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GEOLOGIC DIVISION
U.S. GEOLOGICAL SURVEY
Washington, D. C.

For release JUNE 5, 1964

The Geological Survey is releasing in open files the following reports. Copies are available for consultation in the Geological Survey libraries, 1033 GSA Bldg., Washington, D. C.; Bldg. 25, Federal Center, Denver, Colo.; 345 Middlefield Rd., Menlo Park, Calif.; and in other offices as listed:

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.

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Field and megascopic observations:

Station number 1

Location: County Berkshire Town Great Barrington Pit ___ Active X Inactive

Road location Off of Route 7 near north town line Coordinates 73°20' W. 42°15 N.

Geologic unit or occurrence Ice-contact stratified drift in kame

Textural description Gravel Eng. Soil Type GW

Dimensions of deposit: Areal extent 1800 x 1500' Estimated thickness 75'

Dimensions of pit: Areal extent 500 x 500' Exposed thickness 50'

Lithologic composition (approximate %) Quartzite 20%, limestone 30%, schist 30%, misc. 20%

Grain size: Maximum 6" Mean 0.5" Est. % of sand 50 Est. % fines 2

Rounding rounded Grading well graded Sorting moderate

Soil development stripped Color ___

Oxidation or staining ___ Leaching ___

Secondary deposition Caliche Reactive matter $CaCO_3$

Section:

Rock type	

U. S. Geological Survey
OPEN FILE REPORT
This report is preliminary and has not been edited or reviewed for conformity with Geological Survey standards or nomenclature

General Description: Inactive pit, badly slumped. Very large supply of unexploited gravel remains in this kame, but there are large supplies nearby to the south.

QUADRANGLE Stockbridge
STATE Massachusetts
GEOLOGIST G. W. Holmes
DATE November 1963
PROJECT Mass. Materials

Field and megascopic observations:

Station number 2

Location: County Berkshire Town Stockbridge Pit X Active ___ Inactive

Road location West side of Cherry Road; 1800' S. of intersection Cherry and Glendale Roads Coordinates 42°16'30" N. 73°21'45" W.

Geologic unit or occurrence delta

Textural description pebble gravel Eng. Soil Type GW

Dimensions of deposit: Areal extent 1000' x 3300' Estimated thickness 90'-100'

Dimensions of pit: Areal extent 200' x 400' Exposed thickness 60'

Lithologic composition (approximate %) ___

Grain size: Maximum 10" Mean 0.75" Est. % of sand 30 Est. % fines 0-3

Rounding rounded Grading well graded Sorting medium

Soil development Topsoil stripped Color Gravel of C horizon 10yr 7/1 & 2

Oxidation or staining Variable; little or no staining of gravel beds; sandy beds 10yr 5/3 Leaching ___

Secondary deposition Fe_2O_3 coatings on some pebbles; caliche common Reactive matter $CaCO_3$

Section:

Rock type	Percent	
Quartzite	13	some green
Sandstone, conglomerate	8	arkose; some calcareous sandstone
Limestone, dolostone, marble	60	
Gneiss	1	
Schists	7	
Igneous: Mafic		
Igneous: Felsic		
Free quartz	11	commonly lens or quartz assoc. with chlorite schist
Miscellaneous		

General Description: Exposures are generally poor as walls are badly slumped. Best exposure on south wall: 60' of interbedded fine to medium pebble gravel and coarse to medium pebble sand (as lenses and sheets). Occasional fine sandy bed. Exposure on east end of north wall shows pebble sand of foresets overlying finer sand and silty sand of delta bottomsets(?). Caliche is a common feature; large chunks and sheets of calcified coarse sand and fine pebble gravel may be found along south wall.

QUADRANGLE Stockbridge
STATE Massachusetts
GEOLOGIST J. Atherton
DATE August 1963
PROJECT Mass. Materials

Field and megascopic observations:

Station number 3

Location: County Berkshire Town Lee Pit X Active Inactive

Road location SW side of Meadow Road; west of intersection Meadow and Fernside Roads Coordinates 42°16'20" N. 73°15'30" W.

Geologic unit or occurrence Ice-contact stratified drift: kame

Textural description pebble sand Eng. Soil Type SW

Dimensions of deposit: Areal extent 800' x 1200' Estimated thickness 50'-75'

Dimensions of pit: Areal extent 150' x 225' Exposed thickness 50'

Lithologic composition (approximate %)

Grain size: Maximum 16" Mean 0.25"-.50" Est. % of sand 80 Est. % fines 0-3

Rounding subrounded Grading well graded Sorting medium

Soil development 6" A 24"-36" B Color B: 10yr 6/8

Oxidation or staining variable 5' to 15' Leaching

Secondary deposition Reactive matter $CaCO_3$

Section:

Rock type	Percent	
Quartzite	20	some red quartzite
Sandstone, conglomerate	10	
Limestone, dolostone, marble	8	
Gneiss	32	some badly weathered
Schists	13	
Igneous Mafic Felsic		
Free quartz	16	
Miscellaneous	1	

General Description: Three pits very near each other. 50' well graded pebble sand. Interbedded fine to coarse sand, silty sand, sandy gravel, and well sorted fine and medium pebble gravel. Bedding in many places is highly disterted and sheared by collapse. Ripple marks seen very clearly in most fine sandy beds.

QUADRANGLE Stockbridge STATE Massachusetts GEOLOGIST G. W. Holmes DATE August 1963 PROJECT Mass. Materials

Field and megascopic observations:

Station number 4

Location: County Berkshire Town Lee Pit Active X Inactive

Road location 300' north of Stockbridge Road; 1000' west of intersection Stockbridge Road and Church Street Coordinates 42°17'30" N. 73°17' W.

Geologic unit or occurrence Ice-contact stratified drift; kame

Textural description sand Eng. Soil Type SP

Dimensions of deposit: Areal extent 600' x 1500' Estimated thickness 10'-30'

Dimensions of pit: Areal extent 100' x 175' Exposed thickness 15'

Lithologic composition (approximate %) ?

Grain size: Maximum 48" Mean <0.25" Est. % of sand 96 Est. % fines 1-4 silty

Rounding subangular subrounded Grading poor Sorting well sorted

Soil development 4" A 24" B silty sand slight staining Color A 10yr 5/3 dry B 10yr 6/8 C: sand: 10yr 6/4

Oxidation or staining throughout section Leaching

Secondary deposition Reactive matter $CaCO_3$

Section:

Rock type	

General Description: Except for one small exposure, pit walls are badly slumped. One tiny lens of pebbly sand. Two limestone boulders occupy pit floor.

QUADRANGLE Stockbridge

STATE Massachusetts

GEOLOGIST G. W. Holmes

DATE August 1963

PROJECT Mass. Materials

Estimated Engineering Characteristics of Major Deposits
of Unexploited Construction Materials

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

Location: Quadrangle Stockbridge State Mass. Town West Stockbridge

Identifying symbol A Lat 42°21' N. Long 73°23' W.

Road coordinates West of Cone Hill Road and South of Furnace Road

Accessibility Separated from road by small brook

Geologic unit Outwash deposit

Topography Slightly rolling terrace

Water supply Near small brook and Shaker Mill Pond

Estimated texture Gravel

Dimensions: Areal extent 1300x1300' Estimated thickness 20'

Present land use Pasture

Local abundance of similar materials Several large pits to the west

General description: Probably well-stratified well-graded pebble-cobble gravel.

Evaluation: Suitability, and potential utilization.
Large quantity of good-quality gravel, near roads and water supply.

Estimated Engineering Characteristics of Major Deposits
of Unexploited Construction Materials

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

Location: Quadrangle Stockbridge State Mass. Town West Stockbridge

Identifying symbol B Lat 42°21' N. Long 73°23' W.

Road coordinates South of Furnace Road and west of Cone Hill Road

Accessibility One point adjacent Cone Hill Road

Geologic unit Ice-contact stratified drift: kame terrace

Topography Gently rolling terrace with closed depressions

Water supply Near small brook

Estimated texture Gravel

Dimensions: Areal extent 1000x2000' Estimated thickness 30'

Present land use Pasture and forest

Local abundance of similar materials Several large pits to the west

General description: Probably well-graded clean pebble-cobble gravel, with some collapse features and possibly boulders and sand lenses.

Evaluation: Suitability, and potential utilization.

Large supply of good-quality gravel, near roads and water, and in an area of current construction activity.

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Estimated Engineering Characteristics of Major Deposits
of Unexploited Construction Materials

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

Location: Quadrangle Stockbridge State Mass. Town Stockbridge

Identifying symbol C Lat 42°17' N. Long 73°21' W.

Road coordinates Unimproved road west of Cherry Hill Street

Accessibility Single lane road

Geologic unit Ice-contact stratified drift; kame. Surrounds two small eskers.

Topography Knob and kettle terrain

Water supply Not nearby

Estimated texture Gravel of mixed sizes

Dimensions: Areal extent 1000x4000' Estimated thickness 20-50'

Present land use Forest

Local abundance of similar materials Very large pit nearby

General description: Kame complex with eskers, probably containing clean gravel, with boulders and sand lenses, and with collapse structures.

Evaluation: Suitability, and potential utilization.

Apparently quarried at one time, but other sources more accessible at present. Very large supply of good quality gravel.