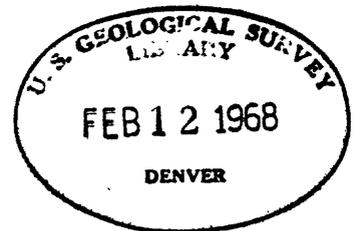


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U. S. GEOLOGICAL SURVEY  
Washington, D. C.  
20242



For release FEBRUARY 21, 1968

The U. S. 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. 20242; Bldg. 25, Federal Center, Denver, Colo. 80225; and 345 Middlefield Rd., Menlo Park, Calif. 94025. They are also available for consultation in other offices as listed:

1. Platinum deposits of Alaska, by John B. Mertie, Jr. 65 p., 2 black-and-white plates, 6 tables. Brooks Bldg., College, Alaska 99701; 108 Skyline Bldg., 508 2nd Ave., Anchorage, Alaska 99501; 441 Federal Bldg., Juneau, Alaska 99801; 504 Custom House, San Francisco, Calif. 94111; 7638 Federal Bldg., Los Angeles, Calif. 90012. Reproducible material for the two plates from which copy can be made at private expense is available in the San Francisco office shown above.

2. Availability of palynological material from Naval Petroleum Reserve No. 4, IV: North Simpson Test Well No. 1, by Richard A. Scott. 2 p.

3. Map showing location of subbottom acoustic profiles in San Francisco Bay from Bay Farm Island westward toward Hunter's Point, filed with the National Oceanographic Data Center, by the U. S. Geological Survey. 1 p., 4 maps (page size). 504 Custom House, San Francisco, Calif. 94111.

Master copies of the continuous profiler records are filed with the National Oceanographic Data Center, Bldg. 150, Washington Navy Yard, Washington D.C. 20390, and may be inspected there. Single copies of the maps may be obtained from the Data Center and arrangements may be made with them to secure material from which copies of the data may be made at private expense.

4. Preliminary geologic map of Bancroft quadrangle, Caribou and Bannock Counties, Idaho, by S. S. Oriel. 1 sheet, scale 1:48,000. Copies of the report are also available for consultation at 678 U. S. Court House Bldg., West 920 Riverside Ave., Spokane, Wash. 99201; 1012 Federal Bldg., Denver, Colo. 80202; and 8102 Federal Office Bldg., Salt Lake City, Utah 84111; and material from which copy can be made at private expense is also on file in those three offices.

5. Preliminary materials map, Blandford quadrangle, Massachusetts, by G. William Holmes. 1 map, scale 1:24,000; 4 tables. Massachusetts Dept. of Public Works, 100 Nashua St., Boston, Mass. 02114; USGS, 80 Broad St., Boston, Mass. 02110. Latter office also holding material from which copy can be made at private expense.

8-131 [ 6. Preliminary materials map, Cheshire quadrangle, Massachusetts, by G. William Holmes. 1 map, scale 1:24,000; 22 tables. (See No. 5, above.)

7. Preliminary materials map, Pittsfield East quadrangle, Massachusetts, by G. William Holmes. 1 map, scale 1:24,000; 15 tables. (See No. 5, above.)

8. Preliminary materials map, Plainfield quadrangle, Massachusetts, by G. William Holmes. 1 map, scale 1:24,000; 3 tables. (See No. 5, above.)

\* \* \* \* \*



open field 2/2/68

field and microscopic observations:

Station number 1

Location: County Berkshire Town Lanesborough Pit X Active  
Inactive

Road location Bull Hill Rd. and Rts. 7 Coordinates 42° 30.0'N  
73° 14.5'W

Geologic unit or occurrence Ice contact stratified drift in kame terrace

Textural description Pebble sand Eng. Soil Type SW

Dimensions of deposit: Areal extent 2000'x2200' Estimated thickness 100'

Dimensions of pit: Areal extent 200'x300' Exposed thickness 10'

Lithologic composition (approximate %) See below

Grain size: Maximum 2' Mean 0.4" Est. % of sand 65 Est. % fines 10-15

Rounding Subround-subangular Grading Med.-well Sorting Med.-poor

Soil development Stripped Color --

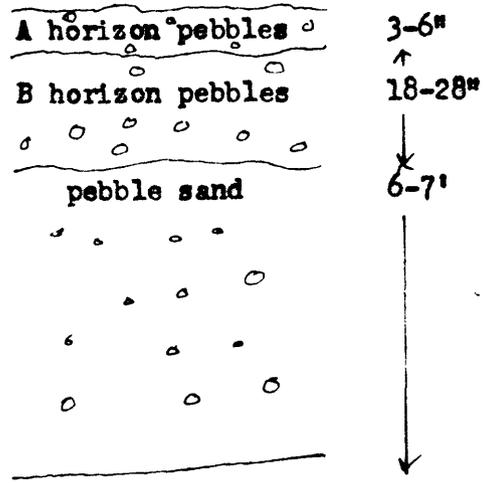
Oxidation or staining --- Leaching ---

Secondary deposition Minor Fe Reactive matter Minor CaCO<sub>3</sub>

MASSACHUSETTS  
 QUADRANGLE  
 Chester  
 STATE  
 G. C. Kelley  
 GEOLICIST  
 DATE  
 7/10/67  
 PROJECT  
 Materials

Section:

Rock type	%
Quartz	26
Schist	42
Quartzite	16
Sandstone	10
Limestone	6



General Description: Soil has been stripped and pebble sand exposed. These materials have been used to grade to the level of the Bull Hill road. Some has been used for fill at other locations. Grading of the pit faces has obscured section. Survey stakes indicate the area will be used for construction of buildings.

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.

Field and megascopic observations:

Station number 2

Location: County Berkshire Town Lanesborough Pit Active  
Old State Road on X Inactive  
 Road location S. boundary of quadrangle Coordinates 42° 30.0'N  
73° 12.0'W

Geologic unit or occurrence Ice contact stratified drift in kame

Textural description Pebble-cobble sand Eng. Soil Type SP

Dimensions of deposit: Areal extent 6000'x1200' Estimated thickness 40'

Dimensions of pit: Areal extent 50'x20' Exposed thickness 12'

Lithologic composition (approximate %) \_\_\_\_\_

Grain size: Maximum 12" Mean 0.8" Est. % of sand 80 Est. % fines 3

Rounding Rounded Grading Poor to fair Sorting Medium to well

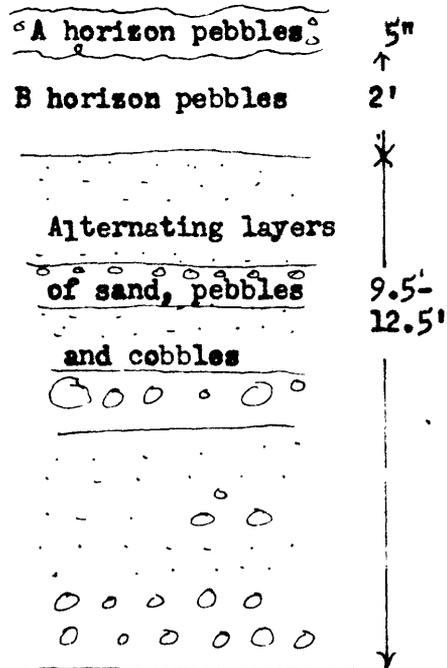
Soil development A 5" B 2 1/2" Color 10YR 5/1-4/1 moist

Oxidation or staining \_\_\_\_\_ Leaching \_\_\_\_\_

Secondary deposition \_\_\_\_\_ Reactive matter \_\_\_\_\_

Section:

Rock type	%
Sandstone	20
Quartzite	72
Quartz	2
Schist	2
Gneiss	4



General Description: This is a small slumped pit which seems to have well-washed stratified sands containing some pebbles and small cobbles.

QUADRANGLE  
Cheshire

STATE  
Mass.

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PROJECT  
Materials

Mass.

Field and microscopic observations:

Station number 3

Location: County Berkshire Town Lanesborough Pit X Active  
Inactive

Read location Route 7 S. of St. Lukes Church Coordinates 42° 31.5'N  
73° 14.0'W

Geologic unit or occurrence Stream terrace deposit

Textural description Pebble sand Eng. Soil Type SW

Dimensions of deposit: Areal extent 200'x1500' Estimated thickness 40'

Dimensions of pit: Areal extent 600'x100' Exposed thickness 15'

Lithologic composition (approximate %) \_\_\_\_\_

Grain size: Maximum 4' Mean 0.4" Est. % of sand 70 Est. % fines 5-8

Rounding Round-subround Grading Poor-med Sorting Med-well

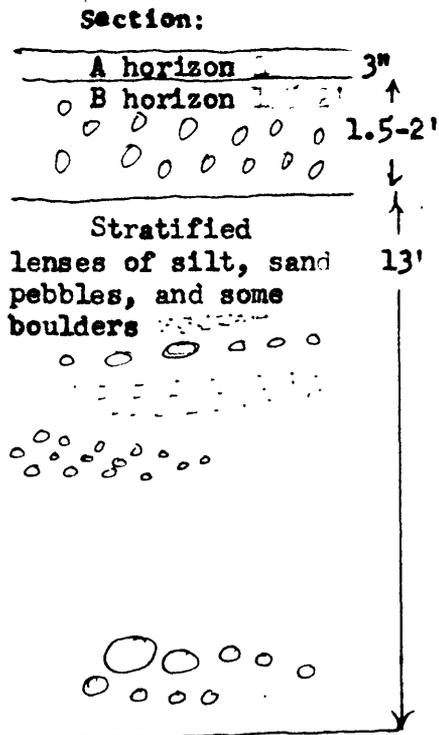
Soil development Stripped  
A 3" / B 18-24" Color \_\_\_\_\_

Oxidation or staining \_\_\_\_\_ Leaching \_\_\_\_\_

Secondary deposition Minor Fe Reactive matter Minor CaCO<sub>3</sub>

Chester  
 QUADANGLE  
 Mass.  
 STATE  
 G. C. Kelley  
 GEOLOGIST  
 DATE 7/11/57  
 PROJECT Materials

Rock type	%
Quartzite	20
Quartz	18
Sandstone	14
Limestone	22
Schist	24
Misc.	2



General Description: Boulders mainly found at depth of 12-15'. Above the boulders are stratified pebble, cobble sand. Lenses of silt and fine pebbles noted. Pit face strikes due NS.

Field and microscopic observations:

Station number 4

Location: County Berkshire Town Cheshire Pit  Active  Inactive  
 Road location Route 8 Coordinates 42° 32.0'N  
73° 11.0'W

Geologic unit or occurrence Ice contact stratified drift in kame terrace

Textural description Gravel of mixed sizes Eng. Soil Type GW

Dimensions of deposit: Areal extent 1000'x1000' Estimated thickness 50'

Dimensions of pit: Areal extent 200'x200' Exposed thickness 15'

Lithologic composition (approximate %) \_\_\_\_\_

Grain size: Maximum 5' Mean 0.4" Est. % of sand 50 Est. % fines 8-10

Rounding Well Grading Medium Sorting Medium

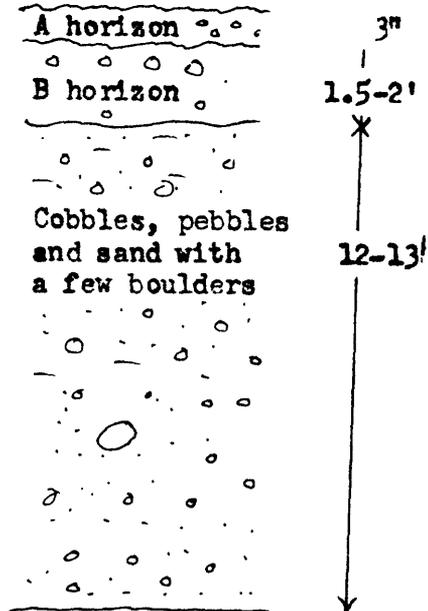
Soil development A 3" B 18-24" Color 10YR 4/4 moist

Oxidation or staining Some Fe in A and B Leaching \_\_\_\_\_

Secondary deposition Some Fe Reactive matter Minor CaCO<sub>3</sub>

Section:

Rock type	%
Schist	36
Quartzite	46
Sandstone	12
Quartz	6



General Description: Collapse of stratified layers observed. Sand with silt and small pebbles dominate.

QUADRANGLE  
Cheshire

STATE  
Mass.

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DATE  
7/13/67

PROJECT  
Mass.  
Materials

Field and macroscopic observations:

Station number 5

Location: County Berkshire Town Cheshire Pit X Active  
Inactive  
 Road location Route 8 E. of Farnum Coordinates 42°32'15" N 73°10'40" W

Geologic unit or occurrence Ice contact stratified drift in kame delta

Textural description Sand Eng. Soil Type SP

Dimensions of deposit: Areal extent 6000'x1200' Estimated thickness 120'

Dimensions of pit: Areal extent 100'x200' Exposed thickness 30'

Lithologic composition (approximate %) \_\_\_\_\_

Grain size: Maximum 1' Mean 0.25" Est. % of sand 80 Est. % fines 10

Rounding Subrounded Grading Poor Sorting Well

Soil development A 6" B 18"-24" Color 10YR 5/4

Oxidation or staining Fe to 2' Leaching \_\_\_\_\_

Secondary deposition Some Fe Reactive matter Minor CaCO<sub>3</sub>

QUADRANGLE

Cheshire

STATE

Mass.

GEOLOGIST

G. C. Kelley

DATE

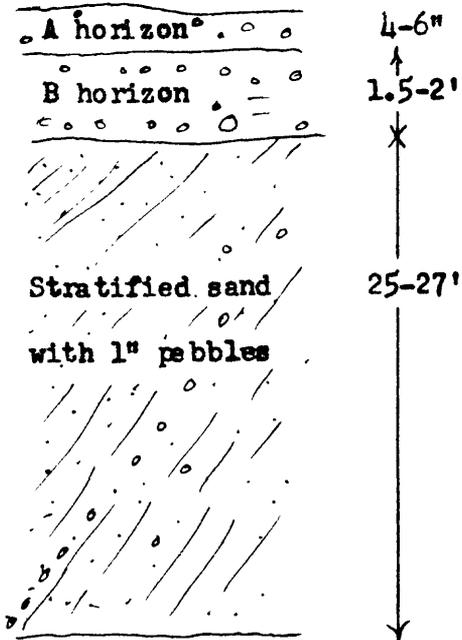
7/10/67

PROJECT

Mass. Materials

Section:

Rock type	%
Quartzite	42
Schist	32
Sandstone	18
Quartz	4
Limestone	4



General Description: Delta sands with foreset beds striking N-S, dipping 20°-25° west. Surface concentration of 2"-6" pebbles due to erosion while material is mainly fine sands and silt.

Field and macroscopic observations:

Station number 6

Location: County Berkshire Town Cheshire Pit X Active  
Inactive  
 Road location Route 8 Coordinates 42° 32.5'N  
73° 10.5'W

Geologic unit or occurrence Ice contact stratified drift

Textural description Cobble-pebble sand Eng. Soil Type SP

Dimensions of deposit: Areal extent 6000'x1200' Estimated thickness 130'

Dimensions of pit: Areal extent 50'x200' Exposed thickness 30'

Lithologic composition (approximate %) S

Grain size: Maximum 6' Mean 0.8" Est. % of sand 60 Est. % fines 5-8

Rounding Subrounded-  
rounded Grading Poor Sorting Medium-well

Soil development A 5" B 24" Color 10YR 5/4

Oxidation or staining \_\_\_\_\_ Leaching \_\_\_\_\_

Secondary deposition Minor Fe Reactive matter CaCO<sub>3</sub>

QUADRANGLE

Cheshire

STATE

Mass.

GEOLOGIST

G. C. Kelley

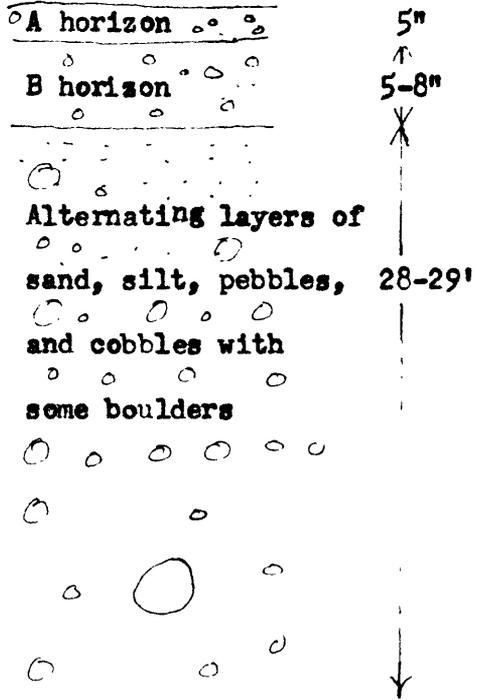
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PROJECT

Mass. Materials

Section:



Rock type	%
Quartzite	46
Schist	34
Quartz	10
Sandstone	6
Gneiss	4

General Description: Collapse and stratification observed.



Field and macroscopic observations:

Station number 8

Location: County Berkshire Town Cheshire Pit X Active  
Inactive  
120° 33.0'N  
 Road location Lanesboro Road Coordinates 73° 10.5'W

Geologic unit or occurrence Ice contact stratified drift in kame

Textural description Sand Eng. Soil Type SP

Dimensions of deposit: Areal extent 1000'x400' Estimated thickness 30'

Dimensions of pit: Areal extent 100'x60' Exposed thickness 20'

Lithologic composition (approximate %) \_\_\_\_\_

Grain size: Maximum 4" Mean 0.2" Est. % of sand 80 Est. % fines 5-8

Rounding Well rounded Grading Poor Sorting Good

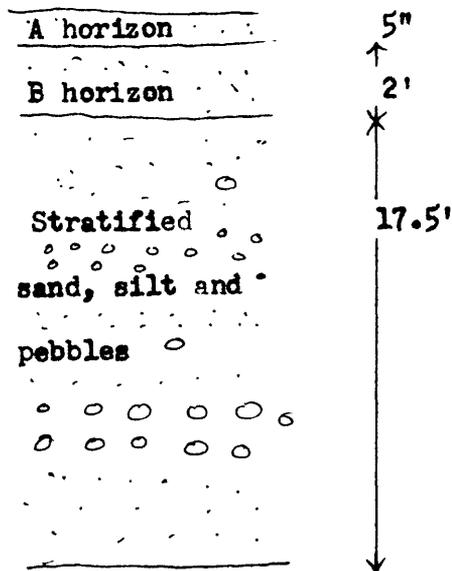
Soil development A 5" B 2 1/2" Color 10YR 6/4 dry

Oxidation or staining Minor Fe Leaching \_\_\_\_\_

Secondary deposition \_\_\_\_\_ Reactive matter Not observed

CHESHIRE  
 MASS.  
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 DATE 7/13/67  
 PROJECT Materials

Section:



Rock type	%
Schist	56
Quartzite	16
Quartz	20
Black shale	4
Gneiss	2
Sandstone	2

General Description: Fine sand with silt and 1-inch pebble layers. Some lenses and strings of coarse sand also noted. Two-to four-inch pebbles are few in number but well rounded. A second pit located to the east appears to belong to the same formation. This second pit is also inactive.



Field and microscopic observations:

Station number 10

Location: County Berkshire Town Cheshire Pit x Active  
Inactive  
 42° 33.5'N  
 Road location Lanesboro Rd. & Rt. 8 Coordinates 73° 10.0'W

Geologic unit or occurrence Ice contact stratified drift with deltaic bedding

Textural description Gravel of mixed sizes Eng. Soil Type GW

Dimensions of deposit: Areal extent 1000' x 8000' Estimated thickness 140'  
 (one in a complex)

Dimensions of pit: Areal extent 100' x 100' Exposed thickness 20'

Lithologic composition (approximate %) \_\_\_\_\_

Grain size: Maximum 10' Mean 1/2 in. Est. % of sand 40 Est. % fines 3

Rounding Rounded Grading med-well Sorting poor

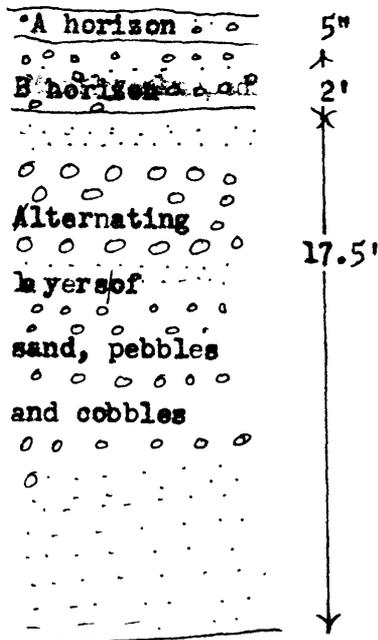
Soil development A 5" B 24" Color 10 YR 5/4 moist

Oxidation or staining some Fe Leaching --

Secondary deposition -- Reactive matter minor CaCO<sub>3</sub>

Section:

Rock type	%
Schist	54
Quartz	20
Sandstone	10
Limestone	2
Shale	4
Quartzite	10



General Description: Well stratified sand and gravel. Some areas of this complex dominated by sand and pebbles, others have a high percent of cobbles and boulders. Cut and fill observed.

Cheshire

Mass.

G.C. Kelley

7-13-67

Mass. Materials PROJECT

Field and macroscopic observations:

Station number 11

Location: County Berkshire Town Cheshire Pit x Active  
 Center 42° 34' 00"  
 Road location Rte. 8 N. of Cheshire/ Coordinates 73° 09' 40"

Geologic unit or occurrence Name delta - delta deposit

Textural description Pebble sand Eng. Soil Type SP

Dimensions of deposit: Areal extent 1800' x 1500' Estimated thickness 80'

Dimensions of pit: Areal extent 300' x 100' Exposed thickness 25'

Lithologic composition (approximate %) \_\_\_\_\_

Grain size: Maximum 6' Mean .0394" Est. % of sand 80 Est. % fines 5

Rounding Well-subround Grading poor-medium Sorting medium-well

Soil development A-3" / B-15" Color 10 YR 4/3-3/3

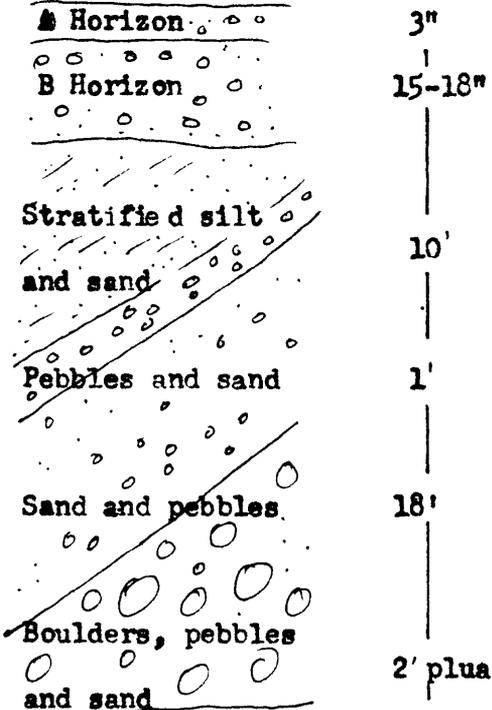
Oxidation or staining -- Leaching --

Secondary deposition Fe<sub>2</sub>O<sub>3</sub> Reactive matter CaCO<sub>3</sub>

Cheshire  
 MASSACHUSETTS  
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 PROJECT  
 Mass. Materials

Section:

Rock type	%
Quartz	26
Quartzite	24
Schist	22
Limestone	4
Sandstone	14
Gneiss	10



General Description: Central portion has delta foreset beds consisting of fine stratified sands. Lateral to this stratified material is a heterogenous, till-like material lacking stratification.

Field and macroscopic observations:

Station number 12

Location: County Berkshire Town Cheshire Pit x Active  
Inactive  
 Road location Route 8 Coordinates 42° 34.0' N  
73° 9.0' W

Geologic unit or occurrence Ice contact stratified drift on kame delta

Textural description Sand Eng. Soil Type SP

Dimensions of deposit: Areal extent 8000' x 2000' Estimated thickness 100'

Dimensions of pit: Areal extent 50' x 30' Exposed thickness 12'

Lithologic composition (approximate %) \_\_\_\_\_

Grain size: Maximum 12" Mean 0.02" Est. % of sand 80 Est. % fines 3

Rounding Well rounded Grading poor Sorting good

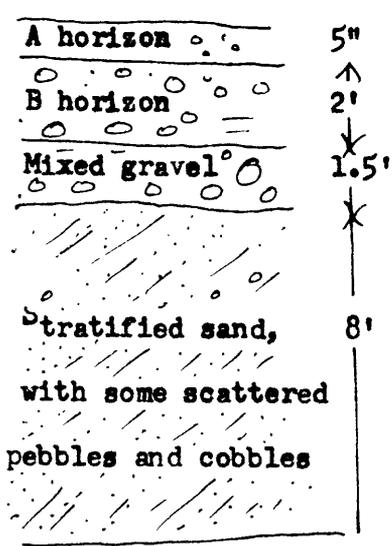
Soil development A5" / B 24" Color 10 YR 7/6

Oxidation or staining Minor Fe Leaching --

Secondary deposition -- Reactive matter --

Cheshire  
 MASS.  
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 GEOLOGIST  
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 7-13-67  
 PROJECT  
 Materials

Section:



Rock type	%
Quartz	18
Quartzite	46
Schist	24
Sandstone	12

General Description: Gravel concentrated in top 4 feet. Cut and fill noted in this formation. Two other pits which are located due west of this one are in the same formation.

Field and macroscopic observations:

Station number 13

Location: County Berkshire Town Cheshire Pit x Active Inactive

42° 34.5' N

Road location Route 8 Coordinates 73° 9.0' W

Geologic unit or occurrence Ice contact stratified drift in kame delta

Textural description Sand Eng. Soil Type SP

Dimensions of deposit: Areal extent 8000' x 2000' Estimated thickness 100'

3 pits--

Dimensions of pit: Areal extent 300' x 300' Exposed thickness 30'

Lithologic composition (approximate %) \_\_\_\_\_

Grain size: Maximum 5' Mean 0.2" Est. % of sand 80 Est. % fines 3

Rounding well Grading poor Sorting good

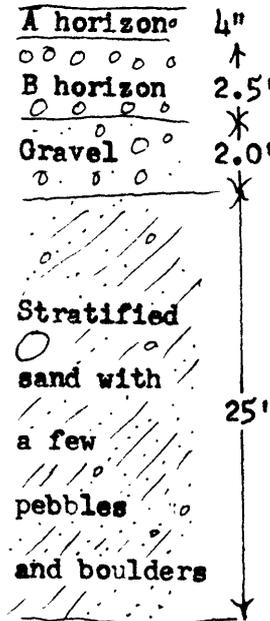
Soil development A 3" B 24" Color 10 YR 7/6 dry

Oxidation or staining -- Leaching --

Secondary deposition Minor Fe Reactive matter Minor CaCO<sub>3</sub>

Section:

Rock type	%
Quartzite	58
Schist	8
Sandstone	28
Quartz	4
Black shale	2



General Description: Stratified sand with one inch pebbles in one in. layers. Some random boulders and pebbles.

Cheshire  
QUADRANGLE

Mass.  
STATE

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GEOLOGIST

7-13-67  
DATE

Mass.  
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Field and microscopic observations:

Station number 14

Location: County Berkshire Town Cheshire Pit x Active  
Inactive  
 Road location Rte. 8 Coordinates 42° 34.5' N  
73° 9.0' W

Geologic unit or occurrence Ice contact stratified drift in kame delta

Textural description Sand Eng. Soil Type SP

Dimensions of deposit: Areal extent 8000' x 2000' Estimated thickness 100'

Dimensions of pit: Areal extent 200' x 100' Exposed thickness 25'

Lithologic composition (approximate %) \_\_\_\_\_

Grain size: Maximum 10" Mean .02" Est. % of sand 80 Est. % fines 3

Rounding Well Grading poor Sorting well

Soil development A 5" B 18-24" Color 10 YR 4/3 moist

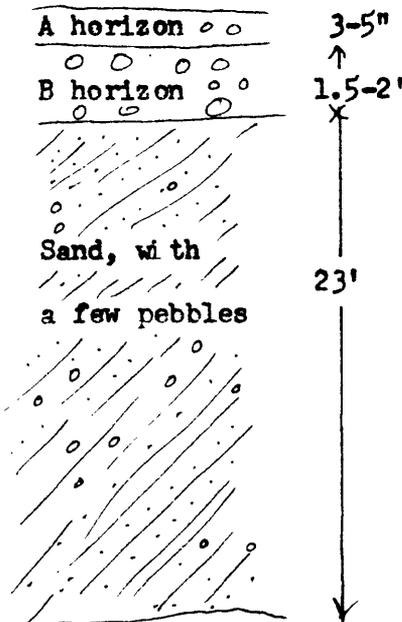
Oxidation or staining -- Leaching --

Secondary deposition -- Reactive matter none noted

Cheshire  
 MASS.  
 STATE  
 G.C. Kelley  
 GEOLOGIST  
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 7-13-67  
 PROJECT  
 Materials

Section:

Rock type	%
Quartzite	54
Quartz	2
Black shale	4
Sandstone	30
Schist	10



General Description: This seems to be like pit 13. Coarse material--sand and small pebbles--concentrated in upper part. Below four feet some pebbles found but not stratified sand dominates. Cut and fill observed. Sand in this delta is consistently very white.



Field and microscopic observations:

Station number 16

Location: County Berkshire Town Cheshire Pit X Active  
Inactive  
 Coordinates 42°34'55"  
 Road location Rt. 8 near Penniman Brook Coordinates 73°08'45"

Geologic unit or occurrence Ice contact stratified drift in kame delta

Textural description Sand Eng. Soil Type SP

Dimensions of deposit: Areal extent 8600'x2000' Estimated thickness 120'

Dimensions of pit: Areal extent 1000'x600' Exposed thickness 20'-30'  
 Complex of pits Most pits

Lithologic composition (approximate %) \_\_\_\_\_

Grain size: Maximum 1' Mean 0.04" Est. % of sand 80 Est. % fines 10

Rounding Subrounded Grading Poor Sorting Well

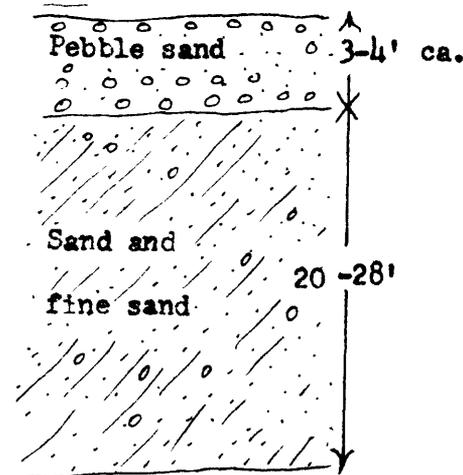
Soil development Generally stripped  
A 3" B 18"-24" Color 10 YR 7/6-6/6

Oxidation or staining Minor Fe Leaching \_\_\_\_\_

Secondary deposition Minor Fe Reactive matter Weak CaCO<sub>3</sub>

Section:

Rock type	%
Quartzite	58
Quartz	4
Sandstone	22
Schist	10
Gneiss	6



General Description: Cut and fill structures common. Four to six feet of fine gravel have been generally removed throughout the pit complex. Minor amount of pebble material remain interbedded in the fine sand. Foreset beds generally strike N-S with 20° dip E.

Cheshire  
 MASSACHUSETTS  
 QUADRANGLE  
 STATE  
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 Materials  
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 Mass.

field and microscopic observations:

Station number 17

Location: County Berkshire Town Adams Pit x Active  
Inactive  
42° 36.5' N  
 Road location Rt. 8 at Arnoldville Coordinates 73° 08' W

Geologic unit or occurrence Ice contact stratified drift in kame

Textural description Sand Eng. Soil Type SP

Dimensions of deposit: Areal extent 6000' x 2000' Estimated thickness 200'

Dimensions of pit: Areal extent 40' x 20' Exposed thickness 10'

Lithologic composition (approximate %) Similar to pit 20

Grain size: Maximum 2" Mean 0.02" Est. % of sand 80 Est. % fines 2

Rounding Well Grading Poor Sorting Good

Soil development A.3" / B 12-15" Color \_\_\_\_\_

Oxidation or staining \_\_\_\_\_ Leaching \_\_\_\_\_

Secondary deposition \_\_\_\_\_ Reactive matter \_\_\_\_\_

Section:

Slumped

Rock type	

General Description: Slump of surface obscured section.

QUADRANGLE

STATE

GEOLOGIST

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Cheshire

Mass.

G.C.Kelley

7-13-67

Mass.  
Materials

Field and macroscopic observations:

Station number 18

Location: County Berkshire Town Adams Pit x Active  
Inactive

42°36.5'N

Road location Route 8 Coordinates 73° 8.0'W

Geologic unit or occurrence Ice channel deposit

Textural description Cobble gravel Eng. Soil Type GW

Dimensions of deposit: Areal extent 800'x200' Estimated thickness 80'

Dimensions of pit: Areal extent 200'x100' Exposed thickness 40'

Lithologic composition (approximate %) \_\_\_\_\_

Grain size: Maximum 5' Mean 1" Est. % of sand 40 Est. % fines 2

Rounding Subround Grading Good Sorting Poor

Soil development A 3" / B 12" Color 10 YR 8/3-7/3

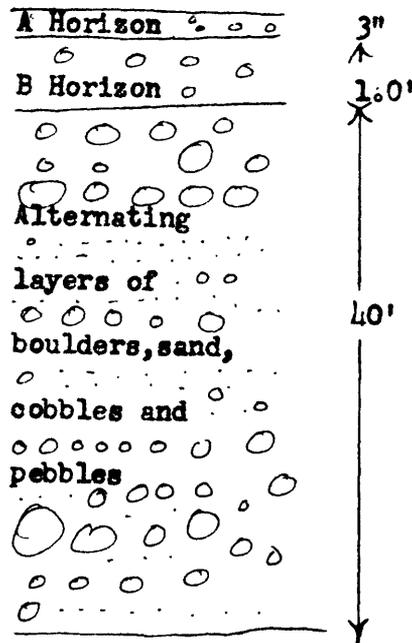
Oxidation or staining \_\_\_\_\_ Leaching \_\_\_\_\_

Secondary deposition \_\_\_\_\_ Reactive matter Some CaCO<sub>3</sub>

CHESHIRE  
 MASS.  
 STATE  
 GEOLOGIST  
 G. C. Kelley  
 7-13-67  
 PROJECT

Section:

Rock type	%
Quartzite	46
Sandstone	40
Schist	10
Gneiss	4



General Description: Soil seems very thin. Classic longitudinal section of an esker.

Field and microscopic observations:

Station number 19

Location: County Berkshire Town Adams Pit x Active  
Inactive  
42°36.5'N  
 Road location Trailer park-Route 8 Coordinates 73° 8.0'W

Geologic unit or occurrence Kame -Ice contact stratified drift

Textural description Pebble sand Eng. Soil Type SW

Dimensions of deposit: Areal extent 6000' x 2000' Estimated thickness 200'

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

Lithologic composition (approximate %) \_\_\_\_\_

Grain size: Maximum 2' Mean .0197" Est. % of sand 70 Est. % fines 2-6

Rounding Subrounded Grading Med-well Sorting Poor to med

Soil development A 3" / B 12" Color 10 YR 7/4-6/4

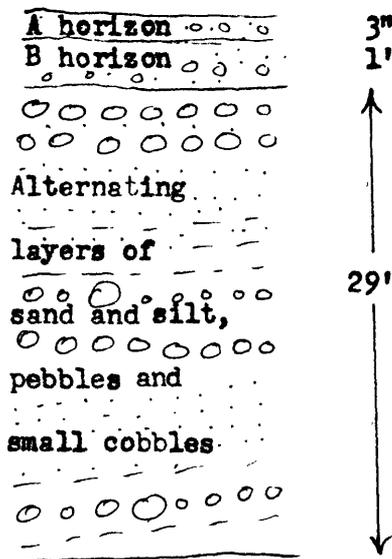
Oxidation or staining \_\_\_\_\_ Leaching \_\_\_\_\_

Secondary deposition Minor Fe Reactive matter Minor CaCO<sub>3</sub>

QUADRANGLE Cheshire  
 STATE Mass.  
 GEOLOGIST G.C. Kelley  
 DATE 7-13-67  
 PROJECT Materials

Section:

Rock type	%
Sandstone	26
Quartzite	48
Limestone	4
Schist	8
Quartz	6
Black shale	2
Gneiss	6



General Description: Stratified sand with layers of pebbles and silt.

Field and microscopic observations:

Station number 20

Active

Location: County Berkshire Town Adams Pit x Inactive  
 Trailer park 42° 36.5' N  
 Road location off Route 8 Coordinates 73° 8.0' W

Geologic unit or occurrence Ice contact stratified drift in kame

Textural description Sand Eng. Soil Type SP

Dimensions of deposit: Areal extent 6000' x 2000' Estimated thickness 200'

Dimensions of pit: Areal extent 20' x 30' Exposed thickness 15'

Lithologic composition (approximate %) Quartzite 50; Limestone 10; Sandstone 15; Schist 20; misc. 5

Grain size: Maximum 2" Mean .02" Est. % of sand 90 Est. % fines 2

Rounding Well Grading Poor Sorting Good

Soil development A 3" / B 10" Color Light brown

Oxidation or staining Some Fe Leaching \_\_\_\_\_

Secondary deposition Some Fe Reactive matter Minor CaCO<sub>3</sub>

Section:

Rock type	

Slumped

General Description: Small pit containing mainly washed sand.

QUADRANGLE  
Cheshire

STATE  
Mass.

G.C. Kelley  
GEOLOGIST

7-13-67  
DATE

Mass.  
Materials  
PROJECT

Field and microscopic observations:

Station number 21

Location: County Berkshire Town New Ashford Pit x Active  
Inactive  
42° 36.0' N  
 Road location Mallory Road Coordinates 73° 15.0' W

Geologic unit or occurrence Ice contact stratified drift in kame

Textural description Gravel of mixed sizes Eng. Soil Type GW

Dimensions of deposit: Areal extent 400' x 400' Estimated thickness 60'

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

Lithologic composition (approximate %) \_\_\_\_\_

Grain size: Maximum 8' Mean 0.8" Est. % of sand 50 Est. % fines 3-5

Rounding Well-subround Grading Med.-well Sorting Fair to med.

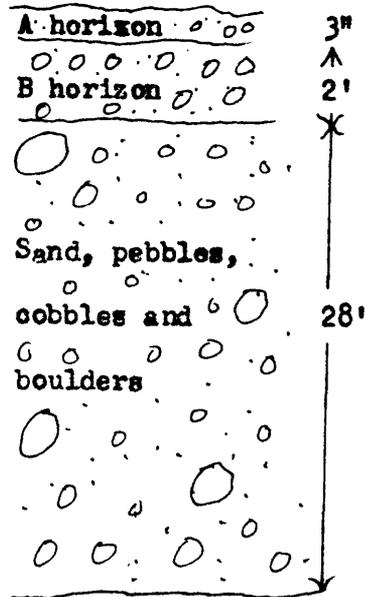
Soil development A 3" / B 24" Color 10 YR 6/3 dry

Oxidation or staining Minor Fe Leaching \_\_\_\_\_

Secondary deposition Minor Fe Reactive matter CaCO<sub>3</sub>

Section:

Rock type	%
Sandstone	12
Schist	48
Quartz	14
Black shale	22
Quartzite	4



General Description: Large blocks of very weak black shale mixed in the gravel. Stratification seems evident in this water washed material although machine mixing is very severe.

Cheshire  
QUADRANGLE

Mass.  
STATE

G.C. Kelley  
GEOLOGIST

7-11-67  
DATE

Mass.  
Materials  
PROJECT

Field and macroscopic observations:

Station number 22

Location: County Berkshire Town New Ashford Pit x Active  
Inactive  
 Coordinates 42°36.5'N  
73°14.5'W

Read location Mallory Road

Geologic unit or occurrence Ice contact stratified drift in kame

Textural description Sand Eng. Soil Type SW

Dimensions of deposit: Areal extent 600'x2000' Estimated thickness 80'

Dimensions of pit: Areal extent 50'x30' Exposed thickness 15'

Lithologic composition (approximate %) \_\_\_\_\_

Grain size: Maximum 8" Mean 0.02" Est. % of sand 80 Est. % fines 5-8

Rounding Round-subround Grading Poor to med Sorting Mdd-well

Soil development A 3" / B 12" (Stripped) Color 10 YR 6/3 dry

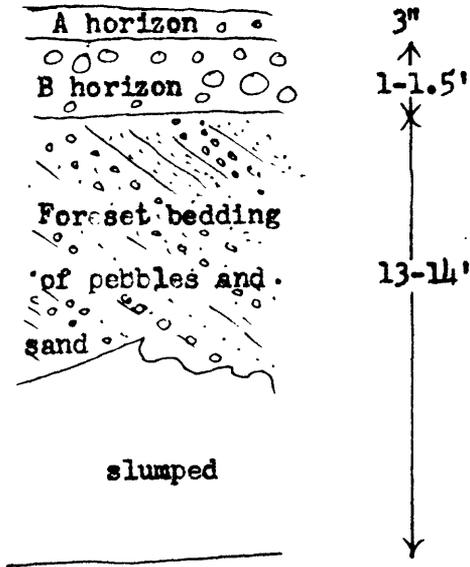
Oxidation or staining Some Fe Leaching --

Secondary deposition Some Fe Reactive matter Minor CaCO<sub>3</sub>

QUADRANGLE Cheshire  
 STATE Mass.  
 GEOLOGIST G.C. Kelley  
 DATE 7-11-67  
 PROJECT Materials

Section:

Rock type	%
Schist	66
Quartz	16
Quartzite	16
Sandstone	2



**General Description:** Gravel concentrated in upper two feet. Material stratified as layers of silty sands containing lenses and layers of fine pebbles. Beds dip westward due to collapse. Pit is the northernmost pit in a complex of five pits. Gravel has been removed from the upper 2-4'. Southern pit seems to contain foreset beds dipping to the east.