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PRELIMINARY MATERIALS MAP, MASSACHUSETTS
PORTION OF THE EGREMONT QUADRANGLE, MASSACHUSETTS-
NEW YORK

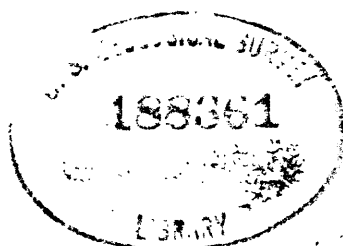
BY

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GEOLOGIC DIVISION
U.S. GEOLOGICAL SURVEY
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1. Preliminary geologic map and structure sections of the central York Mountains, Seward Peninsula, Alaska, by C. L. Sainsbury. 1 map. Alaska Div. of Mines and Minerals, State Capitol Bldg., Juneau, Alaska; U. S. Geological Survey, Brooks Memorial Bldg., College, Alaska; 516 E. 5th Ave., Anchorage, Alaska; South 157 Howard St., Spokane, Wash.; 232 Appraisers Bldg., San Francisco, Calif.; 1031 Bartlett Bldg., Los Angeles, Calif.; 468 New Custom House, Denver, Colo.; 602 Thomas Bldg., Dallas, Texas.
2. Geologic map of the Topopah Spring SW quadrangle, Nevada (TEI-846), by P. W. Lipman and E. J. McKay. 1 map, scale 1:24,000. 468 New Custom House, Denver, Colo.; 8102 Federal Office Bldg., Salt Lake City, Utah; 232 Appraisers Bldg., San Francisco, Calif.; 1031 Bartlett Bldg., Los Angeles, Calif.; Library, Mackay School of Mines, University of Nevada, Reno, Nev.
3. Preliminary materials map, Ashley Falls quadrangle, Massachusetts-Connecticut, by G. William Holmes. 1 map, scale 1:24,000; 22 data sheets. Room 1, 270 Dartmouth St., Boston, Mass.; Massachusetts Dept. of Public Works, 100 Nashua St., Boston, Mass.; U. S. Bureau of Public Roads, 31 St. James Ave., Boston, Mass. Copies from which reproductions can be made at private expense are available for this and the following 3 reports at the 270 Dartmouth St. address.
- ✓ 4. Preliminary materials map, Massachusetts portion of the Egremont quadrangle, Massachusetts-New York, by G. William Holmes. 1 map, scale 1:24,000; 11 data sheets. Room 1, 270 Dartmouth St., Boston, Mass.; Massachusetts Dept. of Public Works, 100 Nashua St., Boston, Mass.; U. S. Bureau of Public Roads, 31 St. James Ave., Boston, Mass. (See note beneath Item 3 above)
5. Preliminary materials map, Massachusetts portion of the State Line quadrangle, Massachusetts-New York, by G. William Holmes. 1 map, scale 1:24,000; 11 data sheets. Room 1, 270 Dartmouth St., Boston, Mass.; Massachusetts Dept. of Public Works, 100 Nashua St., Boston, Mass.; U. S. Bureau of Public Roads, 31 St. James Ave., Boston, Mass. (See note beneath Item 3 above)
6. Preliminary materials map, Stockbridge quadrangle, Massachusetts, by G. William Holmes. 1 map, scale 1:24,000; 7 data sheets. Room 1, 270 Dartmouth St., Boston, Mass.; Massachusetts Dept. of Public Works, 100 Nashua St., Boston, Mass.; U. S. Bureau of Public Roads, 31 St. James Ave., Boston, Mass. (See note beneath Item 3 above)

* * * * *

Field and magascopic observations:

Station number 1

Location: County Berkshire Town Sheffield Pit X Active
Inactive

North side of Curtiss Road, 42°08' N.
Road location east of intersection with Coordinates 73°24' W.
rts. 41

Geologic unit or occurrence Ice-contact stratified drift in kame terrace

Textural description Coarse pebble gravel Eng. Soil Type GW

Dimensions of deposit: Areal extent 2000' x 4000' Estimated thickness 25'

Dimensions of pit: Areal extent 60' x 75' Exposed thickness 12'

Lithologic composition (approximate %) _____

Grain size: Maximum 16" Mean 1.5-2" Est. % of sand 20 Est. % fines 5
rounded to

Rounding subrounded Grading medium to well Sorting medium to poor
6" A 10yr 4/4

Soil development 10" B yellowish matrix Color _____

Little or none below
Oxidation or staining B horizon Leaching _____

Secondary deposition _____ Reactive matter CaCO₃

Section:

Rock type	Percent
Quartzite	6
Sandstone, conglomerate	10
Limestone, dolostone, marble	60
Gneiss	
Schists	16
Igneous mafic felsic	
Quartz	8
Miscellaneous	

mostly calcareous

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This report is preliminary and has not been edited or reviewed for conformity with Geological Survey standards or nomenclature.

General Description: Textural description is of slump debris; no section exposed.

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BREMONT
MASSACHUSETTS
JOHN AHERTON
AUGUST 1963
MASS. MATERIALS
PROJECT

Field and megascopic observations:

Station number 2

Location: County Berkshire Town Egremont Pit X Active
Inactive

3000' west of rte. 41 on 42°09' N.

Road location unnamed, private road; Coordinates 73°26' W.

3000' NE of Jug End

Geologic unit or occurrence Ice channel deposit

Textural description Silt, sand, pebble mix Eng. Soil Type GM

Dimensions of deposit: Areal extent _____ Estimated thickness _____

Dimensions of pit: Areal extent _____ Exposed thickness _____

Lithologic composition (approximate %) schist 50%-75%

Grain size: Maximum _____ Mean 0.25 Est. % of sand 35 Est. % fines 20% 15-

Rounding subrounded Grading medium Sorting poor

Soil development _____ Color _____

Oxidation or staining _____ Leaching _____

Secondary deposition _____ Reactive matter _____

Section:

Rock type	

General Description: Not a pit. A small excavation shows 2' to 5' of poorly sorted, poorly stratified silt, sand, and pebbles.

Egremont
 Massachusetts
 John Atherton
 August 1963
 Mass. Materials
 STATE
 GEOLOGIST
 DATE
 PROJECT

Field and megascopic observations:

Station number 3
 Location: County Berkshire Town Great Barrington Pit X Active Inactive
East side of Sheffield 42°10' N.
 Road location Road Coordinates 73°08' W.
 Geologic unit or occurrence Outwash deposit
 Textural description Sandy gravel Eng. Soil Type GP
 Dimensions of deposit: Areal extent 1100' x 4000' Estimated thickness 20-35'
 Dimensions of pit: Areal extent 50' x 75' Exposed thickness 10'
 Lithologic composition (approximate %) Some limestone; 60% quartzite; 10% quartz
 Grain size: Maximum 1" Mean 0.15-0.2" Est. % of sand 40 Est. % fines 0-1
 Rounding subrounded- Grading poor Sorting well sorted
 Soil development 20" AB plough zone AB--10yr 4/4
10" B Color B--10yr 5/2
 Oxidation or staining Little or none below Leaching B horizon
 Secondary deposition Reactive matter CaCO₃

Section:

Rock type	

General Description: 10' of well-sorted, well-stratified coarse sand and very fine pebble gravel (interbedded). Some sand is silty.

Materials used for fill on golf course.

QUAD/COUNTY STATE GEOLOGIST DATE PROJECT
 Egremont Massachusetts John Atherton August 1963 Mass. Materials

Field and megascopic observations:

Station number 4

Location: County Berkshire Town Great Barrington Pit X Active
East side of Seekonk Cross 42°11' N.
 Road location Road, 1000' south of Coordinates 73°24' W.
intersection with West Plain Road

Geologic unit or occurrence Outwash deposit

Textural description Sandy gravel Eng. Soil Type GW

Dimensions of deposit: Areal extent 5000 x 30,000' Estimated thickness 15-25'

Dimensions of pit: Areal extent 75' x 125' Exposed thickness 10'

Lithologic composition (approximate %) _____

Grain size: Maximum 5" Mean 1" Est. % of sand 40 Est. % fines 0-1
subrounded-

Rounding rounded Grading well Sorting medium
4" A ploughed 10yr 4/3

Soil development 8" B 10yr 5/4 Color _____

Little or no staining

Oxidation or staining below B horizon Leaching _____

Secondary deposition _____ Reactive matter CaCO₃

Section:

Rock type	Percent
Quartzite	8
Sandstone, conglomerate	25
Limestone, dolostone, marble	2
Gneiss	
Schists	59
Igneous Mafic Felsic	
Quartz	6
Miscellaneous	

General Description: 5' of medium pebble gravel overlying 5' of coarse pebble sand.

QUADRANGLE
 Egremont
 Massachusetts
 STATE
 John Atherton
 GEOLOGIST
 August 1963
 DATE
 Materials
 PROJECT

Field and megascopic observations:

Station number 5
 Location: County Berkshire Town Great Barrington Pit X Active
400' north of West 42°11' N.
 Road location Plain Road Coordinates 73°24' W.

Geologic unit or occurrence Outwash deposit

Textural description pebble gravel Eng. Soil Type GW

Dimensions of deposit: Areal extent 5000 x 30,000' Estimated thickness 15-
25'

Dimensions of pit: Areal extent 400' x 900' Exposed thickness 20'

Lithologic composition (approximate %) _____

Grain size: Maximum 20" Mean 1" Est. % of sand 30 Est. % fines 1
 rounded to

Rounding subrounded Grading medium to well Sorting medium to poor

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

Oxidation or staining _____ Leaching _____

Secondary deposition _____ Reactive matter CaCO₃

Section:

Rock type	Percent
Quartzite	5
Sandstone, conglomerate	23
Limestone, dolostone, marble	3
Gneiss	
Schists	57
Igneous Mafic	1
Felsic	
Quartz	13
Miscellaneous	

General Description: Very broad shallow pit, walls of which are badly slumped. Map shows pit symbol on Qal. Materials exposed in pit are those of outwash, not alluvium. Actually pit extends from within 300' of West Plain Road, 900' to north.

QUADRANGLE Egremont STATE Massachusetts GEOLOGIST John Atherton DATE August 1963 PROJECT Mass. Materials

Field and magascopic observations:

Station number 6

Location: County Berkshire Town Egremont Pit X Active
1500' west of intersection 42°11' N.
 Road location locust Hill Road and West Coordinates 73°25' W.
Plain road.

Geologic unit or occurrence Outwash depositTextural description pebble gravel Eng. Soil Type GPDimensions of deposit: Areal extent 5000 x 30,000' Estimated thickness 15-25'Dimensions of pit: Areal extent 300' x 300' Exposed thickness 20'

Lithologic composition (approximate %) _____

Grain size: Maximum 5" Mean 1" Est. % of sand 25 Est. % fines 0-1Rounding subrounded Grading medium to poor Sorting medium to wellSoil development 6" A 10yr 4/4 10" B 10yr 6/6 Color _____Oxidation or staining Little or no oxidation
below B horizon Leaching _____Secondary deposition _____ Reactive matter CaCO₃

Section:

Rock type	Percent
Quartzite	3
Sandstone, conglomerate	24
Limestone, dolostone, marble	
Gneiss	
Schists (+ phyllite)	48
Igneous <u>Mafic</u>	2
<u>Felsic</u>	
Quartz	22
Miscellaneous	1

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General Description: Cut into scarp on contact between outwash and alluvium.
 Materials exposed are outwash. 20' of well-sorted, well-stratified medium
 pebble gravel.

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QUADRANGLEMASSACHUSETTS
STATEJOHN AITHERTON
GEOLOGISTAUGUST 1963
DATEMASS. MATERIALS
PROJECT

Field and megascopic observations:

Station number 7Location: County Berkshire Town Egremont Pit X Active
Inactive3800' northwest of intersection
Road location Locust Hill Rd. and West Coordinates 42°11' N.
Plain Rd. (access from rte. 72) 73°26' W.Geologic unit or occurrence Outwash depositTextural description Pebble gravel Eng. Soil Type GPDimensions of deposit: Areal extent 5000 x 30,000' Estimated thickness 15-
25'Dimensions of pit: Areal extent 150' x 200' Exposed thickness 20'

Lithologic composition (approximate %) _____

Grain size: Maximum 48" Mean 1.25" Est. % of sand 30 Est. % fines 0-1Rounding subrounded Grading poor Sorting well sortedSoil development 6" A 10yr 4/4
12" B 10yr 5/6 Color 10yr 7/3 C horizonOxidation or staining Little or none below
B horizon Leaching _____Secondary deposition _____ Reactive matter CaCO₃

Section:

Rock type	Percent
Quartzite	5
Sandstone, conglomerate	20
Limestone, dolostone, marble	
Gneiss	
Schists (+ phyllite)	41
Igneous Mafic Felsic	3
Quartz	27
Miscellaneous	4

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General Description: 20' of medium to coarse pebble gravel; some lenses and sheets of coarse sand.

Egremont
QUADRANGLEMassachusetts
STATEJohn Albertson
GEOLOGISTAugust 1963
DATEMass. Materials
PROJECT

Field and megascopic observations:

Station number 8
 Location: County Berkshire Great X Active Inactive
 Town Barrington Pit 42°13' N.
 Road location NE side of Alford Road Coordinates 73°08' W.
 Geologic unit or occurrence Outwash deposit
 Textural description Pebble gravel Eng. Soil Type GP
 Dimensions of deposit: Areal extent 5000 x 30,000' Estimated thickness 15-25'
 Dimensions of pit: Areal extent 125' x 200' Exposed thickness 10'
 Lithologic composition (approximate %) _____
 Grain size: Maximum 60" Mean 1" Est. % of sand 20 Est. % fines 0-1
 Rounding subrounded Grading poor Sorting well sorted
 Soil development 6" A 4/3 20" B 5/6 Color 10yr 7/3 C horizon _____
 Oxidation or staining _____ Leaching _____
 Secondary deposition _____ Reactive matter CaCO₃

Section:

Rock type	Percent
Quartzite	6
Sandstone, conglomerate	12
Limestone, dolostone, marble	8
Gneiss	
Schists	49
Igneous Mafic Felsic	
Quartz	23
Miscellaneous	2

General Description: 10' poorly stratified, well sorted medium pebble gravel.
 Boulders litter floor of pit. Surface of deposit is generally clean.

QUADRANGLE
 STATE
 PROJECT
 Egremont
 Massachusetts
 John Atherton
 August 1963
 Mass. Materials

Estimated Engineering Characteristics of Major Deposits
of Unexploited Construction Materials

Geologist G. W. Holmes Date November 1963 Project Mass. Materials
Location: Quadrangle Egremont State Mass. Town Sheffield/Egremont
Identifying symbol A Lat 42°08' N. Long 73°24' W.
Road coordinates Near junction of Curtis and unnamed road
Accessibility Along roads
Geologic unit Ice-contact stratified drift: kame terrace
Topography Gently rolling terrace with a few shallow closed depressions
Water supply Small pond in center of deposit
Estimated texture Pebble-cobble gravel
Dimensions: Areal extent 1000x2000' Estimated thickness 20'
Present land use Agriculture
Local abundance of similar materials Small inactive pit to the southeast
General description: Part of large kame and esker complex. Probably
consists of clean, well-graded, irregularly stratified gravel with
collapse structures, and possibly lenses of sand and boulders.

Evaluation: Suitability, and potential utilization.
Large supply of good quality sand and gravel, readily accessible and
near water supply.

**Estimated Engineering Characteristics of Major Deposits
of Unexploited Construction Materials**

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

Location: **Quadrangle** Egremont **State** Mass. **Town** Sheffield

Identifying symbol B **Lat** 42°08' N. **Long** 73°24' W.

Road coordinates Between Sheffield, Limekiln and Bow Wow Roads

Accessibility Crossed by Sheffield Road

Geologic unit Outwash

Topography Near flat terrace with a few shallow depressions

Water supply Adjacent to two small brooks and a pond

Estimated texture Pebble gravel

Dimensions: **Areal extent** 1 x 3 $\frac{1}{2}$ mi. **Estimated thickness** 20'

Present land use Agriculture and forest

Local abundance of similar materials Several pits along Green River
to the north

General description:

Evenly bedded, clean moderately well graded pebble gravel.

Evaluation: Suitability, and potential utilization.

An enormous supply of good-quality gravel, readily accessible and near water supply. Possibly contains local bodies of till and boulders.

Water table probably a limiting factor.

Estimated Engineering Characteristics of Major Deposits
of Unexploited Construction Materials

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

Location: Quadrangle Egremont State Mass. Town Great Barrington

Identifying symbol C Lat 42°15' N. Long 73°23' W.

Along Williams River west of improved road (in
Road coordinates adjoining Great Barrington quadrangle)

Accessibility Along road

Geologic unit Outwash

Topography Nearly flat terrace

Water supply Along Williams River, a relatively clean stream

Estimated texture Pebble gravel

Dimensions: Areal extent 2000x5000' Estimated thickness 20'

Present land use Agriculture and forest

Local abundance of similar materials Part of extensive gravel terrace
continuing into adjacent quadrangles

General description:

Evenly bedded, moderately well graded, pebble-cobble gravel, with possibly
some sand lenses.

Evaluation: Suitability, and potential utilization.

Very large supply of good quality clean gravel and sand, near water
supply. Road would need to be constructed.