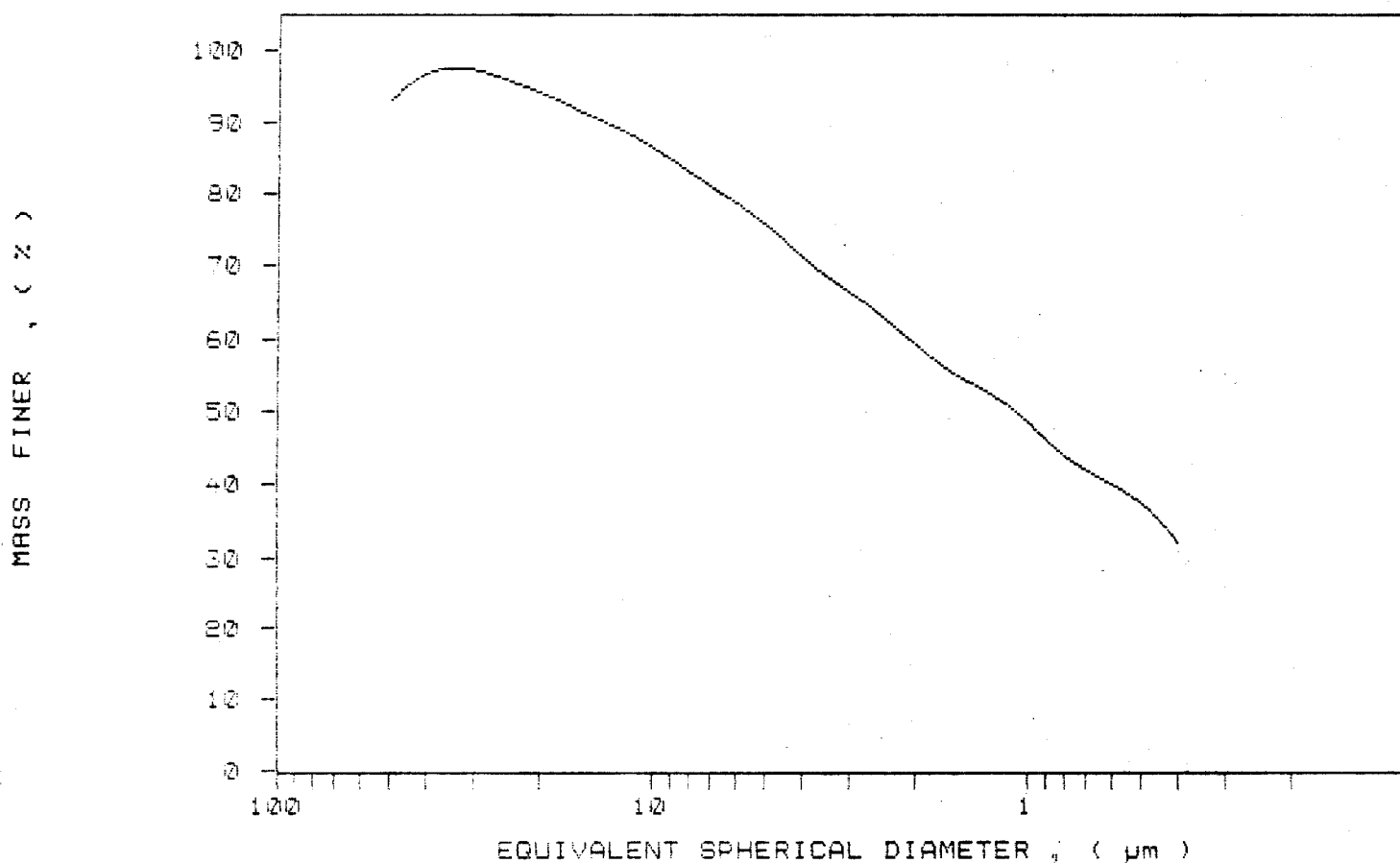
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.2	5.8
40.00	96.3	-3.6
30.00	97.2	-0.4
25.00	95.3	1.9
20.00	94.1	1.8
15.00	91.1	3.0
10.00	86.4	4.7
5.00	82.9	3.4
6.00	78.6	4.4
5.00	75.6	3.0
4.00	71.2	4.3
3.00	66.6	4.7
2.00	59.3	7.3
1.50	54.6	4.6
1.00	48.5	6.1
0.80	44.0	4.5
0.60	40.1	3.9
0.50	37.4	2.7
0.40	32.0	5.4



SAMPLE DIRECTORY/NUMBER: SECOND /34
SAMPLE ID: Hole 29-228 # 754
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 11:16:51 11/10/89
REPRT 09:33:09 10/10/91
TOT RUN TIME 0:17:11
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7203 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /35
 SAMPLe ID: Hole 89-228 # 756
 SUBMITTER: James bay Co.
 OPERATOR: Kaarina
 SAMPLe TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.8 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:01:37 12/08/89
 REPRT 09:28:46 10/10/91
 TOT RUN TIME 0:17:08
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9938 g/cc
 LIQ VISC: 0.7106 cp

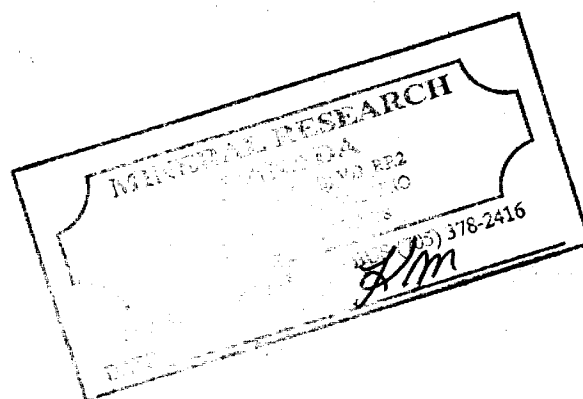
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.03 μ m MODAL DIAMETER: 4.10 μ m

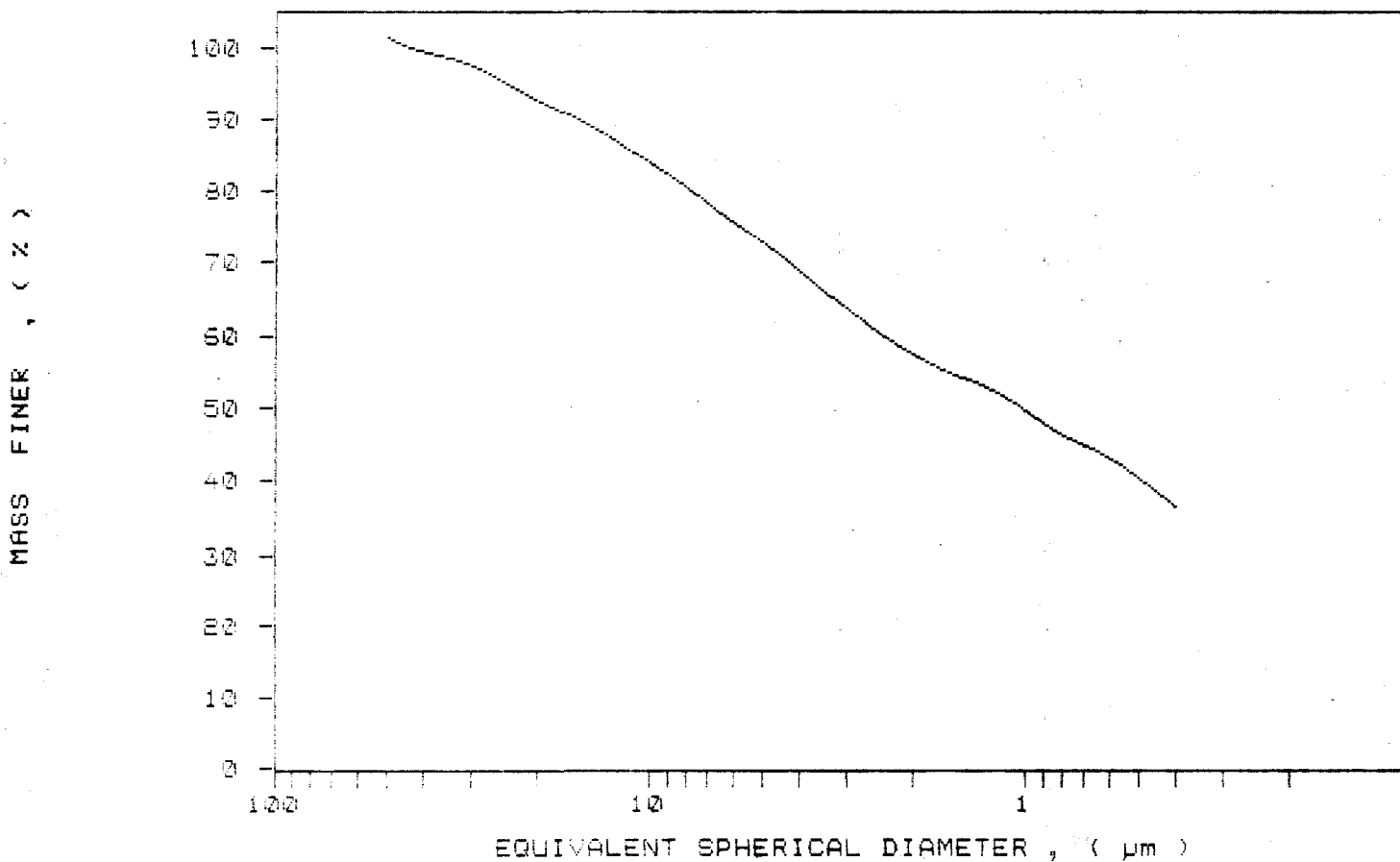
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	101.2	-1.2
40.00	99.3	2.0
30.00	97.4	1.8
25.00	95.4	2.1
20.00	92.6	2.8
15.00	89.4	3.1
10.00	63.7	5.7
8.00	60.4	3.4
6.00	75.5	4.9
5.00	72.7	2.7
4.00	68.7	4.1
3.00	63.7	5.0
2.00	57.4	6.6
1.50	54.4	3.0
1.00	49.5	4.8
0.80	46.2	3.3
0.60	43.1	3.1
0.50	40.3	2.8
0.40	36.4	3.9



SAMPLE DIRECTORY/NUMBER: SECOND /53
SAMPLE ID: Hole 29-228 # 752
SUBMITTER: James bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: water
ANALYSIS TEMP: 25.9 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 10:01:37 12/08/89
REPRT 09:28:46 10/10/91
TOT RUN TIME 0:17:08
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9938 g/cc
LIQ VISC: 0.7106 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /82
 SAMPLE ID: Hole 89-228 # 752
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 85.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:08:56 11/10/89
 REPRT 09:24:25 10/10/91
 TOT RUN TIME 0:17:16
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7204 cp

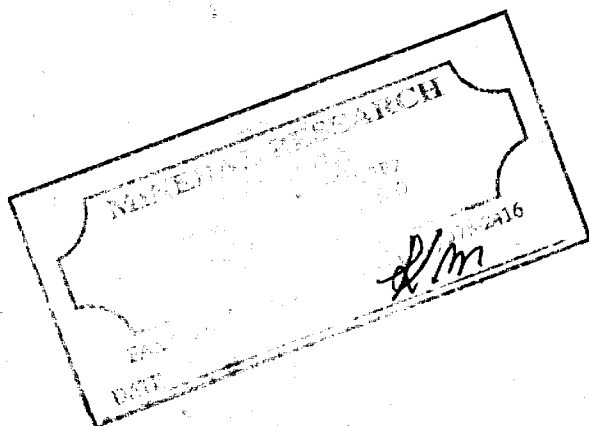
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 3.81 μ m MODAL DIAMETER: 4.52 μ m

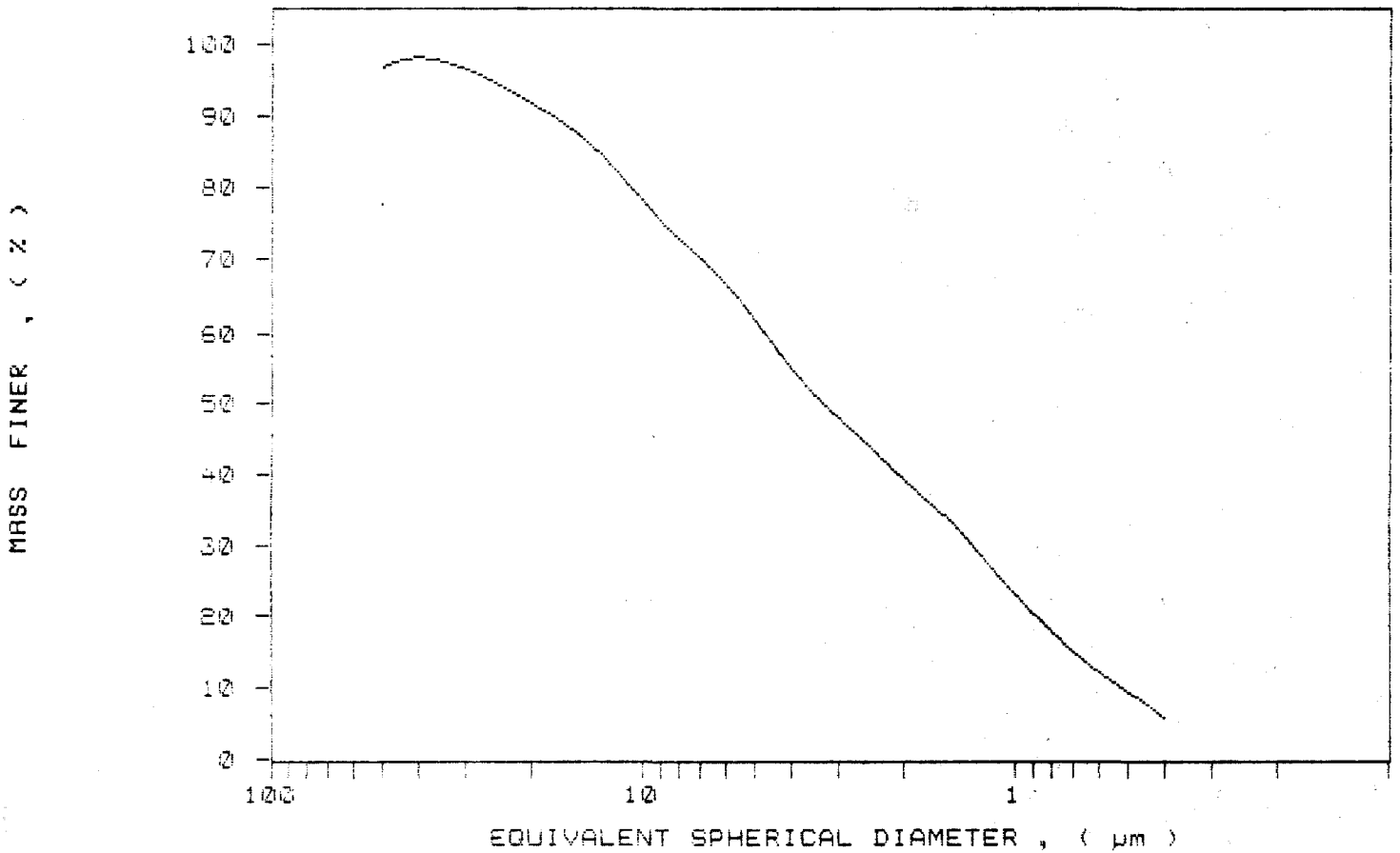
DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	36.6	3.2
40.00	98.0	-1.1
30.00	96.4	1.6
25.00	94.5	1.9
20.00	91.7	2.8
15.00	87.4	4.3
10.00	77.9	9.5
8.00	72.2	5.1
6.00	66.6	6.2
5.00	61.6	5.0
4.00	54.9	6.7
3.00	47.9	7.0
2.00	39.4	8.6
1.50	33.4	6.0
1.00	22.9	10.5
0.80	17.7	5.2
0.60	12.2	5.5
0.50	9.4	2.8
0.40	6.7	3.7



SAMPLE DIRECTORY/NUMBER: SECOND /32
SAMPLE ID: Hole 89-228 # 752
SUBMITTER: James Bay Co.
OPERATOR: Kaarina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 25.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 10:08:56 11/10/89
REPRT 09:24:25 10/10/91
TOT RUN TIME 0:17:16
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9941 g/cc
LIQ VISC: 0.7204 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



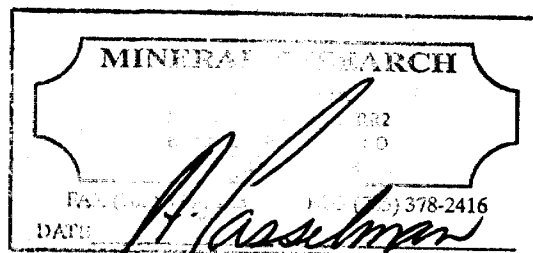
ROTARY DRILL HOLE RECORD

Drilling Started: November 10, 1988	Logged By: A. Casselman
Drilling Finished: November 11, 1988	Logged: Oct. 11, 1989
Property: Douglas/Kipling	Drilling Co. Midwest
Dip Collar: -90	Core Storage:
Core: 3.5"	Mineral Research Canada
Length: 223.0'	R. R. # 2
Overburden Depth: 60.0'	Parry Sound, On
Claim No.: Patented, T21584	P2A 2W8
Easting: 300 W	Hole Number: D88-7
Northing: 1295 N	

SUMMARY

From	To	Description
0.0'	3.0'	Peat
3.0'	60.0'	Glacial Clay Till Pleistocene - Overburden
60.0'	151.0'	Kaolin Silica Sand Cretaceous
151.0'	153.0'	Sandy Clay
153.0'	164.0'	Kaolin Silica Sand (kss)
164.0'	168.0'	Kss & Clay
168.0'	209.0'	Clay
209.0'	221.0'	Kss
221.0'	223.0'	Sandy Clay

EOH - 223.0'



N.B. - Field log indicates material to 250.0'

Detail Log D88-7

 FROM TO SAMPLE No. DESCRIPTION

0.0'	3.0'		Peat
3.0'	60.0'		Overburden
60.0'	65.0'	3251	Kss - medium grain, white, interbedded with darker clay-rich layers. 10.78% kaolin.
65.0'	68.0'	3252	Kss - as above. 8.78% kaolin.
68.0'	72.0'	3253	Kss - as above, fining downsection from coarse to medium, 0.5" - dolomitic clast, 1.0" granitic clast in coarse grain portion. 6.89% kaolin.
72.0'	76.0'	3254	Kss - coarse grain, white. 6.33% kaolin.
76.0'	80.0'	3255	Kss - medium grain, white, minor illite. 13.65% kaolin.
80.0'	84.0'	3256	Kss - medium grain, 83.0 - 84.0' - darker in colour, 2" clay clot, also wine coloured impurity banding. 22.71% kaolin.
84.0'	88.0'	3257	Kss - coarse grain, white, 84.0 - 84.25' - highly competent, large silica clasts - vari-coloured up to 1". 15.75% kaolin.
88.0	92.0	3258	Kss - as above, clay at 87.5' - contains light grey sandy laminations. 14.35% kaolin.
92.0	95.0	3259	Kss - 92.0 - 92.25' interbedded with sandy clay, medium grain, white, 92.5 - 95.0' sandy clay - grey, pliable, fine grain, minor illite and heavies. 17.65% kaolin.
95.0	100.0	3260	Kss - as above, no sandy clay. 11.80% kaolin.
100.0	104.0	3261	Kss - as above. 11.11% kaolin.
104.0	108.0	3262	Kss - as above. 10.66% kaolin.
108.0	111.0	3263	Kss - as above. 10.15% kaolin.
111.0	116.0	3264	Kss - as above. 10.13% kaolin.
116.0	121.0	3265	Kss - as above. 6.38% kaolin.

121.0 125.0 Kss - areas of clay enrichment, medium grain, white, entire hole dried.

125.0 128.0 Kss - medium grain, light grey.

128.0 131.0 Kss - medium grain grading to coarse grain, sub-rounded to sub-angular vari-coloured silica up to 1", white.

131.0 135.0 Kss - as above, coarse grain, some clay clotting up to 0.5", light brown.

135.0 139.0 Kss - as above, buff sandy clay seam from 136.0 -137.0' minor illite.

139.0 143.0 Kss - as above with some sandy clay seams up to 4" similar to previous.

143.0 147.0 Kss - as above from 143.0 -145.0, 145.0 - 149.0 material becomes light brown, fine grain, yellow/brown exterior due to contamination.

147.0 151.0 Kss - fine grain grading to medium grain, light brown.

151.0 153.0 Sandy Clay - competent, fissile, buff, minor illite, drill gouging.

153.0 159.0 Kss - fine grain, white, yellow/brown contamination, 155.0 -157.0 - moist - apparent illite and heavies as well as drilling debris, sulphureous smell.

159.0 161.0 Kss - as above, medium grain, larger amount of material for footage.

161.0 164.0 Kss - low clay content, medium grain, white with an yellow/brown exterior coating, minor heavies, pink/purple mould.

164.0 168.0 Clay & Kss - competent, coarse grain kss, 165.0 - 166.0' intense clay mottling, buff kss with light grey and yellow mottled clay from 164.0 - 165.0, 166.0 - 167.0 yellow and light grey mottled, 167.0 - 168.0' clay-rich kss, intensely yellow medium grain kss.

168.0 173.0 Clay - competent, disc-like, greasy, chocolate brown, carbonaceous, exterior kss contamination.

173.0 176.0 Clay - as above, some areas nearly black, some areas mangled.

176.0 179.0 Clay - competent, fissile, medium brown.

179.0 182.0 Clay - competent, fissile, light brown, yellow clotting.

182.0 185.0 Clay - competent, fissile, light grey and yellow mottled, reddish areas at lower bag contact.

185.0 189.0 Clay - competent, disc-like, greasy, medium brown, grading to chocolate brown to black to light brown with a higher silica content.

189.0 195.0 Clay - competent, fissile, medium red and light grey mottled, some yellow areas at lower contact with silty illitic light grey material.

195.0 200.0 Clay - silty upper section, competent, disc-like, light grey/yellow at 197.0' 1", red at 199.8 -200.0'.

200.0 203.0 Clay - competent, fissile, light grey and red mottled, some chocolate mottled into highly disrupted areas due to contamination.

203.0 209.0 Clay - competent, fissile, as above, 203.0 - 206.0', 206.0 - 209.0' chocolate brown, carbonaceous, illitic.

209.0 213.0 Kss - low clay content, dark yellow/brown, medium grain from 209.0 -211.0', primarily silica and hematite nodules, much heavy material, 211.0 -213.0' medium grey, illitic, fine grain, competent, fissile, sandy clay.

213.0 221.0 Weathered Rock Fragments - drill cut, highly fissile to highly friable, decomposed, up to 4" thick individual sections much associated hematitic staining (yellow - some limonitic also), mostly sandstone, medium grain granular gneissic, some BIF-like, some with laminated claystone sections, associated silica sand is yellow/brown with a low clay content, much hematite, some yellow clay clots adhering to the clasts, lower contact is apparently chloritic (green) with biotite materials.

221.0 223.0 Sandy Clay - competent, fissile, buff and black laminated due to highly carbonaceous content, carbonaceous, illitic.

EOH-223.0'

Section D88-7

Dip Collar: -90

Northing: 1295 N

Easting: 300 W

Length: 223.0'

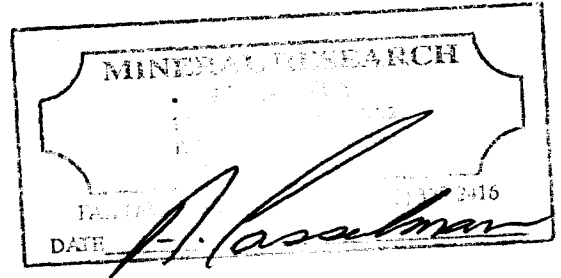
Overburden Depth: 60.0'

Claim No.: Patented, T21584

Scale: 1.0" = 50.0'

18 W

1600 W



D88-7

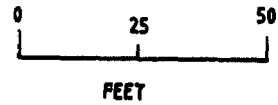


Silty Clay

Silice Sand

KSS

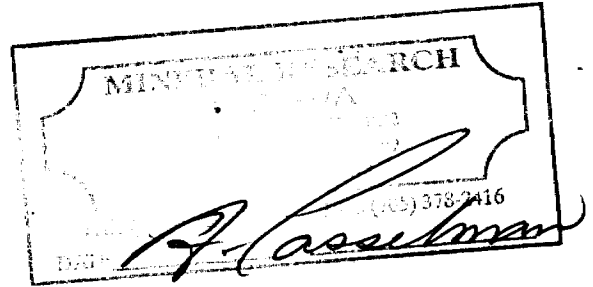
- Clay(yel-brn)
- Clay(choc brn,blk)
- Clay(lt brn-gry)
- Clay(grn/gry)
- Clay(choc brn,blk)
- Clay(red-brn/gry)
- Clay(gry)
- Clay(red-brn)
- Clay(brn,choc brn)
- Silice Sand
- Clay(blk)



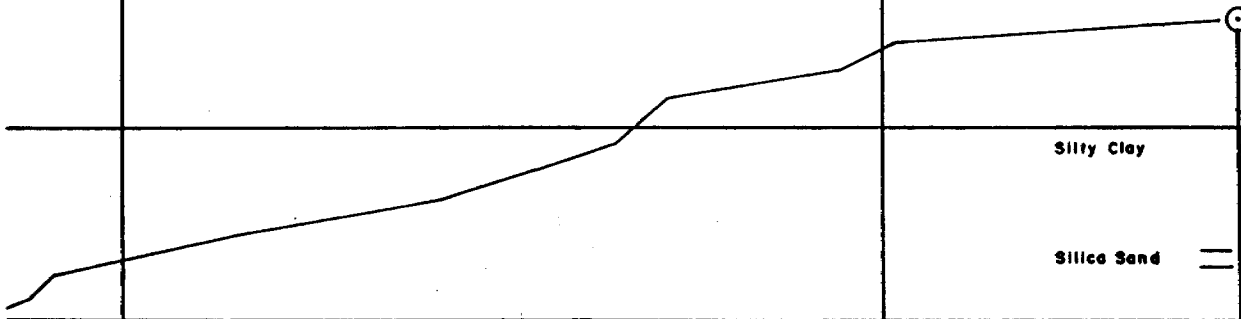
15' SOUTH

200Q W

1800 W



D88-7



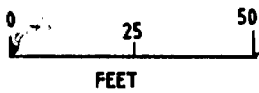
Silty Clay

Silica Sand

KSS

11.18%

- Clay(yel-brn)
- Clay(choc brn,blk)
- Clay(lt brn-gry)
- Clay(grn/gry)
- Clay(choc brn,blk)
- Clay(red-brn/gry)
- Clay(gry)
- Clay(red-brn)
- Clay(brn,choc brn)
- Silica Sand
- Clay(blk)



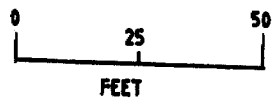
15' SOUTH

D88-7

- 3251
- 3252
- 3253

- 3254
- 3255

- 3256
- 3257
- 3258
- 3259
- 3260
- 3261
- 3262
- 3263
- 3264
- 3265



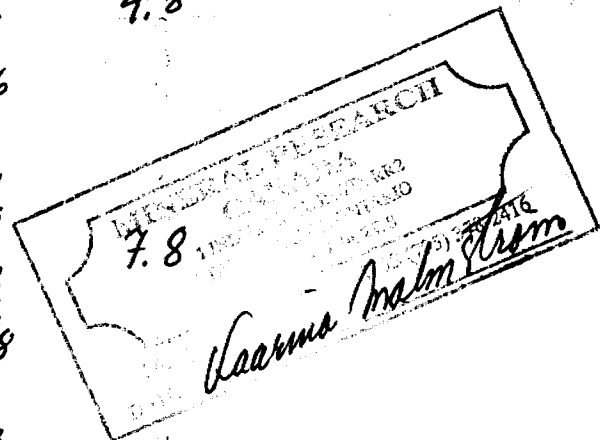
MINERAL RESEARCH CANADA

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

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
D 88-7 3251	+ 4	0	8.2	
	+ 40	12.5		
	+100	72.4		
	+200	4.6		
	+325	1.6		
	-325	8.9		
3252	+ 4	0	5.9	
	+ 40	60.2		
	+100	27.3		
	+200	2.8		
	+325	1.6		
	-325	8.1		
3253	+ 4	0.6	4.8	
	+ 40	55.9		
	+100	23.4		
	+200	4.7		
	+325	1.8		
	-325	13.6		
3254	+ 4	8.4	7.8	
	+ 40	29.0		
	+100	15.9		
	+200	7.3		
	+325	4.6		
	-325	34.8		
3255	+ 4	7.3	6.6	
	+ 40	67.1		
	+100	11.6		
	+200	2.2		
	+325	1.0		
	-325	10.8		



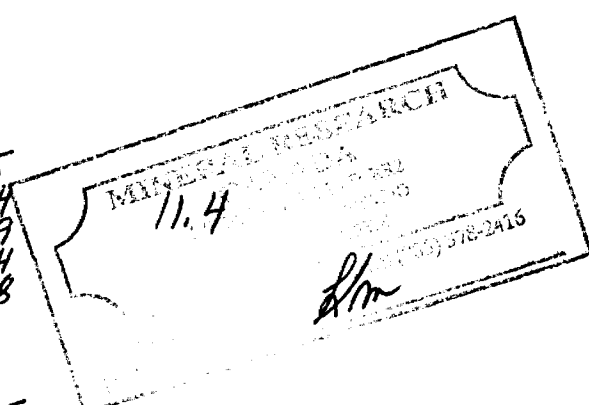
MINERAL RESEARCH CANADA

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

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
D 88-7 3256	+ 4	∅	11.6	
	+ 40	28.2		
	+100	41.9		
	+200	3.4		
	+325	1.7		
	-325	24.8		
3257	+ 4	11.0	12.0	
	+ 40	35.1		
	+100	13.1		
	+200	11.8		
	+325	0.1		
	-325	28.9		
3258	+ 4	5.6	7.5	
	+ 40	74.9		
	+100	8.1		
	+200	1.7		
	+325	0.9		
	-325	8.8		
3259	+ 4	∅	11.4	
	+ 40	0.5		
	+100	33.4		
	+200	28.9		
	+325	7.4		
	-325	29.8		
3260	+ 4	∅	7.7	
	+ 40	15.5		
	+100	62.6		
	+200	2.8		
	+325	1.2		
	-325	17.9		



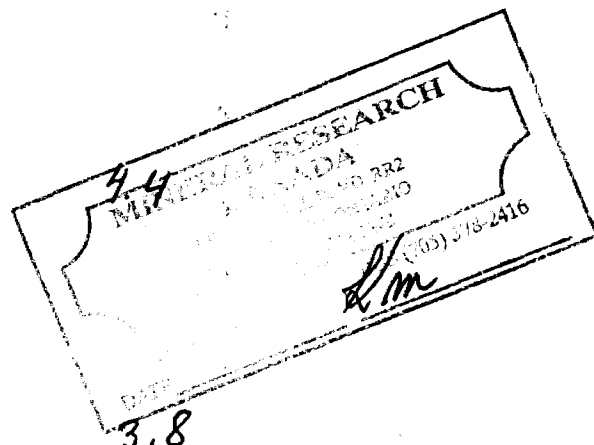
MINERAL RESEARCH CANADA

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

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
D 88-7 3261	+ 4	18.3	5.9	
	+ 40	52.6		
	+100	9.1		
	+200	2.1		
	+325	1.7		
	-325	16.2		
3262	+ 4	2	9.0	
	+ 40	41.3		
	+100	48.0		
	+200	0.3		
	+325	2.6		
	-325	7.8		
3263	+ 4	0.6	10.0	
	+ 40	53.7		
	+100	34.7		
	+200	1.2		
	+325	0.6		
	-325	9.2		
3264	+ 4	0.1	4.4	
	+ 40	70.2		
	+100	12.0		
	+200	3.1		
	+325	2.2		
	-325	12.5		
3265	+ 4	2	3.8	
	+ 40	78.0		
	+100	8.5		
	+200	2.2		
	+325	1.4		
	-325	9.9		



SAMPLE DIRECTORY/NUMBER: SECOND /62
 SAMPLE ID: Hole D 88-7 # 3265
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina Naolin
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

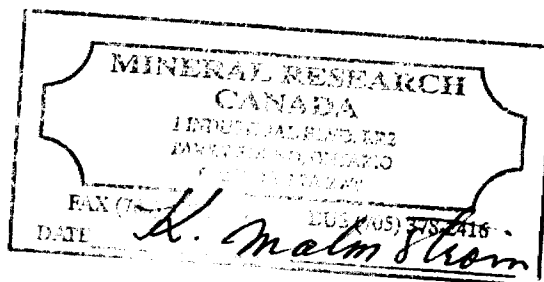
UNIT NUMBER: 1
 START 14:36:55 11/14/89
 REPR 09:29:56 10/16/91
 TOT RUN TIME 0:17:31
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7202 cp

STARTING DIAMETER: 50.00 μ m REYNOLDS NUMBER: 0.22
 ENDING DIAMETER: 0.40 μ m FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.56 μ m MODAL DIAMETER: 0.70 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	97.3	2.7
40.00	96.1	1.3
30.00	95.5	0.6
25.00	95.3	0.1
20.00	93.9	1.4
15.00	91.7	2.2
10.00	86.4	5.2
8.00	83.8	2.6
6.00	80.1	3.7
5.00	76.7	3.4
4.00	72.1	4.6
3.00	65.9	6.2
2.00	56.3	9.7
1.50	49.1	7.1
1.00	41.5	7.7
0.80	36.6	4.8
0.60	29.2	7.4
0.50	25.2	3.9
0.40	20.8	4.5



SAMPLE DIRECTORY/NUMBER: SECOND /61
 SAMPLE ID: Hole D 68-7 # 3264
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 25.2 deg C RUN TYPE: Standard

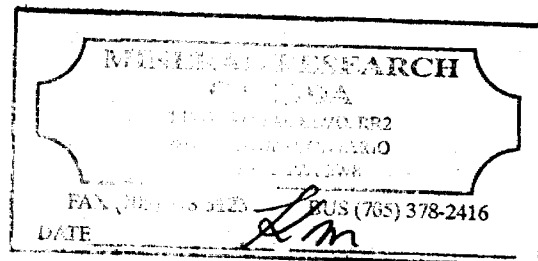
UNIT NUMBER: 1
 START 14:04:07 11/14/89
 REPRT 09:25:26 10/16/91
 TOT RUN TIME @:17:28
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7202 cp

STARTING DIAMETER: 50.00 µm REYNOLDS NUMBER: 0.22
 ENDING DIAMETER: 0.40 µm FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.12 µm MODAL DIAMETER: 0.40 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	37.2	2.8
40.00	37.6	-0.4
30.00	37.0	0.6
25.00	35.9	1.1
20.00	35.2	0.7
15.00	33.9	1.3
10.00	33.5	0.4
8.00	33.9	0.4
6.00	33.6	0.3
5.00	33.2	0.4
4.00	33.5	0.3
3.00	33.7	0.2
2.00	31.1	2.6
1.50	35.2	4.1
1.00	47.6	12.4
0.80	42.3	5.3
0.60	35.9	6.4
0.50	32.3	3.6
0.40	26.2	6.1



SAMPLE DIRECTORY/NUMBER: SECOND /61

SAMPLE ID: Hole D 88-7 # 3264

SUBMITTER: James Bay Co.

OPERATOR: Kaarina

SAMPLE TYPE: Clay

LIQUID TYPE: Water

ANALYSIS TEMP: 35.2 deg C

RUN TYPE: Standard

UNIT NUMBER: 1

START 14:04:07 11/14/89

REPRT 09:25:26 10/16/91

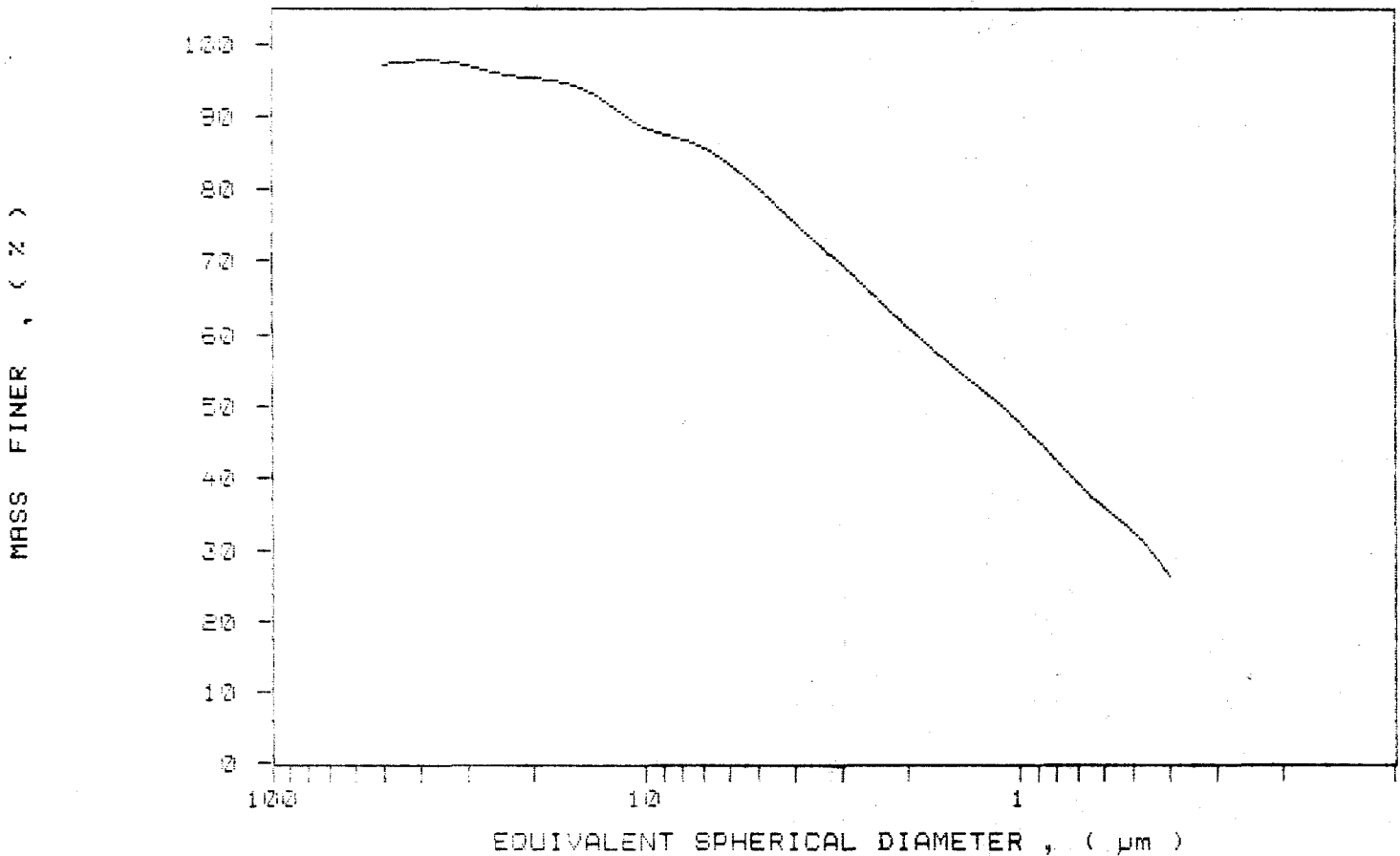
TOT RUN TIME 0:17:28

SAM DENS: 2.6500 g/cc

LID DENS: 0.9940 g/cc

LID VISC: 0.7202 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /60

SAMPLE ID: Hole D 88-7 # 3263

SUBMITTER: James Bay Co.

OPERATOR: Kaarina

SAMPLE TYPE: Clay

LIQUID TYPE: water

ANALYSIS TEMP: 35.2 deg C

RUN TYPE: Standard

UNIT NUMBER: 1

START 13:33:52 11/14/89

REPT 09:20:54 10/16/91

TOT RUN TIME 0:17:33

SAM DENS: 2.6500 g/cc

LIQ DENS: 0.9940 g/cc

LIQ VISC: 0.7202 cp

STARTING DIAMETER: 50.00 μm ENDING DIAMETER: 0.40 μm

REYNOLDS NUMBER: 0.22

FULL SCALE MASS %: 100

MASS DISTRIBUTION

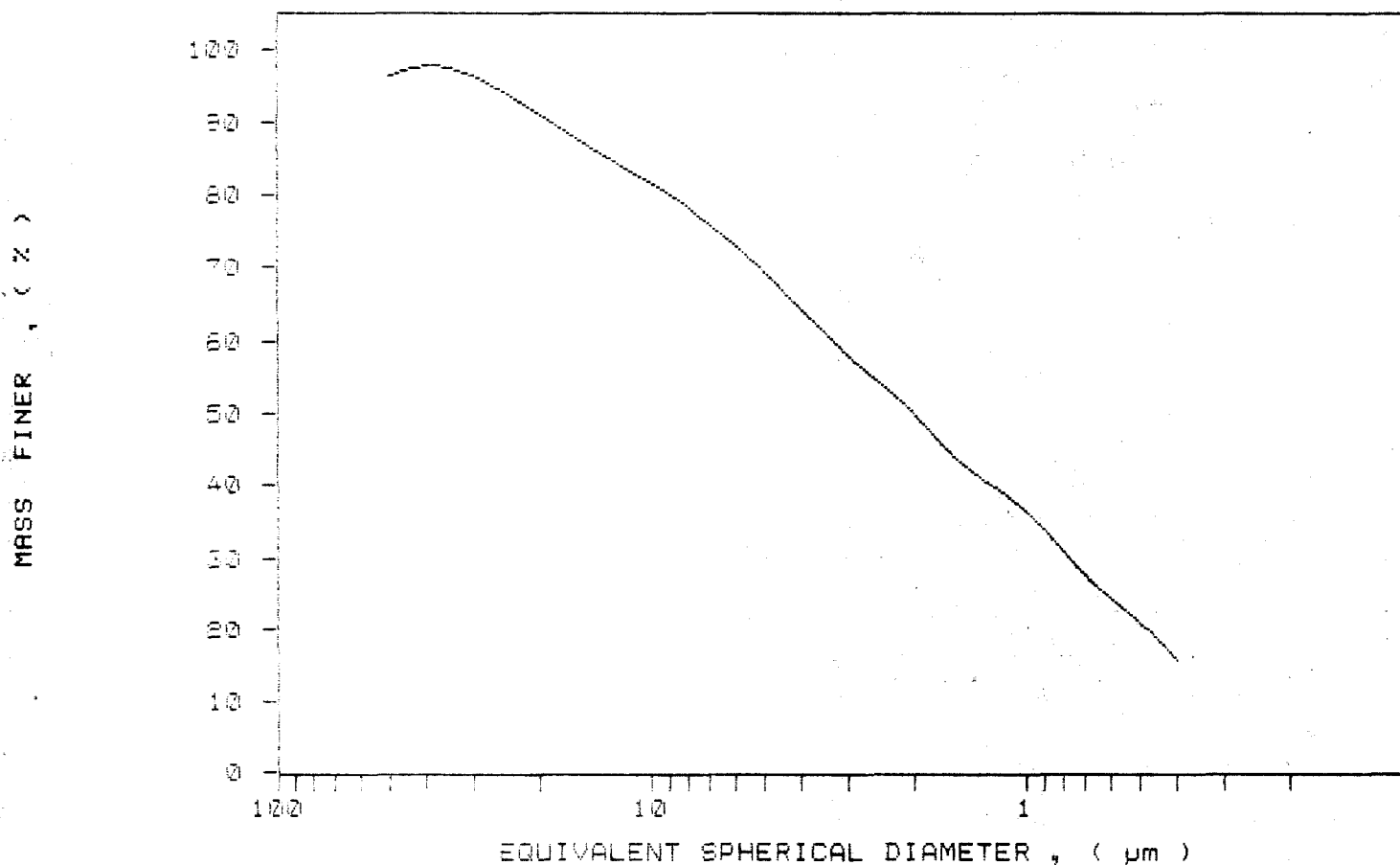
MEDIAN DIAMETER: 2.00 μm MODAL DIAMETER: 0.40 μm

DIAMETER (μm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	96.3	3.7
40.00	97.6	-1.3
30.00	96.2	1.4
25.00	94.2	2.0
20.00	91.2	3.0
15.00	87.0	4.2
10.00	81.6	5.4
8.00	78.4	3.2
6.00	73.2	5.3
5.00	69.5	3.7
4.00	64.4	5.1
3.00	58.0	6.4
2.00	50.0	8.1
1.50	46.2	6.7
1.00	36.4	6.9
0.80	30.9	5.5
0.60	24.4	6.5
0.50	20.9	3.5
0.40	15.6	5.3

MILLER RESEARCH	
LABORATORY	
1000 14th St S.E.	
Albuquerque, NM 87102	
TEL (505) 378-2416	
DATE	<i>L/m</i>

SAMPLE DIRECTORY/NUMBER: SECOND /60	UNIT NUMBER: 1
SAMPLE ID: Hole D 88-7 # 3263	START 13:33:52 11/14/89
SUBMITTER: James Bay Co.	REPRT 09:20:54 10/16/91
OPERATOR: Kaarina	TOT RUN TIME 0:17:33
SAMPLE TYPE: Clay	SAM DENS: 2.6500 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9940 g/cc
ANALYSIS TEMP: 25.2 deg C	LIQ VISC: 0.7202 cp
RUN TYPE: Standard	

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /59
 SAMPLE ID: Hole D 38-7 # 3262
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 13:03:18 11/14/89
 REPRT 09:16:23 10/16/91
 TOT RUN TIME 0:17:32
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7203 cp

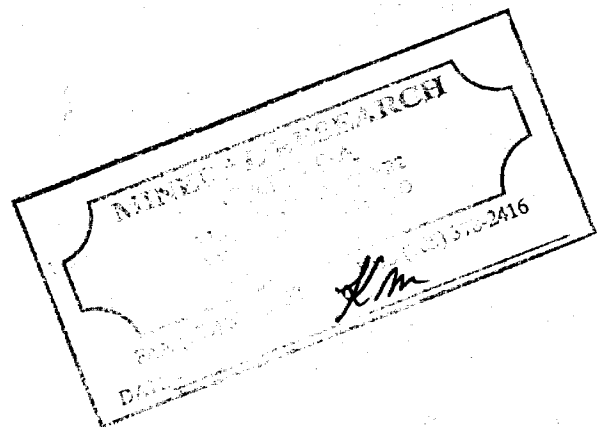
STARTING DIAMETER: 50.00 μm
 ENDING DIAMETER: 0.40 μm

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

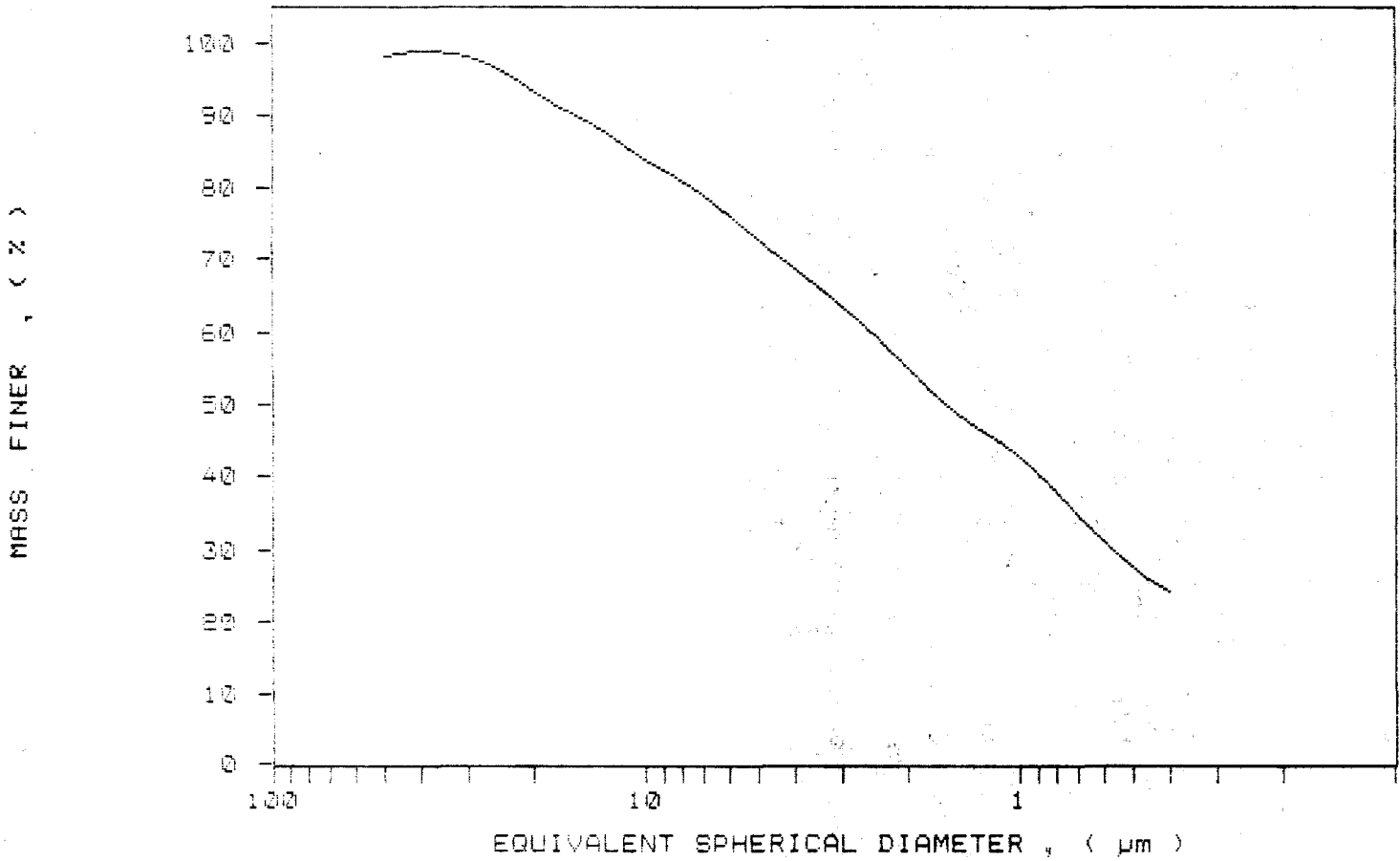
MEDIAN DIAMETER: 1.39 μm MODAL DIAMETER: 0.74 μm

DIAMETER (μm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.0	2.0
40.00	98.7	0.7
30.00	99.0	0.7
25.00	96.4	1.6
20.00	93.4	3.1
15.00	89.7	3.7
10.00	83.9	5.8
8.00	81.0	2.9
6.00	76.3	4.6
5.00	72.9	3.5
4.00	68.7	4.2
3.00	65.6	3.1
2.00	55.0	9.6
1.50	48.9	6.1
1.00	42.5	6.4
0.80	37.8	4.7
0.60	31.1	6.7
0.50	27.5	3.7
0.40	24.1	3.4



SAMPLE DIRECTORY/NUMBER: SECOND /59	UNIT NUMBER: 1
SAMPLE ID: Hole D 88-7 # 3262	START 13:03:18 11/14/89
SUBMITTER: James Bay Co.	REPRT 09:16:23 10/16/91
OPERATOR: Kaarina	TOT RUN TIME 0:17:32
SAMPLE TYPE: Clay	SAM DENS: 2.6500 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9940 g/cc
ANALYSIS TEMP: 35.2 deg C	LIQ VISC: 0.7203 cp
RUN TYPE: Standard	

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

SediGraph 5100 V2.05

PAGE 1

SAMPLE DIRECTORY/NUMBER: SECOND /58

SAMPLE ID: Hole D 68-7 # 3261

SUBMITTER: James Bay Co.

OPERATOR: Kaarina

SAMPLE TYPE: Clay

LIQUID TYPE: Water

ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1

START 12:04:22 11/14/89

REPT 09:11:53 10/16/91

TOT RUN TIME 0:17:30

SAM DENS: 2.6500 g/cc

LIQ DENS: 0.9940 g/cc

LIQ VISC: 0.7203 cp

STARTING DIAMETER: 50.00 μ m

ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22

FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.90 μ m

MODAL DIAMETER: 1.92 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	100.7	-0.7
40.00	99.5	1.2
30.00	95.8	3.7
25.00	94.3	1.5
20.00	91.7	2.6
15.00	87.5	4.2
10.00	82.6	4.9
8.00	79.3	3.3
6.00	74.7	4.7
5.00	71.4	3.2
4.00	67.3	4.1
3.00	61.7	5.6
2.00	52.8	8.9
1.50	45.9	6.9
1.00	39.2	6.7
0.80	33.9	5.4
0.60	27.6	6.3
0.50	24.6	3.0
0.40	20.5	4.1

MINERAL RESEARCH
CANADA
1 INDUSTRIAL BLVD. RR2
DANFORTH ONTARIO
M1S 1T5
FAX (416) 291-3782 (313) 378-2416
DATE _____ *Am*

SAMPLE DIRECTORY/NUMBER: SECOND /58

SAMPLE ID: Hole D 88-7 # 3261

SUBMITTER: James Bay Co.

OPERATOR: Kaarina

SAMPLE TYPE: Clay

LIQUID TYPE: Water

ANALYSIS TEMP: 35.2 deg C

RUN TYPE: Standard

UNIT NUMBER: 1

START 12:04:22 11/14/89

REPRT 09:11:53 10/16/91

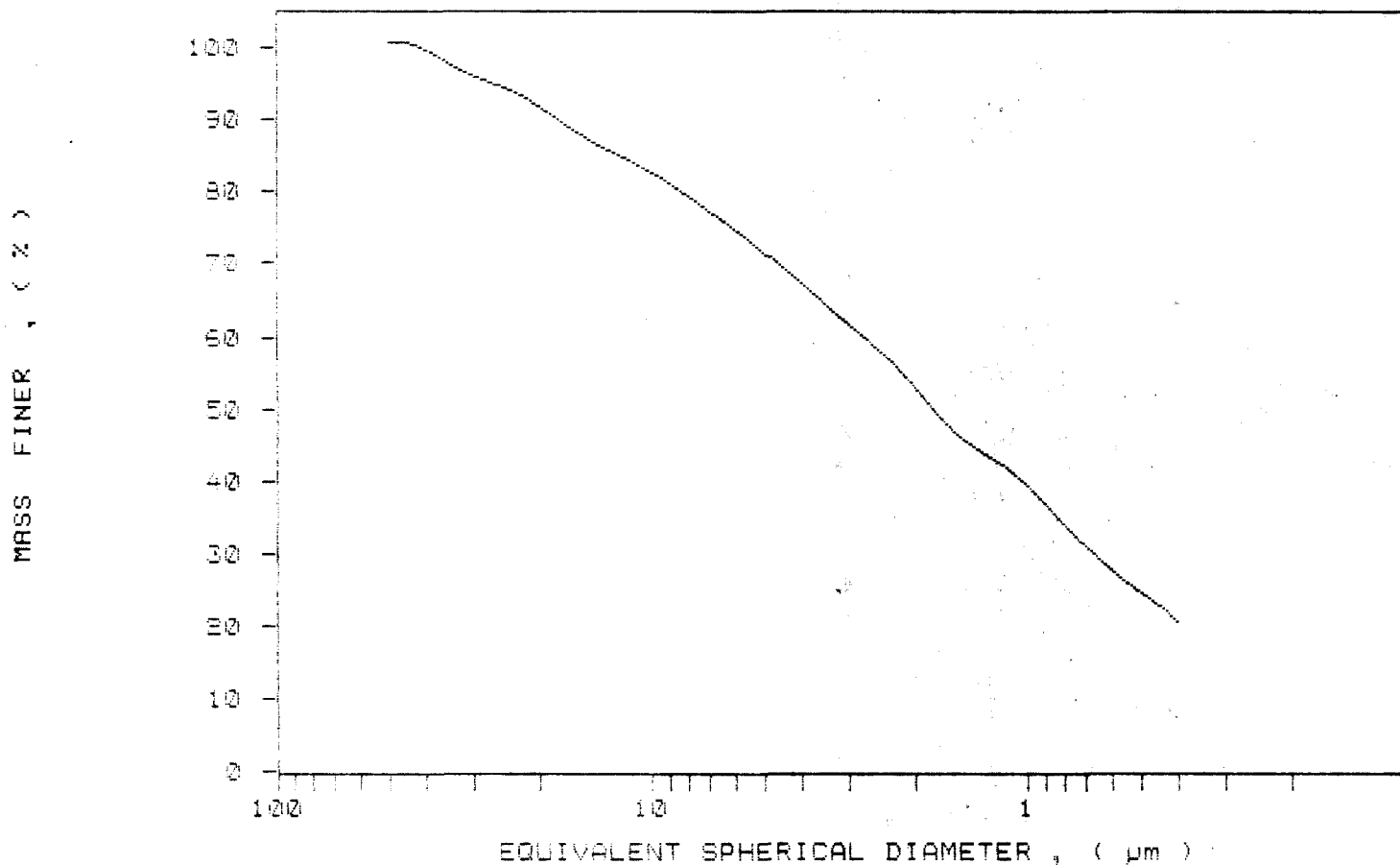
TOT RUN TIME 0:17:30

SAM DENS: 2.6500 g/cc

LIQ DENS: 0.9940 g/cc

LIQ VISC: 0.7203 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /57

SAMPLE ID: Hole 89-87 # 2835

SUBMITTER: James Bay Co.

OPERATOR: Kaarina

SAMPLE TYPE: Clay

LIQUID TYPE: Water

ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1

START 11:34:28 11/14/89

REPRT 09:07:22 10/16/91

TOT RUN TIME 0:17:31

SAM DENS: 2.6500 g/cc

LIQ DENS: 0.9940 g/cc

LIQ VISC: 0.7202 cp

STARTING DIAMETER: 50.00 μ mENDING DIAMETER: 0.40 μ m

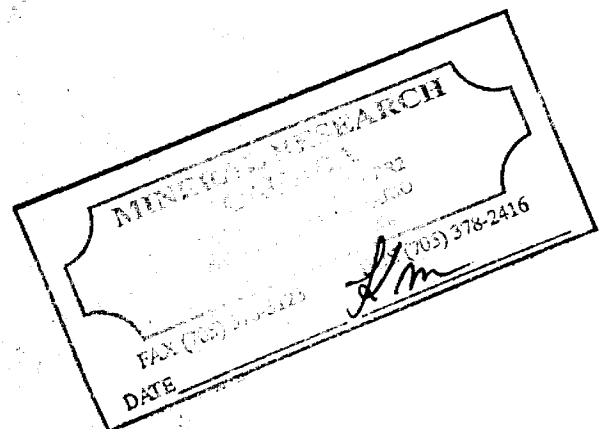
REYNOLDS NUMBER: 0.22

FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.73 μ mMODAL DIAMETER: 0.40 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	94.5	5.5
40.00	95.5	-1.0
30.00	96.8	-1.3
25.00	95.9	0.9
20.00	92.7	3.3
15.00	88.2	4.5
10.00	84.4	3.8
8.00	82.1	2.4
6.00	78.1	4.0
5.00	73.5	4.6
4.00	68.4	5.1
3.00	61.8	6.5
2.00	52.8	8.5
1.50	46.5	5.8
1.00	29.0	7.5
0.80	33.6	5.4
0.60	27.7	5.9
0.50	23.2	3.9
0.40	17.4	6.4



SAMPLE DIRECTORY/NUMBER: SECOND /57

SAMPLE ID: Hole 99-87 # 2885

SUBMITTER: James Bay Co.

OPERATOR: Kaarina

SAMPLE TYPE: Clay

LIQUID TYPE: Water

ANALYSIS TEMP: 35.2 deg C

RUN TYPE: Standard

UNIT NUMBER: 1

START 11:34:28 11/14/89

REPR 09:07:22 10/16/91

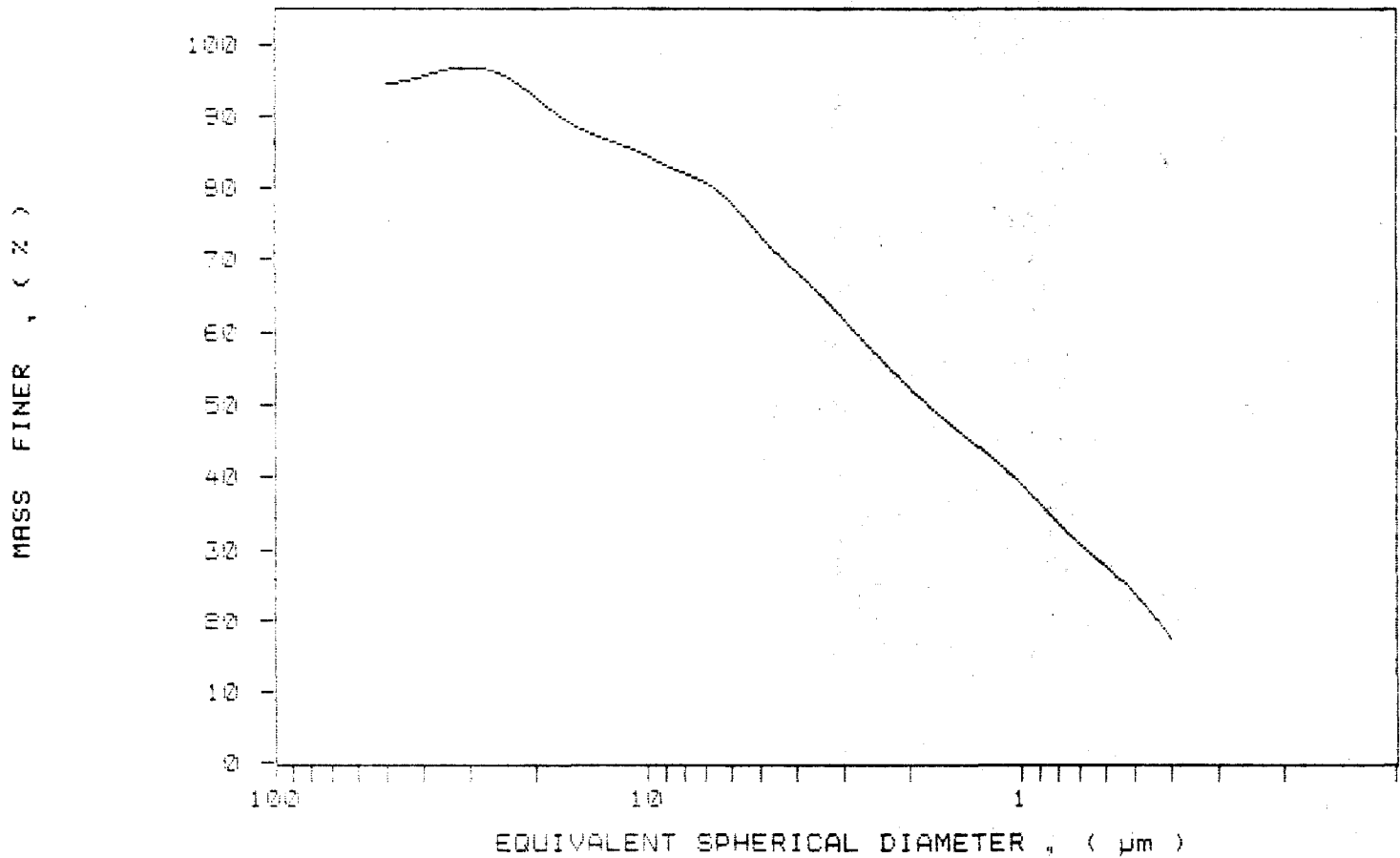
TOT RUN TIME 0:17:31

SAM DENS: 2.6500 g/cc

LIQ DENS: 0.9940 g/cc

LIQ VISC: 0.7202 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

SediGraph 5100 V2.03

PAGE 1

SAMPLE DIRECTORY/NUMBER: SECOND /56
 SAMPLE ID: Hole D 88-7 # 8259
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

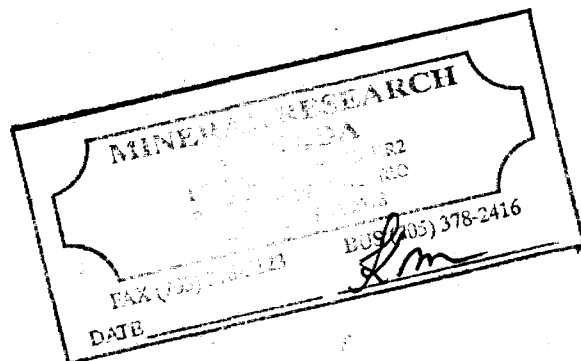
UNIT NUMBER: 1
 START 11:00:18 11/14/89
 REPT 09:02:53 10/16/91
 TOT RUN TIME 0:17:32
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7203 cp

STARTING DIAMETER: 50.00 μ m REYNOLDS NUMBER: 0.22
 ENDING DIAMETER: 0.40 μ m FULL SCALE MASS %: 100

MASS DISTRIBUTION

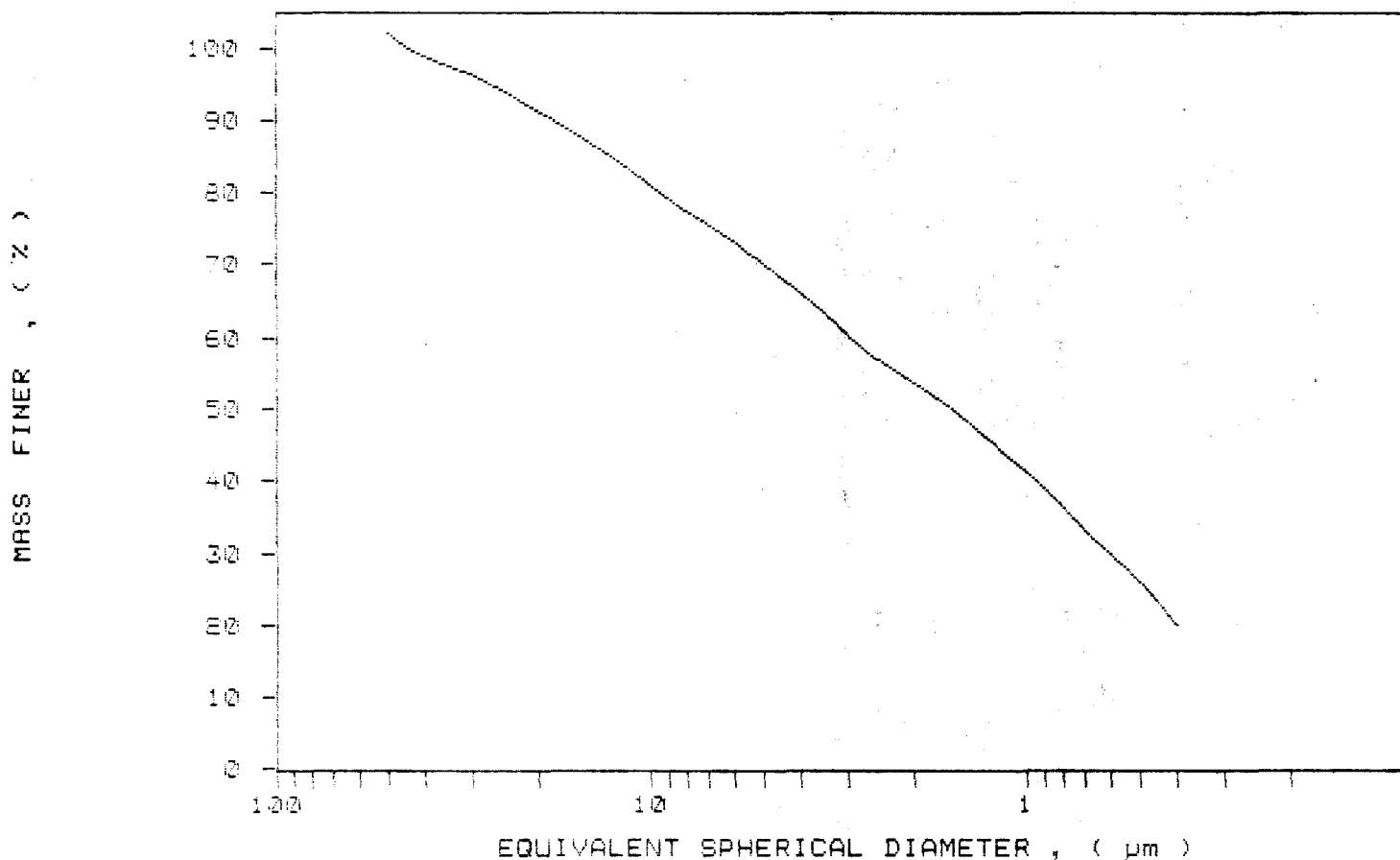
MEDIAN DIAMETER: 1.59 μ m MODAL DIAMETER: 0.40 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	101.9	-1.9
40.00	98.7	3.2
30.00	96.2	2.6
25.00	94.1	2.0
20.00	91.2	2.9
15.00	87.9	3.9
10.00	80.9	6.4
8.00	77.4	3.5
6.00	73.1	4.3
5.00	70.0	3.2
4.00	66.1	3.9
3.00	60.3	5.8
2.00	53.6	6.7
1.50	48.9	4.6
1.00	41.1	7.9
0.80	36.2	4.9
0.60	29.7	6.5
0.50	25.8	3.9
0.40	19.8	6.0



SAMPLE DIRECTORY/NUMBER: SECOND /56	UNIT NUMBER: 1
SAMPLE ID: Hole D 88-7 # 3259	START 11:00:18 11/14/89
SUBMITTER: James Bay Co.	REPRT 09:02:53 10/16/91
OPERATOR: Kaarina	TOT RUN TIME 0:17:32
SAMPLE TYPE: Clay	SAM DENS: 2.6500 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9940 g/cc
ANALYSIS TEMP: 35.2 deg C	LIQ VISC: 0.7203 cp
RUN TYPE: Standard	

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /55
 SAMPLE ID: Hole D 88-7 # 3258
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:29:47 11/14/89
 REPRT 08:58:24 10/16/91
 TOT RUN TIME 0:17:32
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7203 cp

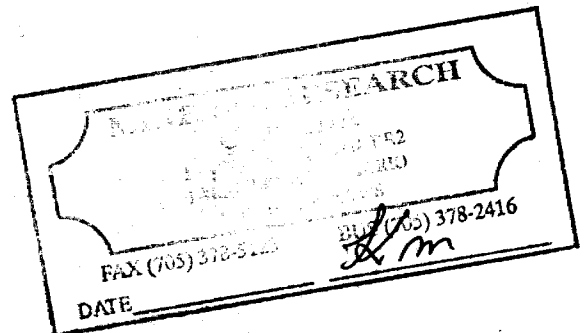
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

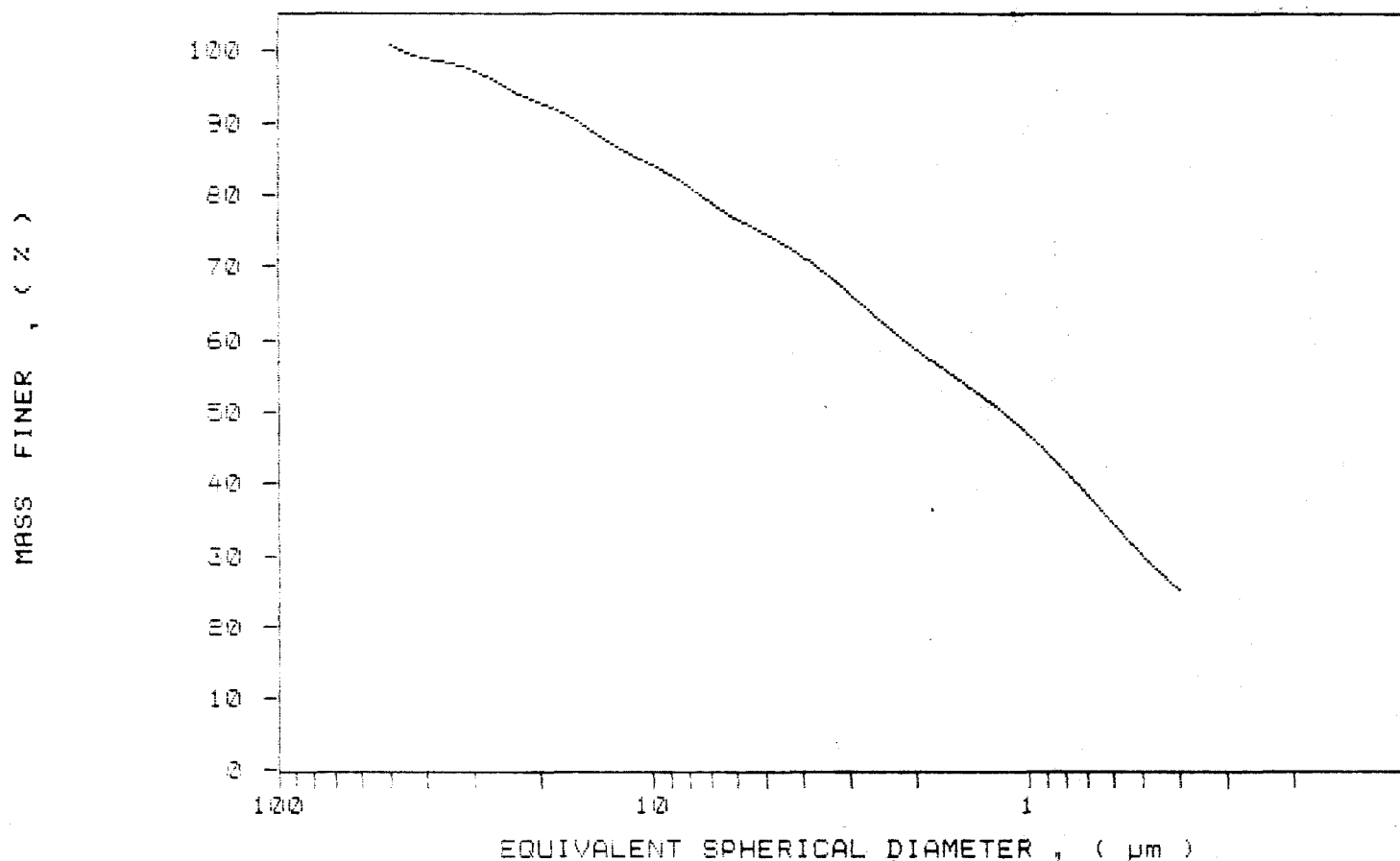
MEDIAN DIAMETER: 1.19 μ m MODAL DIAMETER: 0.59 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	100.7	-0.7
40.00	98.7	1.9
30.00	97.1	1.6
25.00	94.9	2.2
20.00	92.7	2.3
15.00	89.4	3.3
10.00	84.1	5.2
8.00	81.1	3.1
6.00	76.8	4.3
5.00	74.6	2.1
4.00	71.5	3.2
3.00	66.3	5.2
2.00	58.5	7.5
1.50	55.8	4.5
1.00	46.6	7.2
0.80	41.4	5.2
0.60	34.4	7.0
0.50	29.3	4.6
0.40	25.2	4.6



SAMPLE DIRECTORY/NUMBER: SECOND /55	UNIT NUMBER: 1
SAMPLE ID: Hole D 08-7 # 3258	START 10:29:47 11/14/89
SUBMITTER: James Bay Co.	REPRT 08:58:24 10/16/91
OPERATOR: Kaarina	TOT RUN TIME 0:17:32
SAMPLE TYPE: Clay	SAM DENS: 2.6500 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9940 g/cc
ANALYSIS TEMP: 35.2 deg C	LIQ VISC: 0.7203 cp
RUN TYPE: Standard	

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /54
 SAMPLE ID: Hole D 28-7 # 3257
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 09:58:47 11/14/89
 REPT 08:53:55 10/16/91
 TOT RUN TIME 0:17:35
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7203 cp

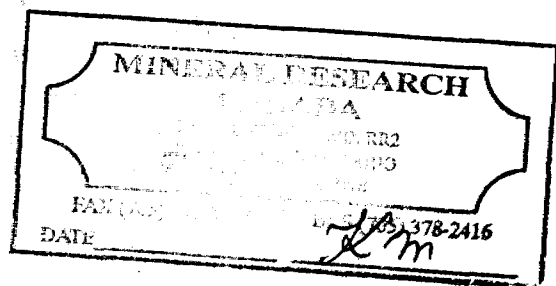
STARTING DIAMETER: 50.00 µm
 ENDING DIAMETER: 0.40 µm

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

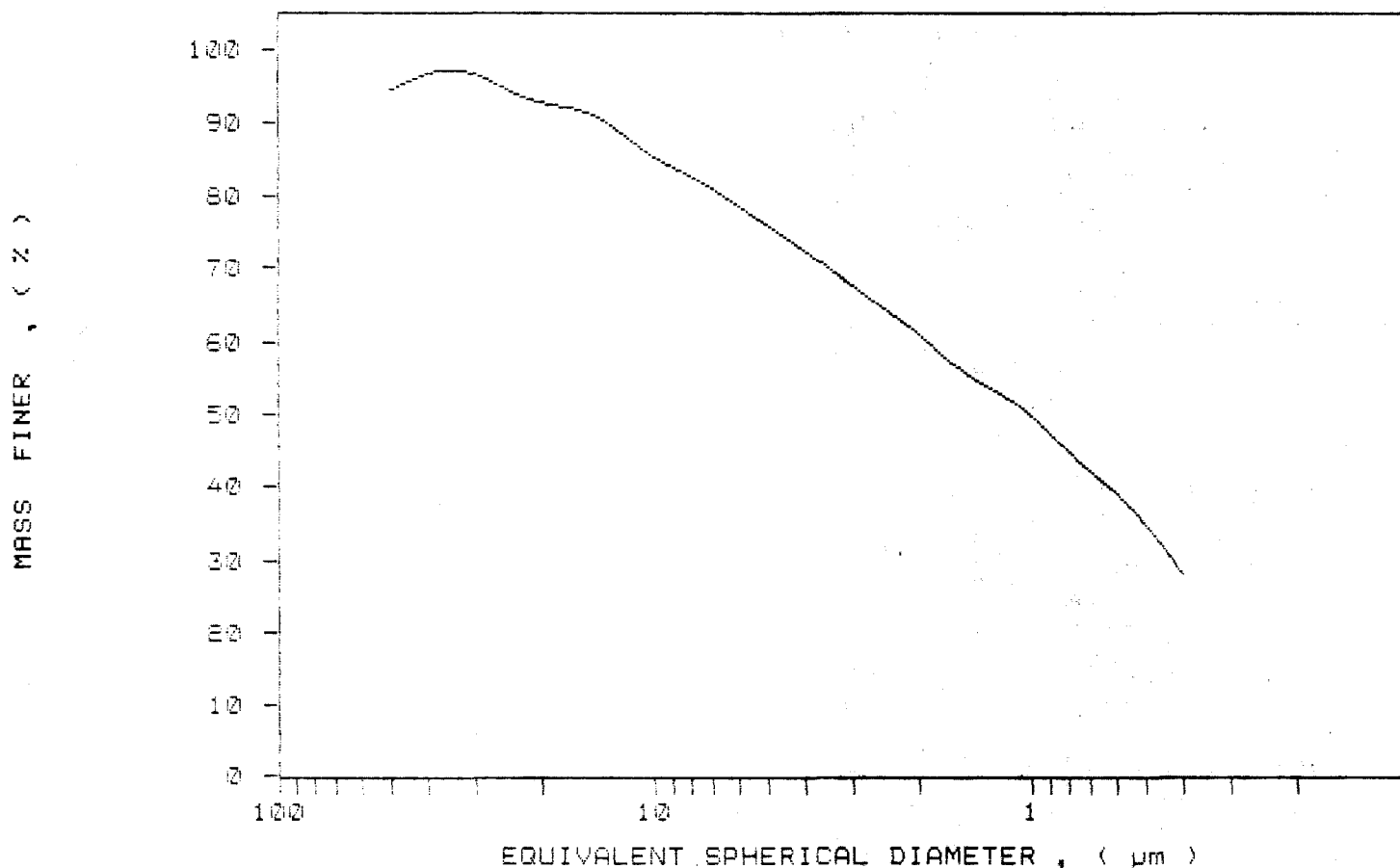
MEDIAN DIAMETER: 1.02 µm MODAL DIAMETER: 0.40 µm

DIAMETER (µm)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	94.5	5.5
40.00	95.6	1.2
30.00	96.6	1.0
25.00	94.7	1.9
20.00	92.7	2.0
15.00	91.3	1.5
10.00	85.3	6.0
8.00	82.7	2.6
6.30	78.7	4.1
5.00	75.9	2.7
4.00	72.3	3.4
3.00	67.7	4.8
2.00	61.0	6.7
1.50	55.6	5.4
1.00	49.6	6.0
0.80	44.7	4.9
0.60	39.0	5.6
0.50	34.7	4.4
0.40	27.6	6.9



SAMPLE DIRECTORY/NUMBER: SECOND /54	UNIT NUMBER: 1
SAMPLE ID: Hole D 88-7 # 3257	START 09:58:47 11/14/89
SUBMITTER: James Bay Co.	REPRT 08:53:55 10/16/91
OPERATOR: Kaarina	TOT RUN TIME 0:17:35
SAMPLE TYPE: Clay	SAM DENS: 2.6500 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9940 g/cc
ANALYSIS TEMP: 35.2 deg C	LIQ VISC: 0.7203 cp
RUN TYPE: Standard	

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

SediGraph 5100 V2.03

PAGE 1

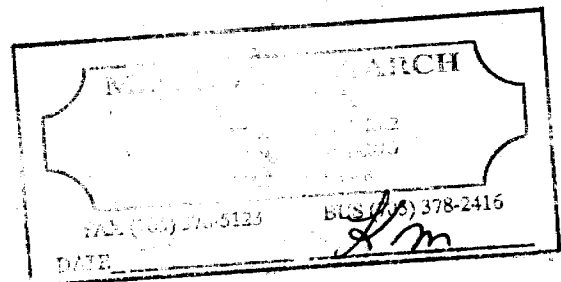
SAMPLE DIRECTORY/NUMBER: SECOND /53 UNIT NUMBER: 1
 SAMPLE ID: Hole D 88-7 # 3256 START 09:27:04 11/14/89
 SUBMITTER: James Bay Co. REPRT 08:49:26 10/16/91
 OPERATOR: Kaarina TOT RUN TIME 0:16:56
 SAMPLE TYPE: Clay SAM DENS: 2.6500 g/cc
 LIQUID TYPE: Water LIQ DENS: 0.9940 g/cc
 ANALYSIS TEMP: 35.2 deg C RUN TYPE: Standard LIQ VISC: 0.7203 cp

STARTING DIAMETER: 50.00 μ m REYNOLDS NUMBER: 0.22
 ENDING DIAMETER: 0.40 μ m FULL SCALE MASS %: 100

MASS DISTRIBUTION

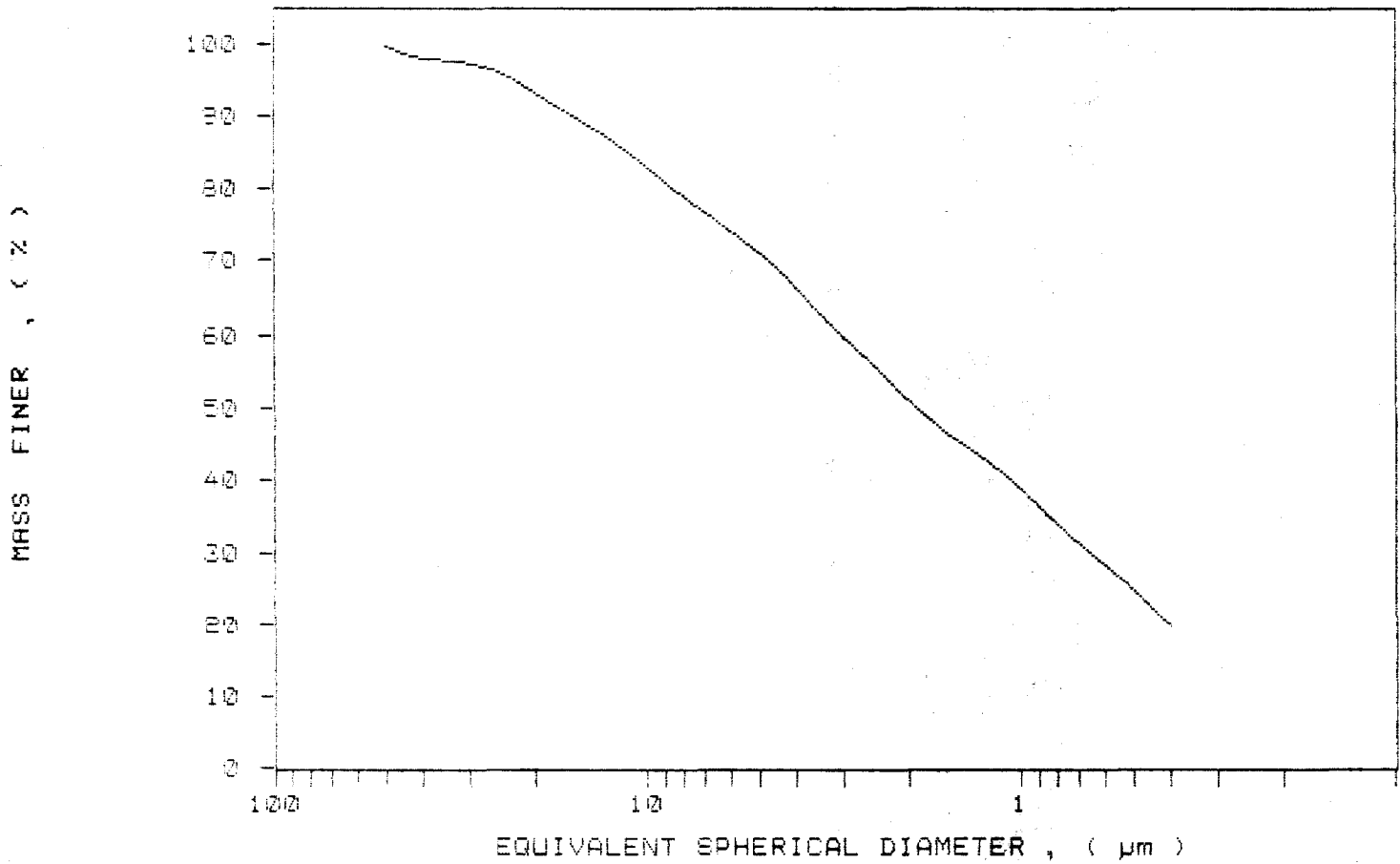
MEDIAN DIAMETER: 1.92 μ m MODAL DIAMETER: 3.72 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	99.6	0.4
40.00	97.9	1.7
30.00	97.2	0.7
25.00	96.0	1.2
20.00	95.2	2.8
15.00	89.2	4.0
10.00	83.0	6.3
8.00	78.9	4.0
6.00	74.1	4.8
5.00	71.0	3.1
4.00	66.3	4.7
3.00	59.7	6.6
2.00	50.9	8.8
1.50	45.6	5.4
1.00	38.6	6.9
0.80	33.7	4.9
0.60	28.1	5.6
0.50	24.6	3.6
0.40	19.6	5.0



SAMPLE DIRECTORY/NUMBER: SECOND /53	UNIT NUMBER: 1
SAMPLE ID: Hole D 88-7 # 3256	START 09:27:04 11/14/89
SUBMITTER: James Ray Co.	REPR 08:49:26 10/16/91
OPERATOR: Kaarina	TOT RUN TIME 0:16:56
SAMPLE TYPE: Clay	SAM DENS: 2.6500 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9940 g/cc
ANALYSIS TEMP: 95.2 deg C	LIQ VISC: 0.7203 cp
RUN TYPE: Standard	

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



kaolin

Sed:Graph 5100 V2.05

PAGE 1

SAMPLE DIRECTORY/NUMBER: SECOND /52
 SAMPLE ID: Hole D 88-7 # 3255
 SUBMITTER: James Bay Co.
 OPERATOR: kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 55.8 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 16:14:34 11/27/89
 REPRT 08:44:57 10/16/91
 TOT RUN TIME 0:17:17
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9938 g/cc
 LIQ VISC: 0.7108 cp

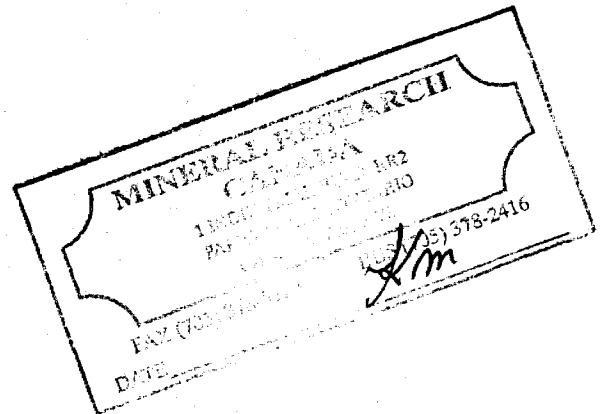
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.24 μ m MODAL DIAMETER: 0.40 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.9	1.1
40.00	98.9	-0.0
30.00	96.5	2.4
25.00	95.6	1.0
20.00	95.1	0.4
15.00	93.9	1.3
10.00	90.4	3.5
8.00	88.6	1.8
6.00	84.5	4.0
5.00	79.7	4.8
4.00	74.4	5.3
3.00	68.0	6.4
2.00	59.3	8.7
1.50	58.7	5.6
1.00	45.3	8.4
0.80	40.2	5.1
0.60	34.2	6.0
0.50	29.9	4.3
0.40	23.4	6.5



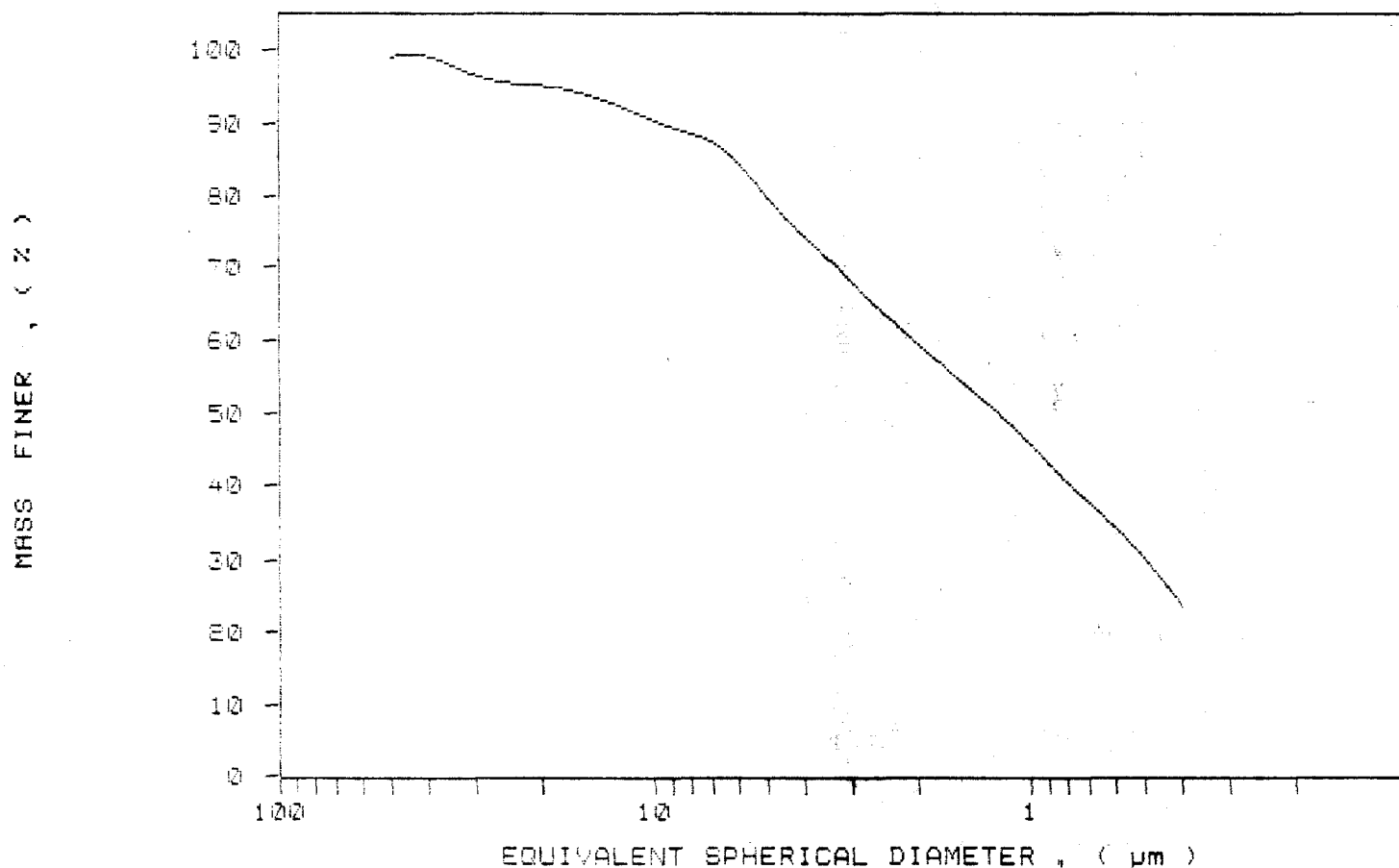
kaolin

SediGraph 5100 V2.05

PAGE 2

SAMPLE DIRECTORY/NUMBER: SECOND /52	UNIT NUMBER: 1
SAMPLE ID: Hole D 88-7 # 3255	START 16:14:34 11/27/89
SUBMITTER: James Bay Co.	REPRT 08:44:57 10/16/91
OPERATOR: kaarina	TOT RUN TIME 0:17:17
SAMPLE TYPE: Clay	SAM DENS: 2.6500 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9988 g/cc
ANALYSIS TEMP: 25.8 deg C	LIQ VISC: 0.7108 cp
RUN TYPE: Standard	

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



kaolin

SediGraph 5100 V2.03

PAGE 1

SAMPLE DIRECTORY/NUMBER: SECOND /51
 SAMPLE ID: Hole D 38-7 # 3254
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 34.3 deg C RUN TYPE: Standard

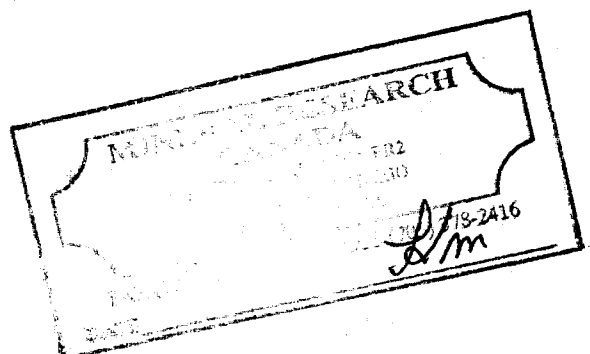
UNIT NUMBER: 1
 START 12:00:53 12/11/89
 REPR 08:40:27 10/16/91
 TOT RUN TIME 0:17:42
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9943 g/cc
 LIQ VISC: 0.7326 cp

STARTING DIAMETER: 50.00 μ m REYNOLDS NUMBER: 0.21
 ENDING DIAMETER: 0.40 μ m FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.67 μ m MODAL DIAMETER: 0.40 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.0	2.0
40.00	98.1	-0.1
30.00	97.0	1.1
25.00	96.0	1.0
20.00	93.4	2.6
15.00	90.1	3.3
10.00	84.6	5.5
8.00	80.9	3.7
6.00	76.9	4.0
5.00	75.5	3.4
4.00	68.4	5.1
3.00	62.0	6.5
2.00	53.5	8.5
1.50	49.2	5.3
1.00	41.0	7.1
0.80	36.7	4.3
0.60	31.0	5.7
0.50	26.9	4.1
0.40	21.0	5.9



kaolin

SediGraph 5100 V2.03

PAGE 2

SAMPLE DIRECTORY/NUMBER: SECOND /51

SAMPLE ID: Hole D 38-7 # 3254

SUBMITTER: James Bay Co.

OPERATOR: Kaarina

SAMPLE TYPE: Clay

LIQUID TYPE: Water

ANALYSIS TEMP: 24.3 deg C

RUN TYPE: Standard

UNIT NUMBER: 1

START 12:00:53 12/11/89

REPRT 08:40:27 10/16/91

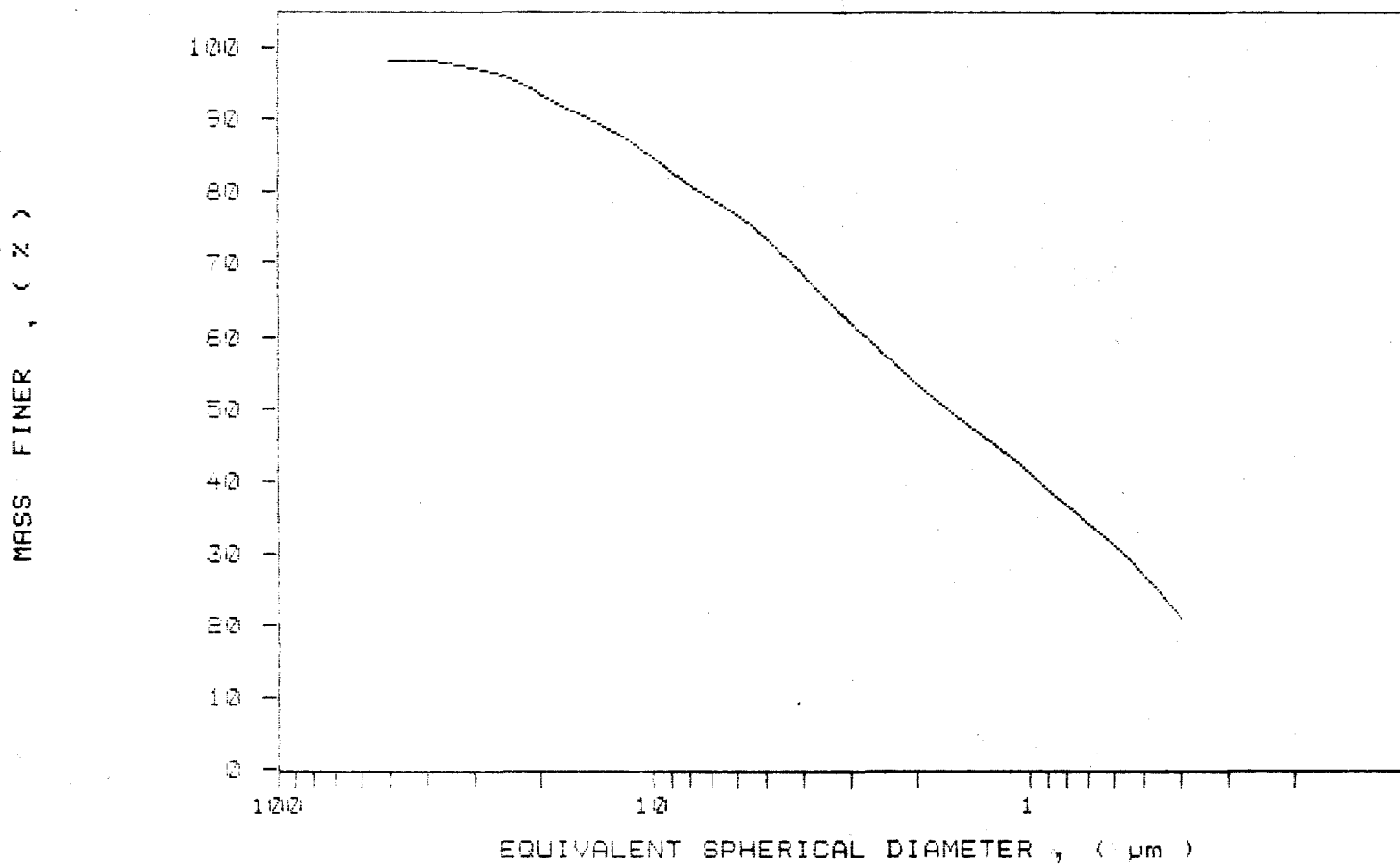
TOT RUN TIME 0:17:42

SAM DENS: 2.6500 g/cc

LIQ DENS: 0.9943 g/cc

LIQ VISC: 0.7326 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Kaolin

SediGraph 5100 V2.03

PAGE 1

SAMPLE DIRECTORY/NUMBER: SECOND /50
 SAMPLE ID: Hole D 88-7 # 3253
 SUBMITTER: James Bay Co.
 OPERATOR: Ksarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 15:49:00 11/13/89
 REPRT 09:32:10 10/16/91
 TOT RUN TIME 0:17:17
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7206 cp

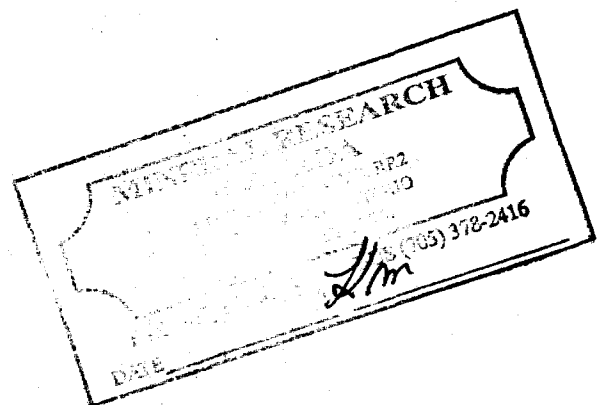
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

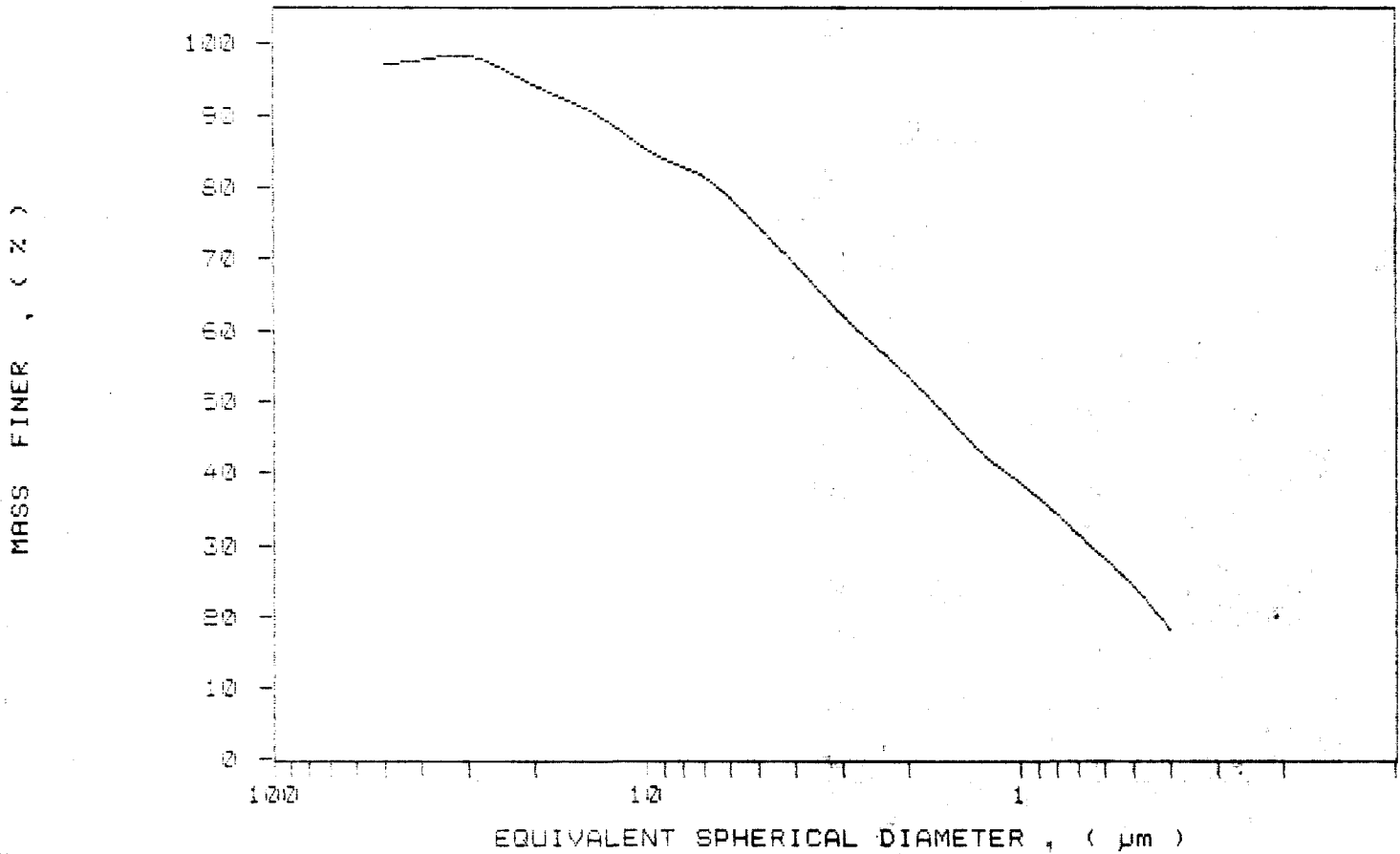
MEDIAN DIAMETER: 1.73 μ m MODAL DIAMETER: 0.40 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	97.2	2.8
40.00	97.6	-0.4
30.00	98.1	-0.6
25.00	96.7	1.4
20.00	94.2	2.5
15.00	91.2	2.9
10.00	85.3	6.0
8.00	82.9	2.4
6.00	78.6	4.2
5.00	74.5	4.2
4.00	69.3	5.2
3.00	62.2	7.1
2.00	53.4	8.8
1.50	46.5	6.9
1.00	38.5	8.0
0.80	34.0	4.5
0.60	28.1	5.9
0.50	24.1	4.0
0.40	17.9	6.3



SAMPLE DIRECTORY/NUMBER: SECOND /50	UNIT NUMBER: 1
SAMPLE ID: Hole D 88-7 # 3253	START 15:49:00 11/13/89
SUBMITTER: James Bay Co.	REPRT 09:32:10 10/16/91
OPERATOR: Kaarina	TOT RUN TIME 0:17:17
SAMPLE TYPE: Clay	SAM DENS: 2.6500 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9941 g/cc
ANALYSIS TEMP: 35.1 deg C	LIQ VISC: 0.7206 cp
RUN TYPE: Standard	

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /49
 SAMPLE ID: Hole D 38-7 # 3252
 SUBMITTER: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 15:15:29 11/13/89
 REPT 08:31:28 10/16/91
 TOT. RUN TIME 0:16:58
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7205 cp

STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

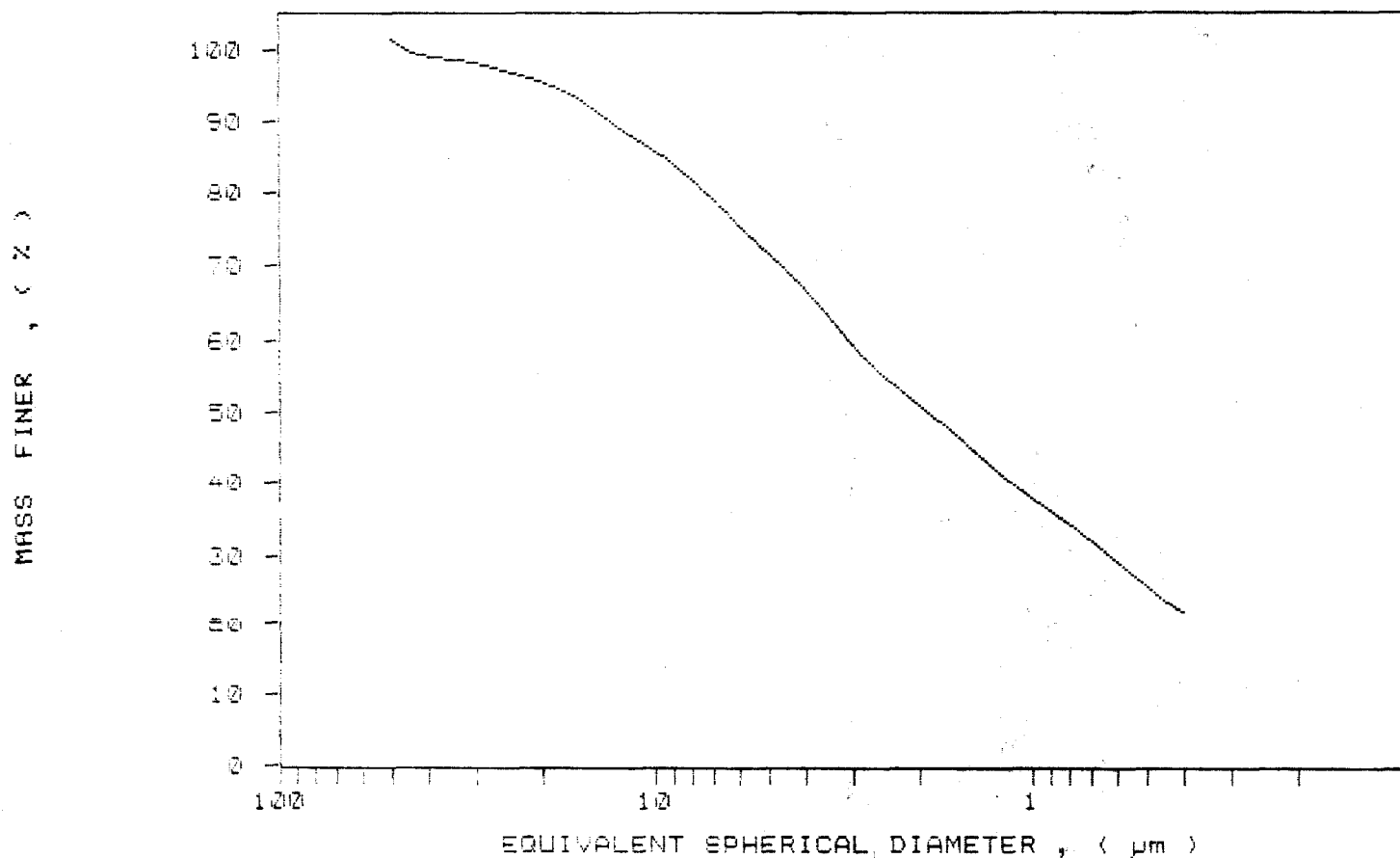
MEDIAN DIAMETER: 1.94 μ m MODAL DIAMETER: 3.44 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	101.2	-1.2
40.00	98.9	2.3
30.00	98.0	0.9
25.00	97.0	1.0
20.00	95.5	1.5
15.00	92.1	3.4
10.00	85.6	6.5
8.00	81.6	4.0
6.00	75.3	6.3
5.00	71.5	3.8
4.00	66.6	5.0
3.00	59.1	7.5
2.00	50.6	8.5
1.50	45.1	5.5
1.00	37.4	7.7
0.80	32.3	5.1
0.60	26.7	5.6
0.50	25.2	1.5
0.40	21.5	3.7



SAMPLE DIRECTORY/NUMBER: SECOND /49	UNIT NUMBER: 1
SAMPLE ID: Hole D 89-7 # 3252	START 15:15:29 11/13/89
SUBMITTER: James Bay Co.	REPRT 08:31:28 10/16/91
OPERATOR: Raarina	TOT RUN TIME 0:16:58
SAMPLE TYPE: Clay	SAM DENS: 2.6500 g/cc
LIQUID TYPE: Water	LIQ DENS: 0.9941 g/cc
ANALYSIS TEMP: 35.1 deg C	LIQ VISC: 0.7205 cp
RUN TYPE: Standard	

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: SECOND /48
 SAMPLE ID: Hole D 88-7 # 3251
 SUBMITTER: James Bay Corp.
 OPERATOR: Yaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 25.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 14:41:52 11/13/89
 REPRT 08:24:06 10/16/91
 TOT RUN TIME 0:16:56
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7205 cp

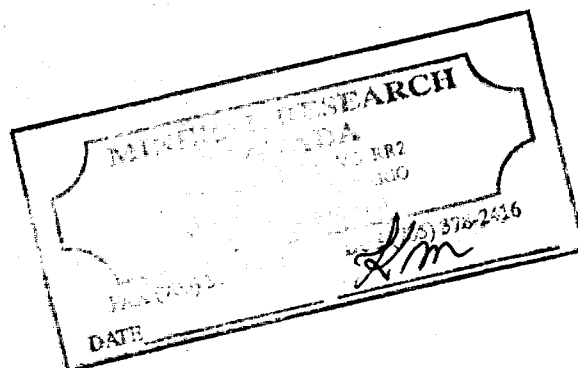
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 8.36 μ m MODAL DIAMETER: 2.29 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
50.00	98.2	1.8
40.00	97.6	0.4
30.00	96.3	-0.5
25.00	97.0	1.2
20.00	96.9	0.1
15.00	90.2	6.7
10.00	86.3	6.9
8.00	82.9	6.3
6.00	78.9	4.1
5.00	76.1	2.8
4.00	72.1	4.0
3.00	65.1	7.0
2.00	52.4	29.7
1.50	21.4	13.9
1.00	15.4	6.0
0.80	13.9	1.5
0.60	12.4	1.5
0.50	10.9	1.5
0.40	7.3	3.6



SAMPLE DIRECTORY/NUMBER: SECOND /48

SAMPLE ID: Hole D 88-7 # 8251

SUBMITTER: James Bay Cop.

OPERATOR: Kaarina

SAMPLE TYPE: Clay

LIQUID TYPE: water

ANALYSIS TEMP: 25.1 deg C

RUN TYPE: Standard

UNIT NUMBER: 1

START 14:41:52 11/13/89

REPRT 08:24:06 10/16/91

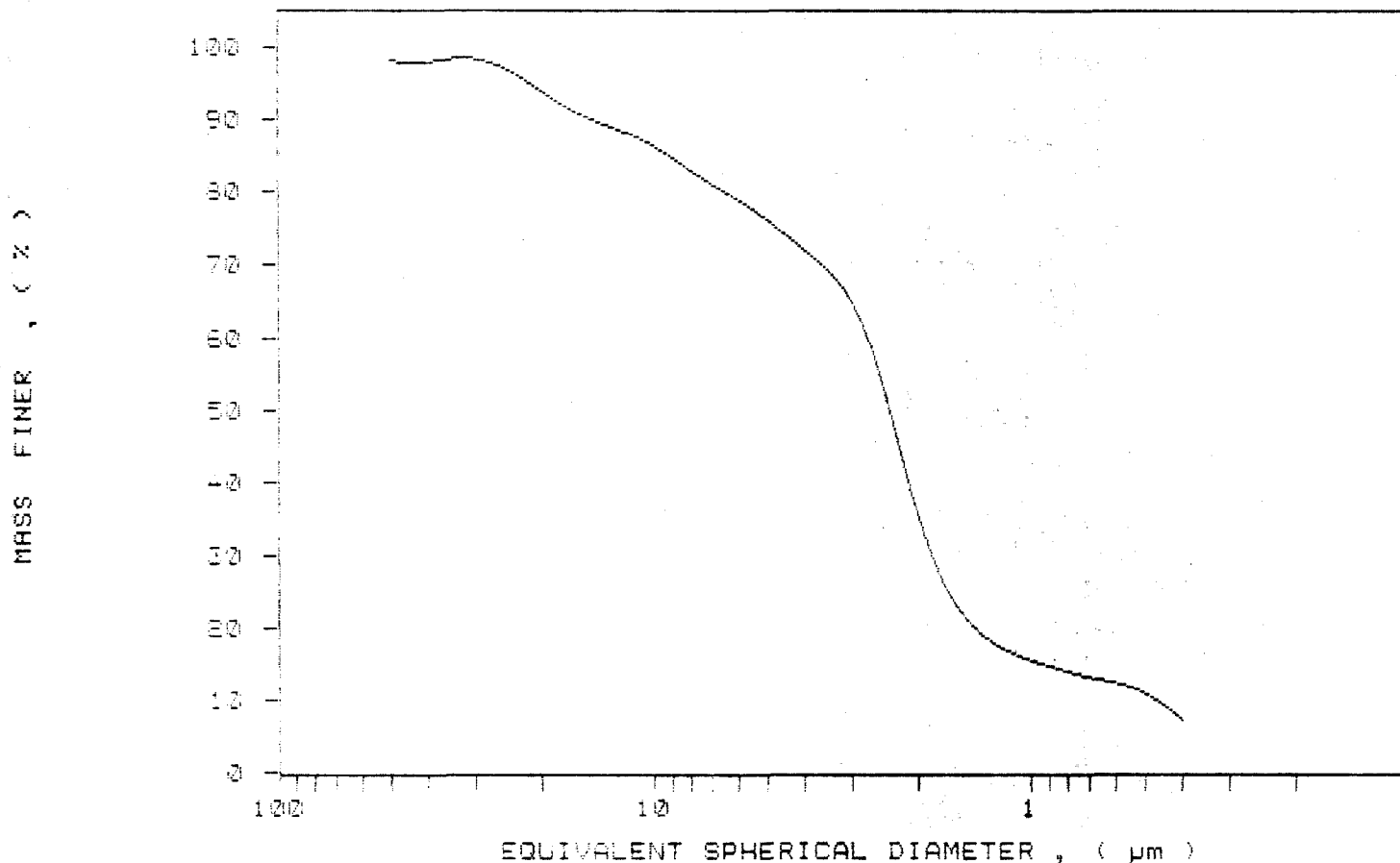
TOT RUN TIME 0:16:56

SAM DENS: 2.6500 g/cc

LIQ DENS: 0.9941 g/cc

LIQ VISC: 0.7205 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



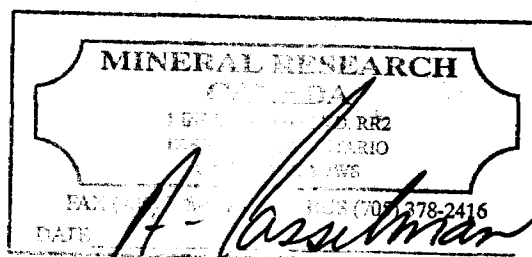
ROTARY DRILL HOLE RECORD

Drilling Started: November 10, 1988	Logged By: A. Casselman
Drilling Finished: November 11, 1988	Logged: Oct. 11, 1989
Property: Douglas/Kipling	Drilling Co.: Midwest
Dip Collar: -90	Core Storage:
Core: 3.5"	Mineral Research Canada
Length: 250.0'	R. R. # 2
Overburden Depth: 105.0'	Parry Sound, ON
Claim No.: T21584, Patented	P2A 2W8
Northing: 1295 N	Hole No: D88-2
Easting: 300 W	

SUMMARY

From	To	Description
0.0'	78.0'	Glacial Clay Till
78.0'	105.0'	Sand Pleistocene - Overburden
105.0'	170.0'	Kaolin Silica Sand (Kss) Cretaceous
170.0'	172.0'	Clay
172.0'	174.5'	Kss
174.5'	180.0'	Clay
180.0'	186.0'	Sandy Clay
186.0'	200.0'	Kss
200.0'	201.0'	Clay
201.0'	202.0'	Kss
202.0'	233.0'	Clay
233.0'	250.0'	Kss

EOH - 250.0'



Detail Log D88-2

FROM	TO	SAMPLE	DESCRIPTION
0.0'	78.0'		Overburden.
78.0'	83.0'	15151	Sand (probably of glacial origin, no to very little clay, clasts of feldspar, quartz, yellow chert, and carbonates), medium grey and brown, medium grain, angular to sub-angular clasts.
83.0	87.0	15152	Sand - as above.
87.0	95.0	15153	Sand - as above (higher clay & moisture content).
95.0	100.0	15154	Sand - as above, (no clay).
100.0	105.0	15155	Sand - as above, 100.0 - 103.0'-medium to coarse grain, 103.0 - 105.0'- fine grain, some fossil wood fragments.
105.0	109.0	15156	Kss - white, medium grain (with rare larger yellow chert clasts and jasper, rounded, low clay content).
109.0	115.0	15157	Kss - as above, low clay content.
115.0	120.0	15158	Kss - medium grain, normal clay content, yellow/orange colour, minor illite and heavies.
120.0	123.0	15159	Kss - as above.
123.0	126.5	15160	Kss - coarse grain, white, (dried, rounded yellow chert, jasper, smoky quartz in a medium grain matrix).
126.5	131.0	15161	Kss - medium grey, with grey convolute laminations low clay content, minor illite and heavies.
131.0	135.0	15162	Kss - as above, with small lensic clay inclusions, light grey, pliable.
135.0	140.0	15163	Kss - medium grain, light yellow, low clay content.
140.0	145.0	15164	Kss - as above, coarsening downsection from fine to medium to coarse.
145.0	150.0	15165	Kss - as above medium grain.

150.0	155.0	15166	Kss - as above, some portions more clay-rich.
155.0	160.0	15167	Kss - as above.
160.0	165.0	15168	Kss - as above.
165.0	170.0	15169	Kss - as above.
170.0	172.0	15170	Clay - pliable, non-competent, light grey grading to medium purple to buff to pink.
172.0	174.5	15171	Kss - orange and brown banded, medium grain, with rare larger rounded smoky quartz clasts.
174.5	175.0	15172	Clay - greasy, non-pliable, competent, buff with lighter laminations.
175.0	180.0	15173	Clay - red and grey mottled, pliable, more red at lower contact, more grey at upper contact.
180.0	186.0	15174	Sandy Clay - grey with minor red interbeds, medium grain, varying silica contents, minor illite, some darker laminations.
186.0	190.0	15175	Kss - medium grain, light red, dried.
190.0	195.0	15176	Kss - medium grain, upper portion white, lower red, minor illite and heavies.
195.0	200.0	15177	Kss - as above, upper portion red, lower portion light brown.
200.0	201.0	15178	Clay - black, significant yellow brown outer contamination with crystal growth, highly competent, non-pliable, greasy.
201.0	202.0	15179	Kss - yellow/brown medium grain (dried).
202.0	209.0	15180	Clay - chocolate brown, 201.0 - 204.0' - dried, greasy,, disc-like, 204.0 - 209.0' - lighter areas, pliable competent, minor carbonaceous fragments.
209.0	213.0	15181	Clay - as above, pliable.
213.0	217.0	15182	Clay - as above, dried, greasy.
217.0	221.0	15183	Clay - as above, yellow at lower contact.
221.0	225.0	15184	Clay - highly competent, greasy, orange, white, yellow and black mottled grading to

red.

- 225.0 227.0 15185 Clay - red, some lighter and green areas, minor silica content in some portions, pliable, areas of apparent limonitic powder.
- 227.0 233.0 15186 Clay - red, grading to weakly sandy clay, darker grey, weakly pliable.
- 233.0 237.0 15187 Kss - medium grain, medium grey, interbedded with some minor sandy clay, medium and light grey mottled.
- 237.0 241.0 15188 Kss - as above, yellow at lower contact, 2" rounded gneissic clasts with haematite staining.
- 241.0 245.0 15189 Kss - as above, some green areas, limonite and haematite enrichments, a partially decomposed clastic band of gneissic fragments at 243.5'.
- 245.0 250.0 15190 Kss - medium grain, dried, some areas of green staining, generally light brown, darker laminations, concentrations of large flake muscovite.

EOH-250'

Section D88-2

Claim No: Patented T21584

Length: 250.0'

Overburden Depth: 105.0'

Scale: 1.0" = 50.0'

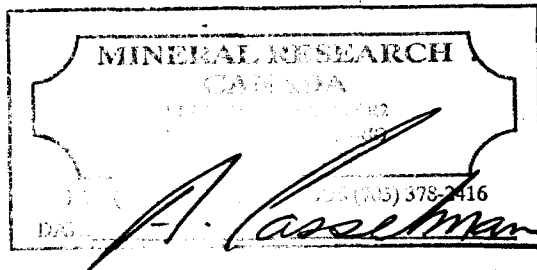
Northing: 1295 N

Easting: 300 W

Dip Collar: -90

1000 W

800 W



D88-2



Silty Clay

Till

Silty Clay

Sand/Pebbly Sand

KSS

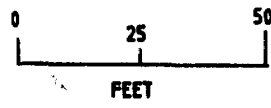
Silica Sand
Clay(lt gry)
Clay(red-brn/lt gry)
Clay(lt gry)

KSS

Clay(choc brn)

Clay(lt brn-gry)
Clay(choc brn)
Clay(red-brn)
Clay(lt gry)

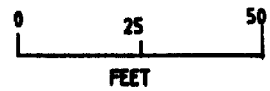
KSS



15' SOUTH

D88-2

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- 15189
- 15190



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 %	pH (20% SOLIDS)
D 88-2 # 15156	+ 4	1.1	3.9	
	+ 40	68.9		
	+100	11.8		
	+200	2.4		
	+325	1.6		
	-325	14.2		
15157	+ 4	2	0.8	
	+ 40	54.0		
	+100	30.7		
	+200	2.0		
	+325	3.2		
	-325	10.1		
15158	+ 4	2.8	3.1	
	+ 40	66.7		
	+100	13.3		
	+200	4.1		
	+325	1.9		
	-325	11.2		
15159	+ 4	2	8.3	
	+ 40	38.2		
	+100	49.3		
	+200	2.4		
	+325	0.9		
	-325	9.2		
15160	+ 4	10.0	2.6	
	+ 40	68.0		
	+100	11.1		
	+200	2.1		
	+325	0.9		
	-325	7.9		

MINERAL RESEARCH CANADA

DATE: _____

Laurence Malmstrom

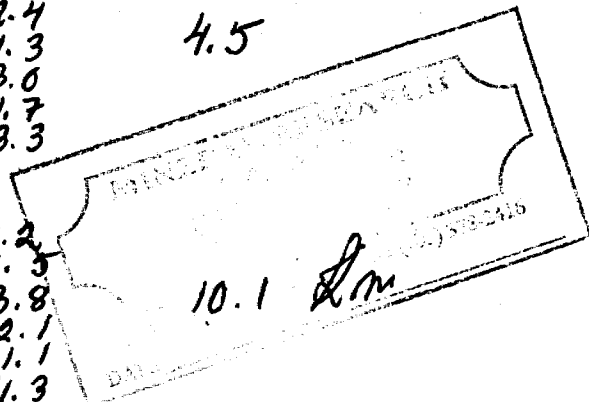
MINERAL RESEARCH CANADA

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

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
D 88-2 15161	+ 4	4.7	6.2	
	+ 40	60.4		
	+100	18.2		
	+200	2.6		
	+325	1.2		
	-325	12.9		
15162	+ 4	1.8	4.4	
	+ 40	65.9		
	+100	23.1		
	+200	1.9		
	+325	0.9		
	-325	6.4		
15163	+ 4	4.2	5.0	
	+ 40	49.3		
	+100	29.0		
	+200	2.2		
	+325	1.5		
	-325	13.8		
15164	+ 4	18.3	4.5	
	+ 40	42.4		
	+100	21.3		
	+200	3.0		
	+325	1.7		
	-325	13.3		
15165	+ 4	0.2	10.1	
	+ 40	11.5		
	+100	73.8		
	+200	2.1		
	+325	1.1		
	-325	11.3		



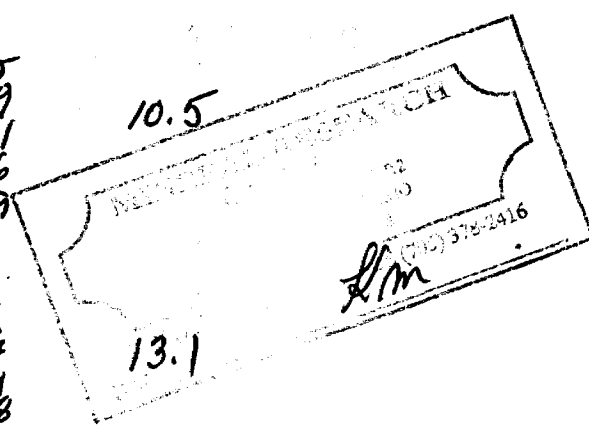
MINERAL RESEARCH CANADA

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

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
D 88-2 15166	+ 4	0	5.9	
	+ 40	37.9		
	+100	49.7		
	+200	2.5		
	+325	1.2		
	-325	6.7		
15167	+ 4	0.3	14.5	
	+ 40	9.1		
	+100	75.3		
	+200	3.2		
	+325	2.2		
	-325	9.9		
15168	+ 4	0	8.5	2.5
	+ 40	6.1		
	+100	79.9		
	+200	3.2		
	+325	2.1		
	-325	8.7		
15169	+ 4	0	10.5	
	+ 40	34.5		
	+100	53.9		
	+200	2.1		
	+325	1.6		
	-325	7.9		
15170	+ 4	0	13.1	
	+ 40	0		
	+100	1.7		
	+200	15.1		
	+325	13.8		
	-325	69.4		



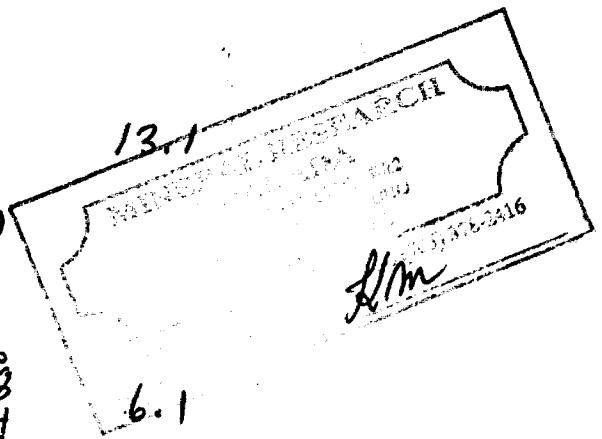
MINERAL RESEARCH CANADA

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

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
D 88-2 15171	+ 4	15.2	4.4	
	+ 40	49.8		
	+100	20.9		
	+200	2.2		
	+325	1.3		
	-325	10.6		
15172	+ 4	0	19.4	
	+ 40	0.4		
	+100	0.5		
	+200	1.5		
	+325	5.6		
	-325	92.0		
15173	+ 4	0	18.6	8.3
	+ 40	0.1		
	+100	0.3		
	+200	3.5		
	+325	10.4		
	-325	85.7		
15174	+ 4	0	13.1	
	+ 40	0		
	+100	1.2		
	+200	6.4		
	+325	11.4		
	-325	81.0		
15175	+ 4	0	6.1	
	+ 40	35.6		
	+100	48.8		
	+200	3.4		
	+325	1.8		
	-325	10.4		



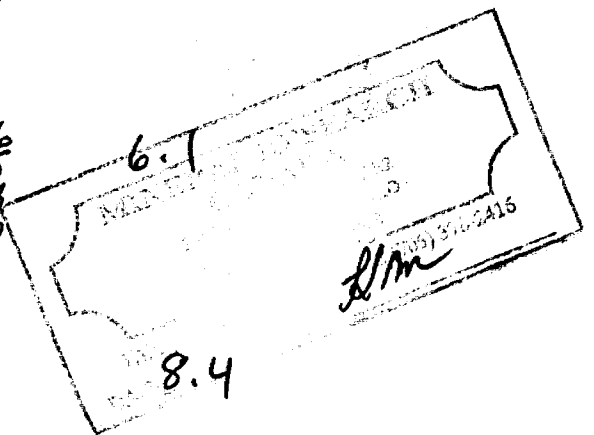
MINERAL RESEARCH CANADA

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

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
D 88-2 15176	+ 4	0.1	5.8	
	+ 40	36.3		
	+100	48.3		
	+200	2.8		
	+325	2.2		
	-325	10.3		
15177	+ 4	0	5.7	
	+ 40	40.1		
	+100	44.3		
	+200	2.1		
	+325	1.9		
	-325	11.6		
15178	+ 4	0	15.6	
	+ 40	0		
	+100	0.1		
	+200	0.1		
	+325	0.0		
	-325	97.8		
15179	+ 4	0	6.7	
	+ 40	39.1		
	+100	45.6		
	+200	2.5		
	+325	1.8		
	-325	11.0		
15180	+ 4	0	8.4	
	+ 40	0		
	+100	0.2		
	+200	0.4		
	+325	6.2		
	-325	93.2		



MINERAL RESEARCH CANADA

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
D 88-2 15181	+ 4	0.3	20.0	
	+ 40	6.5		
	+100	4.5		
	+200	14.0		
	+325	14.4		
	-325	60.3		
15182	+ 4	0	15.7	
	+ 40	0.2		
	+100	5.4		
	+200	17.8		
	+325	9.1		
	-325	67.5		
15183	+ 4	0.1	16.4	
	+ 40	4.3		
	+100	5.3		
	+200	15.7		
	+325	11.3		
	-325	63.3		
15184	+ 4	0.2	18.2	
	+ 40	6.3		
	+100	4.7		
	+200	13.9		
	+325	15.8		
	-325	59.1		
15185	+ 4	0	17.6	
	+ 40	0.9		
	+100	5.8		
	+200	11.3		
	+325	15.2		
	-325	66.8		

MINERAL RESEARCH CANADA

ANALYSIS REPORT

DATE: _____

BY: *HM*

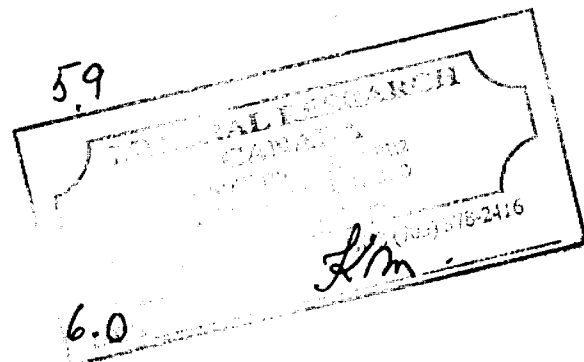
MINERAL RESEARCH CANADA

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

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

ANALYSIS REPORT

SAMPLE #	SCREEN	%	MOISTURE %	pH (20% SOLIDS)
D 88-2 15186	+ 4	0	16.9	
	+ 40	5.1		
	+100	5.8		
	+200	11.8		
	+325	13.7		
	-325	63.6		
15187	+ 4	0.2	5.6	
	+ 40	37.7		
	+100	46.3		
	+200	3.4		
	+325	2.4		
	-325	10.0		
15188	+ 4	0	6.1	
	+ 40	40.2		
	+100	44.8		
	+200	2.9		
	+325	2.1		
	-325	10.0		
15189	+ 4	0.1	5.9	
	+ 40	38.3		
	+100	49.6		
	+200	2.7		
	+325	1.6		
	-325	8.0		
15190	+ 4	0	6.0	
	+ 40	53.1		
	+100	29.4		
	+200	2.3		
	+325	1.7		
	-325	13.5		



SAMPLE IDENTIFICATION NUMBER: 0101 / 2854
 SAMPLE ID: 1010-002-1 * 1E10
 SUBMITTER: James Ray, Ltd.
 OPERATOR: Keatinge
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 20.12 deg C RUN TYPE: Standard

UNIT NUMBER: 7
 START: 15:10:18 11/01/89
 REFRT: 10:07:45 09/19/91
 TOT RUN TIME: 0:17:20
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7202 cp

STARTING DIAMETER: 50.000 um
 ENDING DIAMETER: 0.140 um

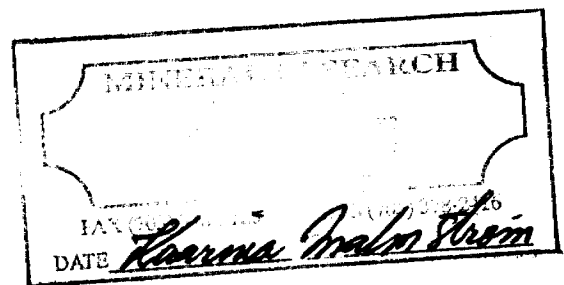
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.136 um

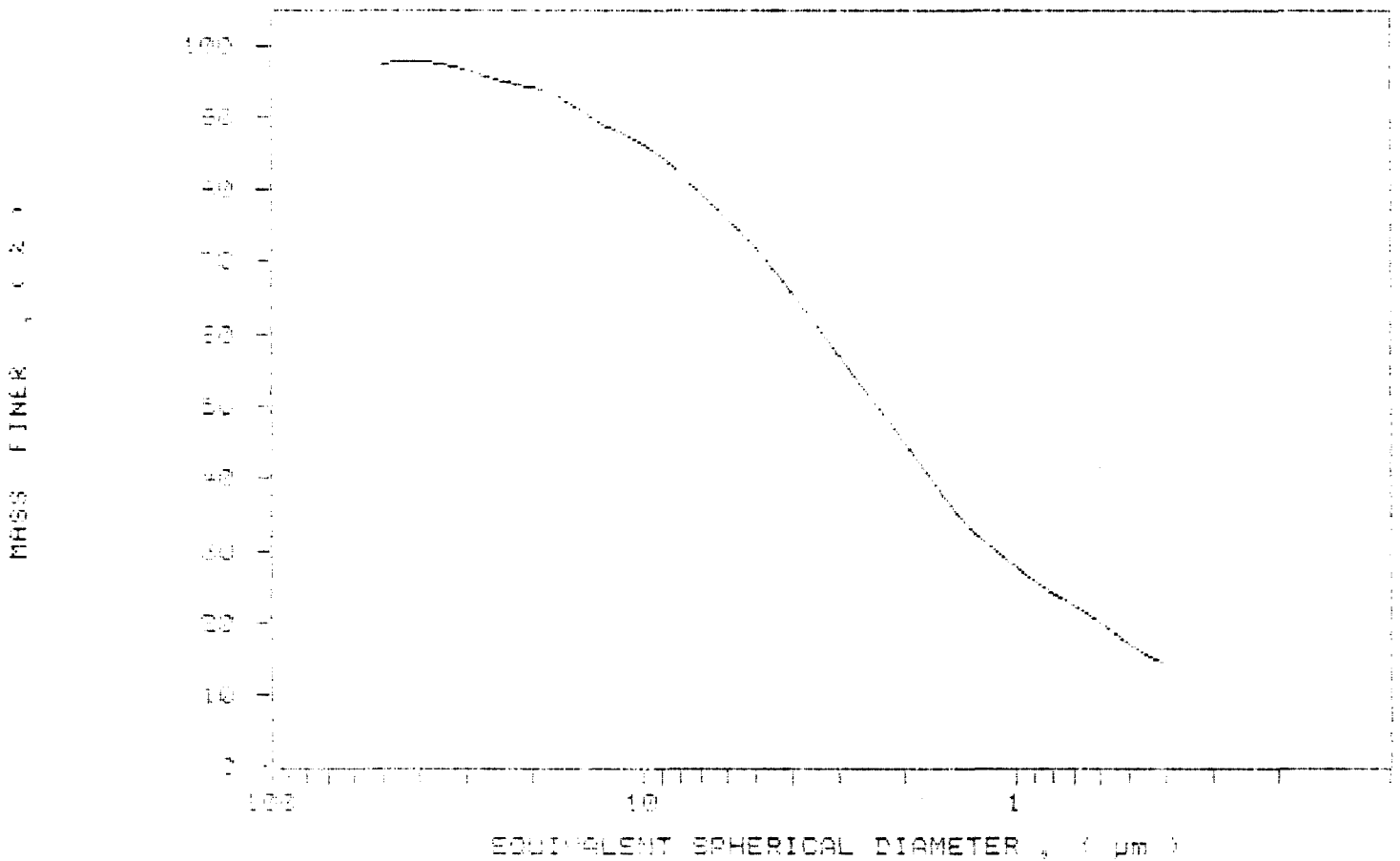
MODAL DIAMETER: 1.71 um

DIAMETER (um)	PERCENT MASS FINDER (%)	PERCENT MASS IN INTERVAL (%)
50.000	0.14	0.14
40.000	0.72	0.86
30.000	2.02	2.78
25.000	3.02	5.80
20.000	3.92	9.72
15.000	4.11	13.83
10.000	3.11	16.94
5.000	10.12	27.06
2.500	21.12	48.18
1.000	33.11	81.29
0.500	37.12	98.41
0.250	40.11	100.00
0.140	36.11	100.00
0.100	24.10	100.00
0.075	16.10	100.00
0.050	4.11	100.00
0.040	1.12	100.00



SAMPLE DIRECTION/NUMBER: DASH 1904	UNIT NUMBER: 1
SAMPLE ID: hole D Core # 10150	START 15:19:18 11/01/99
SUBMITTER: James Ray Co.	REPT 10:07:45 09/19/99
OPERATOR: Kearnine	TOT RUN TIME 0:17:25
SAMPLE SIZE: 10g	SAM DENS: 2.6500 g/cc
LIQUID TYPE: water	LIQ DENS: 0.9940 g/cc
ANALYSIS: CHL 10150 pg L	RUN TYPE: Standard
	LIQ VISC: 0.7267 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



UNIT NUMBER: 1
 START 16:08:21 11/01/09
 REPR: 10:12:11 09:19/01
 TOT RUN TIME 0:17:20
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7202 cp

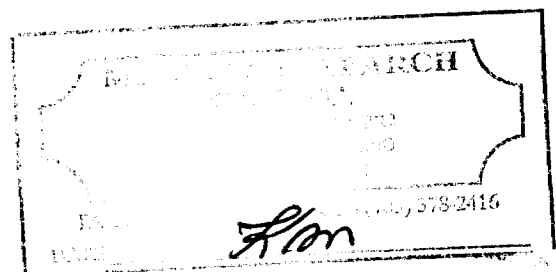
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.140 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MODAL DIAMETER: 3.25 μ m MODAL DIAMETER: 3.25 μ m

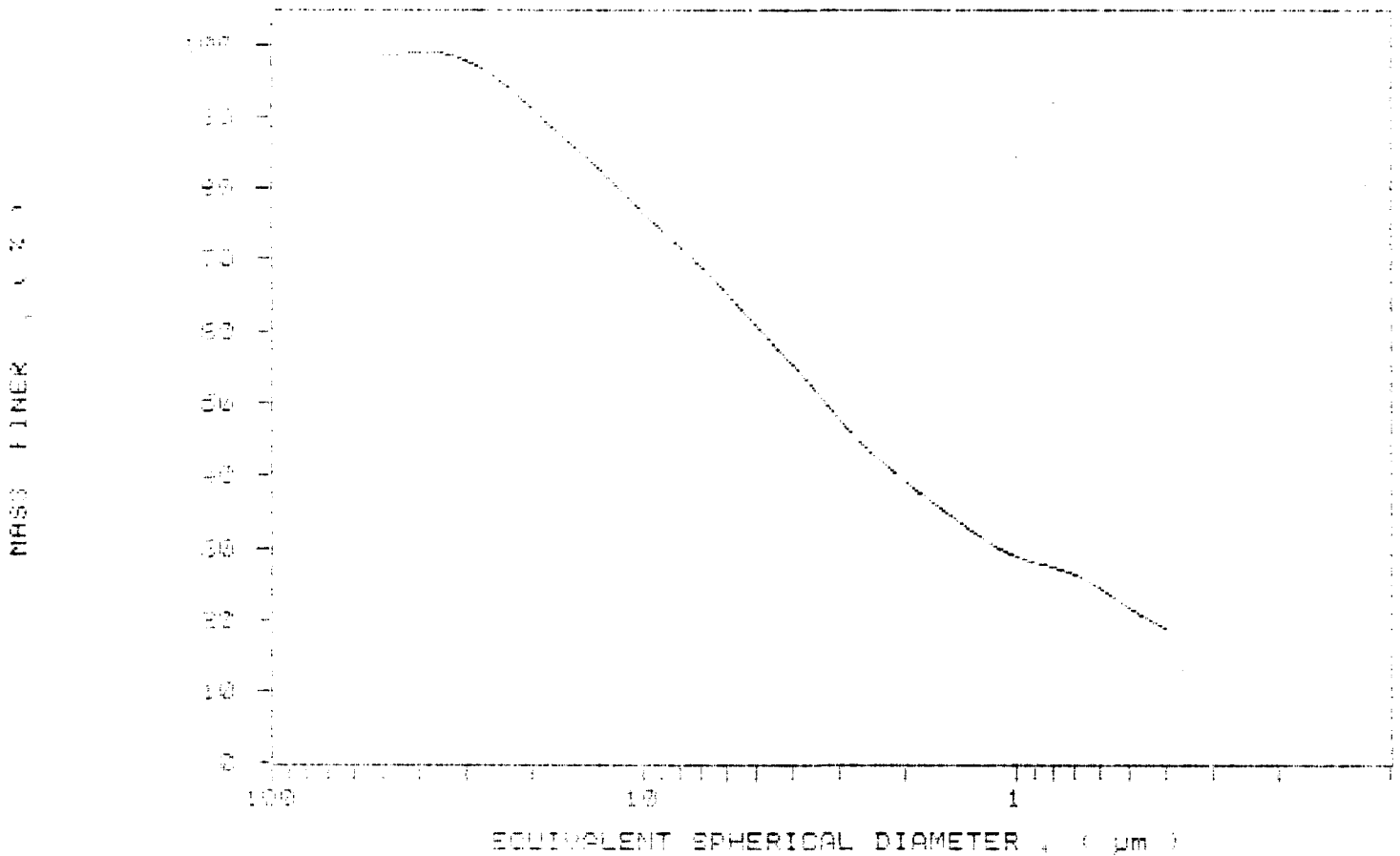
DIAMETER (μ m)	CUMULATIVE MASS FRACTION (%)	MASS FR INTERVAL (%)
50.00	02.14	1.8
40.00	02.16	0.15
30.00	11.17	1.1
20.00	18.14	1.3
15.00	21.12	1.3
10.00	22.11	0.8
8.00	25.10	2.3
6.00	27.11	4.8
5.00	28.12	1.4
4.00	30.13	4.8
3.00	32.12	2.4
2.00	34.12	1.3
1.50	35.12	2.0
1.00	36.12	4.8
0.70	37.12	1.4
0.50	28.11	2.0
0.30	21.11	2.7
0.150	13.12	2.0



SAMPLE IDENTIFICATION NUMBER: DA141 /052
SAMPLE ID: note D 002 # 18107
SUBMITTER: James Bay Co.
OPERATOR: Keolin
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS TEMP: 22.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 16:03:21 11/01/99
REPT 10:12:11 09/19/91
TOTAL RUN TIME 0:17:20
SAM DENS: 2.6300 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7202 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTION NUMBER: 2856
 SAMPLE ID: note v 33rd # 13102
 SURF: TERN: James Bay, COI
 OPERATION: kaolina
 SAMPLE TYPE: clay
 LIQUID TYPE: water
 ANALYSIS TECH: solv deg C SOLV TYPE: Standard

UNIT NUMBER: 1
 START 16:30:57 11/01/89
 REPT 10:16:36 02/13/91
 TOT RUN TIME 0:17:10
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7262 cp

STARTING DIAMETER: 20.00 um
 ENDING DIAMETER: 0.40 um

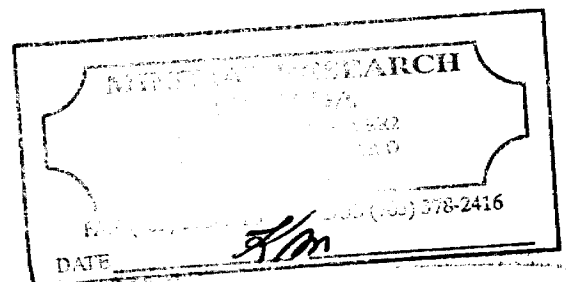
REYNOLDS NUMBER: 0.82
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.78 um

MODAL DIAMETER: 4.02 um

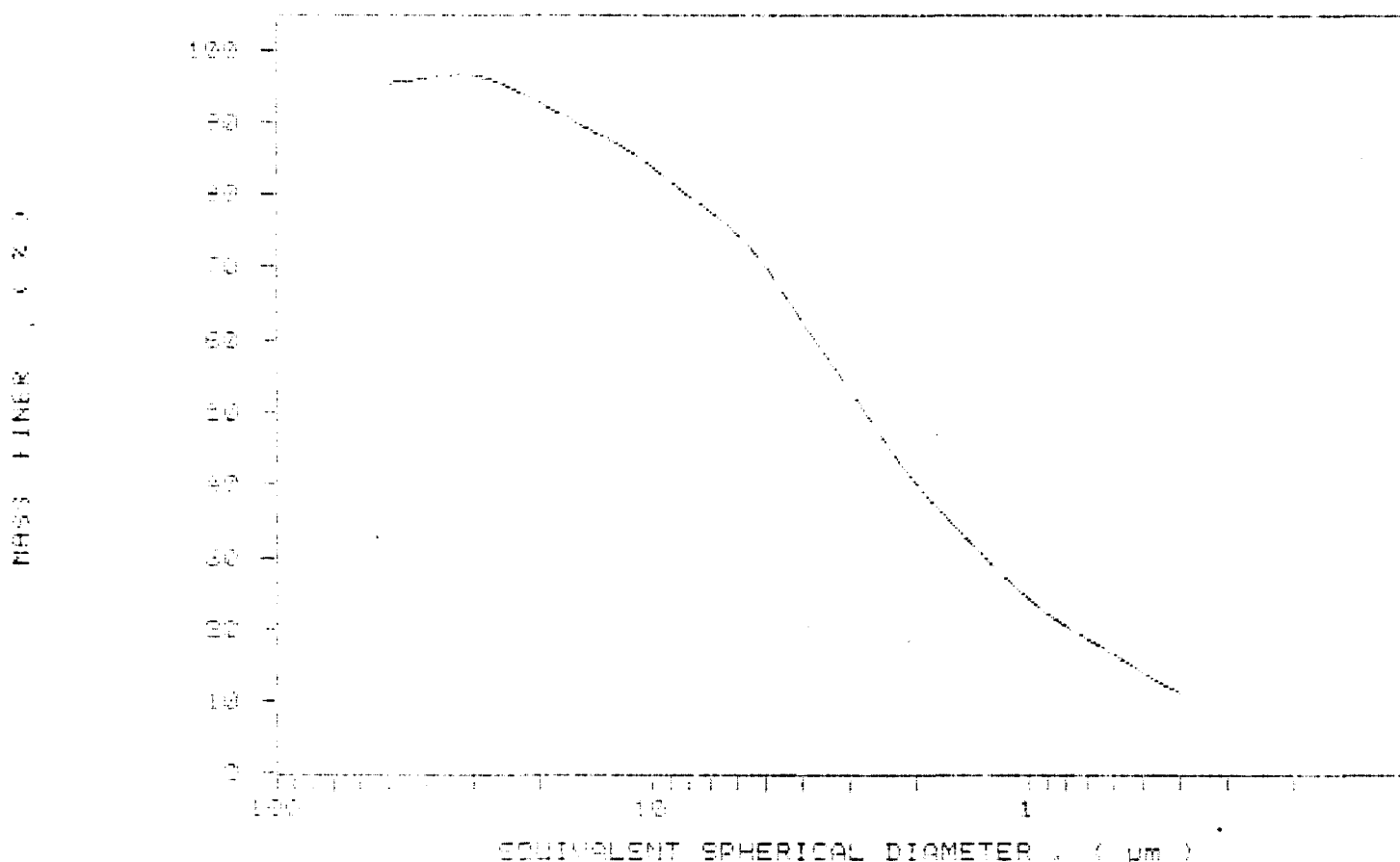
DIAMETER (um)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
20.00	97.4	4.6
18.00	96.1	6.7
16.00	92.4	10.4
14.00	87.8	11.2
12.00	82.7	11.6
10.00	75.2	11.5
8.00	61.6	11.6
6.00	44.2	11.1
4.00	22.6	7.8
2.00	11.1	6.0
1.00	4.2	11.0
0.50	1.1	11.6
0.25	0.4	11.7
0.125	0.0	11.7
0.0625	0.0	11.7



SAMPLE DIR: /DIR/NUMBER: 14741 /356
SAMPLE ID: 1012 # 13100
SUBTITLE: Jones Bay 101
OPERATOR: Kaolina
SAMPLE TYPE: Clay
LIQUID TYPE: Water
ANALYSIS (MFP): 1012 deg 1 RUN TYPE: Standard

UNIT NUMBER: 1
START 16:35:57 11/01/89
REPT 10:16:36 09/19/91
TOT RUN TIME 0:17:19
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9940 g/cc
LIQ VISC: 0.7202 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE IDENTIFICATION NUMBER: 04741 1357
 SAMPLE NO: 10105 0042 W 10130
 SUBMITTER: James Key Co.
 OPERATOR: RSR:ma
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS FROM: 00.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 08:35:34 11/02/89
 REFRT 10:21:01 09/19/91
 TOT RUN TIME 0117:05
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9999 g/cc
 LIQ VISC: 0.7206 cp

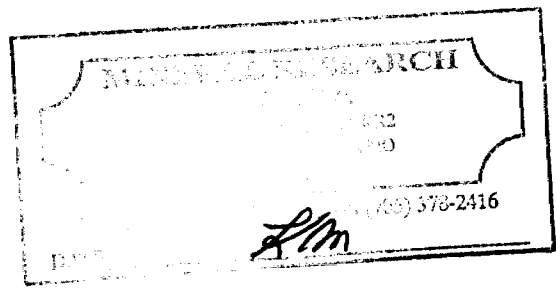
STARTING DIAMETER: 20.00 um
 ENDING DIAMETER: 0.140 um

REYNOLDS NUMBER: 0.02
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.40 um MODAL DIAMETER: 1.25 um

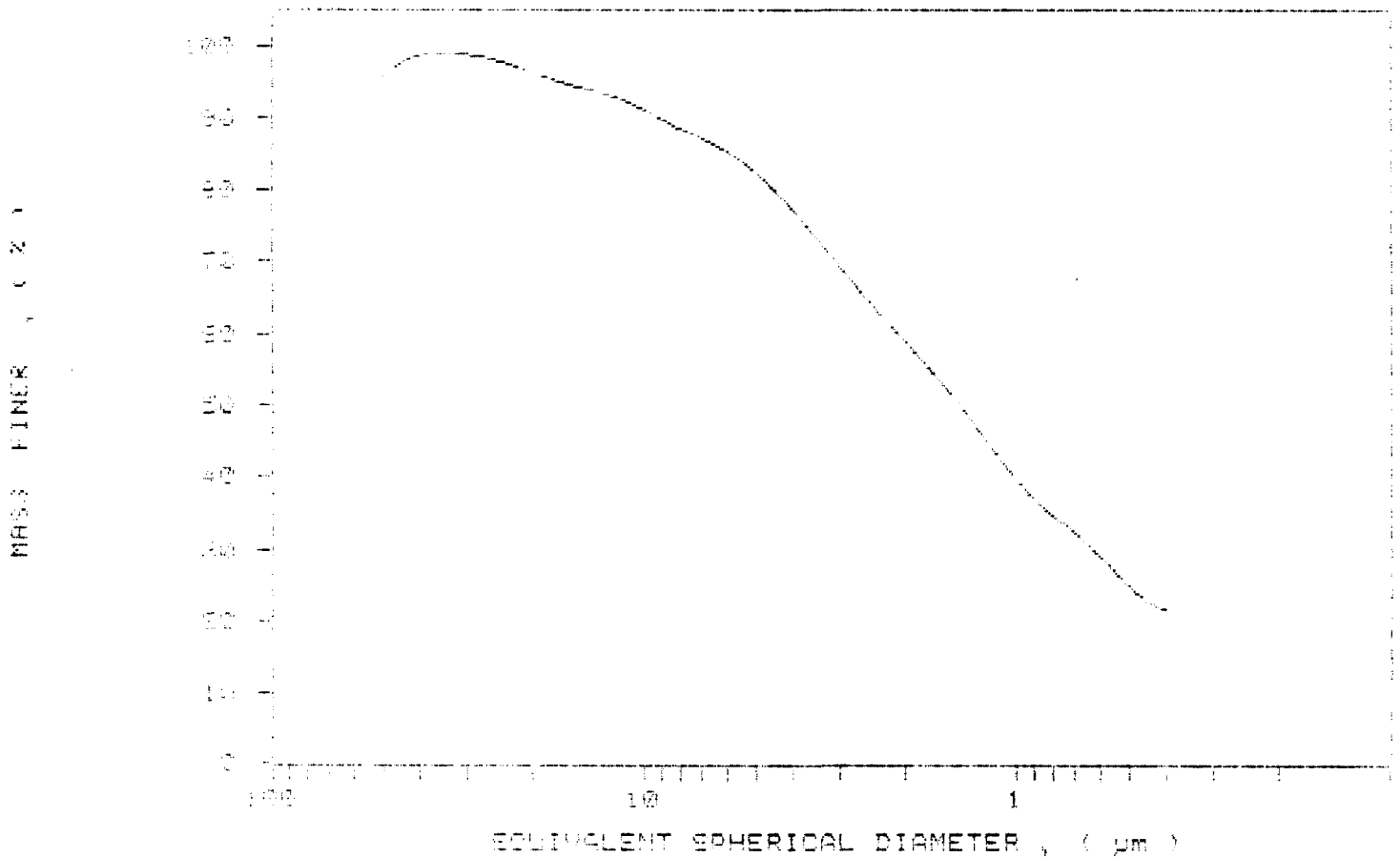
DIAMETER (um)	CUMULATIVE MASS (%)	MASS IN INTERVAL (%)
20.00	95.0	4.0
10.00	95.0	4.0
5.00	95.0	4.0
2.500	97.0	6.7
2.000	95.0	1.7
1.500	94.0	2.0
1.000	91.0	3.0
0.750	88.0	2.0
0.500	85.0	1.1
0.300	82.0	3.0
0.200	75.0	3.0
0.150	60.0	7.0
0.100	58.0	10.0
0.075	51.0	7.0
0.050	39.0	12.0
0.030	34.0	4.0
0.020	28.0	3.0
0.015	24.0	4.0
0.010	21.0	3.0



SAMPLE DIRECTOR NUMBER: 10101 / 357
 SAMPLE ID: Hole D 30-m # 10100
 SUBMITTER: James Bay Co.
 OPERATOR: Sean Fine
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TYPE: 30.0 deg C Run Type: Standard

UNIT NUMBER: 1
 START 08:35:34 11/02/20
 REPT 10:21:01 09/19/21
 TOT RUN TIME 0:17:09
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7206 cp

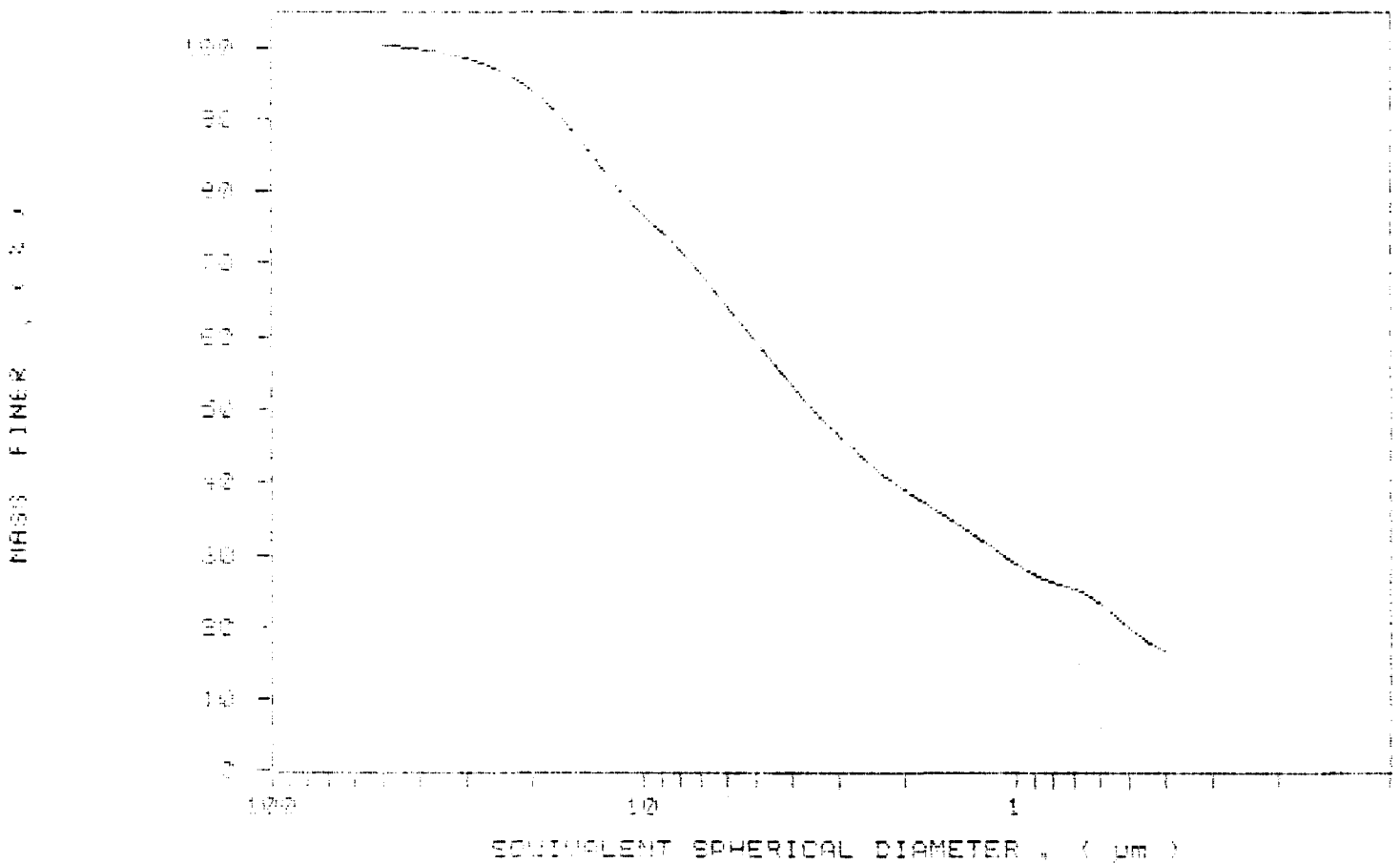
CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTOR (RUNSET): DATA 1955
 SAMPLE Lot no: 3 30-2 4 19100
 SUBMITTER: James Co, Co.
 OPERATION: Sampling
 SAMPLE TYPE: Grav
 LIQUID TYPE: water
 ANALYSIS TIME: 21.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 09:36:48 11/02/89
 REPT 10:25:26 09/19/91
 TOT RUN TIME 0:17:19
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7200 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DISPOSITION: none
 SAMPLE ID: Hole 0 02nd # 131a
 SUBMITTER: James Lee
 OPERATOR: Jeanine
 SAMPLE TYPE: Clay
 LIQUID USED: water
 ANALYSIS TEMP: 25.0 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:46:43 11/02/59
 REPR: 10:39:10 09/13/91
 TOT RUN TIME 0:17:37
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9946 g/cc
 LIQ VISC: 0.7202 cp

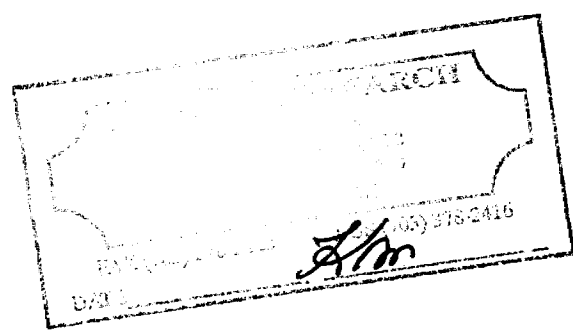
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.61
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.35 μ m MODAL DIAMETER: 0.40 μ m

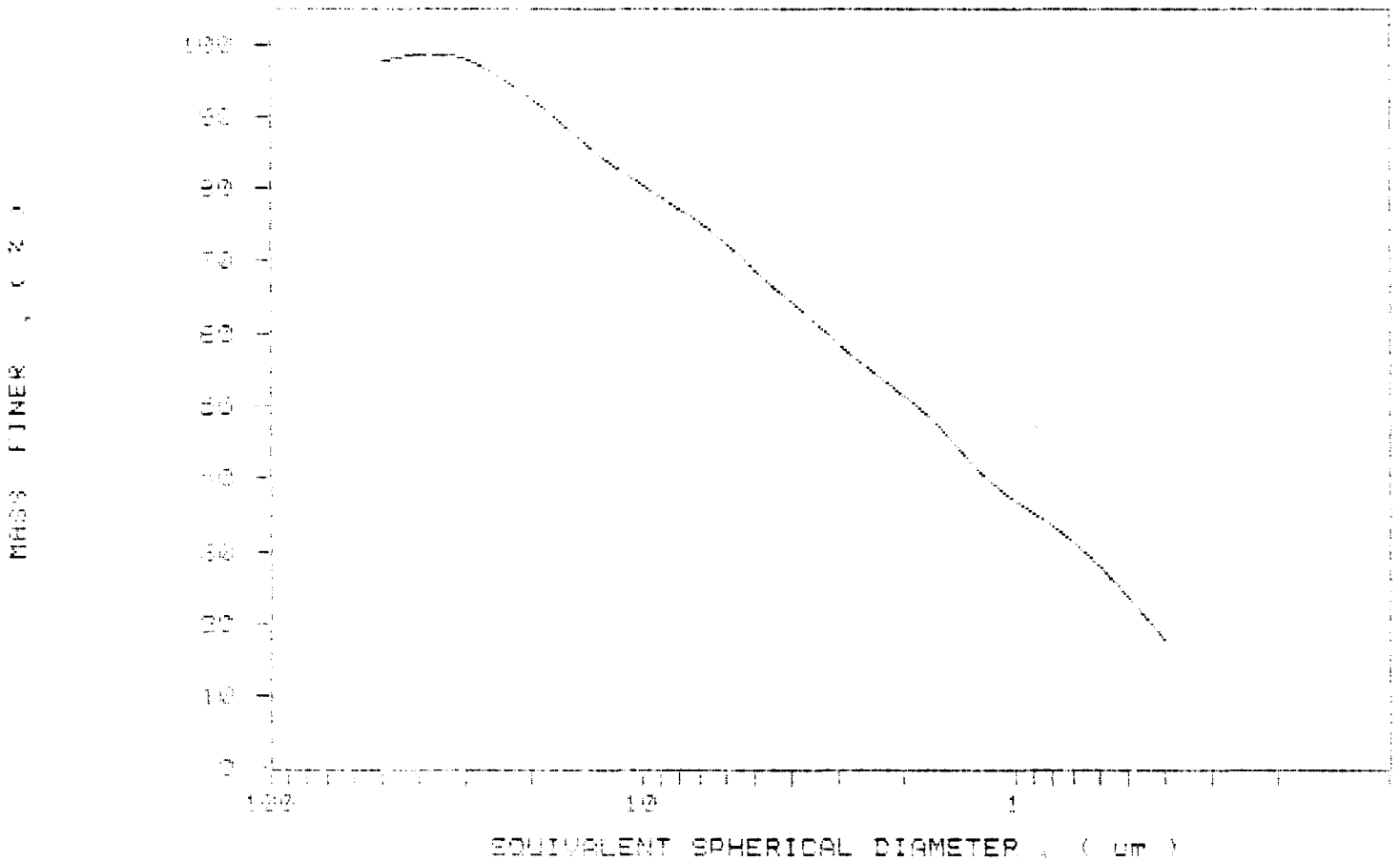
DIAMETER μ m	CUMULATIVE MASS (%)	DIFF IN INTERVAL (%)
50.00	0.0	0.0
40.00	0.0	0.0
30.00	0.0	0.0
25.00	0.0	0.0
20.00	0.0	0.0
15.00	0.0	0.0
10.00	0.0	0.0
5.00	0.0	0.0
2.00	0.0	0.0
1.00	0.0	0.0
0.50	0.0	0.0
0.40	0.0	0.0



SAMPLE DIRECTOR/NUMBER: DATA1 /858
 SAMPLE ID: mine a 502 # 10161
 SUBMITTER: James Ray Co.
 OPERATOR: Kaolin
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 20.2 deg C FUR TYPE: standard

UNIT NUMBER: 1
 START 10:48:48 11/02/89
 REPRT 10:39:15 09/19/91
 TOT RUN TIME 0:17:32
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7292 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



Serial: 0100 02100

SAMPLE CHARACTER NUMBER: 0000 / 000
 SAMPLE ID: 0000 D 0000 + 10100
 SUBMITTER: 0000 00, 00
 OPERATOR: 000000
 SAMPLE TYPE: 0000
 LIQUID TYPE: water
 ANALYSIS TECH: 0000 000 000 RUN TYPE: Standard

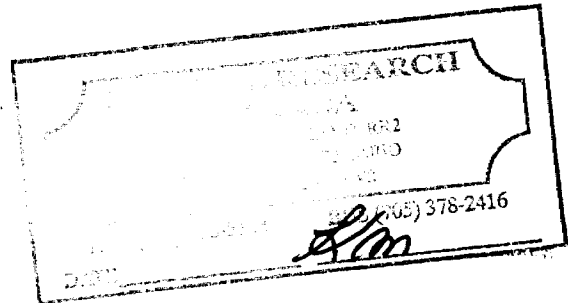
UNIT NUMBER: 1
 START 11:00:00 11/02/89
 REPT 10:45:00 09/19/91
 TOT RUN TIME 0:17:04
 SAM DENS: 0.8500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7200 cp

STARTING DIAMETER: 00000 Am REYNOLDS NUMBER: 0.00
 ENDING DIAMETER: 01000 Am FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIA DIAMETER: 0100 Am MODAL DIAMETER: 0104 Am

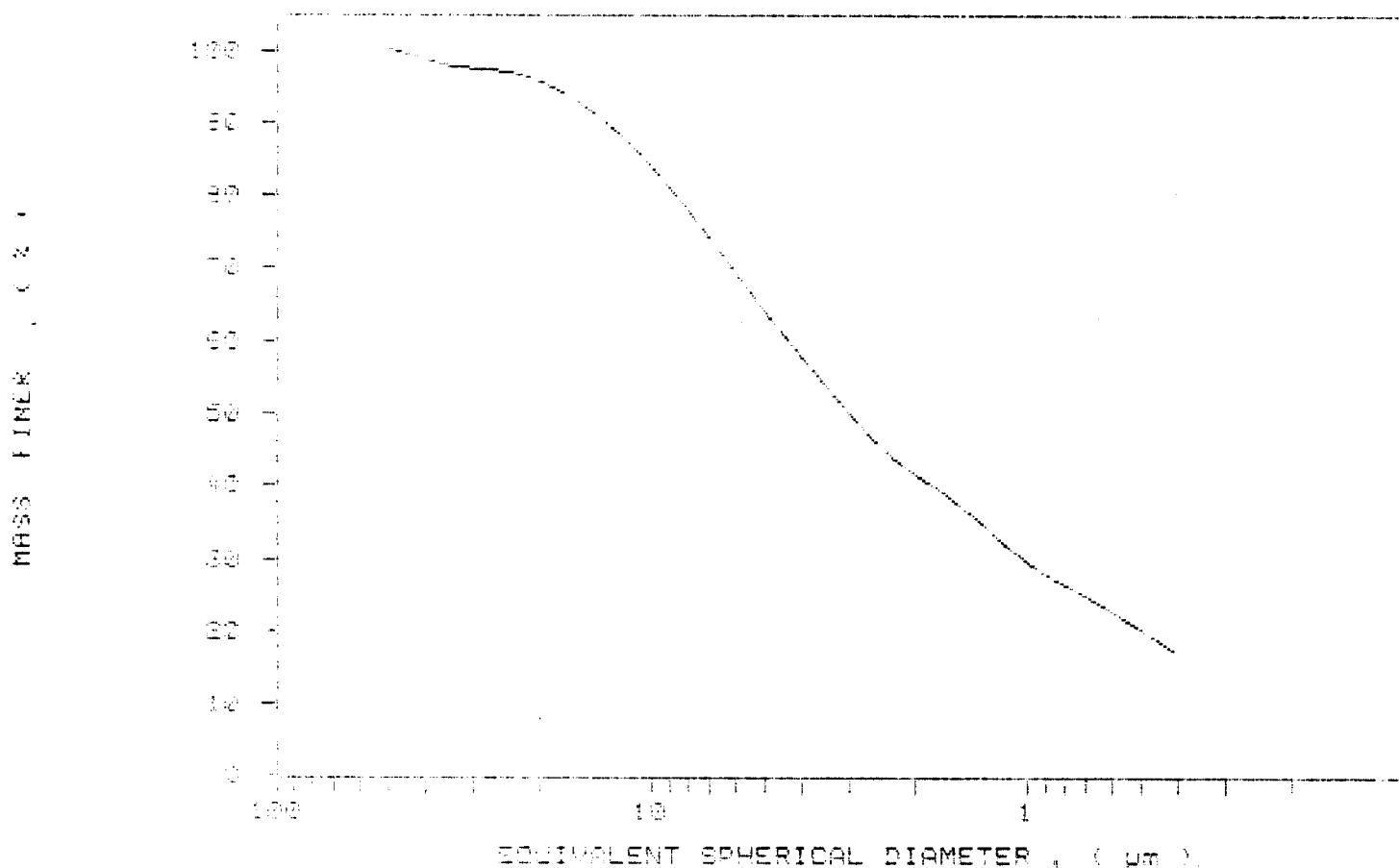
DIAMETER (Am)	CUMULATIVE MASS FINE (%)	MASS IN INTERVAL (%)
0000	100.0	0.0
0000	99.0	1.0
0000	97.0	2.0
0000	94.0	3.0
0000	90.0	4.0
0000	85.0	5.0
0000	79.0	6.0
0000	72.0	7.0
0000	64.0	8.0
0000	55.0	9.0
0000	45.0	10.0
0000	34.0	11.0
0000	22.0	12.0
0000	9.0	13.0
0000	0.0	14.0



SAMPLE DIRECTORY NUMBER: DATA / 7869
SAMPLE ID: note D 05-2 & 1516L
SUBMITTER: James Day Co.
OPERATOR: Keatinge
SAMPLE TYPE: Clay
LIQUID TYPE: water
ANALYSIS TEMP: 25.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 11:53:20 11/02/89
REPT 10:43:39 09/19/91
TOT RUN TIME 0:17:54
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9941 g/cc
LIQ VISC: 0.7206 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTION: NAD110 / 7361
 SAMPLE ID: Hole 0 20m @ 13100
 SURVEY: St James Dr. Co.
 OPERATOR: Kearns
 SAMPLE TYPE: LHM
 LIQUID TYPE: water
 ANALYSIS TECH: Solids deg L RUN TYPE: Standard

UNIT NUMBER: 1
 START 13:25:56 11/02/89
 REPR7 10:48:04 09/15/91
 TOT RUN TIME 0:17:55
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7205 cp

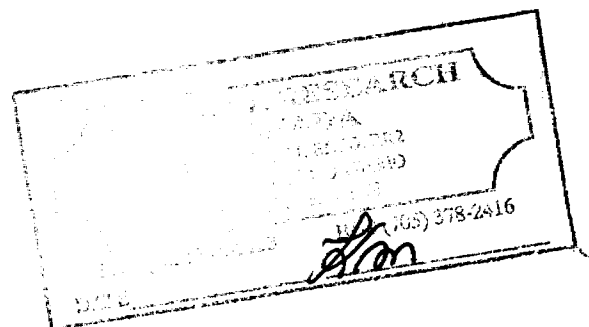
STARTING DIAMETER: 20.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.13 μ m MODAL DIAMETER: 0.40 μ m

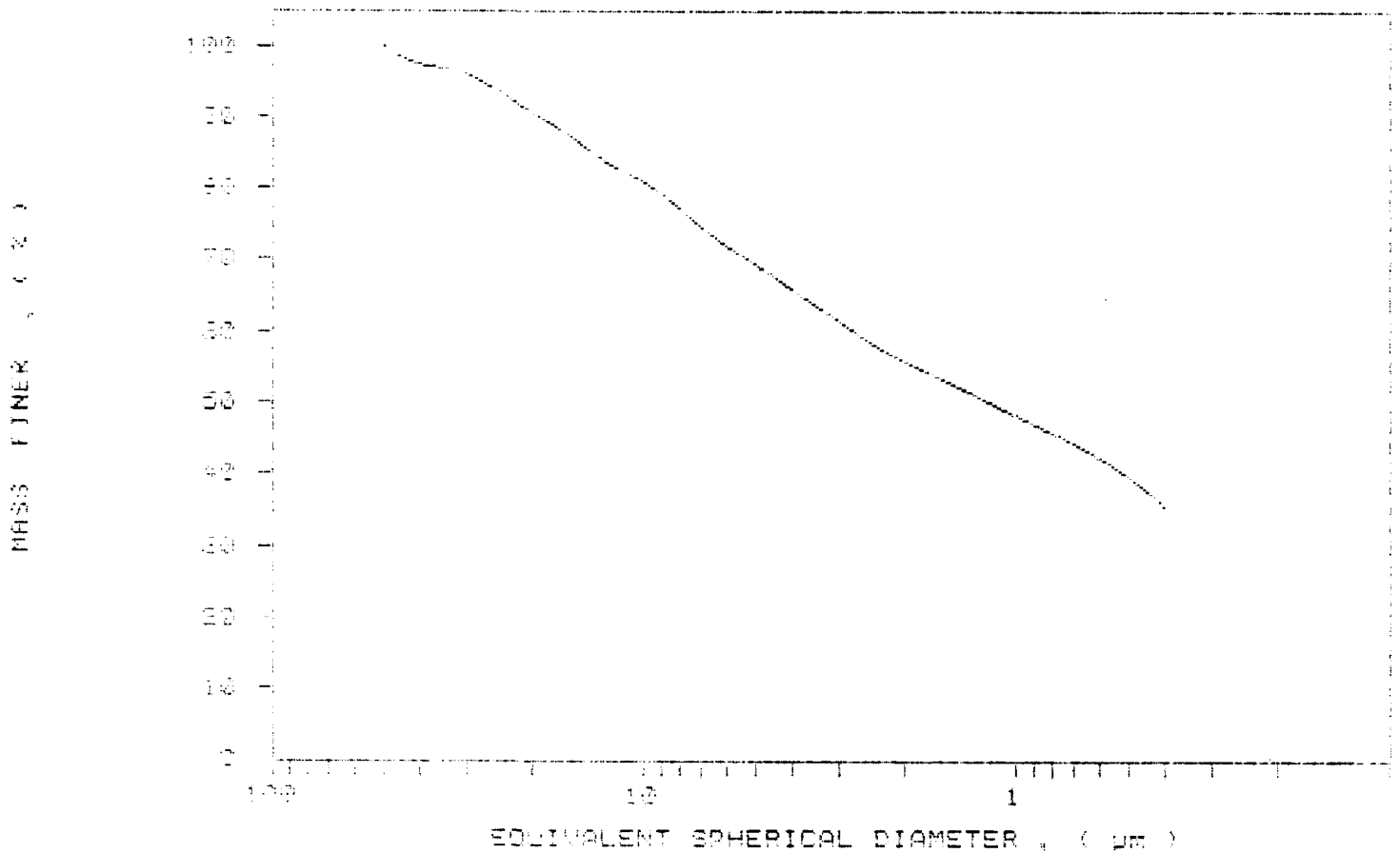
DIAMETER (μ m)	CUMULATIVE PERCENT FINER (%)	MASS IN INTERVAL (%)
20.00	95.3	0.1
40.00	87.3	2.6
60.00	85.3	1.5
80.00	80.7	6.1
100.00	79.2	3.2
125.00	80.3	5.1
150.00	80.7	3.6
200.00	71.3	1.6
250.00	71.3	3.1
300.00	67.3	3.6
400.00	63.7	3.5
500.00	61.4	5.6
600.00	55.7	3.7
800.00	50.3	3.1
1000.00	46.1	4.6
1250.00	40.7	2.4
1500.00	42.3	3.5
2000.00	35.3	2.7
2500.00	33.4	4.1



SAMPLE DIRECTORY NUMBER: DRYA1 7381
SAMPLE ID: Hole D 05-2 # 15165
SUBSTRATE: Jones Bay Col.
OPERATOR: Karina
SAMPLE TYPE: clay
LIQUID TYPE: water
ANALYSIS ID#: 001 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 15:25:56 11/02/99
REPORT 10:48:04 09/19/91
TOT RUN TIME 0:17:53
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9941 g/cc
LIQ VISC: 0.7205 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE ID: 11001471 NUMBER: 047A1 .360
 SAMPLE ID: Hole D 20-C # 12164
 SUBMITTER: James M. Co.
 OPERATOR: Keating
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TECH: 201 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:57:03 11/02/90
 REPT 10:52:27 09/19/91
 TOT RUN TIME 0:16:00
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7204 cp

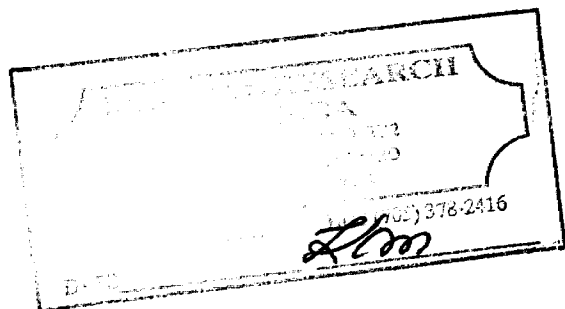
STARTING DIAMETER: 30.00 μ m
 ENDING DIAMETER: 0.56 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.65 μ m MODAL DIAMETER: 0.56 μ m

DIAMETER (μ m)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
30.00	100.0	0.4
40.00	99.5	0.5
50.00	98.0	1.5
25.00	96.5	1.5
20.00	92.7	3.8
15.00	88.9	3.8
10.00	80.2	8.7
5.00	75.2	5.0
3.00	74.7	0.5
2.00	71.2	3.5
1.50	67.5	3.7
1.00	61.0	6.5
0.75	56.3	4.7
0.50	48.0	8.3
0.25	40.2	7.8
0.10	36.7	3.5
0.075	30.0	6.7
0.05	25.2	4.8
0.04	20.7	4.5



SAMPLE ID: 5100 12.103
 OPERATOR: [unclear]
 LIQUID: water
 RUN TYPE: Standard

UNIT NUMBER: 1
 START 14:28:50 11/02/88
 REPR: 10:58:05 05/13/91
 TOT RUN TIME 0:16:50
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.1204 cp

STARTING DIAMETER: 0.100 um
 ENDING DIAMETER: 0.140 um

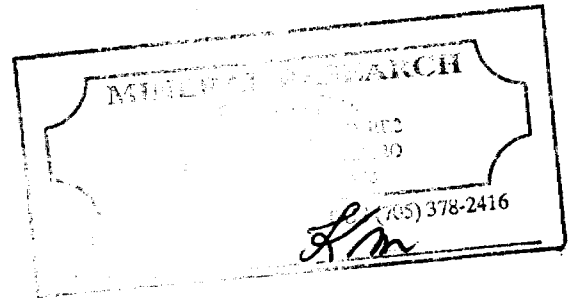
REYNOLDS NUMBER: 0.11
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MODAL DIAMETER: 4.02 um

MODAL DIAMETER: 4.02 um

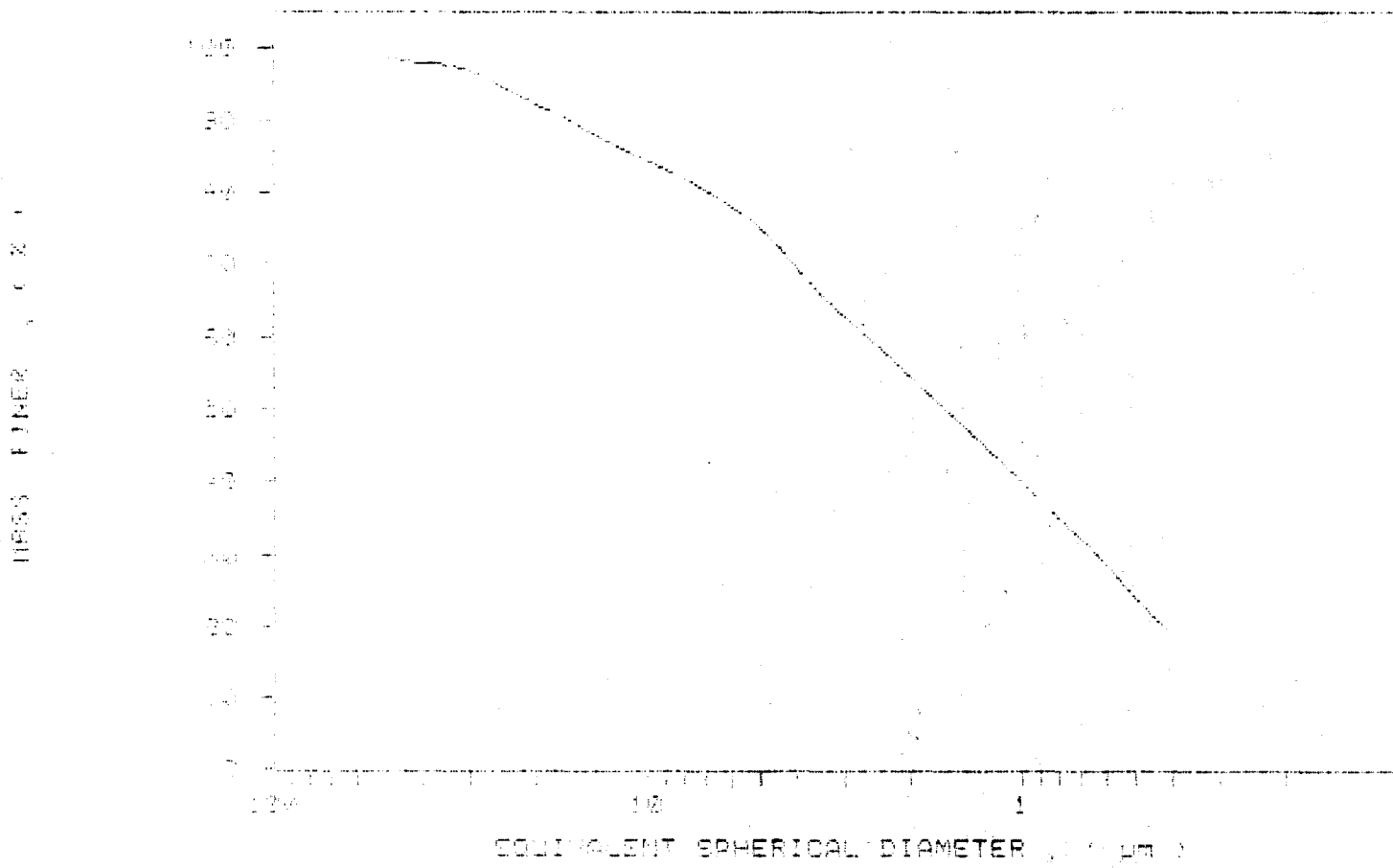
DIAMETER (um)	CUMULATIVE MASS (%)	MASS IN INTERVAL (%)
0.100	0.00	1.2
0.120	1.2	1.0
0.140	2.2	1.1
0.160	3.3	1.0
0.180	4.3	0.9
0.200	5.2	0.9
0.220	6.1	0.9
0.240	7.0	0.9
0.260	7.9	0.9
0.280	8.8	0.9
0.300	9.7	0.9
0.320	10.6	0.9
0.340	11.5	0.9
0.360	12.4	0.9
0.380	13.3	0.9
0.400	14.2	0.9
0.420	15.1	0.9
0.440	16.0	0.9
0.460	16.9	0.9
0.480	17.8	0.9
0.500	18.7	0.9
0.520	19.6	0.9
0.540	20.5	0.9
0.560	21.4	0.9
0.580	22.3	0.9
0.600	23.2	0.9
0.620	24.1	0.9
0.640	25.0	0.9
0.660	25.9	0.9
0.680	26.8	0.9
0.700	27.7	0.9
0.720	28.6	0.9
0.740	29.5	0.9
0.760	30.4	0.9
0.780	31.3	0.9
0.800	32.2	0.9
0.820	33.1	0.9
0.840	34.0	0.9
0.860	34.9	0.9
0.880	35.8	0.9
0.900	36.7	0.9
0.920	37.6	0.9
0.940	38.5	0.9
0.960	39.4	0.9
0.980	40.3	0.9
1.000	41.2	0.9
1.020	42.1	0.9
1.040	43.0	0.9
1.060	43.9	0.9
1.080	44.8	0.9
1.100	45.7	0.9
1.120	46.6	0.9
1.140	47.5	0.9
1.160	48.4	0.9
1.180	49.3	0.9
1.200	50.2	0.9
1.220	51.1	0.9
1.240	52.0	0.9
1.260	52.9	0.9
1.280	53.8	0.9
1.300	54.7	0.9
1.320	55.6	0.9
1.340	56.5	0.9
1.360	57.4	0.9
1.380	58.3	0.9
1.400	59.2	0.9
1.420	60.1	0.9
1.440	61.0	0.9
1.460	61.9	0.9
1.480	62.8	0.9
1.500	63.7	0.9
1.520	64.6	0.9
1.540	65.5	0.9
1.560	66.4	0.9
1.580	67.3	0.9
1.600	68.2	0.9
1.620	69.1	0.9
1.640	70.0	0.9
1.660	70.9	0.9
1.680	71.8	0.9
1.700	72.7	0.9
1.720	73.6	0.9
1.740	74.5	0.9
1.760	75.4	0.9
1.780	76.3	0.9
1.800	77.2	0.9
1.820	78.1	0.9
1.840	79.0	0.9
1.860	79.9	0.9
1.880	80.8	0.9
1.900	81.7	0.9
1.920	82.6	0.9
1.940	83.5	0.9
1.960	84.4	0.9
1.980	85.3	0.9
2.000	86.2	0.9
2.020	87.1	0.9
2.040	88.0	0.9
2.060	88.9	0.9
2.080	89.8	0.9
2.100	90.7	0.9
2.120	91.6	0.9
2.140	92.5	0.9
2.160	93.4	0.9
2.180	94.3	0.9
2.200	95.2	0.9
2.220	96.1	0.9
2.240	97.0	0.9
2.260	97.9	0.9
2.280	98.8	0.9
2.300	99.7	0.9
2.320	100.0	0.9



LABORATORY: D100 10100
 SAMPLE IDENTIFICATION NUMBER: DAF01 1000
 SAMPLE ID: 10100 10100 10100
 SUBMITTER: James Ray Co.
 OPERATOR: James Ray
 SAMPLE TYPE: Clay
 LABORATORY: James Ray
 ANALYSIS UNIT: 10100 10100 10100 RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:28:50 11/02/99
 REFRY 10:58:00 09/19/91
 TOT RUN TIME 0:16:02
 SAM WTS: 2.6500 g/c
 LIQ WTS: 0.0941 g/cc
 LIQ VISC: 0.7204 cc

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE IDENTIFICATION NUMBER: 7504
 SAMPLE ID: view 11/02 @ 11:05
 SUBMITTER: James Lee Co.
 OPERATOR: Marina
 SAMPLE TYPE: water
 LIQUID TYPE: water
 ENERGY UNIT: 10.1 deg C RUN TYPE: Standard

UNIT NUMBER: J
 START 14:09:18 11/02/99
 REPT 11:05:17 09:15/99
 TOT RUN TIME 0:16:39
 SAM DENS: 2.5500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7204 cp

STARTING DIAMETER: 0.100 um
 ENDING DIAMETER: 0.140 um

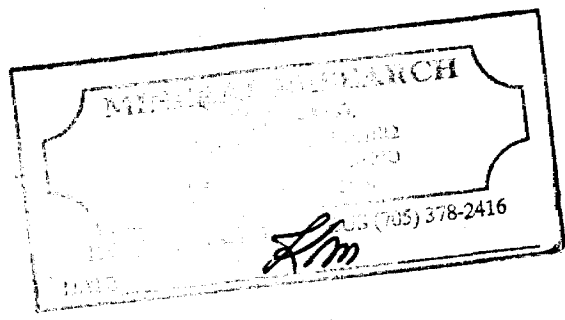
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

BASE DISTRIBUTION

NUMBER OF CHANNELS: 33 um

NODAL DIAMETER: 0.140 um

DIAMETER (um)	CUMULATIVE PERCENT FIBER	MASS PERCENT INTERVAL
0.100	0.00	0.1
0.105	0.14	1.0
0.110	0.28	2.5
0.115	0.42	1.0
0.120	0.56	1.2
0.125	0.70	2.0
0.130	0.84	4.1
0.135	0.98	2.0
0.140	1.00	1.0
0.145	0.00	0.0
0.150	0.00	0.0
0.155	0.00	0.0
0.160	0.00	0.0
0.165	0.00	0.0
0.170	0.00	0.0
0.175	0.00	0.0
0.180	0.00	0.0
0.185	0.00	0.0
0.190	0.00	0.0
0.195	0.00	0.0
0.200	0.00	0.0
0.205	0.00	0.0
0.210	0.00	0.0
0.215	0.00	0.0
0.220	0.00	0.0
0.225	0.00	0.0
0.230	0.00	0.0
0.235	0.00	0.0
0.240	0.00	0.0

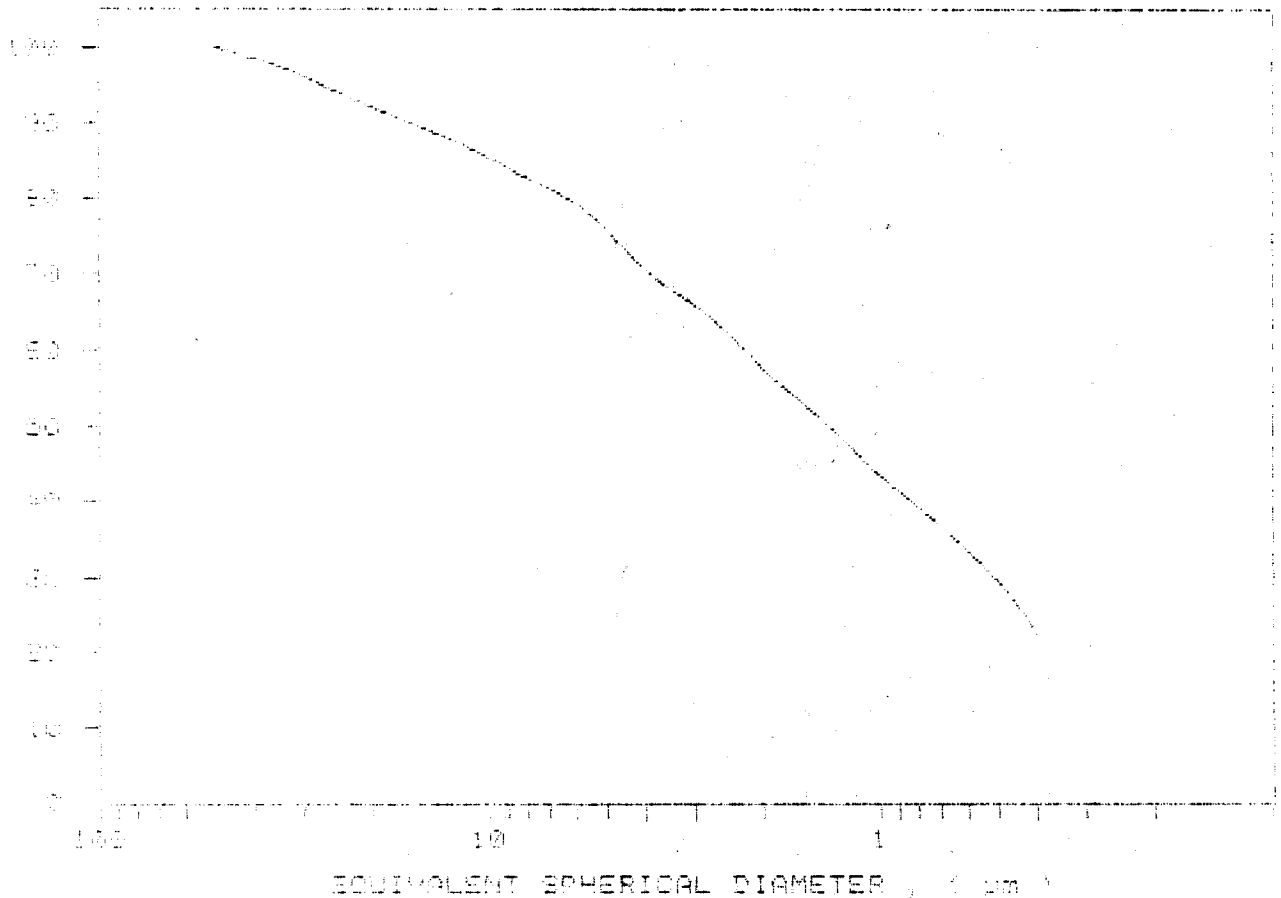


Sample Description: 7064
 Sample ID: 11/02/99 + 1510
 Submitted: 11/02/99
 Operator: [unclear]
 Sample Type: [unclear]
 Liquid Type: water
 Analysis Type: [unclear] Run Type: Standard

UNIT NUMBER: 1
 START 14:59:15 11/02/99
 REPT 11:03:17 09/19/91
 TOT RUN TIME 0:16:50
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.17204 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER

MASS FINER (%)



UNIT NO: 11702789
 SAMPLE ID: none
 SUBMITTER: none
 OPERATOR: none
 LIQUID TYPE: water
 ANALYSIS TECH: none
 RUN TYPE: standard

UNIT NUMBER: 1
 START 11:25:22 11/02/89
 REPT 11:09:44 09/19/91
 TOT RUN TIME 0:16:57
 SAM DENS: 0.9999 g/cc
 LIQ DENS: 0.9999 g/cc
 LIQ VISC: 0.7204 cp

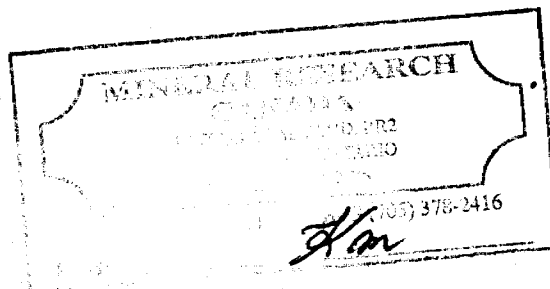
STARTING DIAMETER: 50.00 um
 ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MODAL DIAMETER: 1.80 um MODAL DIAMETER: 0.40 um

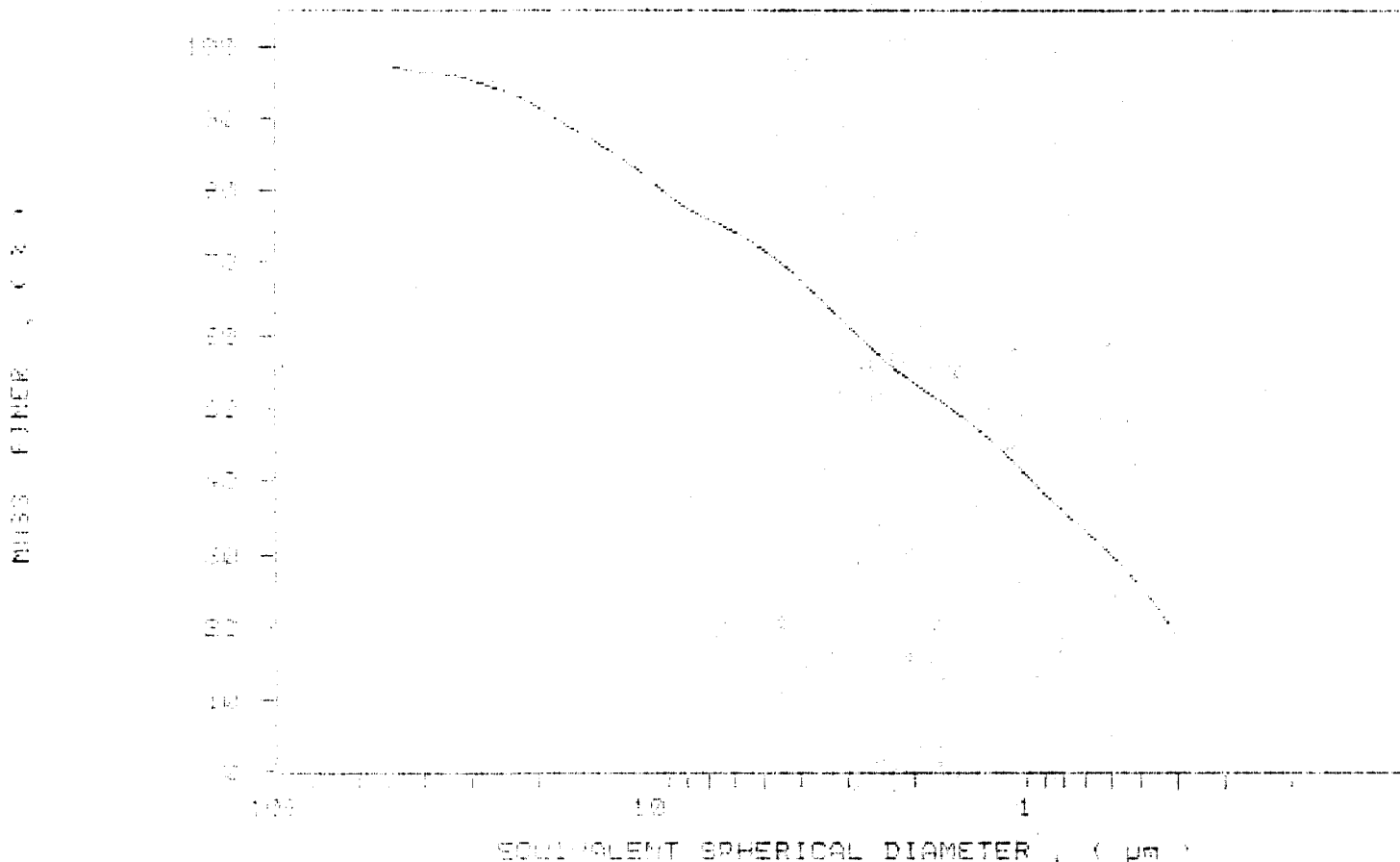
DIAMETER (um)	WGT %	MASS IN INTERVAL (%)
50.00	0.0	1.6
40.00	0.0	1.0
30.00	0.0	1.0
20.00	0.0	1.4
15.00	0.0	2.4
10.00	0.0	0.0
8.00	0.0	0.2
6.00	0.0	0.8
5.00	0.0	0.1
4.00	0.0	1.6
3.00	0.0	0.2
2.00	0.0	0.0
1.50	0.0	0.0
1.00	0.0	0.0
0.75	0.0	0.0
0.50	0.0	0.0
0.40	0.0	0.0



SAMPLE IDENTIFICATION NUMBER: 72003
 SAMPLE ID: 7012 D 30-2 # 10127
 SUBMITTER: 3000000000000000
 DATE: 10/10/83
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 25.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START: 15:29:22 11/02/83
 REPT: 11:09:44 09/19/81
 TOT RUN TIME: 0:16:57
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9991 g/cc
 LIQ VISC: 0.7204 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



UNIT NUMBER: 1
 START: 15:59:38 11/02/00
 REPORT: 11:14:10 03/19/01
 TOT RUN TIME: 0:10:00
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9341 g/cc
 LIQ VISC: 0.7294 cp
 RUN TYPE: Standard

UNIT NUMBER: 1
 START: 15:59:38 11/02/00
 REPORT: 11:14:10 03/19/01
 TOT RUN TIME: 0:10:00
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9341 g/cc
 LIQ VISC: 0.7294 cp

STREAM DIAMETER: 0.100 mm
 ORIFICE DIAMETER: 0.400 mm

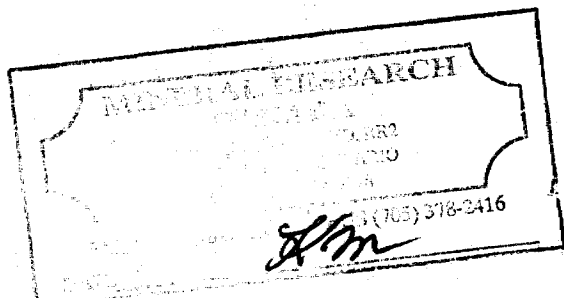
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEASURED MEAN DIA: 3.160 mm

MODAL DIAMETER: 1.100 mm

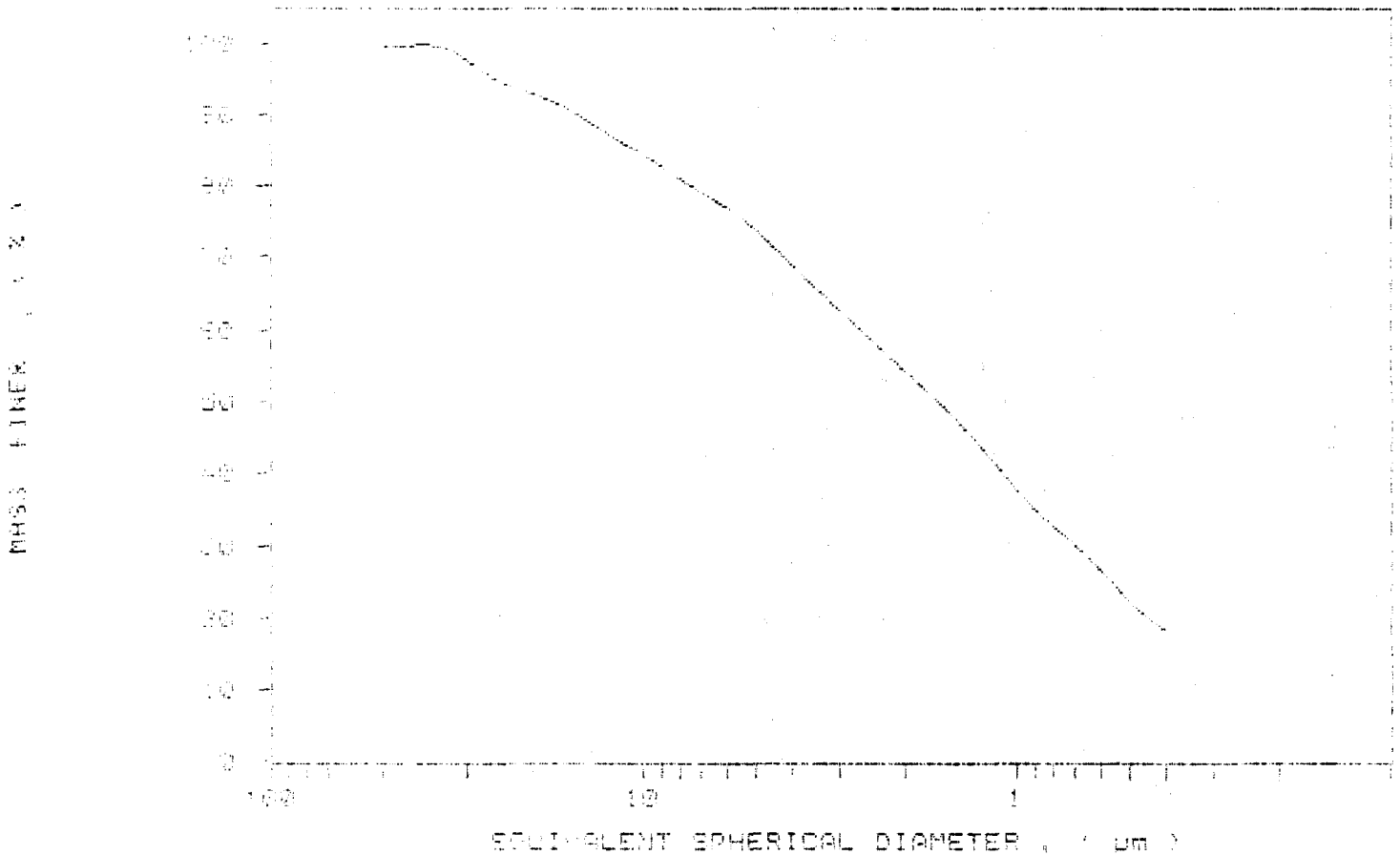
DIAMETER (mm)	CUMULATIVE PERCENT FINER (%)	MASS IN INTERVAL (%)
30.000	99.10	0.4
20.000	95.7	3.1
10.000	77.0	18.7
5.000	34.0	43.0
2.500	12.0	22.0
1.250	3.0	9.0
0.625	0.1	2.9
0.312	0.0	3.0
0.156	0.0	3.0
0.078	0.0	3.0
0.039	0.0	3.0
0.019	0.0	3.0
0.009	0.0	3.0
0.004	0.0	3.0
0.002	0.0	3.0
0.001	0.0	3.0



UNIT NO: 00010000, ANALY: DATA 7356
 SAMPLE ID: Hole # 20-E # 10100
 COUNTRY: Japan, City: Utsunomiya
 OPERATOR: aser 000
 SAMPLE TYPE: Clay
 LIQUID: Dist. water
 ANALYSIS CLIP: 05.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 15:59:55 11/02/99
 REPT 11:14:10 09/19/91
 TOT RUN TIME 0:16:50
 SAN DENS: 2.6500 g/cc
 LIQ DENS: 0.9991 g/cc
 LIQ VISC: 0.7204 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE IDENTIFICATION NUMBER: 7887
 SAMPLE NO: 101-101-101-101
 SUBMITTER:
 OPERATOR:
 SAMPLE TYPE:
 LIQUID TYPE:
 ANALYSIS TYPE:
 RUN TYPE: Standard

UNIT NUMBER: 1
 START: 11:29:01 11/02/99
 REPR: 11:12:25 01/19/99
 TOT RUN TIME: 01:16:37
 SAM DENS: 8.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7204 cp

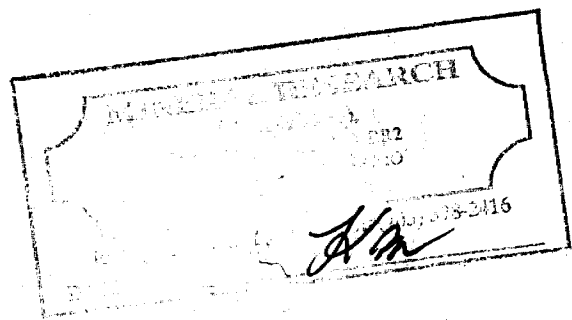
STARTING DIAMETER: 0.0400 cm
 ENDING DIAMETER: 0.1400 cm

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

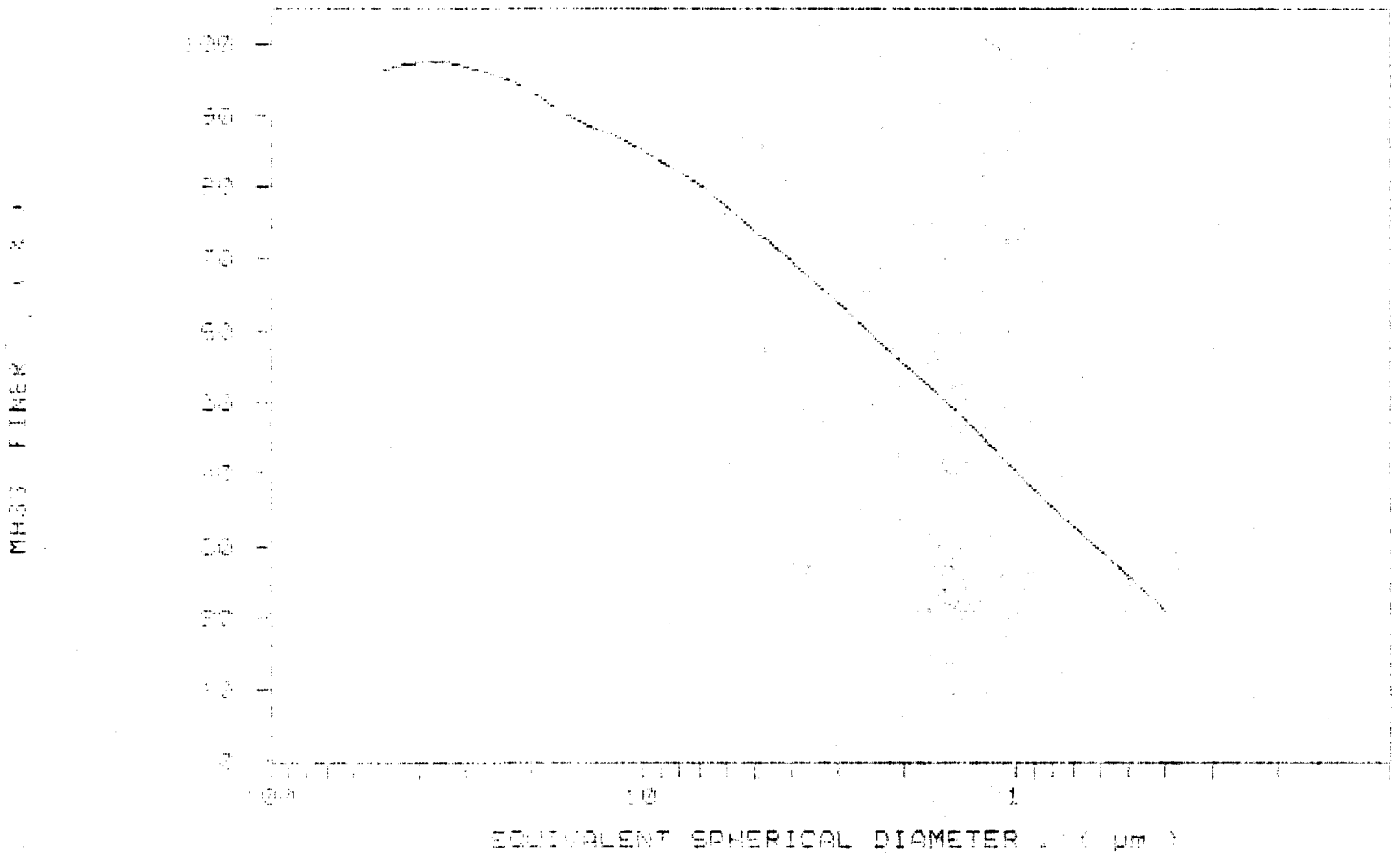
COLLECTOR DIAMETER: 0.154 cm MODAL DIAMETER: 1.14 cm

DIAMETER (cm)	CUMULATIVE MASS (%)	MASS IN INTERVAL (%)
0.075	0.12	0.17
0.088	0.15	0.19
0.102	0.18	0.20
0.117	0.21	0.22
0.133	0.24	0.23
0.150	0.27	0.24
0.168	0.30	0.25
0.187	0.33	0.26
0.207	0.36	0.27
0.228	0.39	0.28
0.250	0.42	0.29
0.273	0.45	0.30
0.298	0.48	0.31
0.323	0.51	0.32
0.350	0.54	0.33
0.378	0.57	0.34
0.408	0.60	0.35
0.439	0.63	0.36
0.472	0.66	0.37
0.507	0.69	0.38
0.544	0.72	0.39



SAMPLE IDENTIFICATION NUMBER: DATA	7907	UNIT NUMBER: 1
SAMPLE NO. FROM ORIGINAL SOURCE		STAR: 15:29:31 11/02/99
SUBMITTER: James Ray Co.		REPKT 11:18:35 09/19/01
OPERATOR: KENNETH RICHIE		TOT RUN TIME: 0:16:00
SAMPLE TYPE: Gray		SAM DENS: 2.6500 g/cc
LIQUID: 70:30 Water		LIQ DENS: 0.9940 g/cc
ANALYSIS METHOD: 60:40 deg C	RUN TYPE: Standard	LIQ VISC: 0.7204 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY NUMBER: 0000 7305
 SAMPLE ID: Core 0 R-1 # 18170
 SUBMITTER: James Day Co.
 OPERATOR: Gascon
 SAMPLE TYPE: Clay
 LIQUID: Water
 ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 06:10:38 11/08/99
 REPT 11:28:01 05/19/01
 TOT RUN TIME 0:17:29
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7200 cp

STARTING DIAMETER: 10.00 um
 ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

POSS DISTRIBUTION

MODAL DIAMETER: 5.17 um NODAL DIAMETER: 5.17 um

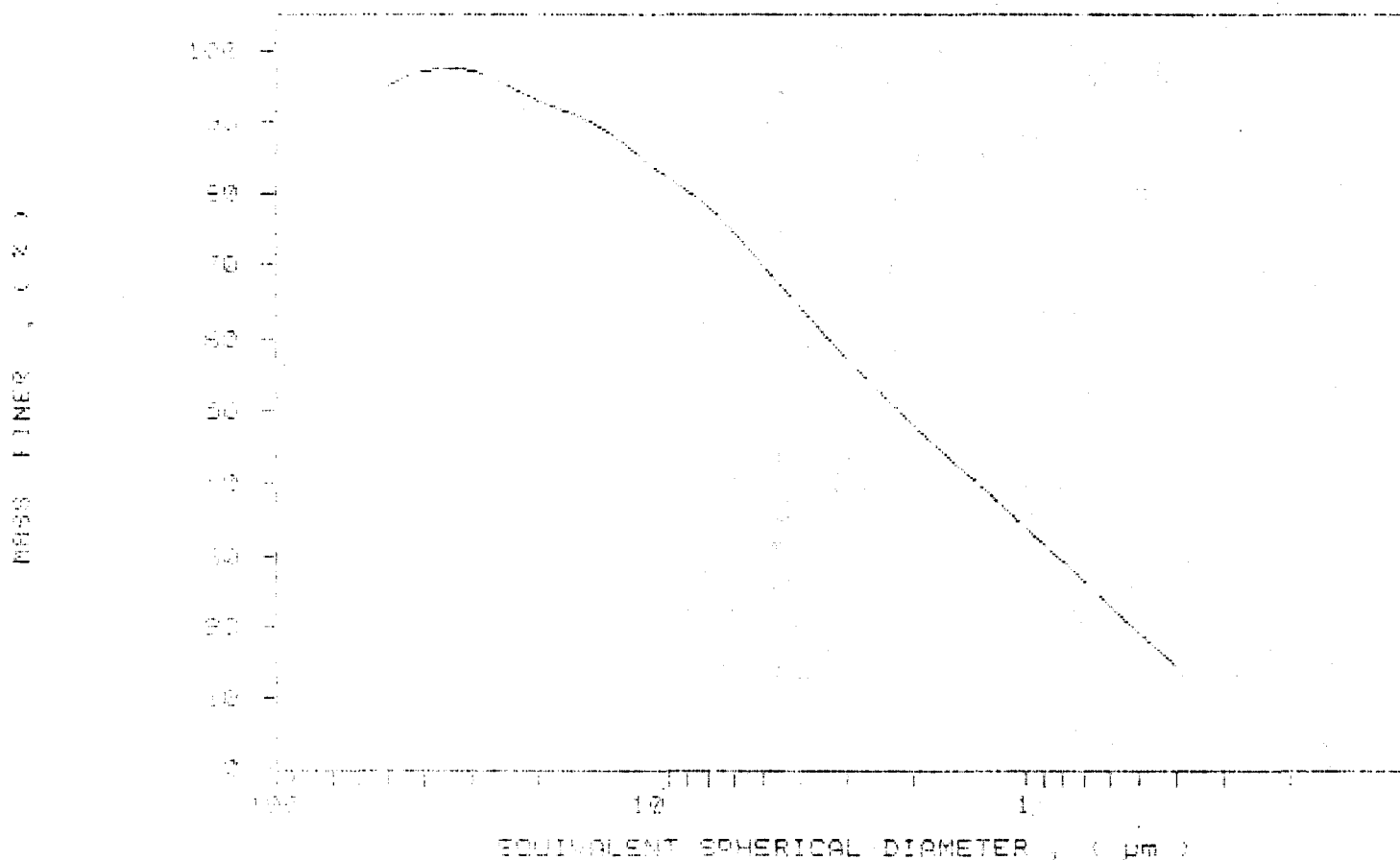
DIAMETER (um)	CUMULATIVE MASS (%)	POSS IN INTERVAL (%)
10.00	34.0	3.1
9.00	37.1	3.1
8.00	39.4	2.3
7.00	42.8	3.4
6.00	46.2	3.4
5.00	49.6	3.4
4.50	53.0	3.4
4.00	56.4	3.4
3.50	59.8	3.4
3.00	63.2	3.4
2.50	66.6	3.4
2.00	70.0	3.4
1.50	73.4	3.4
1.00	76.8	3.4
0.75	80.2	3.4
0.50	83.6	3.4
0.40	87.0	3.4

MINERAL RESEARCH
 LABORATORY
 10000 W. 10th Ave
 Golden, CO 80401
 (303) 373-2416
JM

SAMPLE CHARACTERISTICS: DATA / 865
SAMPLE ID: Hole # 13-E # 13170
SAMPLE NO. Sample No. 101
OPERATOR: [unclear]
SAMPLE TYPE: Clay
LIQUID: water
ANALYSIS EMP: [unclear] deg L RUN TYPE: Standard

UNIT NUMBER: 1
START 09:10:38 11/08/09
REPT 11:55:01 09/19/91
TOT RUN TIME 0:17.29
SAR DENS: 2.6500 g/cc
LIQ DENS: 0.9941 g/cc
LIQ VISC: 0.7206 cp

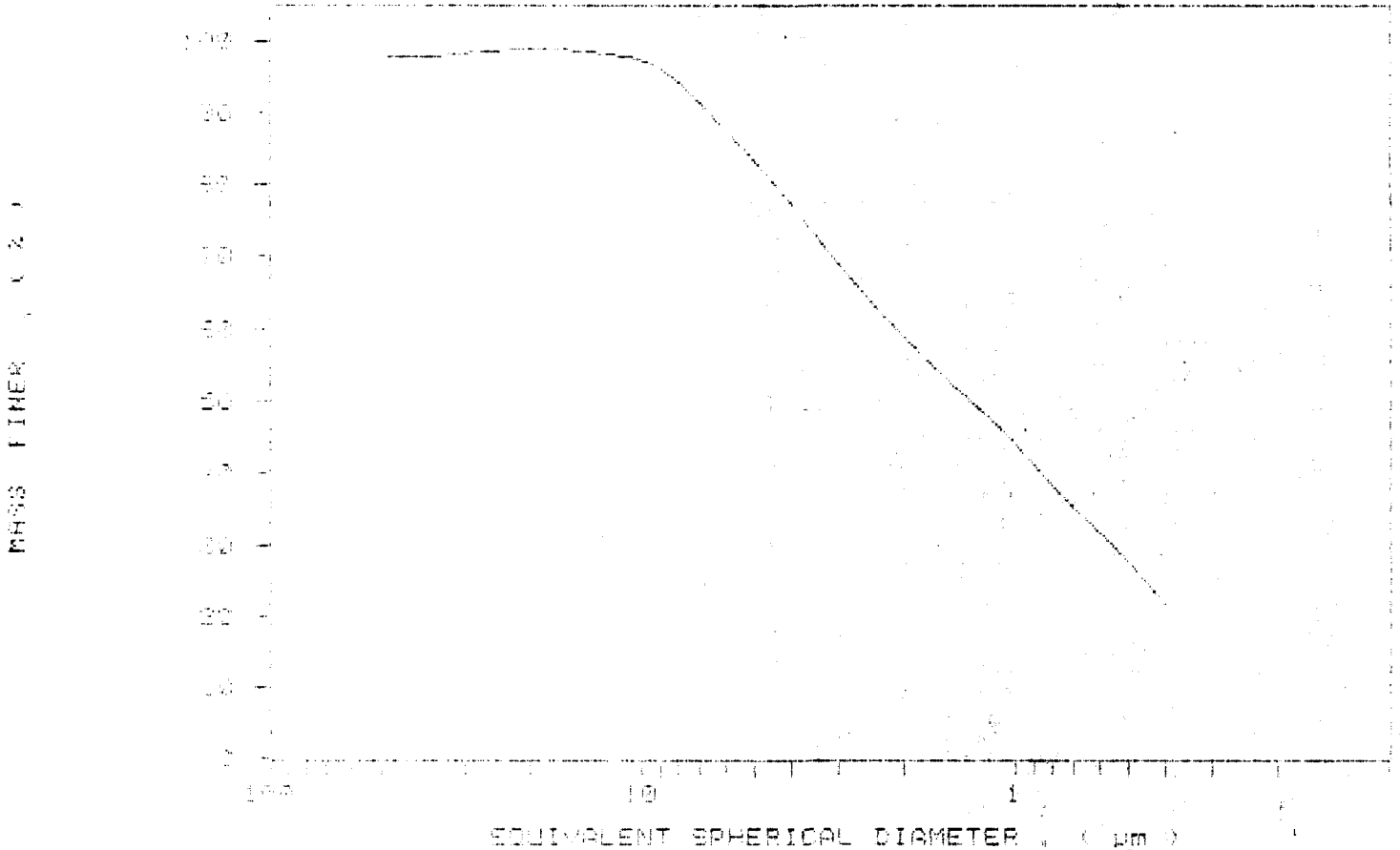
CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DISC/D: 10/10/11
SAMPLE ID: none a 2-2 #10111
SUBJECT: James Van...
OPERATOR: ...
SAMPLE TYPE: Clay
LUBRICANT: ...
ANALYSIS DATE: 09/12/09 RUN TYPE: Standard

UNIT NUMBER: 1
START 08:30:24 11/03/89
REPT 11:27:25 09/19/91
TOT RUN TIME 0:17:00
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9994 g/cc
LIQ VISC: 0.7200 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE NUMBER: 1109 V2193 / 370
 SAMPLE ID: Note D SO-2 & 10112
 Substrate: paper base
 Particle Size: Clay
 Liquid Phase: water
 Analysis Type: Size anal
 RUN TYPE: Standard

UNIT NUMBER: 1
 START: 09:43:53 11/03/89
 REPORT: 11:31:31 09/19/91
 TOT RUN TIME: 0:17:23
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.994 g/cc
 LIQ VISC: 0.7208 cp

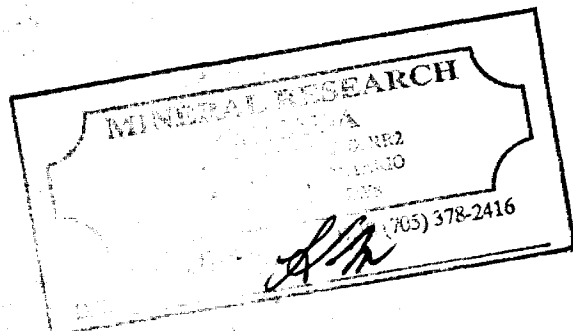
STARTING DIAMETER: 75.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.128
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MODAL DIAMETER: 2.45 μ m MODAL DIAMETER: 0.72 μ m

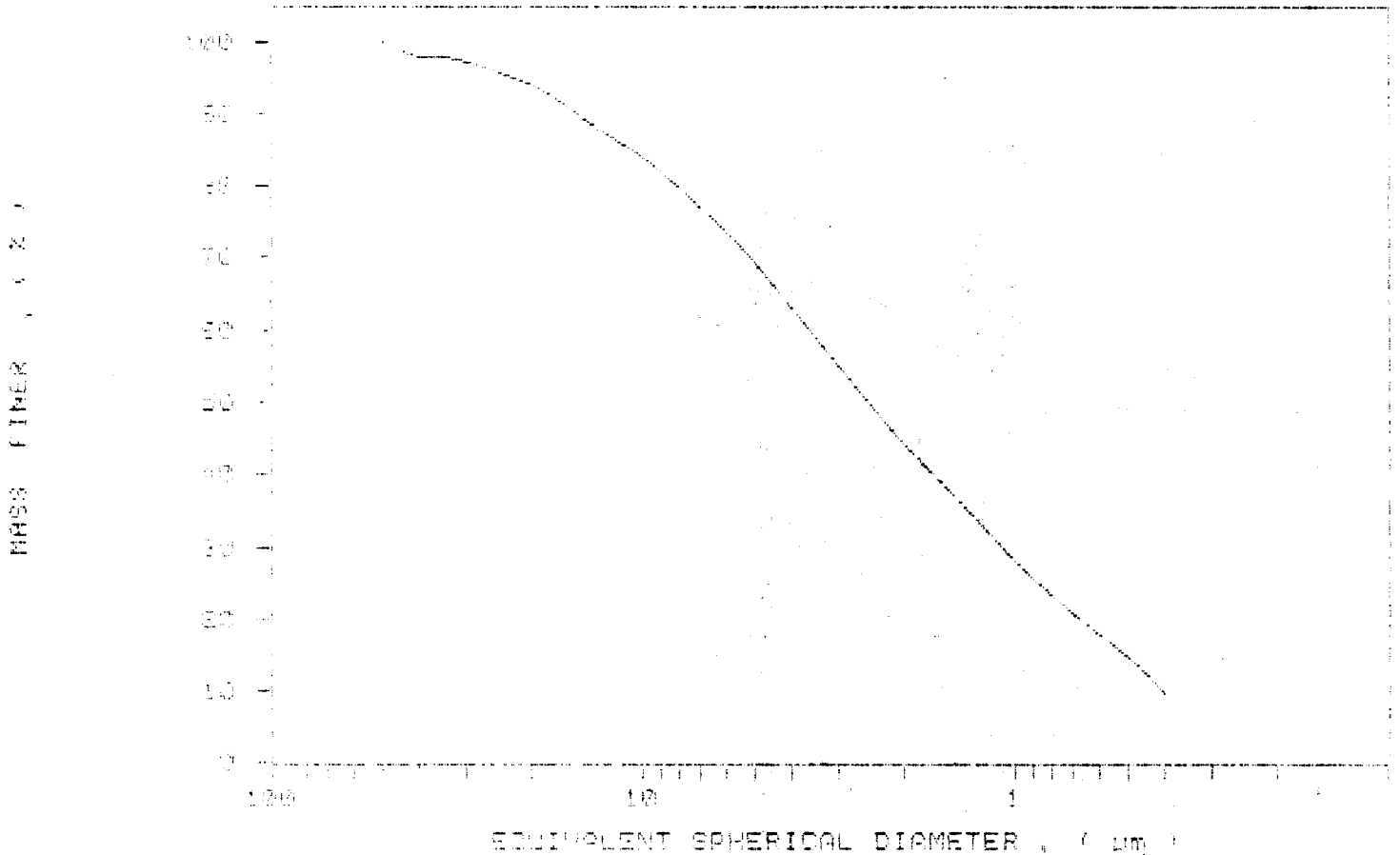
DIAMETER (μ m)	CUMULATIVE MASS PERCENT (%)	MASS IN INTERVAL (%)
50.00	10.0	0.1
40.00	17.0	2.0
30.00	27.1	0.7
25.00	35.2	1.4
20.00	44.8	1.5
15.00	54.5	4.1
10.00	64.6	6.0
7.50	73.2	4.1
5.00	80.7	2.2
3.00	89.2	4.4
2.00	93.1	0.9
1.50	94.2	0.2
1.00	95.7	0.6
0.75	97.0	0.7
0.50	98.4	4.6
0.40	99.0	0.9
0.30	99.7	0.0
0.20	100.0	0.0



SAMPLE DIRECTORY/NUMBER: DATA 7870
 SAMPLE ID: H09 D 00-2 3 15178
 SUBMITTER: James Ray Co.
 OPERATOR: Kaelina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TYPE: Soil seg C RUN TYPE: Standard

UNIT NUMBER: 1
 START: 09:43:58 11/03/89
 REPT: 11:31:51 09/19/91
 TOT RUN TIME: 0117:22
 SAM DENS: 2.6300 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7200 cP

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY NUMBER: 04161 7371
 SAMPLE lot: none 1 sh-1 2 10170
 SUBMITTER: James Ray Co.
 OF ORIGIN: Kentucky
 SAMPLE TYPE: clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 25.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:15:48 11/03/89
 REPT 11:36:16 09/10/91
 TOT RUN TIME 0:17:38
 SAM DENS: 2.6500 g/cc
 LID DENS: 0.9941 g/cc
 LID VISC: 0.7206 cp

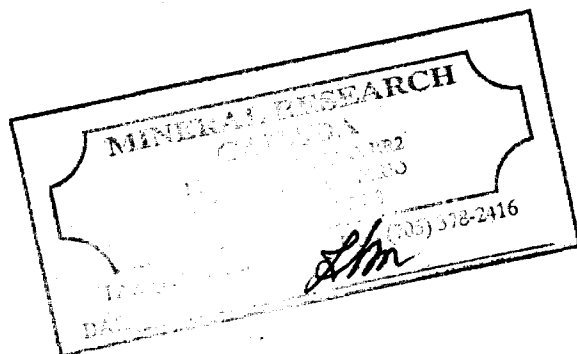
STARTING DIAMETER: 50.00 um
 ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 0.20
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

ALLIED DIAMETER: 0.12 um MODAL DIAMETER: 2.68 um

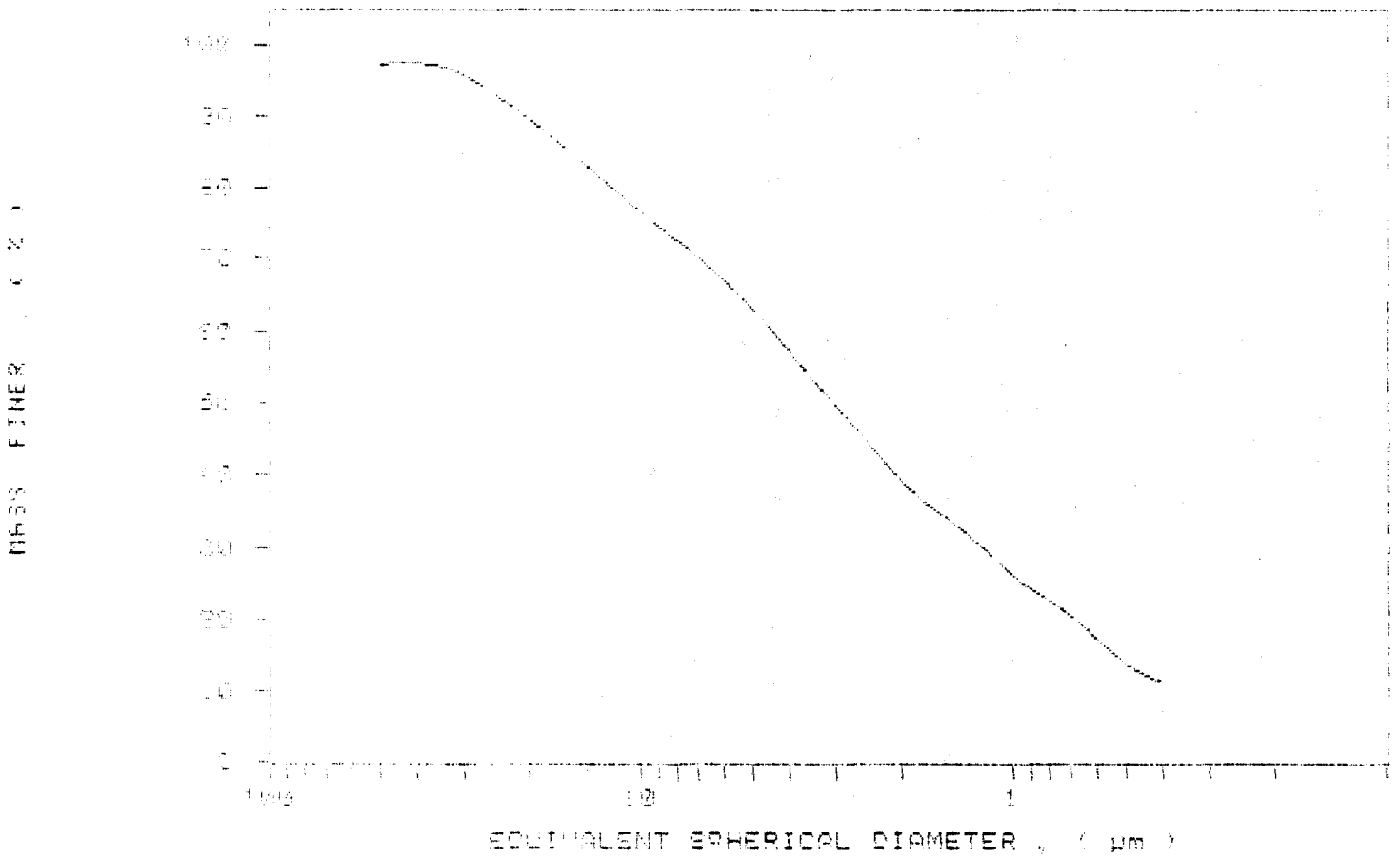
DIAMETER um	CUMULATIVE MSSL FINER Wt	MASS IN INTERVAL Wt
50.00	37.2	0.0
40.00	38.0	-0.8
30.00	38.2	1.2
20.00	37.2	0.9
15.00	35.2	2.1
10.00	34.2	1.4
5.00	20.6	1.8
1.00	78.0	8.7
0.50	70.1	4.2
0.20	64.4	5.6
0.10	55.6	7.7
0.075	40.7	11.1
0.05	30.9	8.2
0.03	20.8	2.6
0.02	20.0	1.8
0.01	21.8	0.2
0.007	12.0	0.2
0.004	14.1	4.4



SAMPLE DIRECTION: NUMBER: 00001 / 0002
 SAMPLE ID: note 0 ad-c + 10174
 SUBSTRATE: James Har Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 25.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:47:17 11/06/89
 REPT 11:40:41 09/19/91
 TOT RUN TIME 0:17:02
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7206 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE IDENTIFICATION NUMBER: 1075
 SAMPLE ID: Note 2 0002 4 13175
 SAMPLE TYPE: Standard
 OPERATOR: Kaarina
 SAMPLE TYPE: Dry
 LIQUID TYPE: water
 ANALYSIS TYPE: 0011 deg C Run TYPE: Standard

UNIT NUMBER: 1
 START 11:18:14 11/08/00
 REPT 11:43:07 09/19/01
 TOT RUN TIME 0:17:20
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7207 cp

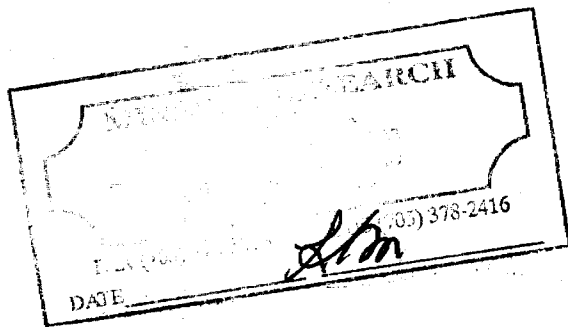
STARTING DIAMETER: 10.00 um
 ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MODAL DIAMETER: 0.40 um

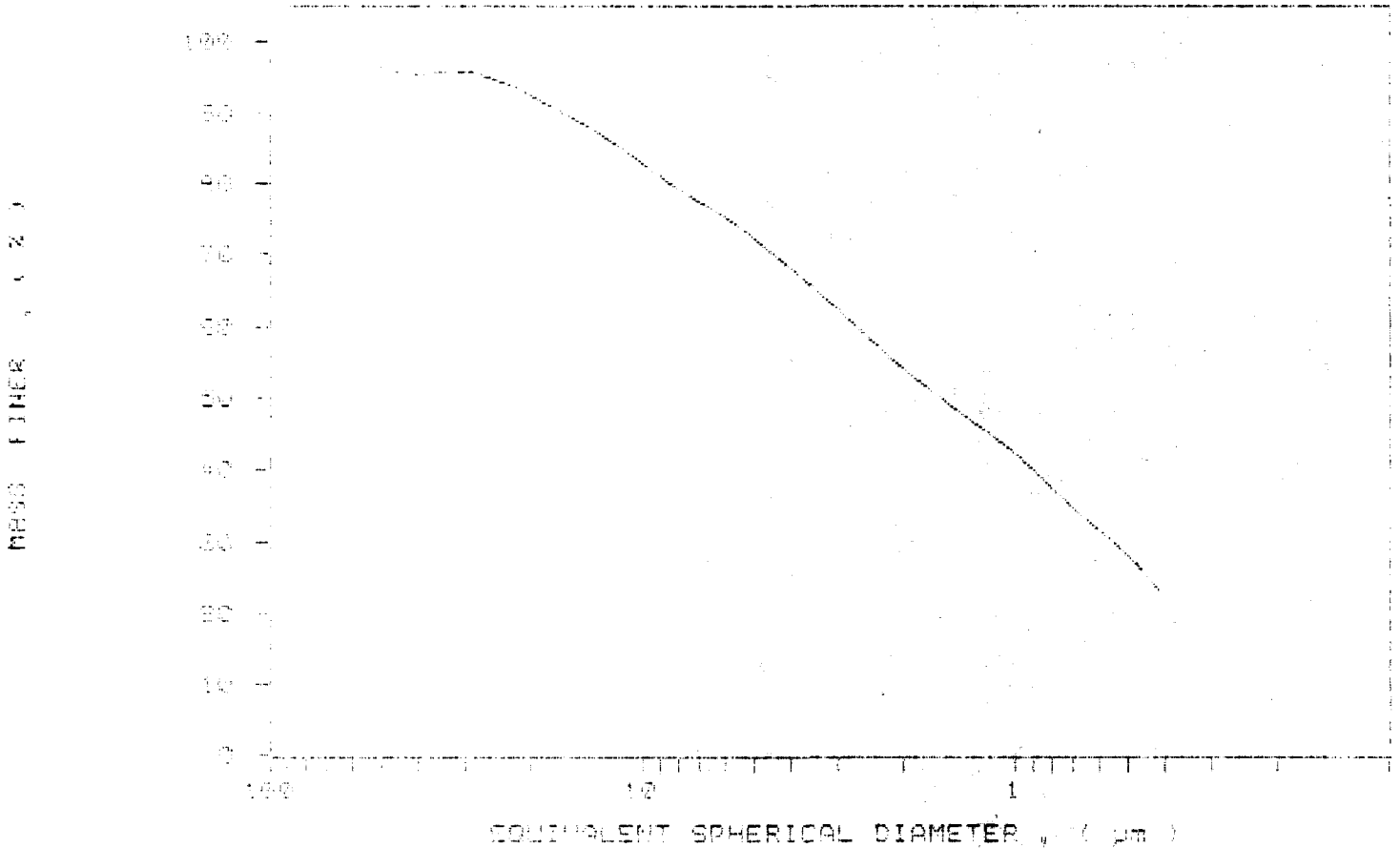
DIAMETER (um)	CUMULATIVE MASS (%)	MASS IN INTERVAL (%)
10.00	99.4	0.6
9.00	98.7	0.7
8.00	97.9	0.8
7.00	96.9	1.0
6.00	95.7	1.2
5.00	94.3	1.4
4.00	92.7	1.6
3.00	90.8	1.9
2.00	88.6	2.2
1.50	86.1	2.5
1.00	83.3	2.8
0.75	80.2	3.1
0.60	76.8	3.4
0.50	73.1	3.7
0.40	68.1	5.0



SAMPLE DIRECTOR: [unclear] /878
 SAMPLE ID: [unclear] # 15175
 SUBMITTER: [unclear]
 OPERATOR: [unclear]
 SAMPLE TYPE: [unclear]
 LIQUID TYPE: Water
 ANALYSIS TEMP: 25.0 deg C ADD TYPE: Standard

UNIT NUMBER: 1
 START 11:18:14 11/09/89
 REPT 11:45:07 09/19/91
 TOT RUN TIME 0:17:26
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7207 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTOR/Operator: DNTA1 /074
 SAMPLE ID: Hole D 02-2 # 13175
 SUBMITTER: James Nev. Lab.
 OPERATOR: Kaelin
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 25.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 11:48:02 11/03/09
 REPT 11:49:34 05/19/11
 TOT RUN TIME 0:17:26
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7207 cc

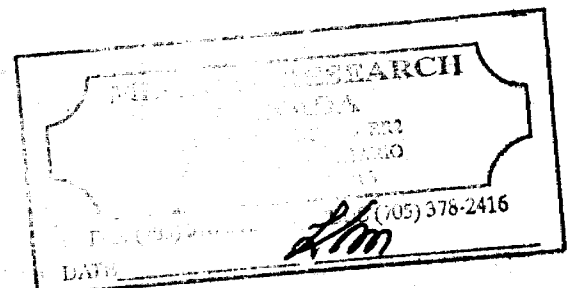
STARTING DIAMETER: 20.00 um
 ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

Filter Diameter: 100 um NODAL DIAMETER: 0.40 um

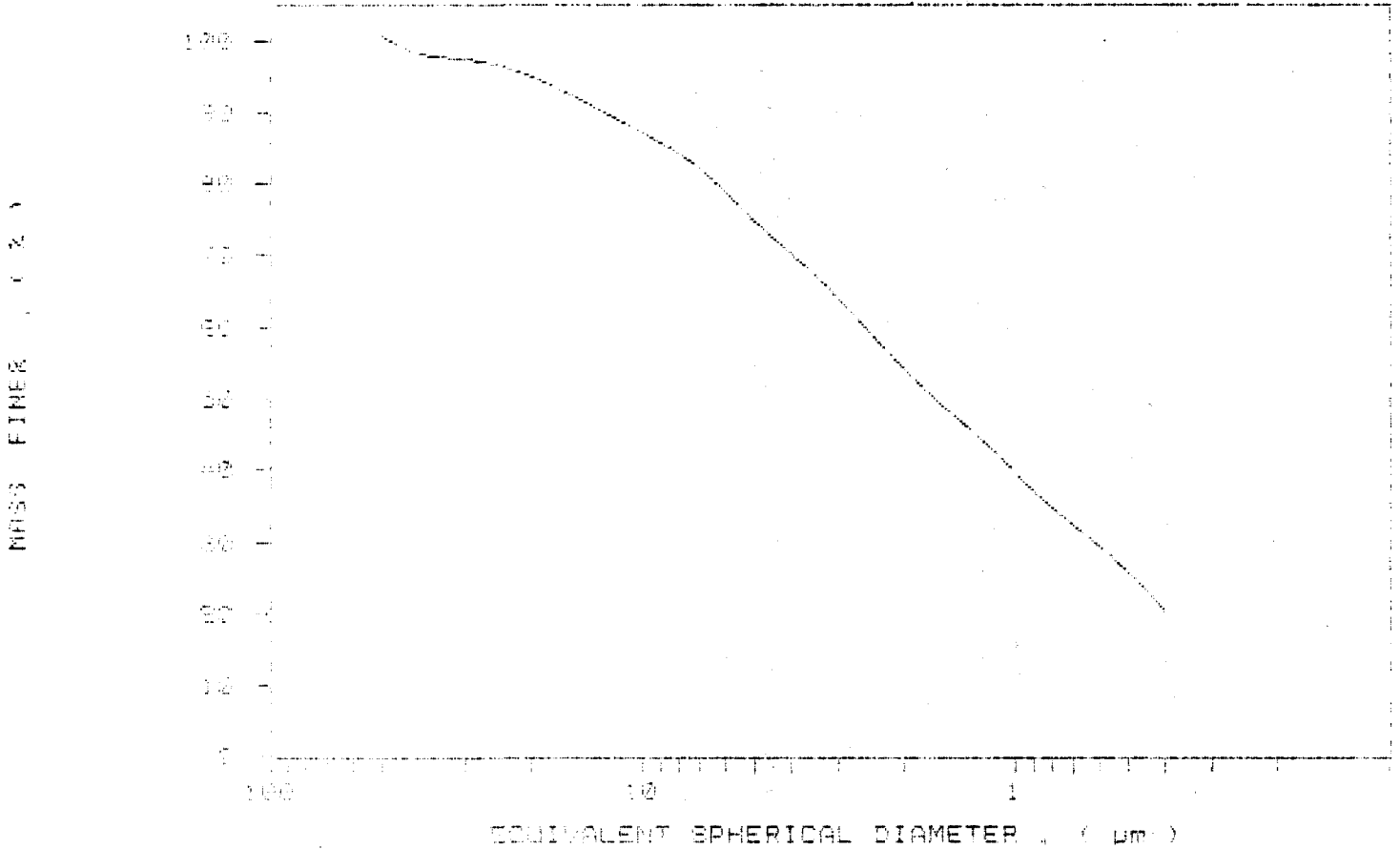
Diameter (um)	Cumulative Mass (%)	Mass in Interval (%)
20.00	100.0	0.0
18.00	98.1	2.4
16.00	97.4	0.8
14.00	96.6	0.7
12.00	95.6	1.0
10.00	94.6	1.0
8.00	93.8	0.8
6.00	92.7	1.1
4.00	91.5	1.2
2.00	89.0	2.5
1.50	86.4	2.6
1.00	83.9	2.5
0.75	81.7	2.2
0.50	79.2	2.5
0.40	76.2	3.0



SAMPLE IDENTIFICATION NUMBER: 0174
 SAMPLE ID: Note 3 23-2 + 10170
 QUANTITY: James Bay, Can.
 OPERATOR: user 10a
 SAMPLE COLLECTOR: user 10a
 LIQUID TYPE: water
 ANALYSIS TEMP: 10.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 11:49:02 11/03/99
 REPORT 11:49:34 03/19/01
 TOT RUN TIME 0:17:22
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7207 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE INFORMATION: DETAILED / 075
 SAMPLE ID: none D 08-2 # 15177
 SUBSTRATE: none
 OPERATOR: hearing
 SAMPLE TYPE: dry
 LIQUID TYPE: water
 ANALYSIS TEMP: 21.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 19:03:08 11/03/89
 REPR: 11:52:59 00/19/91
 TOT RUN TIME 0:17:22
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 1.00941 g/cc
 LIQ VISC: 0.7202 cp

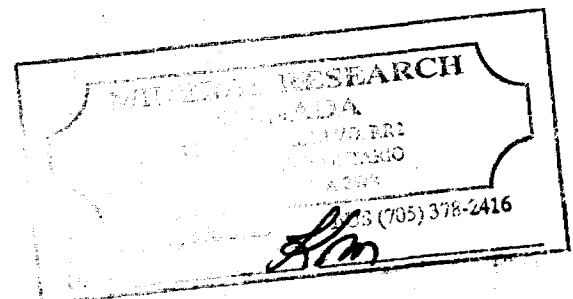
STARTING DIAMETER: 50.00 um
 ENDING DIAMETER: 0.50 um

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.00 um MODAL DIAMETER: 0.50 um

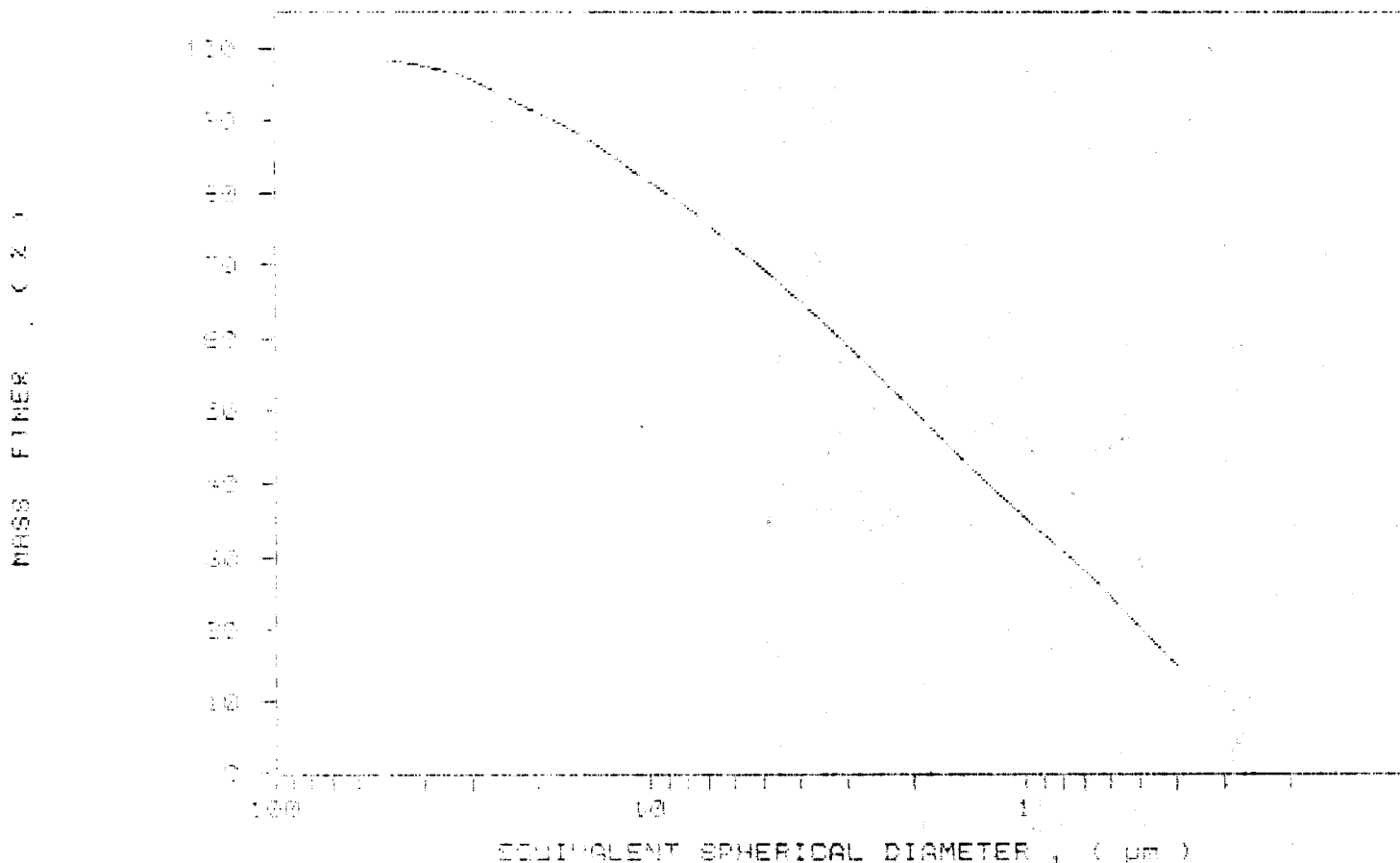
DIAMETER (um)	CUMULATIVE MASS (%)	MASS IN INTERVAL (%)
50.00	00.0	1.7
40.00	07.4	0.2
30.00	20.0	1.3
25.00	28.0	2.0
20.00	34.0	2.5
15.00	37.7	3.3
10.00	41.0	4.2
5.00	48.1	5.4
2.00	72.7	7.4
1.50	85.4	8.3
1.00	88.0	4.4
0.75	91.0	3.0
0.50	94.0	3.1
0.25	95.7	4.4
0.10	98.0	3.3
0.075	99.6	4.5
0.05	99.8	0.2
0.025	100.0	4.9
0.01	100.0	2.0



SAMPLE DIRECTION/NUMBER: DAIKI /375
 SAMPLE ID: Hole 5 Core #13177
 CURATOR: James Day, Jr.
 OPERATOR: Karolina
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 25.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 19:08:38 11/03/89
 REPT 11:55:59 09/19/91
 TOT RUN TIME 0:17:22
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7205 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTION NUMBER: 10178 / 576
 SAMPLE ID: Hole D Core # 10178
 SUBMITTER: James M. ...
 OPERATOR: Naalina
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYTIC TECH: ... seg D RUN TYPE: Standard

UNIT NUMBER: 1
 START 13:34:19 11/03/99
 REPR: 11:58:26 06/19/91
 TOT RUN TIME 0:17:20
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7207 cp

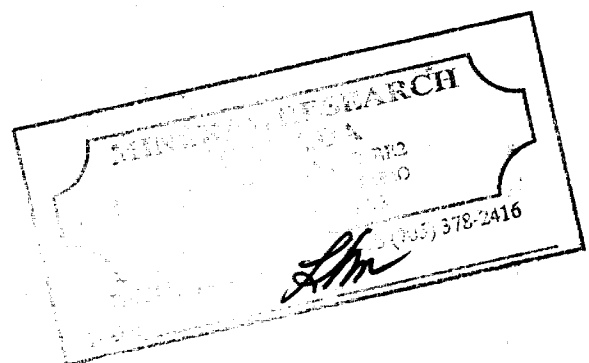
STARTING DIAMETER: 30.00 um
 ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIA DIAMETER: 2.00 um MODAL DIAMETER: 0.40 um

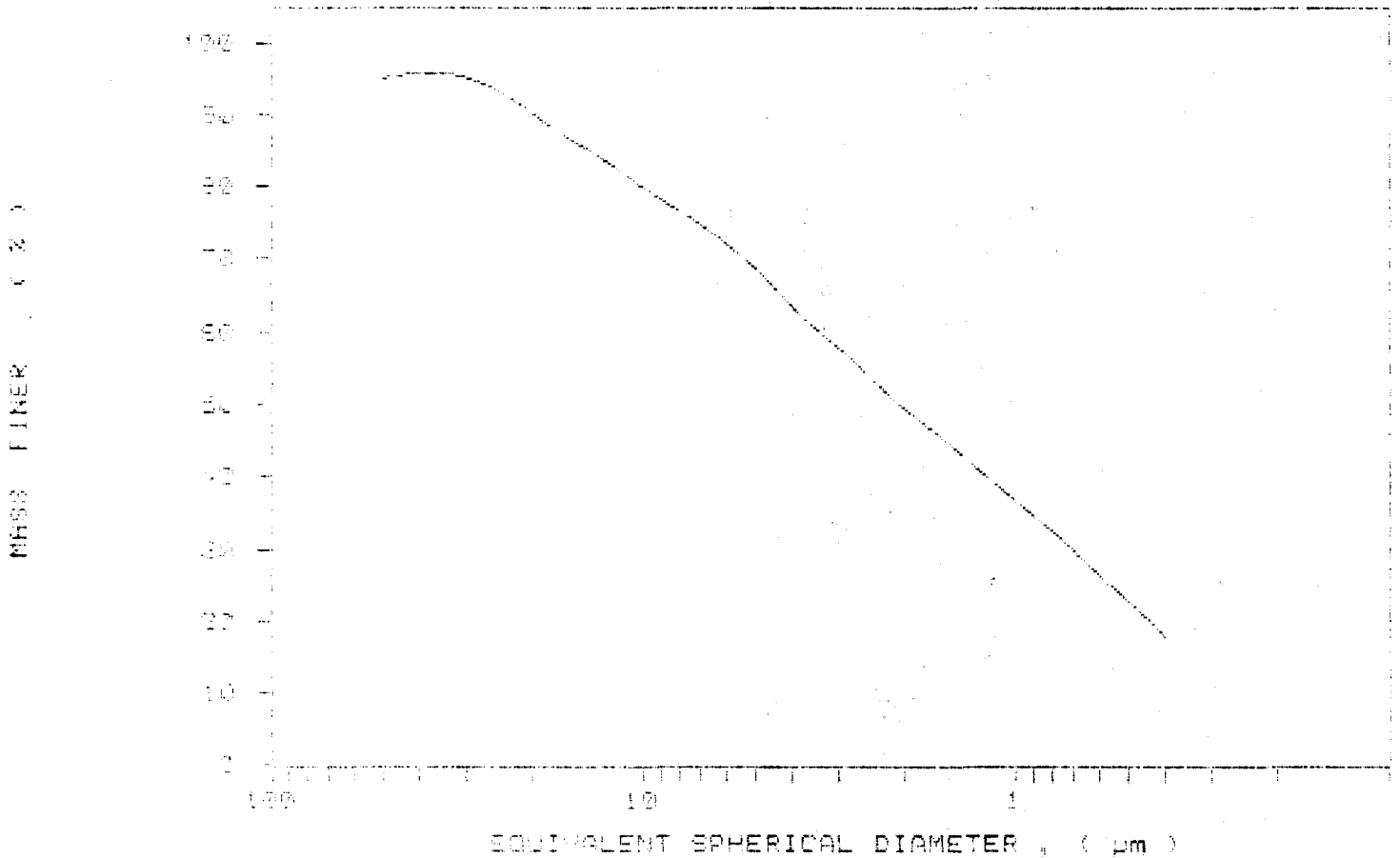
DIAMETER (um)	CUMULATIVE FINER (%)	MASS IN INTERVAL (%)
30.00	0.0	0.0
25.00	0.1	0.1
20.00	0.1	0.1
15.00	0.1	0.1
10.00	0.1	0.1
7.50	0.1	0.1
5.00	0.1	0.1
3.75	0.1	0.1
2.50	0.1	0.1
1.75	0.1	0.1
1.25	0.1	0.1
0.80	0.1	0.1
0.60	0.1	0.1
0.40	0.1	0.1



SAMPLE IDENTIFICATION NUMBER: 00000 7070
 SAMPLE ID: Note II 88-2 # 10170
 SUBMITTER: James Day, Co.
 OPERATOR: Naclin
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TYPE: Soil, org C RUN TYPE: Standard

UNIT NUMBER: 1
 START 19:34:19 11/08/99
 REPRY 11:58:28 09/19/99
 TOT RUN TIME 0:17:20
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9994 g/cc
 LIQ VISC: 0.7207 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTION: DOWN 7577
 SAMPLE ID: Note D CD-2 # 10110
 SUBMITTER: James Ray III
 OPERATIONS: N/A
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS REF: 1511 dsc C RUN TYPE: Standard

UNIT NUMBER: 1
 START 14:04:57 11/08/99
 REPT 12:02:52 09/10/91
 TOT RUN TIME 0:17:24
 SAM DENS: 2.6300 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7207 cp

STARTING DIAMETER: 50.00 um
 ENDING DIAMETER: 0.40 um

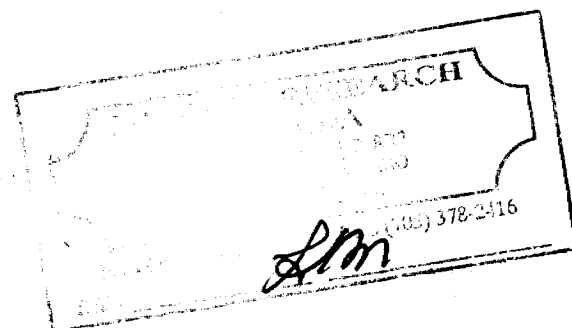
REYNOLDS NUMBER: 0.122
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEAN DIAMETER: 1.82 um

MODAL DIAMETER: 1.82 um

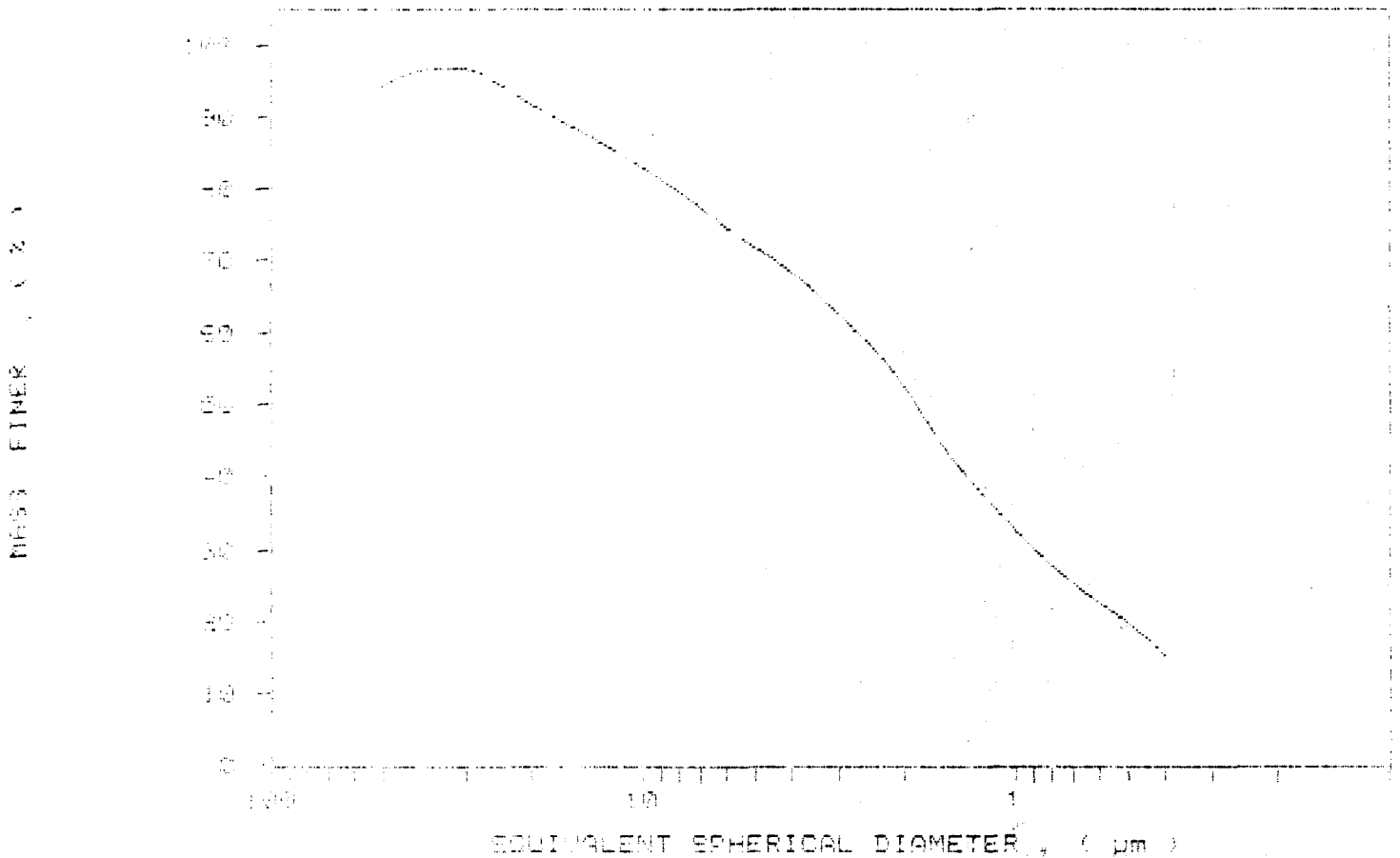
DIAMETER (um)	CUMULATIVE MASS (%)	MASS IN INTERVAL (%)
50.00	24.4	5.6
40.00	30.4	6.0
30.00	36.3	6.0
25.00	39.0	2.7
20.00	41.7	2.7
15.00	43.2	1.5
10.00	42.3	1.3
5.00	71.3	2.4
2.00	74.7	4.0
1.50	71.3	2.0
1.00	68.3	2.4
0.75	62.7	1.6
0.50	32.3	10.1
0.30	42.8	10.3
0.20	21.3	1.7
0.15	22.3	1.1
0.10	19.6	2.8
0.075	15.1	4.6



CAPILLARY DIAMETER/NUMBER: D0701 /277
 SAMPLE ID: Note 3 28-2 # 10175
 SUBMITTER: James Day Lab
 OPERATOR: Keayana
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 20.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 14:04:57 11/03/89
 REPT 12:02:52 09/19/91
 TOT RUN TIME 0:17:29
 SAN DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7207 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DISPOSITION: (number): DATA 7.370
 SAMPLE ID: Note D 10-1 + 10180
 BATCH TFR: James Mac Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TECH: 101 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 14:35:19 11/08/85
 REPR1 12:07:19 09/10/85
 TOT RUN TIME 0:17:27
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7200 cc

STARTING DIAMETER: 10.00 um
 Ending Diameter: 0.40 um

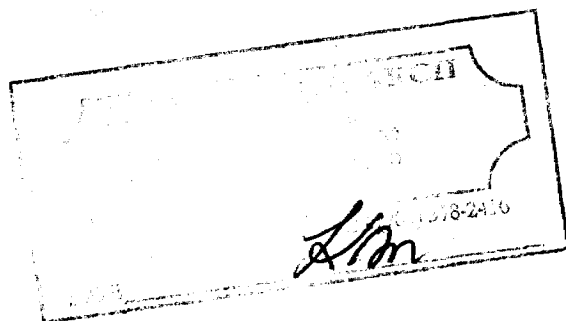
REYNOLDS NUMBER: 0.157
 FULL SCALE MASS % 100

MASS DISTRIBUTION

Median Diameter: 1.91 um

MODAL DIAMETER: 1.71 um

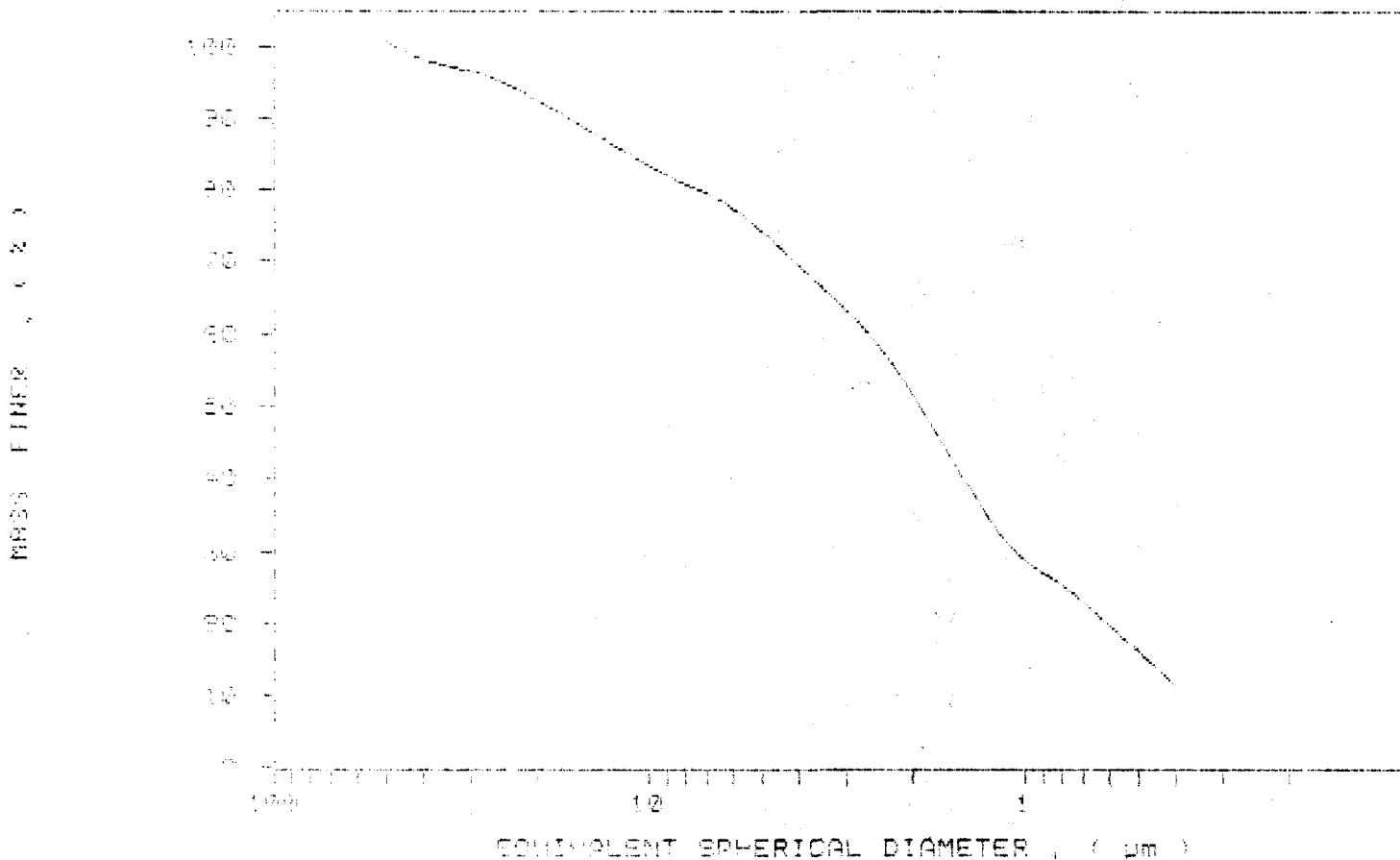
DIAMETER (um)	CUMULATIVE MASS FINER (%)	MASS IN INTERVAL (%)
10.00	100.0	0.3
40.00	99.9	0.4
20.00	99.5	1.0
30.00	98.1	1.4
20.00	92.6	2.6
15.00	82.6	3.6
10.00	55.4	5.4
5.00	35.5	5.5
3.00	27.5	6.4
2.00	20.5	6.2
1.50	11.7	11.8
1.00	9.1	16.7
0.75	23.7	12.3
0.50	23.2	2.5
0.40	19.5	5.6
0.30	16.0	1.7
0.20	11.5	4.7



SAMPLE DIRECTOR/NUMBER: DATA /978
 SAMPLE ID: note D 88-2 # 13180
 SUBMITTER: Peter K. Co.
 OPERATOR: radlin
 SAMPLE TYPE: Clay
 LIQUID PHASE: water
 ANALYSIS TEMP: 25.0 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 14:35:19 11/09/89
 REPORT 12:07:13 09/19/91
 TOY RUN TIME 0:17:27
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7205 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE ID: 7879
 SAMPLE ID: Note D 25-2 & 15101
 SAMPLE FROM: James Bay Co.
 OPERATOR: Kaarina
 SAMPLE TYPE: clay
 LIQUID PHASE: water
 ANALYSIS TYPE: 25-2 sec D RUN TYPE: Standard

UNIT NUMBER: 1
 START 15:05:47 11/03/90
 REPR1 12:11:43 05/10/91
 TOT RUN TIME 0:17:01
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7200 cP

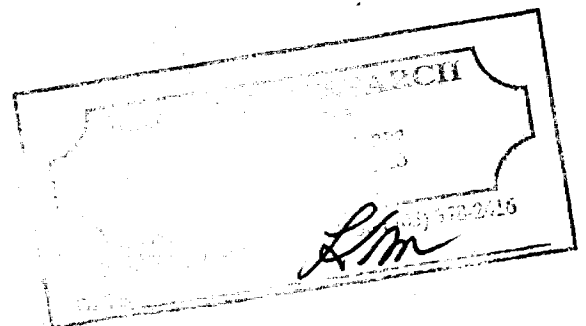
STARTING DIAMETER: 50.00 Am
 ENDING DIAMETER: 0.40 Am

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEAN DIAMETER: 1.21 Am MODAL DIAMETER: 1.14 Am

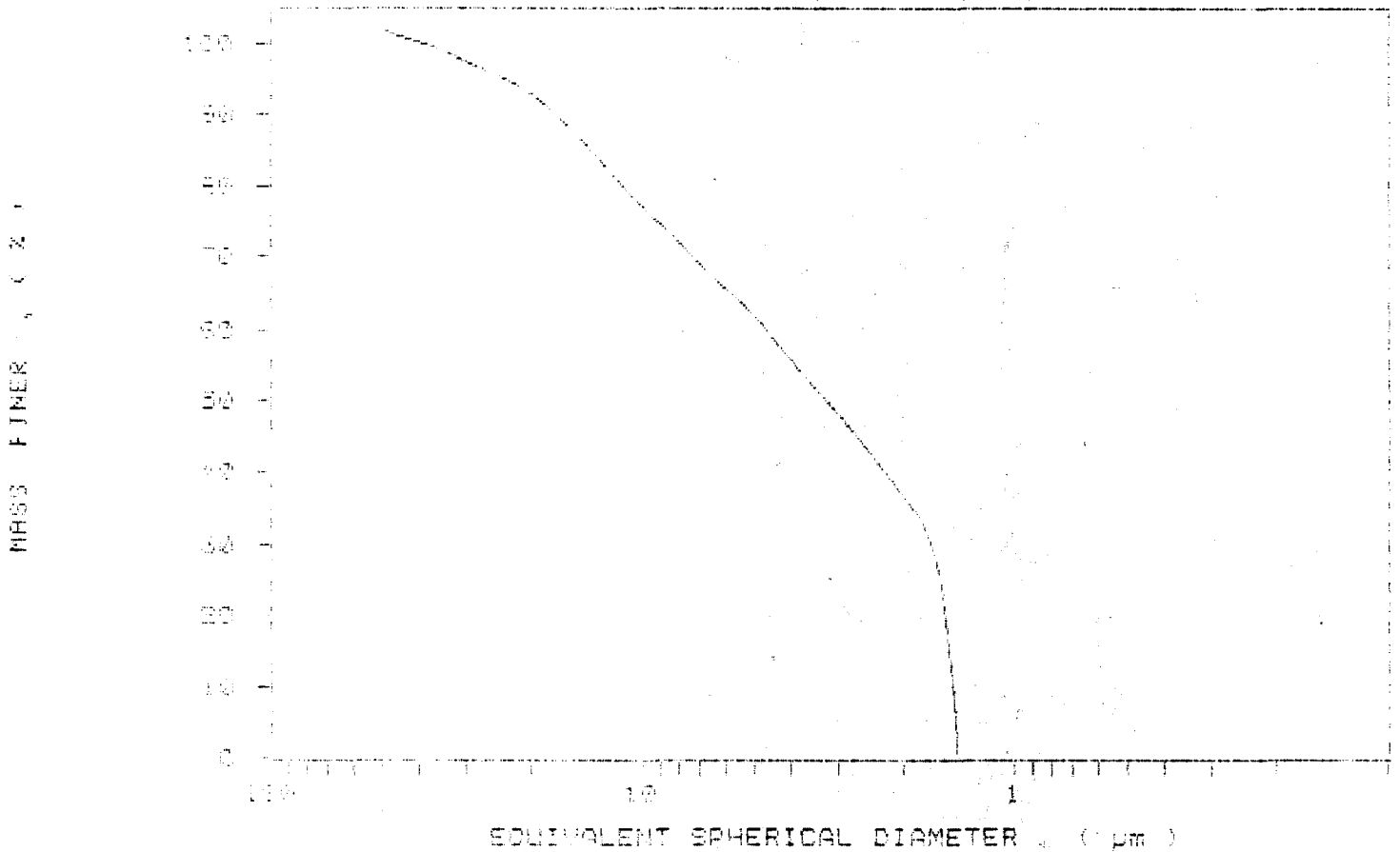
DIAMETER (Am)	CUMULATIVE MASS (%)	MASS IN INTERVAL (%)
50.00	100.0	1.3
45.00	100.0	1.6
40.00	98.4	2.0
35.00	96.4	2.0
30.00	94.4	2.0
25.00	92.4	2.0
20.00	90.4	2.0
15.00	88.4	2.0
10.00	86.4	2.0
5.00	84.4	2.0
2.00	82.4	2.0
1.50	80.4	2.0
1.00	78.4	2.0
0.80	76.4	2.0
0.70	74.4	2.0
0.60	72.4	2.0
0.50	70.4	2.0
0.40	68.4	2.0



SAMPLE DIRECTORY NUMBER: DATA /279
 SAMPLE ID: Hole D 03 2 # 10181
 DESCRIPTION: canal bay Co.
 OPERATOR: Naarina
 SAND CL: 11.2% Clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 20.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:05:47 11/08/89
 REPR: 12:11:43 09/19/91
 TOT RUN TIME 0:17:51
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7290 cc

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE ID: 0100 10102 / 090
 SAMPLE ID: 0100 10102
 SUBMITTER: James W. ...
 OPERATOR: ...
 SAMPLE TYPE: Clay
 LIQUID TYPE: Water
 ANALYSIS TEMP: 25.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START: 09:30:40 11/06/09
 REPR: 12:58:08 03/19/01
 TOT RUN TIME: 0:16:50
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9991 g/cc
 LIQ VISC: 0.17205 cp

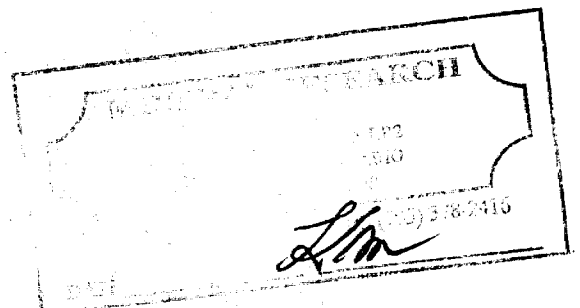
STARTING DIAMETER: 50.00 um
 ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 1.71 um MODAL DIAMETER: 0.40 um

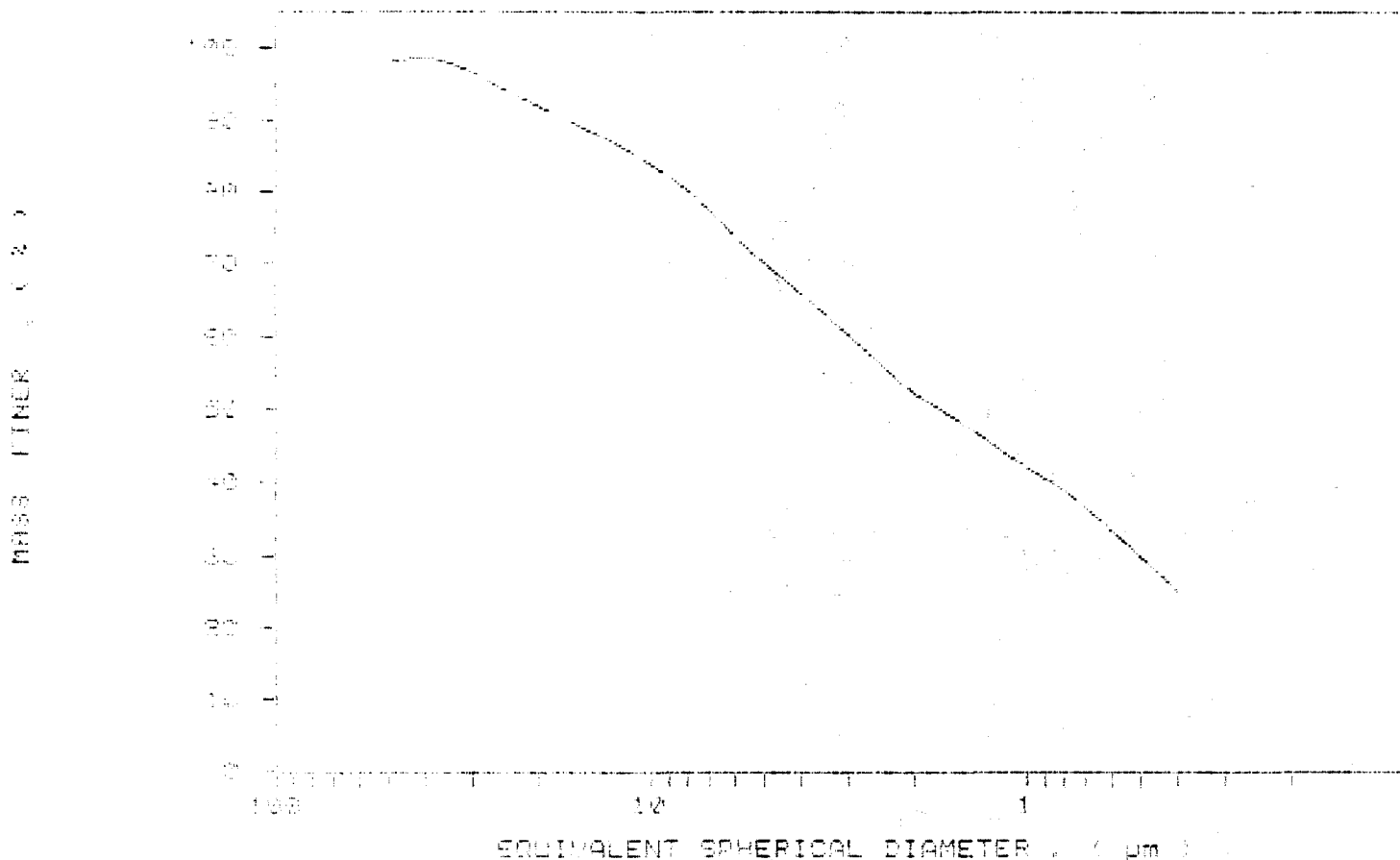
DIAMETER (um)	CUMULATIVE MASS (%)	MASS IN INTERVAL (%)
50.00	0.00	0.0
40.00	0.4	0.4
30.00	0.10	1.9
25.00	0.42	2.2
20.00	1.10	2.4
17.00	2.00	3.2
15.00	2.70	3.1
13.00	3.82	2.6
11.00	5.10	3.2
9.00	6.71	3.3
7.50	8.70	3.1
6.00	10.8	2.7
5.00	12.2	2.1
4.00	16.1	3.3
3.00	21.0	2.2
2.50	23.7	3.2
2.00	28.1	3.4
1.50	29.7	3.6
1.00	34.0	4.3



SAMPLE DIRECTION/NUMBER: INITIAL / 380
 SAMPLE ID: hole 2 CS-2 # 13102
 SUBMITTER: Ceres de, Co.
 OPERATOR: Kaari a
 SAMPLE TYPE: clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 21.1 deg C RUN TYPE: Standard

UNI: NUMBER: 1
 START 09:30:40 11/06/89
 REPR: 12:38:08 09/19/90
 TOT RUN TIME 0:16:56
 GAB DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7205 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DESCRIPTION: DEPT 1701
 SAMPLE ID: 107-105-2-15183
 SUBMITTER: James M. Co.
 OPERATOR: Marina
 SAMPLE TYPE: Dry
 LIQUID: water
 ANALYSIS: 107-105-2-15183 RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:00:47 11/06/99
 REPT 10:02:58 09/19/01
 TOT RUN TIME 0:16:57
 SAM DENS: 2.8500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7265 cp

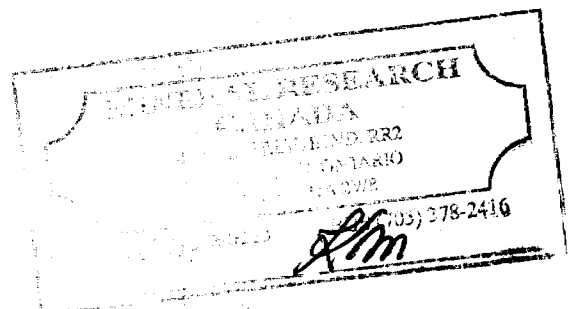
STARTING DIAMETER: 06.00 um
 ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 0.100
 FULL SCALE MASS % 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 2.07 um MODAL DIAMETER: 0.40 um

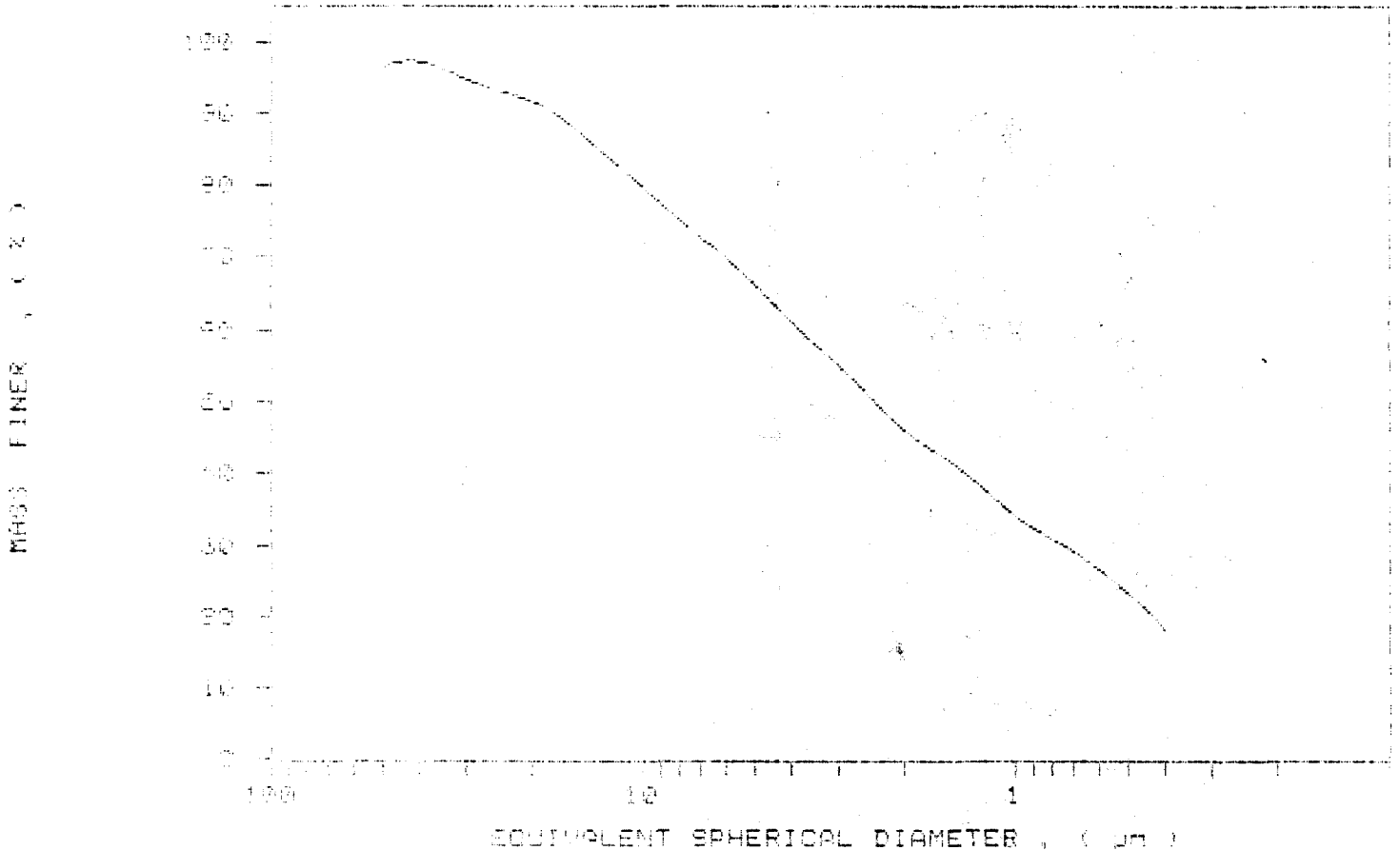
DIAMETER (um)	CUMULATIVE MASS (%)	MASS IN INTERVAL (%)
06.00	56.14	2.5
50.00	37.12	6.2
30.00	34.17	2.9
25.00	33.12	1.3
20.00	31.11	1.8
17.00	27.15	4.1
15.00	25.17	2.2
12.00	23.12	4.3
10.00	19.11	3.3
9.00	18.11	0.9
8.00	17.11	1.0
7.00	15.12	2.0
6.00	14.11	2.8
5.00	12.17	4.3
4.00	10.18	2.7
3.50	9.12	3.1
3.00	8.11	4.0
2.50	7.11	3.3
2.00	6.18	3.1



SAMPLE DIRECTORY NUMBER: DATA /581
 SAMPLE NO. note p 51 2 1018
 SUBMITTER: James Ray Co.
 OPERATOR: Keatinge
 SAMPLE TYPE: Clay
 LIQUID: distilled water
 ANALYSIS TEMP: 35.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:00:47 11/06/99
 REPT 10:02:58 09/19/91
 TOT RUN TIME 01:16:57
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9994 g/cc
 LIQ VISC: 0.7205 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTION/NUMBER: DATA 7082
 SAMPLE ID: note B 03-B # 15104
 SUBMITTER: James W. Co.
 OPERATOR: Kamin
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS METHOD: 13.1 sec C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:53:28 11/06/89
 REPRY 13:07:25 09/19/91
 TOT RUN TIME 0:16:38
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7204 cp

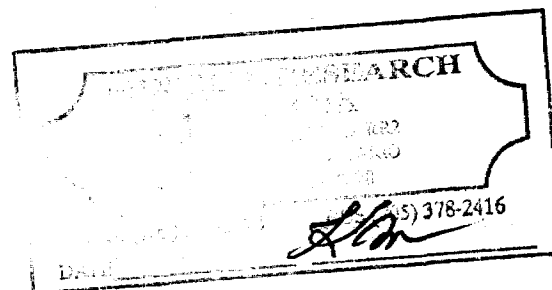
STARTING DIAMETER: 50.00 μ m
 ENDING DIAMETER: 0.40 μ m

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 0.90 μ m MODAL DIAMETER: 0.45 μ m

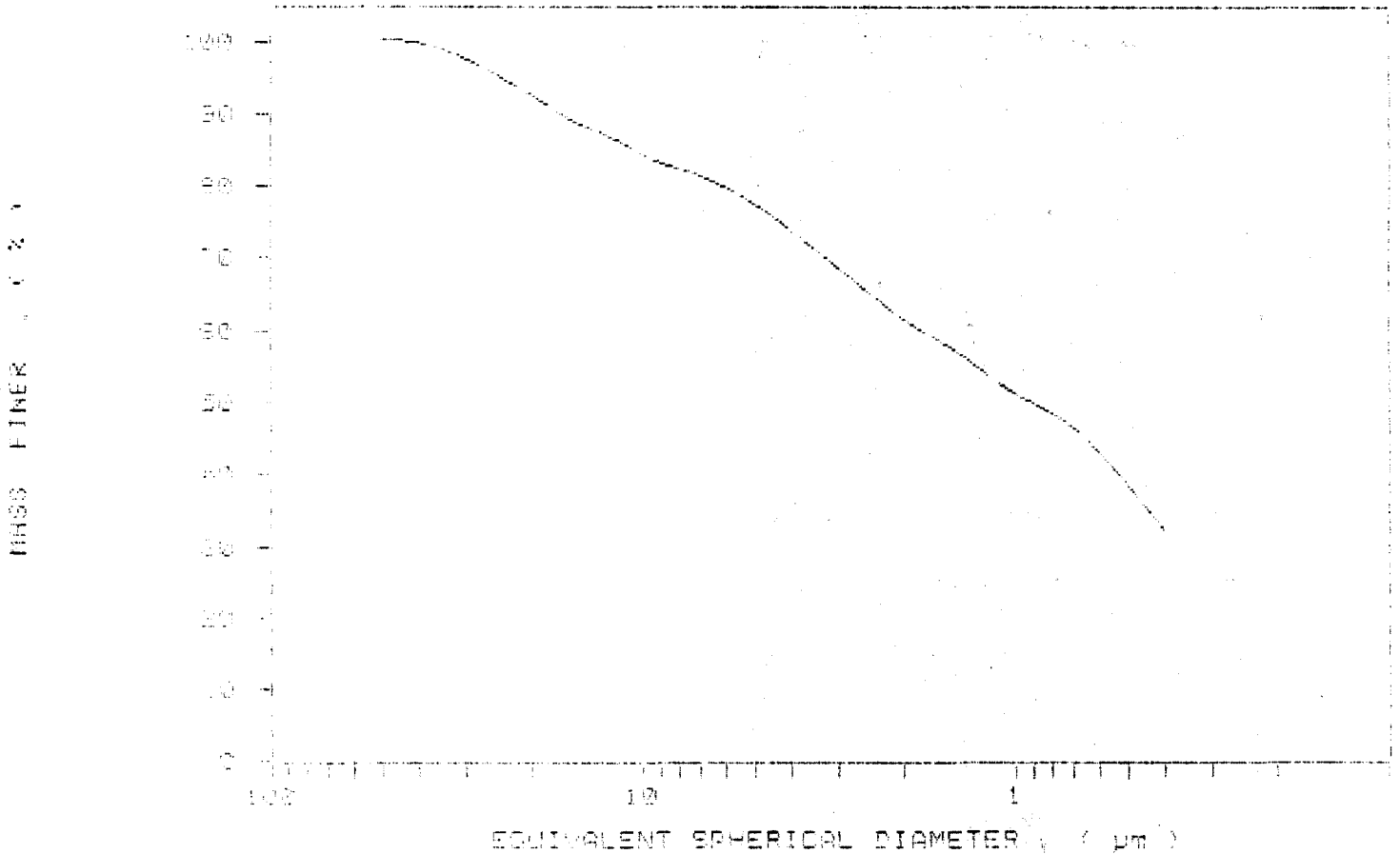
DIAMETER (μ m)	CUMULATIVE MASS FRESH (%)	MASS IN INTERVAL (%)
50.00	100.0	0.0
45.00	99.7	0.3
40.00	97.5	2.2
35.00	95.3	2.1
30.00	91.7	3.6
25.00	88.7	3.0
20.00	84.0	4.7
15.00	82.4	1.6
10.00	79.3	3.1
5.00	74.6	5.3
2.50	68.3	6.4
1.25	61.2	7.1
0.75	37.8	24.0
0.50	31.2	6.6
0.30	40.8	9.6
0.25	41.2	0.4
0.20	38.3	2.9
0.15	32.2	6.1



SAMPLE DIRECTORY/NUMBER: DATA /002
 SAMPLE ID: Note D 30-E # 10114
 SUPPLIER: James Ray Co.
 OPERATOR: Kaoline
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 20.2 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:33:23 11/06/99
 REPT 10:07:25 09/19/91
 TOT RUN TIME 0:16:58
 SAM DENS: 2.6300 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7204 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTION/NUMBER: MTR1 7802
 SAMPLE ID: Note D 20-E w 13125
 SUBMITTER: James Day Co.
 OPERATION: cleaning
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 50.0 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 11:08:58 11/06/89
 REPR: 10:11:52 09/19/91
 TOT RUN TIME 0:16:55
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7204 cp

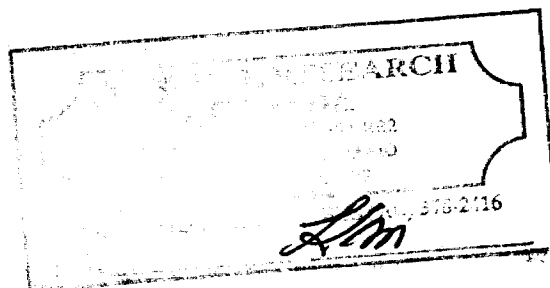
STARTING DIAMETER: 50.00 um
 ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

REDUCED DIAMETER: 1.65 um MODAL DIAMETER: 3.54 um

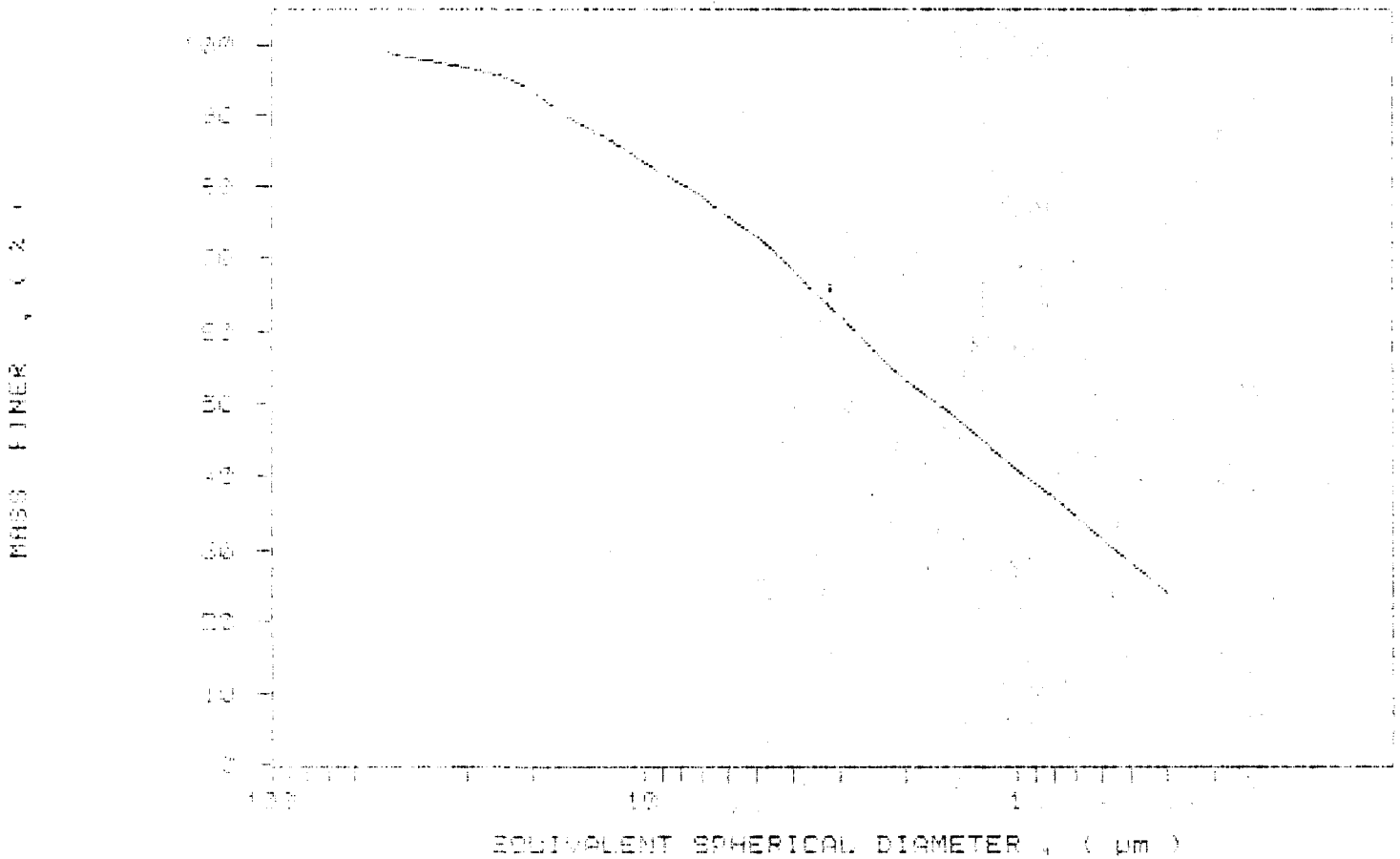
DIAMETER (um)	CUMULATIVE MASS FRACT (%)	MASS IN INTERVAL (%)
50.00	00.0	1.1
40.00	07.0	1.1
30.00	20.0	1.2
25.00	28.7	0.9
20.00	39.6	2.4
15.00	48.9	4.3
10.00	58.4	5.0
5.00	67.5	2.9
3.00	73.0	4.6
2.00	77.9	2.9
1.50	82.1	4.6
1.00	86.9	6.8
0.75	90.0	4.5
0.60	93.7	7.2
0.50	97.1	3.7
0.40	100.0	3.7
0.30	100.0	3.3
0.20	100.0	4.0



SAMPLE DIRECTOR: ROYCE: DATA / 0325
 SAMPLE ID: Note P 00-2 + 13100
 SUBMITTER: James Bay Co.
 OPERATOR: Kaurina
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TECH: CBR deg L RUN TYPE: Standard

UNIT NUMBER: 1
 START 11:03:53 11/08/89
 REPRY 13:11:02 09/19/91
 TOT RUN TIME 0:16:00
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7204 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE ID: 11/06/00 18:03
 SUBMITTER: Jarda
 OPERATOR: Kaplin
 SAMPLE TYPE: Oil
 LIQUID TYPE: water
 ANALYSIS (ENR): 2011 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 11:34:24 11/06/00
 REPORT 10:16:19 00/11/00
 TOT RUN TIME 0:17:01
 SAM DENS: 2.8500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7204 cP

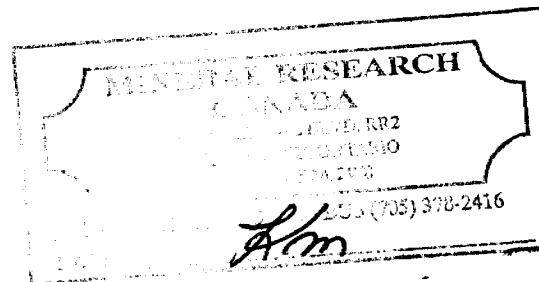
STARTING DIAPHRAGM: 00100 Am
 ENDING DIAPHRAGM: 01400 Am

REYNOLDS NUMBER: 0.122
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAPHRAGM: 2140 Am MODAL DIAPHRAGM: 3194 Am

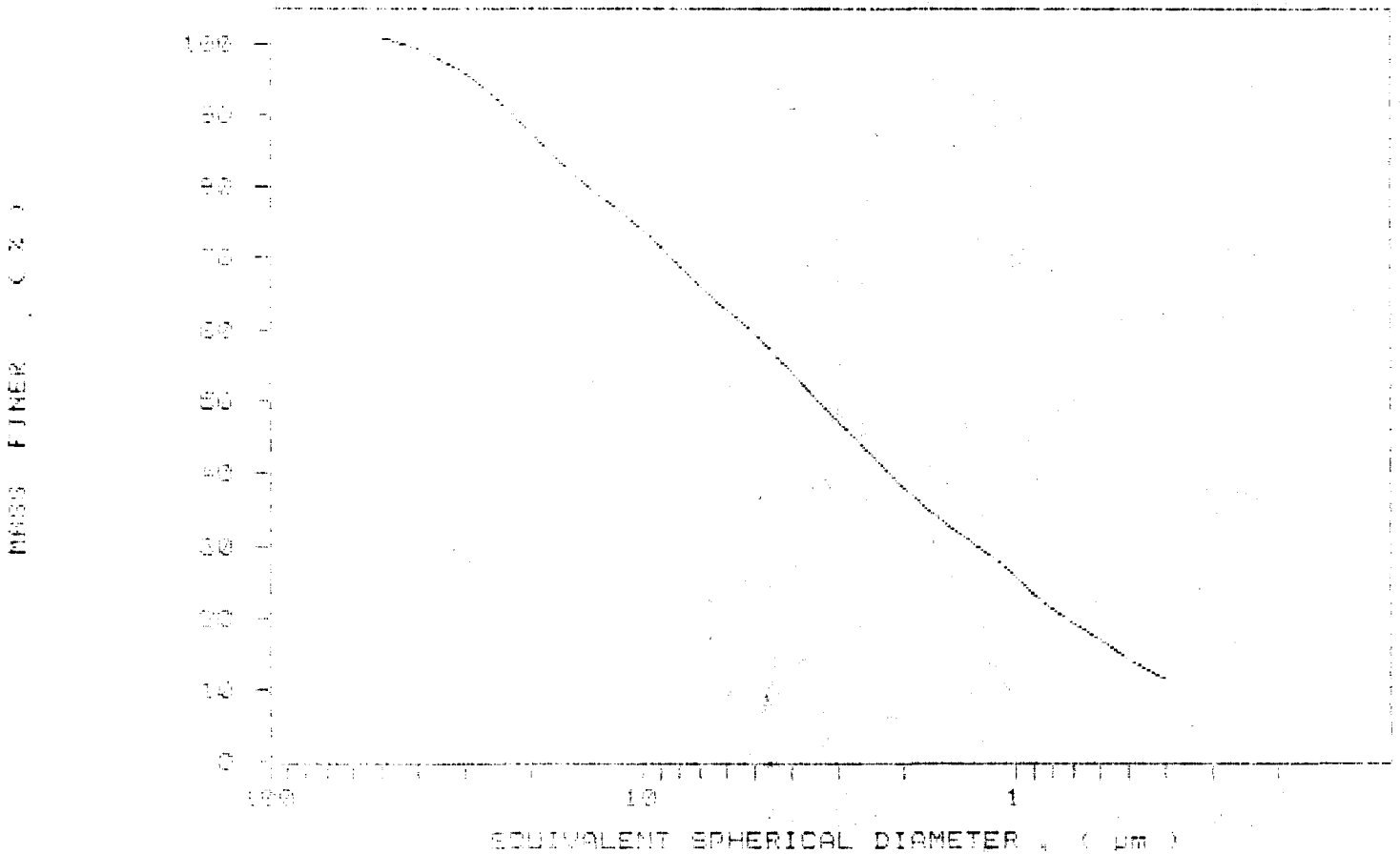
DIAPHRAGM (Am)	CUMULATIVE MASS FINDER (%)	MASS IN INTERVAL (%)
10.00	100.00	10.00
20.00	97.00	1.20
30.00	75.00	2.40
40.00	52.00	3.20
50.00	37.00	3.00
15.00	12.00	0.10
16.00	70.00	7.20
17.00	22.00	4.90
18.00	60.00	0.10
19.00	55.00	2.00
20.00	24.00	0.20
21.00	47.00	0.20
22.00	30.00	0.20
23.00	12.00	0.40
24.00	20.00	7.00
25.00	21.00	4.00
26.00	17.00	0.10
27.00	14.00	2.70
28.00	21.00	2.00



SAMPLE DIRECTORY NUMBER: DATA 7384
SAMPLE ID: 1019 D 20-2 * 10100
QUANTITY: James Ray Co.
OPERATOR: Mearns
SAMPLE TYPE: Clay
LIQUID TYPE: water
ANALYSIS TEMP: 33.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 11:24:24 11/06/89
REPT 13:18:19 09/19/91
TOT RUN TIME 0:17:01
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9941 g/cc
LIQ VISC: 0.7204 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE ID: 1015 / 1015 / 1015
 SAMPLE ID: 1015 D 00 2 H 1015?
 SUBSTRATE: paper dry vol.
 OPERATOR: Marina
 SAMPLE TYPE: Clay
 LIQUID TYPE: water
 ANALYSIS TEMP: 20.1 deg C ROK TYPE: Standard

UNIT NUMBER: 1
 START TIME: 04:20 11/06/89
 REPR: 13:20:45 09/19/91
 TOT RUN TIME 0:17:24
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7204 cc

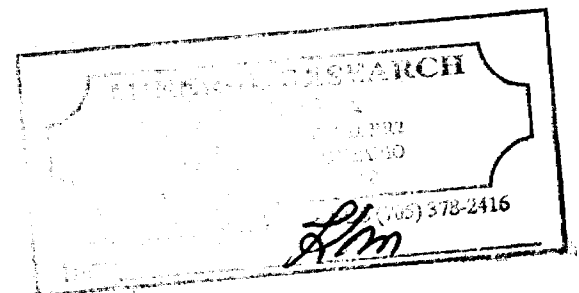
STARTING DIAMETER: 30.00 um
 ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEAN DIAMETER: 0.40 um MODAL DIAMETER: 0.40 um

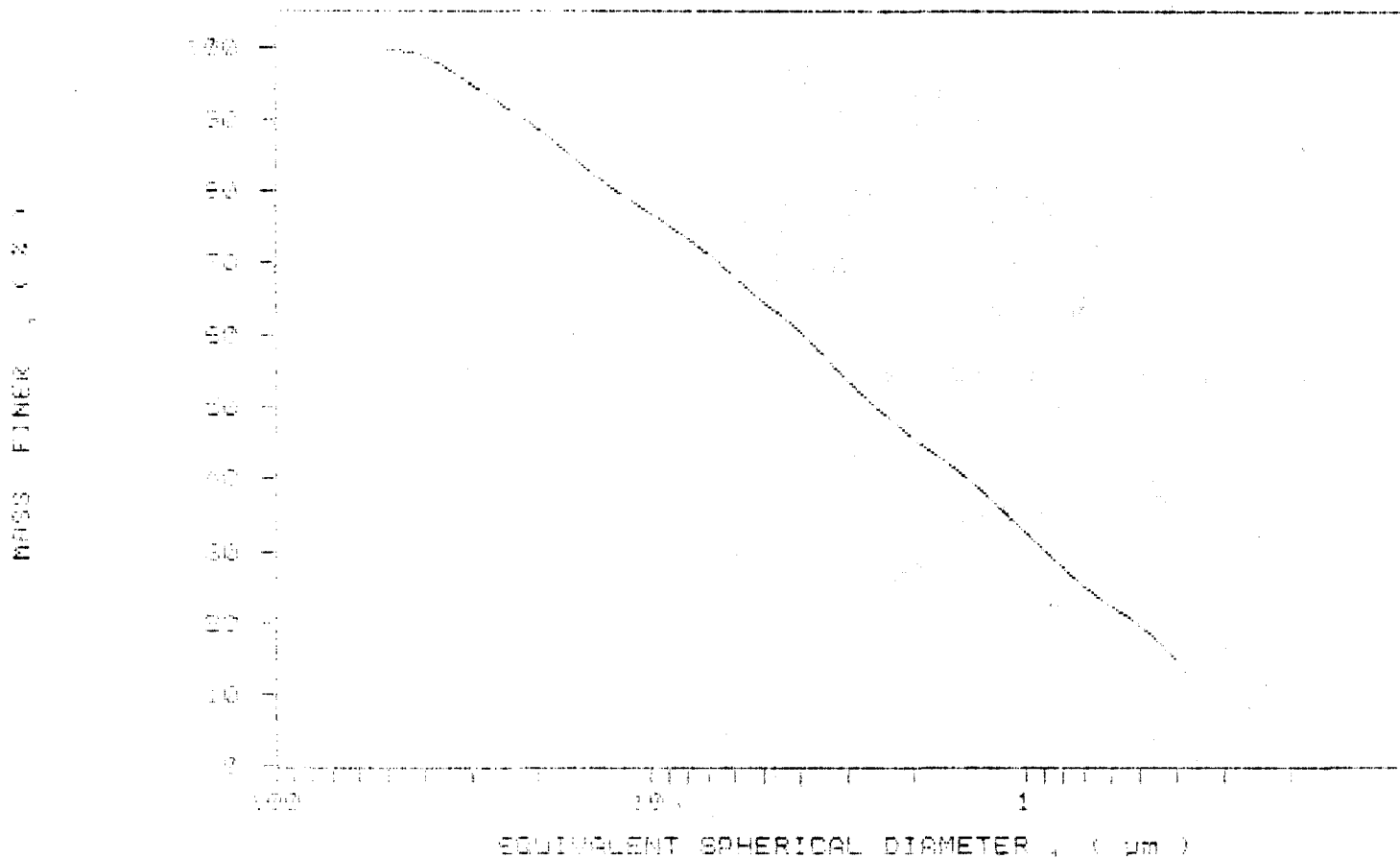
DIAMETER (um)	CUMULATIVE FINER (%)	MASS IN INTERVAL (%)
30.00	25.4	0.6
25.00	30.5	0.5
20.00	34.1	3.6
15.00	38.1	4.0
10.00	39.7	0.4
7.50	42.4	2.7
5.00	45.3	2.9
3.75	47.0	1.7
2.50	48.1	1.1
1.88	49.4	1.3
1.50	50.7	1.3
1.25	51.7	1.0
1.00	52.7	1.0
0.75	54.0	1.3
0.60	55.4	1.4
0.50	56.7	1.3
0.40	57.6	0.9
0.30	58.2	0.6
0.25	58.5	0.3
0.20	58.7	0.2



SAMPLE DIRECTOR NUMBER: DETA1 /533
SAMPLE ID: note D 05-d # 10187
SUBMITTER: James Inc. Co.
OPERATOR: Neal Inc.
SAMPLE TYPE: Clay
LIQUID TYPE: water
ANALYSIS TEMP: 25.0 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 12:04:20 11/06/09
REPT 13:20:45 09/19/01
TOT RUN TIME 0:17:24
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9941 g/cc
LIQ VISC: 0.7209 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE ID: note L 6-2 # 10158
 SUBMIT Ltr. James Day Co.
 OPERA: Gvt. Kaarina
 SAMPLE TYPE: clay
 LIQUID TYPE: water
 ANALYSIS TECH: 0011 05g C RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:08:50 11/06/89
 REPR1 13:25:12 05/19/91
 TOT RUN TIME 0:16:55
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9941 g/cc
 LIQ VISC: 0.7264 cp

STARTING DIAMETER: 50.00 um
 ENDING DIAMETER: 0.146 um

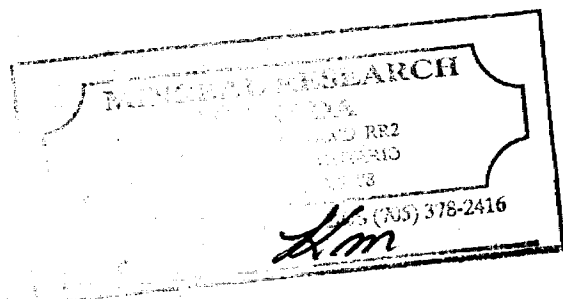
REYNOLDS NUMBER: 0.122
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MODAL DIAMETER: 2.57 um

MODAL DIAMETER: 2.04 um

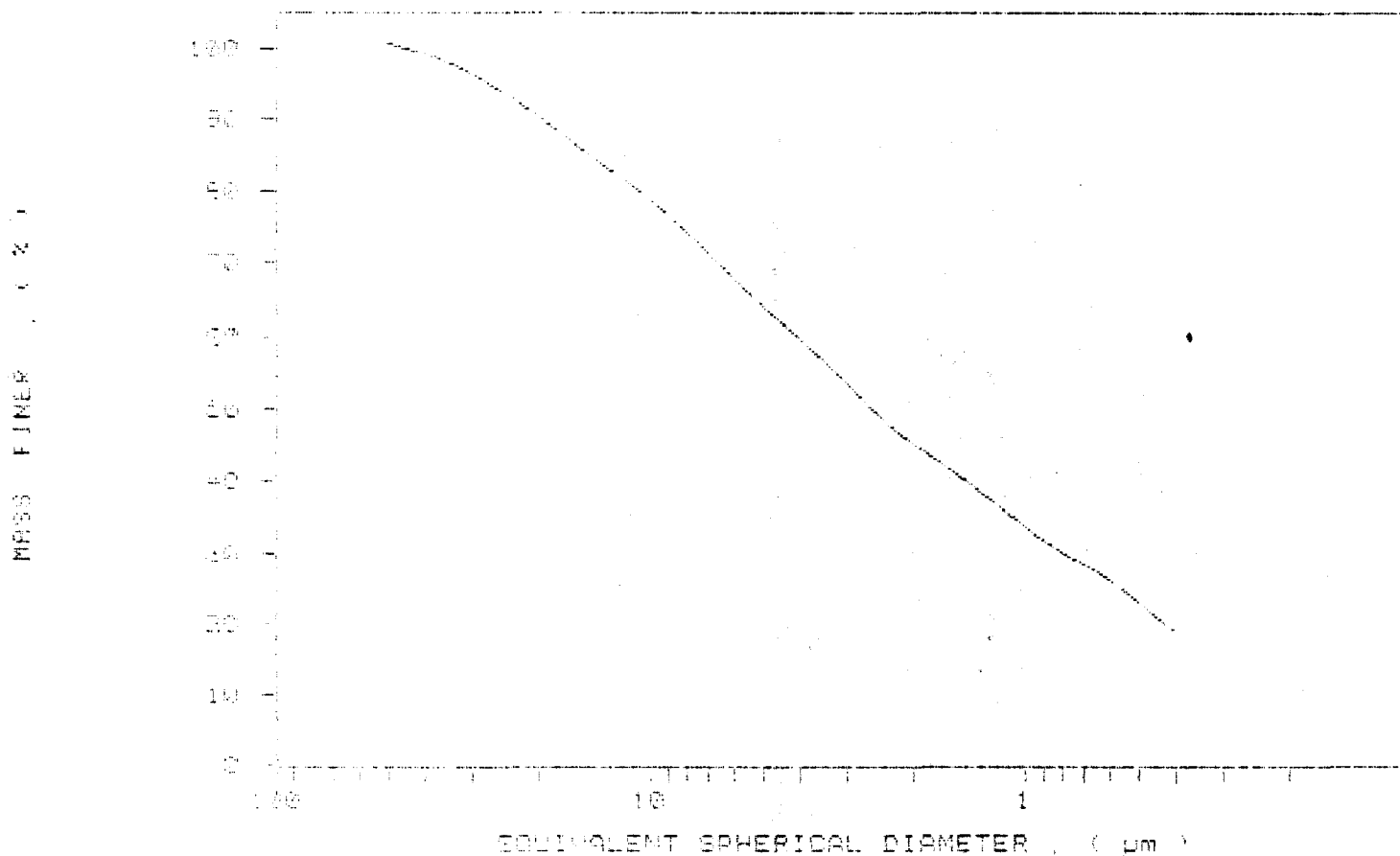
DIAMETER (um)	CUMULATIVE MASS FINDER (%)	MASS IN INTERVAL (%)
50.00	100.0	0.6
40.00	99.4	1.5
30.00	97.9	2.9
25.00	95.0	2.9
20.00	92.1	3.4
15.00	88.7	4.9
10.00	83.8	5.7
7.50	78.1	4.8
5.00	68.0	2.0
3.00	54.0	2.5
2.00	39.7	4.4
1.50	23.8	5.1
1.00	15.2	2.2
0.75	9.8	4.5
0.50	5.7	7.2
0.30	2.1	2.8
0.20	0.2	3.9
0.15	0.0	2.8
0.10	0.0	4.0



SAMPLE IDENTIFICATION NUMBER: 0A740 /986
SAMPLE ID: Note D 23-3 & 10133
SUBMITTER: James Dev Co.
OPERATOR: KARRINA
SAMPLE IN: 21.15g
LIQUID: WATER
ANALYSIS TEMP: 20.1 deg C RUN TYPE: Standard

UNIT NUMBER: 1
START 10:03:58 11/06/89
REPT 10:25:13 09/19/90
TOT RUN TIME 0:16:35
SAM DENS: 2.6500 g/cc
LIQ DENS: 0.9991 g/cc
LIQ VISC: 0.7204 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTION: UNDER: DATA 7887
 SAMPLE ID: Hole B 00-E @ 13:00
 SUBMITTER: James Van Dyk
 OPERATOR: Naarina
 SAMPLE TYPE: clay
 LIQUID TYPE: water
 ANALYSIS TECH: 001 deg L RUN TYPE: Standard

UNIT NUMBER: 1
 START 10:55:31 11/06/85
 REPRN 10:29:40 09-19-91
 TOT RUN TIME 0:16:58
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7204 cP

STARTING DIAMETER: 30.00 Am
 ENDING DIAMETER: 0.140 Am

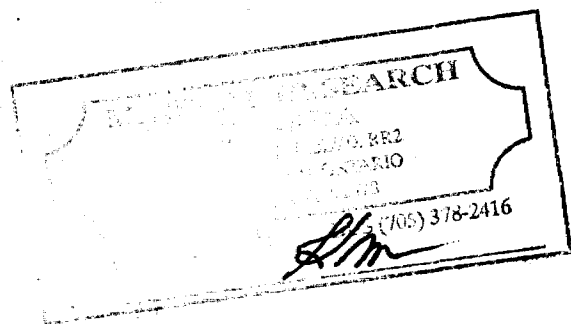
REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

ALLIANCE DIAMETER: 0.140 Am

MODAL DIAMETER: 0.52 Am

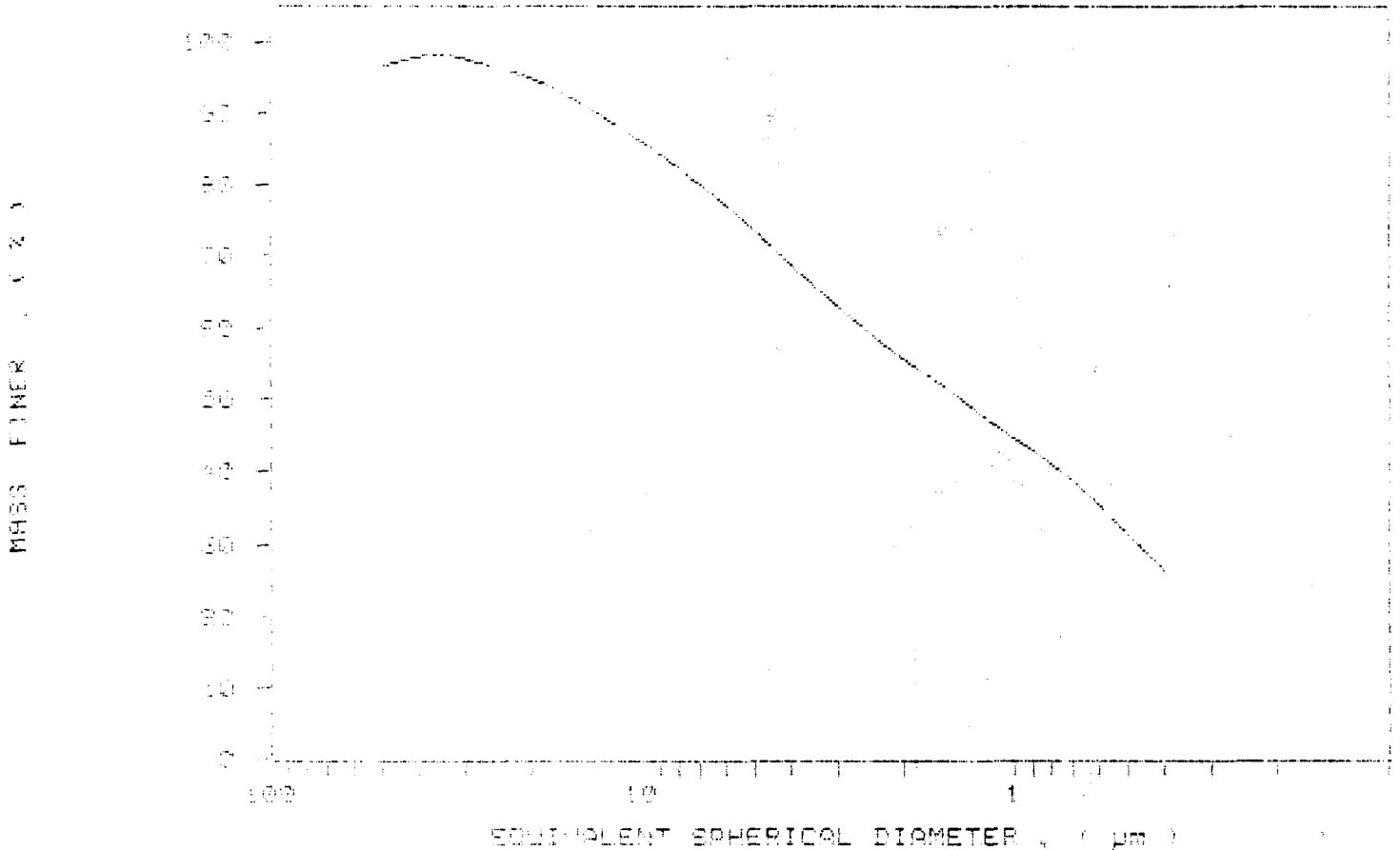
DIAMETER (Am)	CUMULATIVE MASS (%)	MASS IN INTERVAL (%)
30.00	00.00	0.4
40.00	00.00	1.2
50.00	00.00	0.2
25.00	00.04	1.2
20.00	00.13	1.6
15.00	00.26	1.2
10.00	00.40	1.6
5.00	00.52	2.7
0.00	00.61	0.2
0.00	00.63	0.2
4.00	00.67	4.0
3.00	00.71	0.8
2.00	00.76	7.4
1.00	00.77	4.0
0.50	00.80	0.2
0.20	00.80	0.3
0.10	00.80	0.1
0.00	00.80	0.2



SAMPLE DIRECTORY NUMBER: 0410 7087
 SAMPLE ID: 1010 1010 1010
 SUBMITTER: James Bay Co.
 OPERATOR: [unclear]
 SAMPLE TYPE: Clay
 LIQUID: Tap water
 ANALYSIS TEMP: 25.0 deg C RUN TYPE: Standard

UNIT NUMBER: 1
 START 13:35:31 11/06/09
 REPR 13:29:40 09/19/91
 TOT RUN TIME 0:16:00
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9984 g/cc
 LIQ VISC: 0.7204 cP

CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTOR: WANDER: DETA 7002
 SAMPLE ID: note D 20-2 # 13100
 SUBMITTER: James Bay Co.
 OPERATOR: Naarina
 SAMPLE: water
 LIQUID TYPE: water
 ANALYSIS TECH: 2000 sec 2 RUN TYPE: Standard

UNIT NUMBER: 1
 START 14:05:47 11/08/80
 REPR1 13:34:08 03/19/91
 TOT RUN TIME 0:16:53
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7200 cp

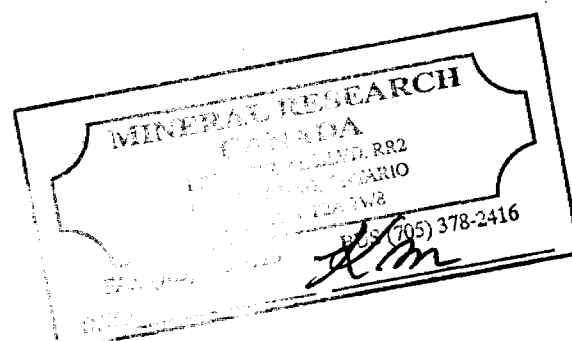
STARTING DIAMETER: 20.00 um
 ENDING DIAMETER: 0.100 um

REYNOLDS NUMBER: 0.22
 FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEAN DIAMETER: 2.00 um NOMIAL DIAMETER: 20.00 um

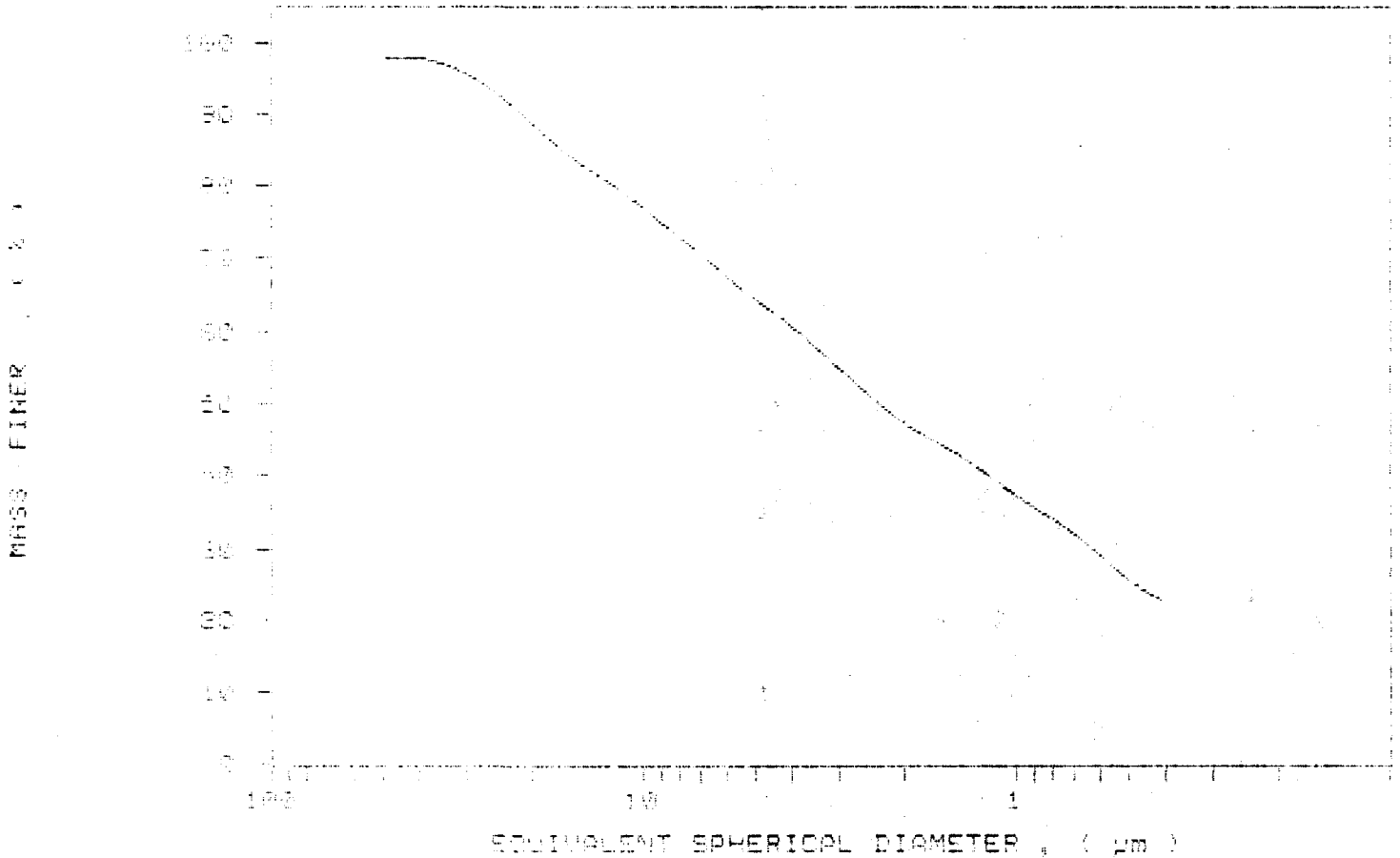
DIAMETER (um)	CUMULATIVE MASS (%)	MASS IN INTERVAL (%)
20.00	27.2	2.2
18.00	27.7	0.1
16.00	28.1	2.1
14.00	28.3	2.3
12.00	28.5	4.2
10.00	28.6	0.4
8.00	28.9	0.4
6.00	29.0	0.1
4.00	29.1	0.4
2.00	29.2	0.1
1.00	29.3	0.1
0.500	29.4	0.1
0.250	29.5	0.1
0.125	29.6	0.1
0.062	29.7	0.1
0.031	29.8	0.1
0.015	29.9	0.1
0.007	29.9	0.1
0.003	29.9	0.1
0.001	29.9	0.1



SAMPLE DIRECTOR/NUMBER: LK101 /302
 SAMPLE ID: note D used @ 13100
 SUBMITTER: James Lee, Jr.
 OPERATOR: Barbara
 SAMP LI: ml in tray
 LIQUID TYPE: Water
 ANALYSIS (AMP): 35.2 cc L RUN TYPE: Standard

UNIT NUMBER: 1
 START 14:05:47 11/06/85
 REPRY 13:34:06 03/19/91
 TOT RUN TIME 0:16:05
 SAM DENS: 2.6500 g/cc
 LIQ DENS: 0.9940 g/cc
 LIQ VISC: 0.7202 cp

CUMULATIVE MASS PERCENT FINER VS. DIAMETER





Ontario



42J01NE8083 2.14398 KIPLING

900

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Mining Lands Branch
Geoscience Approvals Section
159 Cedar Street, 4th Floor
Sudbury, Ontario
P3E 6A5

Toll Free: 1-800-465-3880
Telephone: (705) 670-7264
Fax: (705) 670-7262

April 28, 1992

Our File: 2.14398
Transaction #W9160.00249

Mining Recorder
Ministry of Northern Development
and Mines
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir/Madam:

Subject: APPROVAL OF ASSESSMENT WORK SUBMITTED ON MINING CLAIMS
P825803 ET AL. IN KIPLING TOWNSHIP

The assessment work credits for Other Authorized Work, under section 18(9) of the Mining Act Regulations have been approved as of January 3, 1992.

The credits have been approved as listed on the original submission dated October 28, 1991.

Please indicate this approval on your records.

Yours sincerely,

Ron C. Gashinski
Senior Manager, Mining Lands Branch
Mines and Minerals Division

LJ/jl
Enclosures:

cc: Assessment Files Office
Toronto, Ontario

Resident Geologist
Timmins, Ontario

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.

2.1.1990

- 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.

Recorded Holder(s) 798839 Ontario Limited	Client No. 100898 75241
Address 75 Ardell Place Kitchener ON N2C2C8	Telephone No. (519) 745-1101
Mining Division Porcupine	Township/Area Kipling
M or G Plan No.	
Date Work Performed From: Oct. 6, 1989	To: Jan. 3, 1990

Work Performed (Check One Work Group Only)

Work Group	Type
Geotechnical Survey	
Physical Work, including Drilling	RECEIVED
Rehabilitation	DEC 30 1991
<input checked="" type="checkbox"/> Other Authorized Work	Subsection 13(9) - laboratory analysis.
Assays	
Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs \$ ~~54,730.00~~ 37,370

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
Alice Casselman (Author)	Gen. Del. Dunchurch ON P0A 1G0
Rebecca Malinstra	R.R.#2 Parry Sound ON P2A 2W3 Mineral Research Canada 1 Industrial Blvd. R.R.#2 Parry Sound, ON P2A 2W3

(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 Oct 24, 1989	Recorded Holder or Agent (Signature) <i>[Signature]</i>
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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 A. Casselman Gen. Del. Dunchurch ON P0A 1G0	Telephone No. (705) 389-2493	Date Oct 24, 1991	Certified By (Signature) <i>[Signature]</i>
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For Office Use Only

Total Value Cr. Recorded 37,370	Date Recorded Oct 28/91	Mining Recorder <i>[Signature]</i>	Received RECEIVED OCT 28 1991
	Deemed Approval Date JAN 26/92	Date Approved <i>[Signature]</i>	
	Date Notice for Amendments Sent DEC. 24 th /91 - VIA FAX -		

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 serviront 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, 4^e 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 <i>LAB</i>		
	<i>Rokip 182 x 105</i>	<i>19,110</i>	
	<i>Geotech 182 x 130</i>	<i>23,610</i>	
	<i>Mining 182 x 45</i>	<i>8,190</i>	<i>50,960</i>
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs			54,730

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 démoblisation			
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)	

total resulting from the addition from next page.

Note: **\$ 37,370 ALLOWED**

Verify expenditures claimed in a request for verification. If rejected for assessment work nitted.

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.

Filing

- Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
- 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

- Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
- 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
	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 *Director of Corporate Affairs* 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 de rapport de travail ci-joint.

Et qu'à titre de *Director of Corporate Affairs* je suis autorisé (titulaire enregistré, représentant, poste occupé dans la compagnie) à faire cette attestation.

Signature *[Signature]* Date *Oct. 24, 1991*

Statement of Costs for Assessment Credit

Transaction No./N° de transaction

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

(2)

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 serviront 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, 4^e 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	LAB	
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type	31,365 ⁰⁰	
	Rate 26 x 105 ⁰⁰ = 2730 ⁰⁰ 26 x 300 ⁰⁰ = 7800 ⁰⁰ 26 x 25 ⁰⁰ = 650 ⁰⁰ 26 x 50 ⁰⁰ = 1300 ⁰⁰	130 ⁰⁰	
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs			

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 démoblisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excedant 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: 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 cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

- Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
- 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 \times 0.50 = Total Assessment Claimed

7,540 \times 0.50 = 3,770

Remises pour dépôt

- Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
- 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 \times 0,50 = Evaluation totale demandée

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 Director of Assessment I am authorized (Recorded Holder, Agent, Position in Company)

to make this certification

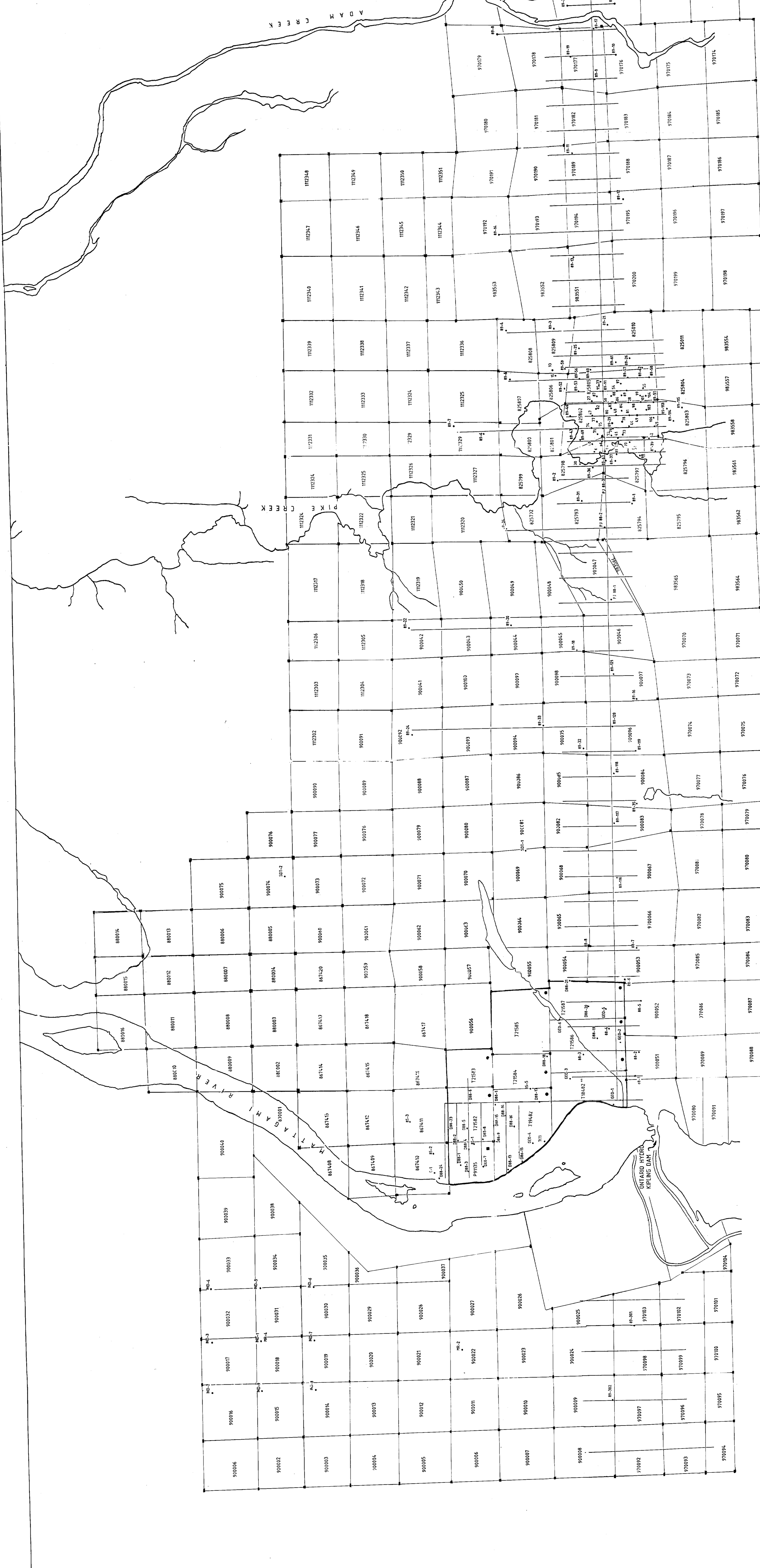
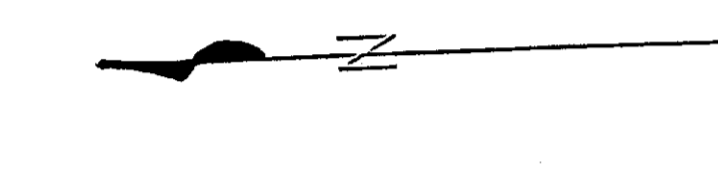
Attestation de l'état des coûts

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 de rapport de travail ci-joint.

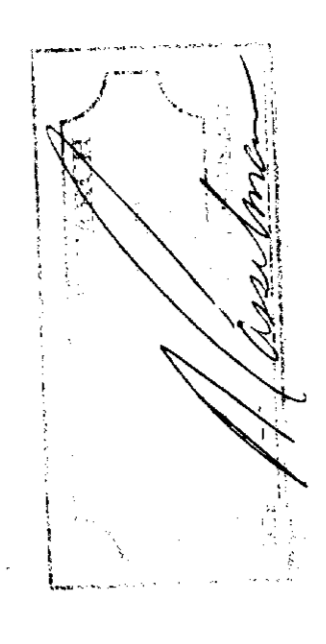
Et qu'à titre de _____ je suis autorisé (titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature _____ Date 07-24-1991



• USED CLAMS
 • PAVED DAMS



KAOLIN CORPORATION
 KIPLING PROJECT
 DRILL HOLE PLAN

SCALE 1:1000 11-10-88

DRAWING NO. 2-1-88-88

DATE: JULY 1989