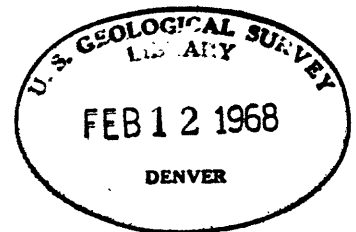


(200)
R 290

Weld - Int. 2905

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.)

* * * * *

Field and macroscopic observations:

Station number 4

Location: County Hampden Town Blandford Pit X Active
0.6 Mi. off Blair Rd. 42°12' N
 Road location and S. of N. Blandford Coordinates 72°58.5' W

Geologic unit or occurrence Ice contact stratified drift, in kame

Textural description Fine sand, with cobbles Eng. Soil Type GW

Dimensions of deposit: Areal extent 1000' x 800' Estimated thickness 20'

Dimensions of pit: Areal extent 150' x 150' Exposed thickness 15'

Lithologic composition (approximate %) Granite; gneiss; schist; quartzite
(Too few cobbles for an estimate)

Grain size: Maximum 4' Mean 1/16" Est. % of sand 85 Est. % fines 3

Rounding Well Grading Well Sorting Medium

Soil development Upper 2' stained Color Yellowish brown

Oxidation or staining Upper 2' Leaching --

Secondary deposition -- Reactive matter --

Section:

Rock type	

Slumped. No stratigraphy exposed

General Description: Small, thin deposit, not very accessible, but in an area of sparse gravel resources.

BLANDFORD
 QUADRANGLE
 MASS.
 STATE
 GEOLOGIST
 G. W. HOLMES
 DATE
 JULY, 1965
 PROJECT
 MASS. MATERIALS

field and macroscopic observations:

Station number 1

Location: County Berkshire Town Lanesborough Pit X Active
Inactive

Read 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

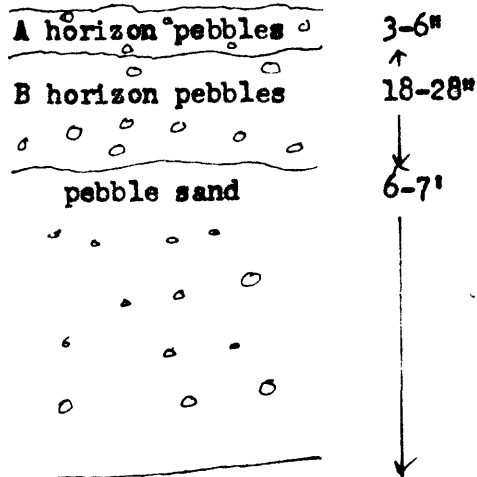
Soil development Stripped Color --

Oxidation or staining -- Leaching --

Secondary deposition Minor Fe Reactive matter Minor CaCO₃

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.

MASS. MATERIALS PROJECT
 GEOLGICIST G. C. Kelley
 DATE 7/10/67
 STATE MASS.
 COUNTY CHeshire

field and megascopic observations:

Station number 2

Location: County Berkshire Town Lanesborough Pit Active
Old State Road on 42° 30.0'N
 Road location S. boundary of quadrangle Coordinates 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 Peer to fair Sorting Medium to well

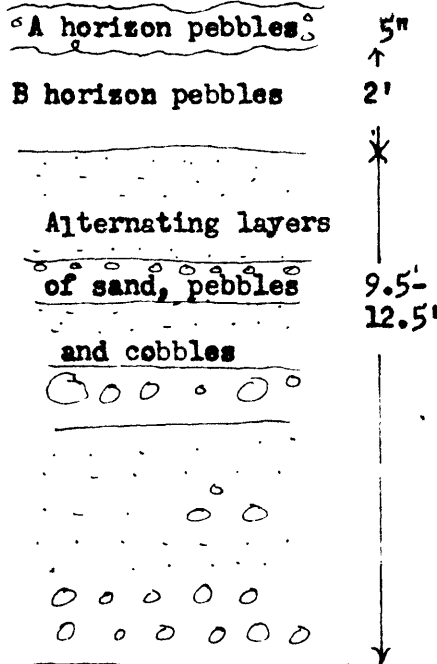
Soil development A 5" B 24" Color 10YR 5/4-4/4 moist

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.

G. C. Kelley
GEOLOGIST

DATE
7/13/67

PROJECT
Mass.
Materials

Field and macroscopic observations:

Station number 3Location: County Berkshire Town Lanesborough Pit X Active InactiveRead location Route 7 S. of St. Lukes Church Coordinates 42° 31.5'N 73° 14.0'WGeologic unit or occurrence Stream terrace depositTextural description Pebble sand Eng. Soil Type SWDimensions of deposit: Areal extent 200'x1500' Estimated thickness 40'Dimensions of pit: Areal extent 600'x100' Exposed thickness 15'

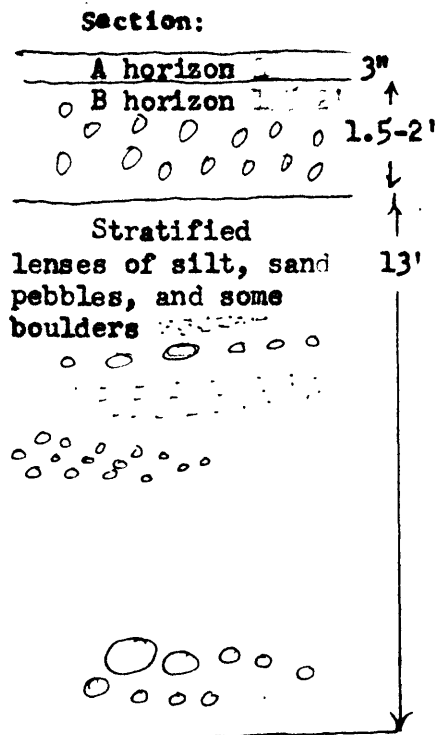
Lithologic composition (approximate %) _____

Grain size: Maximum 4' Mean 0.4" Est. % of sand 70 Est. % fines 5-8Rounding Round-subround Grading Poor-med Sorting Med-wellSoil development Stripped A 3" / B 18-24" Color _____

Oxidation or staining _____ Leaching _____

Secondary deposition Minor Fe Reactive matter Minor CaCO₃

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.

QUADRANGLE
CheshireSTATE
Mass.GEOLOGIST
G. C. KelleyDATE
7/11/67PROJECT
Mass.
Materials

Field and macroscopic observations:

Station number 4

Location: County Berkshire Town Cheshire Pit X Active ☒ Inactive ☐

Read 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

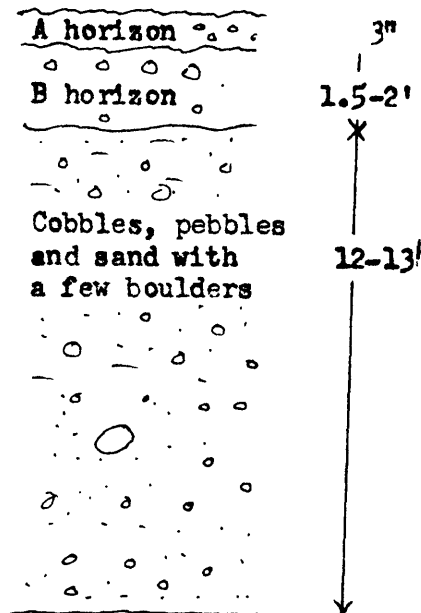
Soil development A 3" B 18-24" Color 10YR 4/4 moist

Oxidation or staining Some Fe in A and B Leaching _____

Secondary deposition Some Fe Reactive matter Minor CaCO₃

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.

Cheshire
Mass.
G. C. Kelley
7/13/67
Materials

Field and macroscopic observations:

Station number 5Location: County Berkshire Town Cheshire Pit ActiveInactive
42°32'15"Road location Route 8 E. of Farnum Coordinates 73°10'40"Geologic unit or occurrence Ice contact stratified drift in kame deltaTextural description Sand Eng. Soil Type SPDimensions 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 10Rounding Subrounded Grading Poor Sorting WellSoil development A 6" B 18"-24" Color 10YR 5/4Oxidation or staining Fe to 2' Leaching _____Secondary deposition Some Fe Reactive matter Minor CaCO₃

QUADRANGLE

Cheshire

STATE

Mass.

GEOLOGIST

G. C. Kelley

DATE

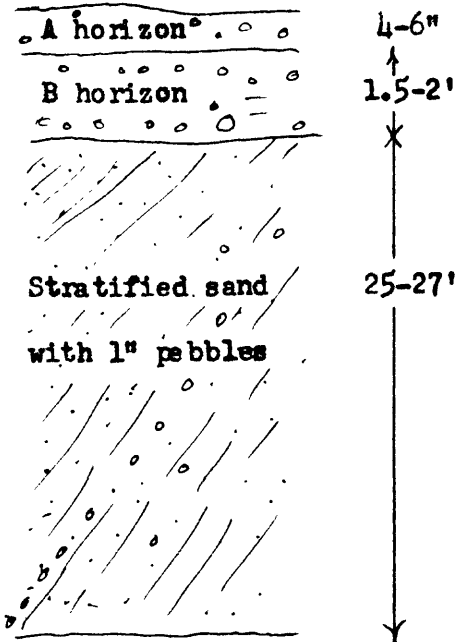
7/10/67

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 megascopic 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 CaCO₃

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

Section:

A horizon 5"
B horizon 5-8"
Alternating layers of
sand, silt, pebbles, 28-29'
and cobbles with
some boulders

General Description: Collapse and stratification observed.

QUADRANGLE

Cheshire

STATE

Mass.

GEOLOGIST

G. C. Kelley

DATE

7/13/67

PROJECT

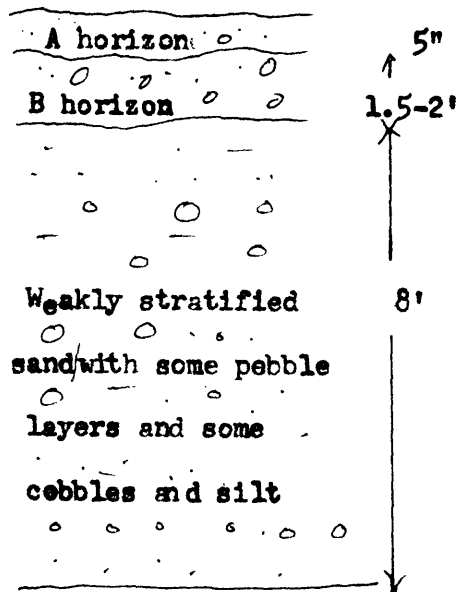
Mass.
Materials

Field and macroscopic observations;

Station number 7Location: County Berkshire Town Cheshire Pit X Active
Inactive
420 32.5'N
Read location Notch road Coordinates 73° 8.0'WGeologic unit or occurrence Ice contact stratified drift in kameTextural description Pebble sand Eng. Soil Type SPDimensions of deposit: Areal extent 1000'x600' Estimated thickness 40'
2 pits eachDimensions of pit: Areal extent 100'x50' Exposed thickness 10'Lithologic composition (approximate %) Sandstone, 30; quartzite, 40; schist,
20; shale, 5; misc., 5.Grain size: Maximum 2 1/4" Mean .0394" Est. % of sand 70 Est. % fines 3-5Rounding Subrounded Grading Poor-med. Sorting Med.-to wellSoil development A 5" B 19-24" Color 10YR 4/2-3/2Oxidation or staining Fe Leaching Secondary deposition Fe Reactive matter None observed

Section:

Rock type	

General Description: Surface slump obscures section. Some stratification present. Mainly sand with silt and pebbles.

QUADRANGLE

Cheshire

STATE

Mass.

GEOLOGIST

G. C. Kelley

DATE

7/16/67

PROJECT

Mass.
Materials

Field and megascopic 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

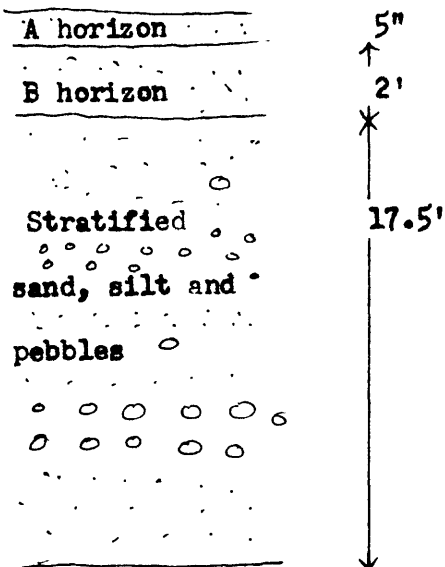
Geologic unit or occurrence Ice contact stratified drift in kameTextural description Sand Eng. Soil Type SPDimensions of deposit: Areal extent 1000'x400' Estimated thickness 30'Dimensions of pit: Areal extent 100'x60' Exposed thickness 20'

Lithologic composition (approximate %) _____

Grain size: Maximum 4" Mean 0.2" Est. % of sand 80 Est. % fines 5-8Rounding Well rounded Grading Poor Sorting GoodSoil development A 5" B 24" Color 10YR 6/4 dryOxidation or staining Minor Fe Leaching _____Secondary deposition _____ Reactive matter Not observed

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.

QUADRANGLE

STATE

GEOLOGIST

DATE

PROJECT

Cheshire

Mass.

G. C. Kelley

7/13/67

Materials

Mass.

Field and macroscopic observations:

Station number 9

Location: County Berkshire Town Cheshire Pit X Active
Inactive

42° 33.0' N

Read location Lanesboro Road Coordinates 73° 10.5' W

Geologic unit or occurrence Ice contact stratified drift in kame

Textural description Silty sand Eng. Soil Type SP

Dimensions of deposit: Areal extent 5000' x 1500' Estimated thickness 100'

Dimensions of pit: Areal extent 10' x 100' Exposed thickness 20'

Lithologic composition (approximate %) Probably like pit 8

Grain size: Maximum 12" Mean 0.005" Est. % of sand 50 Est. % fines 15-20

Rounding Well Grading Poor Sorting Good

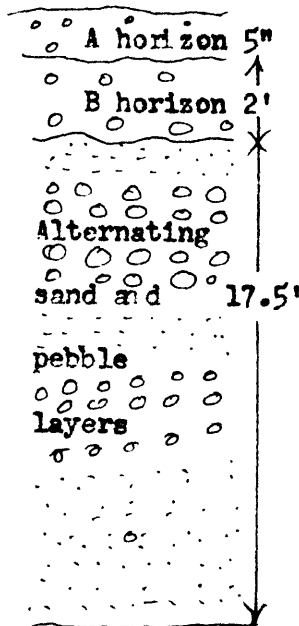
Soil development A 5" B 24" Color 10 YR 5/3-4/3

Oxidation or staining minor Fe Leaching --

Secondary deposition -- Reactive matter none observed

Section:

Rock type	



General Description: Stratified silt to coarse sand with some small pockets of pebbles. This pit was opened to develop a parking lot.

Cheshire

QUADRANGLE

Mass.

STATE

G. C. Kelley

GEOLOGIST

7-13-67

DATE

Mass.

Materials

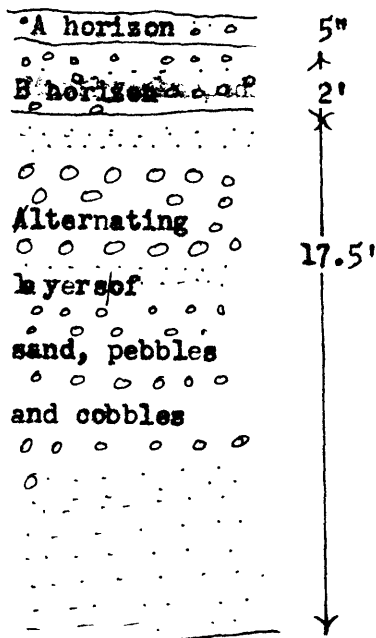
PROJECT

Field and megascopic 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 CaCO₃

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

Section:



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
 STATE

Mass.
 STATE

G.C. Kelley
 GEOLOGIST

DATE

PROJECT

7-13-67

Mass.
 Materials

Field and megascopic 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 Same delta - delta depositTextural description Pebble sand Eng. Soil Type SPDimensions 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 5Rounding Well-subround Grading poor-medium Sorting medium-wellSoil development A-3" / B-15" Color 10 YR 4/3-3/3Oxidation or staining -- Leaching --Secondary deposition Fe₂O₃ Reactive matter CaCO₃

Section:

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

A Horizon	3"
B Horizon	15-18"
Stratified silt and sand	10'
Pebbles and sand	1'
Sand and pebbles	18'
Boulders, pebbles and sand	2' plus

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.

Cheshire
QUADRANGLEMass.
STATEG.C. Kelley
GEOLOGIST7-7-67
DATEMass. Materials
PROJECT

Field and macroscopic observations:

Station number 12

Location: County Berkshire Town Cheshire Pit x Active
Inactive

42° 34.0' N

Road location Route 8 Coordinates 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

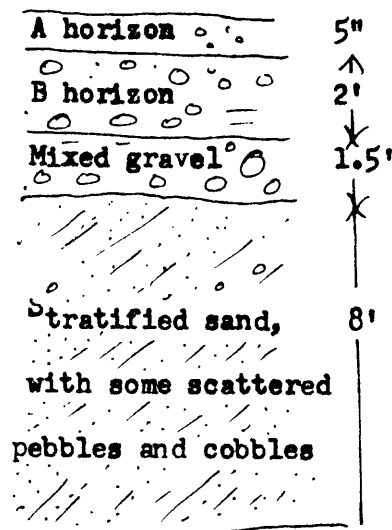
Soil development A5" / B 24" Color 10 YR 7/6

Oxidation or staining Minor Fe Leaching --

Secondary deposition -- Reactive matter --

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.

Cheshire
QUADRANGLE

Mass.
STATE

G. C. Kelley
GEOLOGIST

7-13-67
DATE

Mass.
PROJECT

Field and macroscopic observations:

Station number 13
 Location: County Berkshire Town Cheshire Pit x Active Inactive
 Road location Route 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'
 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 CaCO₃

Section:

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

A horizon 4"
 B horizon 2.5'
 Gravel 2.0'
 Stratified sand with a few pebbles and boulders 25'

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

Cheshire
QUADRANGLE

Mass.
STATE

G.C. Kelley
GEOLOGIST

7-13-67
DATE

Mass.
Materials
PROJECT

Field and macroscopic observations:

Station number 14

Location: County Berkshire Town Cheshire Pit x Active
Inactive

42° 34.5' N

Road location Rte. 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'

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

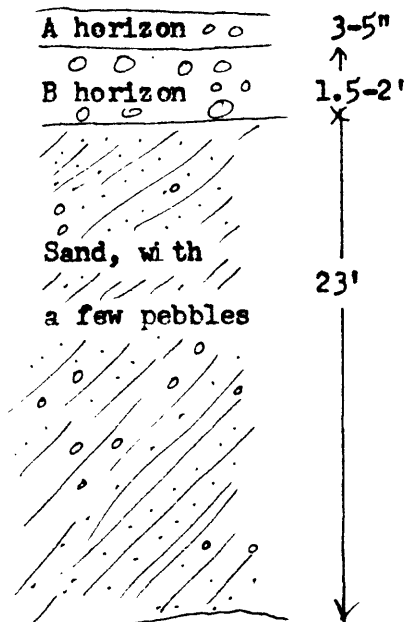
Soil development A 5" B 18-24" Color 10 YR 4/3 moist

Oxidation or staining -- Leaching --

Secondary deposition -- Reactive matter none noted

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.

Cheshire
MASS.

STATE

G.C. Kelley
GEOLOGIST

DATE

PROJECT

Materials

Field and macroscopic observations:

Station number 15

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'

Dimensions of pit: Areal extent 258' x 12' Exposed thickness 8'

Lithologic composition (approximate %) Quartzite, 45%; SS, 25%; schist, 30%

Grain size: Maximum 12" Mean 0.02" Est. % of sand 70 Est. % fines 2

Rounding Well Grading poor Sorting good

Soil development A. 6" / B 18" Color 10 YR 4/3 moist

Oxidation or staining Some Fe Leaching

Secondary deposition Some Fe Reactive matter Minor CaCO₃

Section:

Rock type	

Blumped

General Description: Exposure old and small.

Cheshire
QUADRANGLE

Mass.
STATE

G.C. Kelley
GEOLOGIST

7-13-67
DATE

Mass.
Materials
PROJECT

Field and megascopic observations:

Station number 16

Location: County Berkshire Town Cheshire Pit X Active
42°34'55"
 Read 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'

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

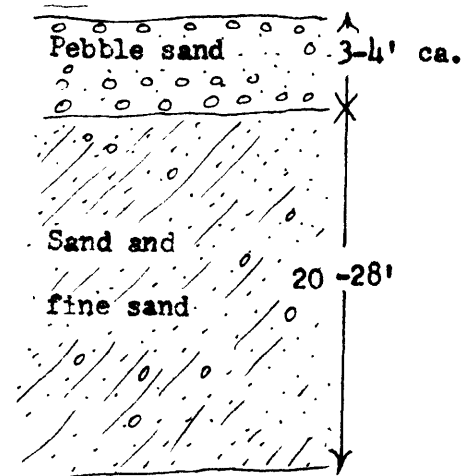
Soil development A 3" B 18"-24" Color 10 YR 7/6-6/6

Oxidation or staining Minor Fe Leaching _____

Secondary deposition Minor Fe Reactive matter Weak CaCO₃

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
 QUADRANGLE
 Massachusetts
 STATE
 G.C. Kelley
 GEOLOGIST
 7-10-67
 DATE
 Mass.
 PROJECT

field and macroscopic observations;

Station number 17

Location: County Berkshire Town Adams Pit x Active Inactive

42° 36.5' N

Road location Rt. 8 at Arnoldsville 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:

Rock type	

Slumped

General Description: Slump of surface obscured section.

Cheshire
QUADRANGLE

Mass.
STATE

G.C.Kelley
GEOLOGIST

7-13-67
DATE

Mass.
PROJECT
Materials

Field and megascopic 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

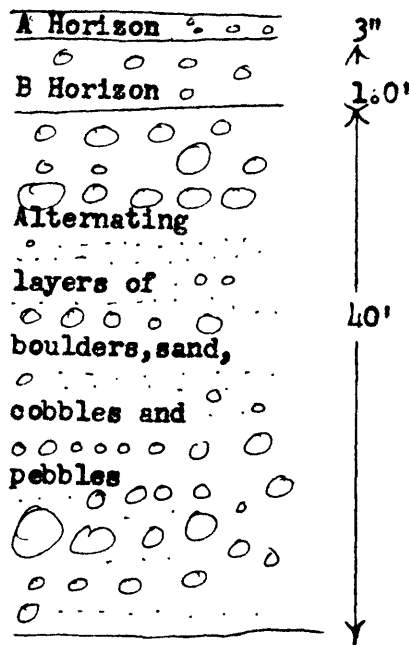
Soil development A 3" / B 12" Color 10 YR 8/3-7/3

Oxidation or staining. _____ Leaching _____

Secondary deposition _____ Reactive matter Some CaCO₃

Section:

Rock type	%
Quartzite	46
Sandstone	40
Schist	10
Gneiss	4



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

Cheshire
QUADRANGLE

Mass.
STATE

G.C. Kelley
GEOLOGIST

7-13-67
DATE

Mass.
Materials
PROJECT

field and macroscopic 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 CaCO₃

Section:

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

A horizon 3"
 B horizon 1'
 Alternating layers of sand and silt, pebbles and small cobbles
29'

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

QUADRANGLE
 Cheshire

STATE
 Mass.

GEOLOGIST
 G.C. Kelley

DATE
 7-13-67

PROJECT
 Mass.
 Materials

Field and megascopic observations:

Station number 20

Active

Location: County Berkshire Town Adams Pit x Inactive
Trailer park
 Road location off Route 8 Coordinates 42° 36.5' N
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 CaCO₃

Section:

Rock type	

Slumped

General Description: Small pit containing mainly washed sand.

Cheshire
QUADRANGLE

Mass.
STATE

G.C. Kelley
GEOLOGIST

7-13-67
DATE

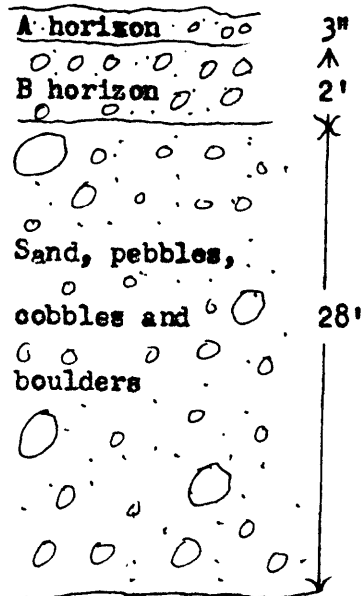
Mass.
PROJECT
Materials

Field and macroscopic 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 CaCO₃

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

Mass.

G.C. Kelley

7-11-67

Mass.
Materials

Field and macroscopic observations:

Station number 22

Location: County Berkshire Town New Ashford Pit x Active
Inactive

42°36.5'N

Read location Mallory Road Coordinates 73°14.5'W

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

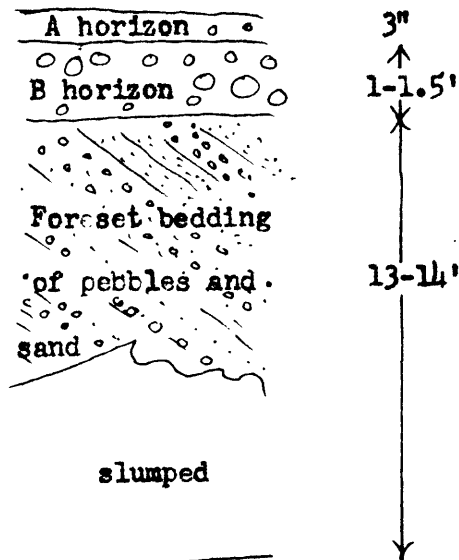
Soil development A 3" / B 12" (Stripped) Color 10 YR 6/3 dry

Oxidation or staining Some Fe Leaching --

Secondary deposition Some Fe Reactive matter Minor CaCO₃

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.

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