

KENT

(I)

See also LONDON

G & L (1858) Amber, occasionally on the coast.
Hepatic pyrite, in reniform concretions
 in chalk & marls.

A Hall & W J Kennedy, Proc Roy Soc (1967) B168 377. Apatite
aragonite, calcite, gypsum, pyrite, quartz,
 in fossils. Locs given.

PA Sabine et al Clay Min Bull (1963) 5 248. Illite,
Kaolinite, montmorillonite.

Bannister MM (1932) 33 179 FeS₂ nodules from the
 Lower Chalk are pyrite but some spear-
 head twins marcasite from Folkestone [qv]

Dines et al Geol of County round Chatham MGS (1954);
 Worssam et al — " — Maidstone — (1963); } PTO
 Smart et al — " — Canterbury & Folkestone (1966); }

These describe glauconitic beds; ironstone deposits with siderite, limonite, chamosite etc. Phosphatic nodules.

Kent coalfield: Smart (v. supra); Burr, Sci Progr (1909), 3, 379; Ritchie, "The Kent Coalfield..." (1920).

Collieries: Chislehurst C (TR 2061); Tilmanstone C (TR 2850); Snowdown C (TR 2451) (The largest); Betteshanger C (TR 3353); Dover or Shakespeare C. (TR 295 393)

GR (1998) Kent Geologists' Group Newsletter No 3. (October). "Minerals from Kent" pp 20-22

[Specif locs on cards] + goethite, haematite, quartz Incl. chalcedony, flint; aragonite (in fossils); siderite (narrow); glauconite, montmorillonite, apatites, vivianite, jarosite in soils on Lend clay

KENT (II)

GR(1998), cont'd. Pyrite in chalk pit
in MEDWAY VALLEY: WYE-BRABOURNE &
FOLLESTONE areas 'e N KENT shore (where
called for "copperas manuf" - Preston (1977).

ALLOPHANE

KENT

[New Charlton, Woolwich (London)]

Abbey Wood

Burham

Hayes Common, Bromley

Amber

Kent

Kent (eg Thanet)

Thanet

Apatites (See also Phosphates) Kent

Kent

Folkestone (carbonate-fluorapatite)

Aragonite

Kent

Kent

BARYTE

KENT

Sheppey, Isle of
Bishopstone, Herne Bay.

Bituminous minerals

Kent

Kent Lumber, coal)
Rochester (lignite).

Calcite

Kent

Sheppey Island

Kent

Barnfield

Maidstone

Thanet

Chalcedonic silica

Kent

Kent (flint, chalcedony)
Sheppey

Chamosite

Kent

Kent

Chlorite

Kent

Snodland

Clinoptilolite

Kent

Upnor

Pegwell Bay

FLINT *etc.*

KENT

Dover

Folkestone

Canterbury

FULLER'S EARTH (cf Montmoulloult) KENT

Boxley
Debtling

Maidstone
Folkestone

glauconite

Kent

Snodland

Kent

Snodland

Goethite (~~see~~ also "limonite")

Kent

Wye.

Kent (incl "limonite")

Folkestone (incl. pseudom's)

Ashford ("limonite")

Lenham

Charing

Brabourne

GYPSUM

KENT

Folkestone

Herne Bay

"Neckhalt"

Upnor

Sheppey, Isle of

Kent

Ashford

Canterbury

Borough Green

Bishopstone

Haematite

Kent

Folkestone

Kent

Halotrichite

Kent

Tilmanstone Colliery

Heulandite
see Clinoptilolite

Kent

Elite

Kent

Kent

Jarosite

Kent

Folkestone

Kent

Kaolinite

Kent

Kent
Shore Hill

Lepidocroce

Kent

Wye

Lenham

Charing

Folkestone

Brabourne.

" LIMONITE " (see also Goethite) KENT

Ashford

Kent

Manganese minerals (unspecified)

Kent

Folkestone

MARCASITE

KENT

Dover

Folkestone

Sheppey, Isle of (? = pyrite)

Matting Hill

Kent

Abbot's Cliff

Montmorillonite (of Fullers Earth)
- Calcium-Mont

Kent

Kent

Maidstone

Boxley

Detling

Natrojarosite

Kent

Sheppey Is.

Phosphate minerals (unspecified)

Kent

Snodland

Kent

Folkestone

PYRITE

Dover
Sheppey, Isle of

Kent
Snodland

Halling.

Wooldham

Burham.

Folkestone

Rochester

Barnfield

Wye

Brabourne

Canterbury

KENT

Abbot's Cliff

Quartz

Kent

Canterbury

Dover

Kent

Bearded (glass sand)

Hollingbourne (glass sand)

Dilton Court Q

Charing

Sheppey Is. (Jasper, Agate)

Maidstone (clear crystals)

Siderite

Kent

Kent

Vivianite

Kent

Kent

ABBEY WOOD, Kent. TQ 47 79
1" 171

BM: Allophane, massive yellowish.

GR(1998) Chandler(1909): allophane in
a denecole.

1" 173

Cent on TR 27 38

ABBOT'S CLIFF Hougham Without, Kent

See also DOVER; FOLKESTONE

GR(1998) ABBOT'S CLIFF, betw. Dover &

Folkestone is a favoured loc. for
collecting "spear-head" marcasite
x's in Lower Chalk. ~~f~~ Greg & L. (1858)

Smart et al MGS (1966) At 268 385 small
pyrite nodules & rods up to $\frac{1}{2}$ inch
across

AKER'S STEPS, Folkestone, Kent.

See FOLKESTONE

ASHFORD, Kent.

Rayners Cat (1960). Limonite "The Chalks, Ashford, Kent" (5-)

Smart et al "Geol of... Canterbury & Folkestone" MGS (1966)
Small gypsum nodules in marl, in
brickworks at TR 049 445

BARNFIELD, Charing, Kent

See also CHARING

Worssam et al "Geol of Maidstone..." M&S (1963)

Small calcite veins & geodes, & pyrite
nodules, in a limestone quarry at
Barnfield. (See GR (998))

BEARSTED, Maidstone, Kent

Worsam et al "Geol of Maidstone" MGS (1963)

Glass sand formerly worked by
underground galleries at several
places near Bearsted

BIRCHINGTON, Kent

See THANET, Isle of.

1" 173

TR 2068 2168

BISHOPSTONE, Herne Bay, Kent

GR(1998) Baryte nodules in the
Oldhaven Beds (Holmes, 1991). Gypsum
"sand roses" in same beds (BM spec's from
1852 & 1950; Holmes, 1981).

1" 171

TQ 6057

BOROUGH GREEN, Kent.

GR(1978) A gypsum crystal, simple,
well-formed, 15 cm long, from
TALBOT'S PIT (L. Marsden spec., 1958, in
Maidst. Mus.)

1" 172

TQ 773 590

BOXLEY, Maidstone, Kent.

TMH (1868), 63: Fullers earth.

GEL (1858). Fullers earth.

Worsam et al "Geol of Maidstone" MS (1963) describes
Fullers earth deposits (almost pure montmorill.)

1" 173

TR 10 41

BRA BOURNE, Kent.

Smart et al "Geol of ... Canterbury & Folkestone" Mem.

GS (1966) Immediately SW of, also immediately NE of crossroads at 105419 - firm grey chalk with pyrite nodules

GR (1998) ~~As above~~, also lepidocrocite, micaceous & fibrous, in goethite with "limonite" in sol'n cavs. in chalk.

BURHAM, Kent.

TQ 72 62

See also WOULDHAM

MGS "Chatham" (1954). In chalk q's;
pyrite.

GR (1998) Allophane (NHM spec. from 1881)

CANTERBURY, Kent. III 173

TR 1 5
TR 1 6

GeL (1858). "Capital specimens" of common quartz
in the "caller" flint nodules in chalk pits
near Canterbury.

Smart et al "Geol of... Canterbury & Folkestone" Mem G-S
(1966). Pysitised woody remains &
selenite [gypsum] in the clay overburden
of large sandpit at 161600

Keswick Mus. Gypsum, var. selenite,
large, fine xl:- SHELFORD Q.,

CANTERBURY. 1" 173 has "Shelford Fm"
at 161 607 - ~~cf~~ previous ref.; & pit at
161 600.

P. Kingsmill Min. Realm (1982) 1 [5] 24-6. Gypsum
var sebkink xls esp in clay slopes at
top; also sand roses in sandstone:-
SHELFORD Q'y, Canterbury. Map shows it is
the pit at 161 601

GR (1998) Gypsum "sand roses" in Oldhaven Beds at
SHELFORD (BM spec's 1852 & 1850; Holmes, 1901)

CHARING, Kent
See also BARNFIELD.

Worsam et al "Geol of Maidstone..." MGS(1963)
Fossils, with quartz xls. in cavities, at
SWAN LANE QUARRY, Little Chart, (TQ
939 458)

GR(1998) Lepidocrocite, micaceous and
fibrous, in goethite w. "limonite" in
sol'n cavs in chalk.

CHARLTON or NEW CHARLTON, Woolwich, Kent

See WOOLWICH (London)

CHERITON, Folkestone, Kent

See FOLKESTONE

COPT POINT, Folkestone, Kent

See FOLKESTONE

[The] CROWN PIT, Wye, Kent

See WYE

[GREAT] CULAND, Kent

See WOULDHAM

1" 172

TQ 793 582

DE(B)TLING, Maidstone, Kent.

TMH(1868), 63: Up. Gr-Sd. Fullers earth. "Debtling"

G & L (1858) Deptling: Fullers earth

OS map: "Detling" at 793 582

Morssam et al "Geol of Maidstone" MGS (1963) describes
Fullers earth deposits, (almost pure
montmorillonite)

DOVER, Kent.

See also ABBOT'S CLIFF

TMH(1868), 63: In chalk. Flint; marcasite; pyrite.

Rayners Cat. (1960): Marcasite

G & L (1858). Marcasite, in grey chalk marl
nr. Dover. Black globular quartz
in chalk near Dover.

BMS Ref Coll. (P. Hay) 2369. Marcasite - SAMPHIRE HOE

FOLKESTONE, Kent (I)

See also ABBOT'S CLIFF

TMH(1868), 63: In greensand & gault: Chert; flint;
marcasite; selenite.

Gr L(1858) Gypsum in gault nr. Folkestone.
Marcasite in grey chalk marl nr. F.

F Bannister MM(1932) 33, 179 Spearhead twins of
marcasite with warty excrescences of
pyrite occurred at Folkestone

Smart et al "Geol of ... Canterbury & Folkestone"
 Mem. G.S (1966). Phosphatic nodules

worked for fertilizer until 1876 at CHERITON.
The pits, at TR 206 372 are now built over.
A specimen of clay-with-flints from a
sewer trench at TR 246 384 contained
black to dark brown manganiferous grains.

A little E of MILL POINT (TR 221 353) at Sandgate,
pyrite nodules & a 2 inch lens of Fullers earth
in a landslipped cliff section.

At COPT POINT, narrow pyrite veinlets; altering
to haematite, with a colourless fibrous
mineral, probably gypsum.

At ABBOT'S CLIFF (TR 268 385) and AKER'S STEPS
(TR 297 394), small pyrite nodules & rods up
to $\frac{1}{2}$ inch across.

FOLKESTONE, Kent. (II)

Mr Rowley (Gemrocks Ltd) Riv. Comm. (1/71) The arrowhead
marcasite xls in chalk are to be
found on the E side of Folkestone,
eg at "The Warren". Go towards the
Martello Tower on the cliffs & go down
"private" (railway) path → Marcasite in chalk
debris at foot of cliff by large
concrete blocks, or further on, in a
wilderness, in rock falls eg under bushes

GR (1998) Marcasite Hg in Lower Chalk.

Pyrite nodules (Dines^{et al}, 1954; Smart ~~et al~~, 1966) [These are not marcasite, Bannister, 1932]

goethite ψ -after "pentagonal marcasite
forms" $\rightarrow$ 13 mm from ? Folkestone (J.L.
Brenchley spec. in Maidst. Mus.).

Lepidocrocite, micaceous & fibrous, in
goethite w. "limonite" in soln cav. in chalk

P-nods in the "Sulphur Band" (Lr. greensand) at
Folkestone have CO_3 -F-quartzite as major constit.
(Ruffell, 1990). Jarosite from ox. of pyrite in the
"Sulphur Band" (Ruffell, 1990).

HALLING, Kent.

TQ 66 ~~md~~
TQ 76

~~Revised~~

Mem. G.S. "Chatham" (1954), 31.

Extensive, mainly Lr. Chalk, old quarries in
Halling [7064] - Upper Halling [6964] area. Pyrite
nodules & fossil fish-teeth common

1" 171

TQ 4065

HAYES COMMON, Bromley, Kent

GR (1998) Allophane (Whittaker, 1889)

1" 173

TR

17

68

HERNE BAY, Kent.

See also BISHOPSTONE

BM: Gypsum, var selenite.

C Rogers "Gems" (1973) 5 [3] 13 East of
Herne Bay is well known expos of
London Clay with selenite xls, at
205 687. The Oldhaven sandstone,
just to the W, contains numerous
gypsum sand-roses

GR (1998) Gypsum, a thin, flat, cardboard-like
sheet 13 cm across, with ragged edges (BM spec,
G. Lucy, coll. 1979)

HOLBOROUGH QUARRY, Snodland, Kent

See SNODLAND

HOLLINGBOURNE, ^{1" 172} Kent TQ 82 54

Records London Spelaeo. grp. 1 (1956)

Hollingbourne Sand Caves (TQ 8354) listed.

Worssam et al "Geol of Maidstone" MGS (1963)

Glass sand formerly worked by underground galleries in Hollingbourne Caves, in the hillside S of an old sandpit at 823545

1" 172

TQ 89 52

LENHAM, Kent

GR (1998) Lepidocrocite, micaceous &
fibrous ~~with~~ in goethite with
"limonite" in sol'n cavs in chalk
quarries at LENHAM etc.

MAIDSTONE, Kent

See also BOXLEY; DETLING; HOLLINGBOURNE;
BEARSTED; DITTON COURT QUARRY

Worsam et al "Geol of Maidstone..." MGS (1963)

describes the Maidstone Fullers earth deposit, 8-9 mls E-W & 3 ml N-S, centred a little W of Maidstone. Worked in many places in 17th & 18th Cents. The Fullers earth is almost pure montmorillonite

[also Robertson, 1986 - (GR, 1998)]

GR(1998) Quartz, clear c'less xls $\rightarrow$ 1 cm
w. small calcite xls in cav's in grey
~~Contac.~~ L'st (Kentish Ragstone) near Maidstone
(J.I. Brencley spec's in Maidst. Mus - some
faceted, 4 mm in diam!). Calcite scaleno-
hedra to 8 mm in Kentish Rag (? ^{near} Maidstone)
"Fullers Earth", Calcium-mentmorillonite, in
Lr. greens. q'd near Maidstone.

MATTING HILL, Kent

[? Matt's Hill, nr Bredhurst^{Kent}; ?? Sussex]

Ge L (1858) Marcasite xls or nodules in
chalk & marl.

MILL POINT, ^{Sandgate} Folkestone, Kent

See FOLKESTONE

(?) TR 05 433

"NECKHALT," Kent.

Rayners Cat. (1960) Selenite, in Gault Clay

Aekhant? Bigatlas O s k,
Knockholt Stn 1" (171) TQ 4863 ?
Nackholt, Ashford TR 0543

NEW CHARLTON Woolwich, (Kent) London.

See under WOOLWICH, London.

TMH (1868), 63. In Chalk: Allophane

OTHAM HOLE, nr Maidstone, Kent ^{TQ} 785 541.

Records Lond. Spel. Grp 1 (1956). Listed.

TR 35 64

PEGWELL BAY

Kent

G Brown et al MM(1969) 480-8 clinochlore
-heulandite in Bullhead Bed Thanet
Beds at TR 351 642

ROCHESTER, Kent

1" 171, 172

TQ 76

See also UPNOR; SNODLAND

H. Dines et al

Mem Geol Surv. "Chatham" (1954). Large chalk-pits

SW of Rochester were for cement.

Nashenden pumping station [Nashenden

Form is at 732 659, SW of Chatham]:

coarse pebbly sand, with lydian stone
pebbles, ... black lignite, etc.

Pyrite nodules are generally common in
the great chalk quarries S & SW of
Rochester

SANDGATE, Folkestone, Kent

See FOLKESTONE

SHELFORD Q'y, Canterbury, Kent

See CANTERBURY

1" 172

TQ 96-97; TR 06-07

SHEPPEY ISLAND, Kent.

TMH (1868), 63. Lond. Cl. Baryte; "marcasite"; pyrite; selenite.

Walker (1761) Baryte on calcite

Gr L (1858) Baryte, radiated & crystallised in
septaria with calcite, on W. side of
Isle of Sheppey. Gypsum; "marcasite."

C. Rogers Priv Comm 1/12/72. The baryte occurs
in septaria in boulders at foot of cliffs
at 020 725, at Warden Point ~~at~~ with
gypsum (var. selenite) xls; pyrite, "marcasite",
jasper, agate etc.

RJ King in Monk (1982) Ref to in GR (1998) Natroparosite at WARDEN
POINT on London Clay exposed to sea-spray
C. Rogers Gemus (1973) 5 [3] 13. Descrip of
Warden Point locality. The selenite xls
are from cliff exposures of London Clay.

MA 82M/3732 PK Monk J. Russell Soc 1 (1982) 5-7
Sept. nodules 10-100cm in London Clay
have baryte, calcite minor pyrite
e "selenite"

RSN (1998), 33, 17. Beach at TQ 996 730 near
Hensbrook: Septaria with baryte on
yellow calcite; iridescent pyritised fossil
wood (unstable).

GR (1998) The "marcasite" is pyrite prob. nodular pyrite
pyrite xls on calcite in septaria at Warden Point (Monk, 1982)

SHORE HILL, Otford ^{TQ 55 59} Kent

~~Not in OS gaz.~~

BM(NH): Earthy massive Kaolinite

"Shorehill" TG 5559

MM (1946) 27 342 Shore Hill, Otford, Kent
Kaolinite

PADDLESWORTH, Snodland, Kent

See SNODLAND.

SNODLAND Kent

171, 172

TQ 69 6.2

See also ROCHESTER, etc

Mem. G.S. "Chatham" (1954). H.G. Dines et al

Parson's Corner, Birling [68206 610.1]; ~~down~~ base
of gault exposed in lane cutting; glauconitic
sandy clay with many phosphatic nodules
Similarly in lane cutting 350 yds W of

AUSTEN'S Farm [692612] 2 further E, eg in road
bank 50 yds SW of CHRIST CHURCH, at S end
of Snodland.

Clay pit [v 699 620] 550 yds ESE of PADDLESWORTH
have highly glauconitic ~~can~~ marl with well
developed black phosphatic nodules. (Lower
Chalk above Gault).

P.T.O.

HOLBOROUGH QUARRY, Snodland. [69 62]: Upper
100 ft: blocky chalk, nodules of pyrite common;
glauconitic & chloritic marl with
abundant white, brown, green, or black
phosphatic nodules. lower Chalk.

1" 172

TQ

939458

SWAN LANE QUARRY, Little Chart, Kent

See CHARING

TALBOT'S PIT, Borough Green, Kent

See BOROUGH GREEN

1" 173

TR 26, 36, 37, 46

THANET, Isle of; Kent

= The NE part of Kent

GR (1998): A report on amber collecting on
the THANET beaches, by T. Willard in
Jems (1979) 11 [2] 44-45. Calcite,
brown 4mm flat rhombs like scale-
insects, on chalk, Birchington (NHM spec)
[TR 30'69]

1" 173

TR 28 50

TILMANSTONE COLL'y, Eythorne(?) Deal, Kent.

Prob. the "mine" on OS 1" 173 at TR 2850

GR(1998) Halotrichite, delicate silky
white fibrous to 5cm in old workings.
(BM spec, from 1948)

1" 171, 172 TQ

74 70

UP NOR Rochester, Kent.

See also ROCHESTER, etc.

TMM (1868), 63: Lond. Cl. Gypsum.

G Brown et al MM (1969) 37 480-488
Clinophilolite-heulandite in basal
Thanet Beds at TQ 753 700

GR (1998) Gypsum "sand-roses" (T. Charles spec.
in Maidt E. Mus.)

WARDEN POINT, Sheppey, Kent

See SHEPPEY

WOOLWICH, Kent.

See under LONDON

WOULDHAM, Kent

TQ 71 64

See also BURHAM

Mem G.S. "Chatham" (1954).

Wouldham - Burham area: huge chalk quarries.

Quarry E of WOULDHAM HALL has a good section: massive white blocky chalk with pyrite nodules, passing downwards into grey marly chalk with pyrites.

Old quarries $\frac{1}{3}$ ml NE of GREAT CULAND:
chalk with pyrite nodules

WYE, Kent

BM (NH) Lepidocrocite, red-brown fibrous
veinlet in goethite — THE CROWN PIT,
Wye, Kent. [Presumably the large chalk
quarry at 071 466 below & 60 yds W
of the crown, mentioned in the next
reference, (see also GR(1998))

Smart et al "Geol of Canterbury & Folkestone"

Mem GS (1966).

Pyrite nodules in the
extensive old chalk pit at 083 443
[Also v. supra] Ref. to in GR(1998)