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U.S. GEOLOGICAL SURVEY:

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64-81

"PRELIMINARY MATERIALS MAP OF THE GREAT BARRINGTON
QUADRANGLE, MASSACHUSETTS"

by

G. W. HOLMES

184851

20 APR 1964

Field and megascopic observations:

Station number 1

Location: County Berkshire Town New Marlborough Pit X Active Inactive

Road location 800' S. SW of Hartsville-Mill River Road; west side of Konkapot River Coordinates 42°07'45"N
73°16'

Geologic unit or occurrence waterlaid ice-contact deposit: kame terrace

Textural description sandy gravel Eng. Soil Type GW

Dimensions of deposit: Areal extent 1100' x 2000' Estimated thickness 15'-30'

Dimensions of pit: Areal extent 125' x 125' Exposed thickness 20'

Lithologic composition (approximate %) _____

Grain size: Maximum 52" Mean 2.5" Est. % of sand 55 Est. % fines 7-9

Rounding subrounded Grading well graded Sorting poor

Soil development 5" A Color A: 10 yr 6/3
2 1/4" B B: 10 yr 7/6

Oxidation or staining Variable below B horizon Leaching c: sandy cobble gravel: 10yr 7/2

Secondary deposition _____ Reactive matter CaCO₃

Section:

Rock type	Remarks	Percent
Quartzite	some dark green	64
Sandstone, conglomerate	Arkose and "Cheshire sandstone"	10
Limestone, Dolostone, Marble		
Gneiss		11
Schists	Some amphibolite	12
Igneous		
Quartz		2
Misc.		1

U.S. Geological Survey
 GEOPHYSICAL MAP
 This map is preliminary and has
 not been edited or revised for
 conformity with Geological Survey
 standards or nomenclature.

General Description:

20' (?) of poorly sorted, poorly stratified sand pebble and cobble gravel with some silt. Boulders amount to about 7-10 percent of entire mass. Materials become finer toward Konkapot River.

Great Barrington
 QUADRANGLE
 Massachusetts
 STATE
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Field and megascopic observations:

Station number 2, 3, 4

Location: County Berkshire New Marlborough Pit X Active Inactive

S. side of New Marlborough 42°07'45" N

Road location Hill Road Coordinates 73°15'30" W

Geologic unit or occurrence Waterlaid ice-contact deposit: kame terrace

Textural description pebble sand Eng. Soil Type SW

Dimensions of deposit: Areal extent 2000' x 2800' Estimated thickness 50'-100'

Dimensions of pit: Areal extent 300' x 500' Exposed thickness 70' overall:

Lithologic composition (approximate %) _____

Grain size: Maximum 60" Mean 1.5" Est. % of sand 80 Est. % fines 0-3

Rounding subrounded Grading well graded Sorting medium

Soil development topsoil stripped Color sand of C Horizon: 10 yr 7/6

some staining in

Oxidation or staining silty sand Leaching _____

Secondary deposition _____ Reactive matter CaCO₃

Section:

Rock type	Remarks	Percent
Quartzite		52
Sandstone,	Some arkose	
conglomerate		6
Limestone, dolostone,		
marble		6
Gneiss		17
Schists	Some amphibolite	11
Igneous		
Quartz		4
Misc.		4

General Description:

3 adjacent pits at different levels. Entire section includes 30' of interbedded coarse pebble sand, sand, and silty fine sand; over 10'-15' (?) of well-sorted pebble gravel; over 25'-30' of coarse sand including lenses of sandy pebble and cobble gravel. Pit 2 badly slumped and inactive.

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Field and megascopic observations:

Station number 6

Location: County Berkshire New Town Marlborough Pit Active
South side of Crosby Road; 1000' Inactive
 Road location west of Konkapot River Coordinates 42°09' N
73°16' W

Geologic unit or occurrence Water-laid ice-contact deposit; kame terrace

Textural description pebble sand Eng. Soil Type SW

Dimensions of deposit: Areal extent 1000' x 2700' Estimated thickness 30'
60'

Dimensions of pit: Areal extent 50' x 100 Exposed thickness 30'

Lithologic composition (approximate %) 70% quartzite

Grain size: Maximum 8" Mean 0.75" Est. % of sand 85 Est. % fines 0-2

Rounding subrounded Grading well graded Sorting medium

Soil development 4" A 10 yr 5/2 materials of C. horizon:
16" B 10 yr 6/8 Color 10 yr 7/2

Oxidation or staining little or no staining
below B horizon Leaching _____

Secondary deposition _____ Reactive matter CaCO₃

Section:

Rock type	

General Description:

Pit walls and floor are badly slumped and partially vegetated. Small exposure near top shows coarse pebble sand. Textural description based in large part on appearance of materials in slump debris.

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 STATE Massachusetts
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Field and megascopic observations:

Station number 7

Location: County Berkshire Town New Marlborough Pit X Active
Inactive

Road location East side of Corashire Road; 3500'
south of Hartsville Coordinates 42°09' N
73°15'30" W

Geologic unit or occurrence Waterlaid ice-contact deposit: kame terrace

Textural description pebble sand Eng. Soil Type SW

Dimensions of deposit: Areal extent 2000' x 4000' Estimated thickness 10'
80'

Dimensions of pit: Areal extent 150' x 200' Exposed thickness 25'

Lithologic composition (approximate %) _____

Grain size: Maximum 60" Mean 0.75"-1" Est. % of sand 80 Est. % fines 0-3

Rounding subrounded Grading well graded Sorting medium

Soil development 7" AB mix; plough zone; AB: 10 yr 1/4
20" B Color B: 10 yr 5/8
C: 10 yr 7/4

Oxidation or staining slight staining Leaching _____
below B horizon

Secondary deposition _____ Reactive matter CaCO₃

Section:

Rock type	Remarks	Percent
Quartzite	Some dark green	37
Sandstone, conglomerate		8
Limestone, dolostone, marble		5
Gneiss		26
Schists		10
Igneous mafic felsic		1
Quartz		10
Misc.		3

General Description:

12' of well stratified, well graded sand over 10' of very sandy pebble gravel and sand. A few boulders litter floor of pit.

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 STATE Massachusetts
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Field and megascopic observations:

Station number 8, 9

Location: County Berkshire Town Marlborough Pit X New Active
East side of unnamed road 800' 42° 9' 30" N
 Road location north of intersection with Coordinates 73° 16' W
Mill River Road

Geologic unit or occurrence Waterlaid ice-contact deposit: kame terrace

Textural description sandy gravel Eng. Soil Type GW

Dimensions of deposit: Areal extent 500' x 1700' Estimated thickness 15'
20'

Dimensions of pit: Areal extent 50' x 125' Exposed thickness 12'

Lithologic composition (approximate %) _____

Grain size: Maximum 20" Mean 1" Est. % of sand 50 Est. % fines 0-2

Rounding subrounded Grading well Sorting medium

Soil development 4" A weak forest 20" B soil Color A: 10 yr 4/4
B: 10 yr 6/6

Oxidation or staining Little or no staining sand of C horizon: 10 yr 7/4
below B horizon Leaching

Secondary deposition _____ Reactive matter CaCO₃

Section:

Rock type	Percent
Quartzite	53
Sandstone, conglomerate	5
Limestone, dolostone, marble	
Gneiss	26
Schist	6
Igneous	
Quartz	8
Misc.	2

General Description:

Pit 9: 12' of well-stratified sandy pebble gravel. Upper 4' includes cobbles amounting to ca. 6-9% of entire mass. Pit 8 badly slumped.

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Field and megascopic observations:

Station number 10

Location: County Berkshire Town New Marlborough Pit Active Inactive
Hartsville Road 0.4 mi. South 42°09' N
 Road location of Hartsville Coordinates 73°18' W

Geologic unit or occurrence Ice channel deposit: esker

Textural description cobble gravel Eng. Soil Type GW

Dimensions of deposit: Areal extent 1500 x 300' Estimated thickness 15'

Dimensions of pit: Areal extent _____ Exposed thickness _____

Lithologic composition (approximate %) _____

Grain size: Maximum _____ Mean _____ Est. % of sand _____ Est. % fines _____

Rounding _____ Grading _____ Sorting _____

Soil development _____ Color _____

Oxidation or staining _____ Leaching _____

Secondary deposition _____ Reactive matter _____

Section:

Rock type	

General Description:

Shallow excavation in small esker. Large esker immediately to the west should provide modest supply of gravel.

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Field and megascopic observations:

Station number 12

Location: County Berkshire Town Marlborough Pit X New
Active
Inactive

Coordinates 42°10'15" N
73°17' W

Road location West side of Lake Buel

Geologic unit or occurrence Ice channel deposit: esker

Textural description sandy gravel Eng. Soil Type GW

Dimensions of deposit: Areal extent 100' x 5000' Estimated thickness 30'-50'

Dimensions of pit: Areal extent 50' Exposed thickness 35'

Lithologic composition (approximate %) _____

Grain size: Maximum 30" Mean 2" Est. % of sand 60 Est. % fines 0-3

Rounding subrounded Grading well Sorting poor

Soil development Forest soil A, A₂: 10 yr 4/4, 10 yr 7/1
4" A, A₂; 20" B Color B: 10 yr 5/8

Oxidation or staining Variable oxidation throughout section Leaching
sands of C horizon: 7/4

Secondary deposition _____ Reactive matter CaCO₃

Section:

Rock type	Percent
Quartzite	43
Sandstone, conglomerate	5
Limestone, dolostone, marble	3
Gneiss	11
Schist (+ Amphibolite)	21
Igneous mafic felsic	1
Quartz	9
Misc.	4

General Description:

30' of poorly sorted sandy pebble and cobble gravel with boulders.

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Field and megascopic observations:

Station number 13

Location: County Berkshire Town Monterey Pit X Active Inactive

East side of Rt. 57; 1500' 42°11' N

Road location southeast of intersect. Rts. 57 and 23. Coordinates 73°17' W

Geologic unit or occurrence Waterlaid ice-contact deposit; kame terrace

Textural description sandy gravel Eng. Soil Type GW

Dimensions of deposit: Areal extent 1200' x 5000' Estimated thickness 40'-50'

Dimensions of pit: Areal extent 75' x 200' Exposed thickness 25'

Lithologic composition (approximate %) _____

Grain size: Maximum 48" Mean 15" Est. % of sand 70 Est. % fines 1-3

Rounding subrounded Grading well Sorting medium

Soil development 6" A ploughed A: 10 yr 4/4

32" B Color B: 10 yr 5/6

Little staining c: 10 yr 7/4

Oxidation or staining below B horizon Leaching _____

Secondary deposition _____ Reactive matter CaCO₃

Section:

Rock type	Percent
Quartzite	40
Sandstone, conglomerate	6
Limestone, dolostone, marble	2
Gneiss	18
Schists	22
Igneous	
Free quartz	11
Misc.	3

General Description: 10' of interbedded coarse silty pebble gravel and fine sandy pebble gravel (well stratified) over 10'-15' of well-stratified, well-graded sand, beds which dip to south. Ripple marks show nicely in fine and medium sandy beds.

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Field and megascopic observations:

Station number 14

Location: County Berkshire New Town Marlborough Pit X Active
North side of access road to 42° 10' N
Road location camps along west side of Coordinates 73° W
Lake Buel

Geologic unit or occurrence Waterlaid ice-contact deposit

Textural description pebbly sand Eng. Soil Type SW

Dimensions of deposit: Areal extent 600' x 2000' Estimated thickness 35'
 (single face) 40'

Dimensions of pit: Areal extent 175' Exposed thickness 30'

Lithologic composition (approximate %) _____

Grain size: Maximum 16" Mean 1.5" Est. % of sand 75 Est. % fines 5-7

Rounding subrounded Grading well Sorting poor

Soil development 2" to 5" A, A₂; 16" to 30" B Forest soil Color A, A₂; 10 yr 4/4, 10 yr 7/
30" B B; 10 yr 5/6
C horizon (sand) 10 yr 7/6

Oxidation or staining Variable below B horizon. Some stains on pebbles. Leaching _____

Secondary deposition _____ Reactive matter CaCO₃

QUADRANGLE

Great Barrington

Massachusetts

STATE

John Atherton

August 1963

GEOLOGIST

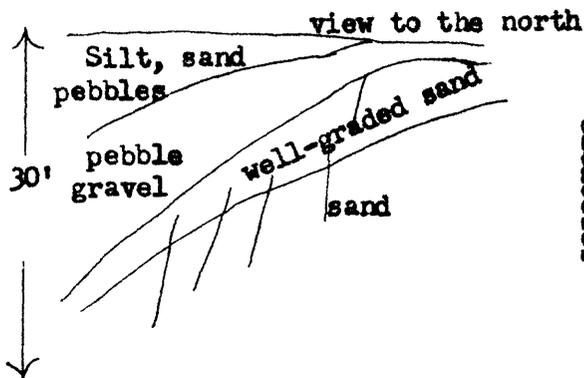
DATE

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Mass. Materials

Section:

Rock type	Percent
Quartzite	50
Sandstone, conglomerate	6
Limestone, dolostone, marble	
Gneiss	28
Schists	6
Igneous	
Quartz	6
Misc.	4



General Description: 6'-30' of well-graded sand and pebble sand (well stratified) overlaid by 2'-5' of pebble gravel. Stratified materials are overlain by 1'-3' of non-stratified, silty, till-like debris (10 yr 7/8) most of which is included in A and B soil Horizons. Tiny faults in some sand beds.

Field and megascopic observations:

Station number 15
 Location: County Berkshire Town Great Barrington Pit X Active Inactive
 Road location SW side of Lake Buel Road Coordinates 42° 11' N
73° 18' W
 Geologic unit or occurrence Ice-channel deposit
 Textural description sandy gravel Eng. Soil Type GW
 Dimensions of deposit: Areal extent 1200' x 1500' Estimated thickness 10'-50'
 Dimensions of pit: Areal extent 25' x 25' Exposed thickness 15'
 Lithologic composition (approximate %) _____
 Grain size: Maximum 12" Mean .5" Est. % of sand 50 Est. % fines 1-5
 Rounding subrounded Grading well Sorting medium
 Soil development 6" A: 10 yr 1/4 C horizons: 10 yr 7/4
16" B: 10 yr 5/8 Color _____
 Oxidation or staining Little or no staining below B horizon Leaching _____
 Secondary deposition _____ Reactive matter CaCO₃

Section:

Rock type	

General Description:

Tiny pit badly slumped. Materials appear to be same as for pit 16.

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 STATE: Massachusetts
 GEOLOGIST: John Atherton
 DATE: August 1963
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Field and megascopic observations:

Station number 16

Location: County Berkshire Town Great Barrington Pit Active Inactive

Coordinates 42°11' N
73°18' W

Road location NE side of Lake Buel road

Geologic unit or occurrence Waterlaid ice-contact deposit; kame

Textural description sandy gravel Eng. Soil Type GW

Dimensions of deposit: Areal extent 1200' x 1500' Estimated thickness 10'-50'

Dimensions of pit: Areal extent 60' x 75' Exposed thickness 20'

Lithologic composition (approximate %) 50% quartzite; 25%-30% gneiss

Grain size: Maximum 18" Mean .5" Est. % of sand 50 Est. % fines 1-5

Rounding subrounded Grading well graded Sorting medium

Soil development 6" A ploughed 10 yr 4/4
14" B 10 yr 5/8 Color C horizon 10 yr 7/4

Oxidation or staining little or no oxidation below B horizon Leaching _____

Secondary deposition _____ Reactive matter CaCO₃

Section:

Rock type	

General Description: 2 small pits within 50' of each other, 4' shovel hole at top of section shows very fine sandy pebble gravel.

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Field and megascopic observations:

Location: County Berkshire Town Great Barrington Pit X Station number 18
Off Rt. 7; 3 mi. NE of Active
 Road location Great Barrington Coordinates 42°14'15" N
73°20' W
 Geologic unit or occurrence Waterlaid ice-contact deposit: kame
 Textural description sandy gravel Eng. Soil Type GW
 Dimensions of deposit: Areal extent 600' x 600' Estimated thickness 75'
 Dimensions of pit: Areal extent 500' x 500' Exposed thickness 69'
 Lithologic composition (approximate %) _____
 Grain size: Maximum 8" Mean 1-2" Est. % of sand 50 Est. % fines 1-2
 Rounding subrounded Grading well Sorting medium to poor
10 yr 7/4 (sand of C
 Soil development Forest soil Color horizon)
 Oxidation or staining Little or no staining Leaching _____
below B horizon
 Secondary deposition _____ Reactive matter CaCO₃

Section:

Rock type	Percent
Quartzite	48
Sandstone, conglomerate	5
Limestone, dolostone, marble	23
Gneiss	2
Schists	20
Igneous	
Quartz	1
Misc.	1

General Description: Alternating layers and lenses of coarse to medium sand (some with pebbles) and poorly sorted, poorly stratified medium gravel. Sand is current bedded, in a few places deposited at low angles. No strong indication of collapse.

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 Great Barrington Massachusetts John Atherton August 1963 Mass. Materials

Field and megascopic observations:

Station number 19

Location: County Berkshire Town Great Barrington Pit X Active
Inactive

1500' south of intersection 42°16'30" N

Road location Monument Valley Road and U.S. Rt. 7. Coordinates 73°20' W

Geologic unit or occurrence Waterlaid ice-contact deposit: kame

Textural description sandy gravel Eng. Soil Type GW

Dimensions of deposit: Areal extent 2000' x 5500' Estimated thickness 10'

Dimensions of pit: Areal extent 200' x 250' Exposed thickness 75'

Lithologic composition (approximate %) _____

Grain size: Maximum 1/4" Mean 1-1.25" Est. % of sand 50 Est. % fines 7-9
rounded

Rounding subrounded Grading well graded Sorting medium

Soil development topsoil stripped Color C horizon 10 yr 7/4

Oxidation or staining Fe₂O₃ stains on pebbles Leaching _____

Secondary deposition _____ Reactive matter CaCO₃

Section:

Rock type	Remarks	Percent
Quartzite		8
Sandstone,		
conglomerate	Some arkose	10
Limestone, dolostone,		
marble		46
Gneiss		6
Schists	chlorite	20
Igneous mafic felsic		2
Quartz		6
Misc.	rotten stone	2

General Description: Pit walls badly slumped. Exposures along rim of pit show fine to medium pebble gravel. Exposures lower in section show fine to coarse sand and sandy gravel. Some lenses of well-sorted pebble and cobble gravel.

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 STATE Massachusetts
 GEOLOGIST John Atherton
 DATE August 1963
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Field and megascopic observations:

Station number 20

Location: County Berkshire Town Great Barrington Pit X Active
Inactive

450' W. of U.S. Rt. 7, north

Road location edge of quadrangle Coordinates _____

Geologic unit or occurrence Waterlaid ice-contact deposit: kame

Textural description sandy gravel Eng. Soil Type GP

Dimensions of deposit: Areal extent 1 mi. x .6 mi. Estimated thickness 100'

Dimensions of pit: Areal extent 300' x 250' Exposed thickness (ca) 45'

Lithologic composition (approximate %) _____

Grain size: Maximum 6" Mean 0.75" Est. % of sand 50 Est. % fines 2

Rounding rounded Grading poor Sorting well sorted

Soil development 6" A; pebble gravel Color* A: sandy fines are 10 yr 3/2
32" B; pebbly sand 5/3 B: sandy fines are 10 yr 4/4
C: sand and pebble gravel;

Oxidation or staining Occasional Fe₂O₃ Leaching 2.5 y 6/2
and MnO₂ crusts and coatings on pebbles

Secondary deposition Caliche Reactive matter CaCO₃

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Section:

Rock type	Percent
Sandstone, conglomerate Quartzite	5 14
Limestone, dolostone, marble	41
Gneiss (chlorite, qtz.- Schists (musc., amphibolite)	0 20
Igneous Mafic Felsic	3 0
Quartz	15
Misc.	2

General Description: Pit walls are badly slumped. Small exposures show well-stratified fine to coarse sand horizontally interbedded with pebble gravel.

Notes:

* Color in B horizon is mottled.

Estimated Engineering Characteristics of Major Deposits
of Unexploited Construction Materials

Geologist G. W. Holmes Date November 1963 Project Mass. Materials

Great

Location: Quadrangle Barrington State Mass. Town Gt. Barrington

Identifying symbol A Lat 42°15' N. Long 73°22' W.

Road coordinates On Van Duesenville Road 1/2 mile south of Housatonic Village

Accessibility Between two good roads and near railroad tracks

Geologic unit Outwash deposits

Topography Nearly flat

Water supply Eastern edge extends to banks of dammed pond in Housatonic River

Estimated texture Pebble gravel

(minimum)

Dimensions: Areal extent 3000 x 5000 Estimated thickness 40'

Present land use Agriculture and residential

Local abundance of similar materials Many sources of gravel in this quadrangle

General description: Well stratified, moderately well graded pebble gravel with some cobbles.

Evaluation: Suitability, and potential utilization.

Enormous supply of good quality gravel, easily recovered and accessible to roads and railroad. Water supply is poor as the Housatonic River is badly polluted. Williams River to the west would be suitable for washing water.

Estimated Engineering Characteristics of Major Deposits
of Unexploited Construction Materials

Geologist G. W. Holmes Date November 1963 Project Mass. Materials
Great
Location: Quadrangle Barrington State Mass. Town Monterey
Identifying symbol B Lat 42°10' N. Long 73°16' W.
Road coordinates Between Corashire and Hatchery Roads
Accessibility Adjacent to both roads
Geologic unit Waterlaid ice-contact deposit: kame and kame terrace
Topography Flat, narrow steep-sided kame to terrace joining conical kame
Water supply Next to Konkapot River, a clean, fast-flowing stream
Estimated texture Cobble gravel with some boulders
Dimensions: Areal extent 1500 x 400' Estimated thickness 80'
Present land use Forest
Local abundance of similar materials Many pits in this area, but few with
large-size materials
General description:
Poorly stratified, poorly sorted cobble gravel with some boulders in
matrix of clean sand.

Evaluation: Suitability, and potential utilization.

Good source of coarse aggregate near stream. Necessary to bridge stream
for access on the east, but close to road on west. Moderately large
supply of material.

Estimated Engineering Characteristics of Major Deposits
of Unexploited Construction Materials

Geologist G. W. Holmes Date November 1963 Project Mass. Materials

Location: Quadrangle Great Barrington State Mass. Town Great Barrington

Identifying symbol C Lat 42°11' N. Long 73°17' W.

Road coordinates Parallel to Lake Buel Road

Accessibility See above

Geologic unit Waterlaid ice-contact deposit; kame delta

Topography Long flat terrace with large depressions and a long esker at south end.

Water supply Near Lake Buel and small inlet creek

Estimated texture Cobble gravel

Dimensions: Areal extent 1500 x 6000' Estimated thickness up to 100'

Present land use Partly forest, with cottage sites along lake shore

Local abundance of similar materials Several small pits nearby

General description: Very large kame delta, with horizontal and inclined beds, poorly sorted, variable stratification, with collapse structures, and large variety of grain-size.

Evaluation: Suitability, and potential utilization.

Enormous supply of good quality grave, easily accessible. Land costs prohibitive toward lake. Very small abandoned pits at north end.

Estimated Engineering Characteristics of Major Deposits
of Unexploited Construction Materials

Geologist G. W. Holmes Date November 1963 Project Mass. Materials

Great

Location: Quadrangle Barrington State Mass. Town New Marlborough

Identifying symbol D Lat 42°10' N. Long 73°17' W.

Road coordinates West of Corashire Road, 1 mile north of Hartsville

Accessibility Southern end of deposit near road

Geologic unit Ice-channel deposit, associated with small kames

Topography Steep-sided high narrow ridge

Water supply Konkapot River about 1/4 mile to the east

Estimated texture Probably cobble gravel with some boulders

Dimensions: Areal extent 2500 x 400' Estimated thickness 30-40'

Present land use Forest

Local abundance of similar materials Many pits and gravel deposits nearby

General description: Moderately large, high esker or ice-channel deposit probably composed of poorly sorted cobble gravel, with lenses of boulders and clean sand. Part of same complex as kame and kame terrace described at locality B, and also associated with esker and kame group to the west near Stevens Pond.

Evaluation: Suitability, and potential utilization.

Good source of clean gravel, easily accessible, but not adjacent to water supply. Although there are many sources of gravel in the immediate area, many are home and lake-shore cottage sites, which give this deposit relative value.