www.guildford.gov.uk/parksplaygroundsandgreenspaces

at the mills. Take a look at the notice board or for the latest dates and tasks, visit:

Guildford Borough Council Countryside Team lead volunteer work parties

GET INVOLVED

Web www.tillingbournetales.co.uk facebook.com/tillingbournetales Shere Museum Gomshall Lane, Shere, GU5 9HE



At first glance these two

he wet woodland is fantastic for small beasties that need to spend at least part of their lives in water. The most obvious are the stunning dragonflies and damselflies.

HIDDEN IN THE UNDERGROWTH



əniləmiT

at Lower Works. 1626 East India Company establish gunpowder mills

development started east of Blacksmith Lane. 1636 New owners supply government; Middle Works

1642-52 Mills supply Parliament in Civil War.

1652-54 First Dutch war; Middle Works built on New Cut.

Works; Middle Works development continues. 1700s Upper Works ceased; Paper mills at Lower

1809 Paper mills at Upper Works.

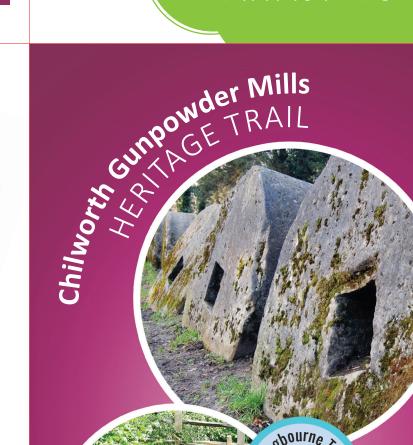
1865 Steam power introduced to Middle Works.

1870s All paper mills closed.

How gunpowder was made







gunpowder works in Europe. to əqyt zidt to zəlqmsxə tzənit more than 100 buildings is one of the To xelqmos nebbid sidt 'fnemunoM tneionA belubedo2 s betsngize0

our industrial heritage. an entirely manmade landscape and an important part of appear as a piece of unspoilt woodland. However, it is t a glance this section of the Tillingbourne valley may

century and from the 1880's to the end of World War I. mills were most extensive and productive in the 17th over almost 300 years of gunpowder manufacture. The waterways to the raised central track has been created Everything that you see onsite from the intricate maze of

operation. ufactured in the last decades of its explosives, such as cordite, manthroughout its history with modern Traditional black gunpowder was made

nearby tree for collection their smoking pipes in a a spark. They would hang esues vlletnebicce thgim be checked for items that Each morning they would to work from nearby villages. female workers. Most walked 0 1909 there were 300 male and 6

would include brimless hats which Their working clothes

. γεb eht to bne eht te

Yould avoid accidents at home when they sat by the fire! were designed to keep gunpowder out of their hair. This

.(tood lisndod). men killed (believed to be caused by a slip on a

beunitnoJ enilemiT

(билталимаяв)

3. CORNING

Corning House

Works. 1915 Admiralty cordite factory built at the Upper

1901 Explosion at black powder corning house; six

a German company, makes new brown powder and

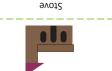
1885 Chilworth Gunpowder Company, subsidiary of

1882 Smokeless (nitrate) explosives factory built.

1920 All gunpowder works closed.

starts expanding east on the site.

known locally as 'tin town'. 1922—1963 Various buildings used as residences;



4. DRYING

ΤΑΑΝSPORTING S. PACKING & Barrels

went to Portsmouth. emos semit the brie to semiser and at times some ot nwob bne snoitegiven yeW edt ot nogew Once in barrels, the gunpowder was mostly sent by

pressed into hexagonal prisms for large guns. blasting in mines. The prismatic powder was It was used for military and sporting powder, and

Why not make Chilworth a picnic stop on a longer walk? The site is connected to the Downs Link long distance walking route to the east, or head towards Guildford town via the Chantries to the West. The area is covered by OS Explorer Map 145.

For more information please visit the Tillingbourne Tales website and facebook page to see how you can contribute to preserving the heritage of the Tillingbourne Valley, or visit Shere Museum to see the new Tillingbourne gallery.

Due to the nature of the site, uneven surfaces and drops are unavoidable. Remember to keep yourself safe; take note of any warning signs, please do not climb on the remains and do wear sturdy footwear!

Find out more...

A Guide to the Chilworth Gunpowder Mills. **Damnable Inventions.** G & A Crocker, 2000

groups can appear similar, but take a closer look. Dragonflies are stocky with their wings held open at rest. Damselflies are much more delicate with their wings held closed. Dragonflies have eyes that touch or almost touch at the top of their head whereas damselflies have two clearly separate eyes.



The more secluded parts of the woodland are home to protected species such as dormice and bats.

On a warm summers evening remember to look up and see Pipistrelle, Natterers or Brown Long-Eared bats feeding on midges up above your head.



Explore more than 2km of paths around the site. Access for all abilities but paths can get a little muddy when wet.





1st Edition 2016

Chilworth Gunpowder Mills section in a much larger area of industry The trail visits the Middle Works, a central HERITAGE TRAIL

CRH Corning House

Pressed powder was

into grain sizes. A broken up and sortec

along the Tillingbourne.

area of the gunpowder mills. The Upper are not accessible to the public. and Lower works are on private land and the west, on the other side of Blacksmith Works (17th century and 1890s-1920). To the 1650s until 1920. To the east, past the The Middle Works were operational from Lockner Farm track, you will find the Upper 1626, and later they become the service Lane, are the Lower Works. These date from

killing 6 men.

an explosion in 1901

nailed boot caused

to make charge for

& North Downs Way To Chantry Woods

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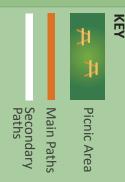
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Edge Runner Mill Stones Each weighs around 3 tons an incorporating mill collapsed A pair of edge-runners lie where

> MH Mixing House Saltpetre, charcoal ing mill.)

> > PB Pack Horse Bridge and Pill Box

ing with Halfpenny Lane. route to Guildford, connect-This would have been the

mounted at the Chantries anti-aircraft gun was defences. A pill box sits on evidence of the area's WWI and you will see more the hill and further afield an Travel away from the mills

To St. Martha's & Chilworth Manor

W Wharf Punts would have

wharf to load and Expense Magazine. unload materials. wharfs next to each There are also

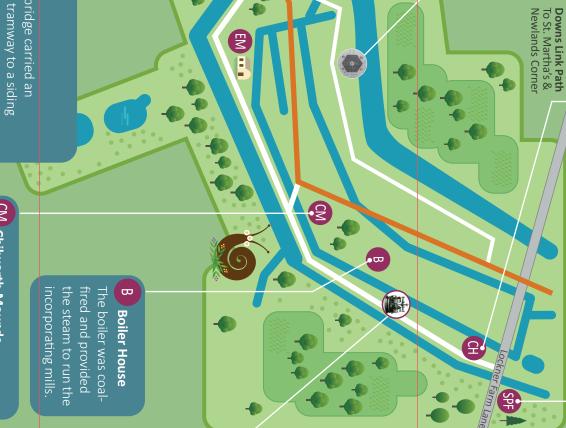
> 0 used in heavy guns. hexagonal prisms to be Powder was pressed into Prismatic Press House

Company Cricket Club logo the Chilworth Gunpowder The shape is illustrated by

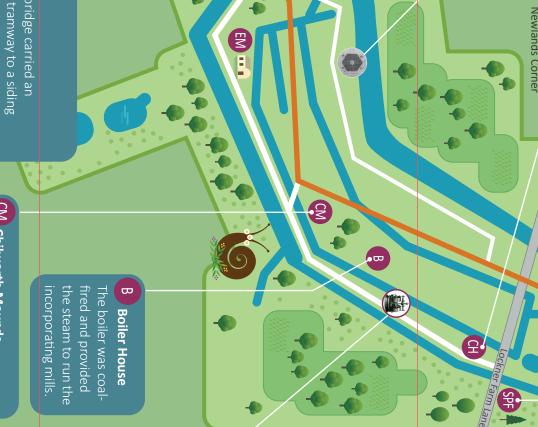
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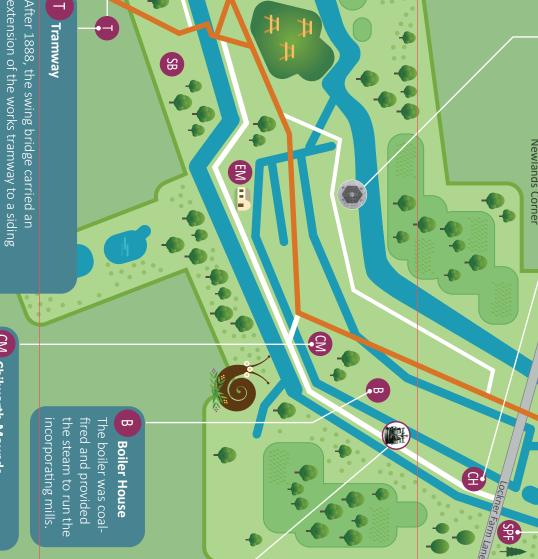












N

P

NEW CUT 1656*

B

8

TILLINGBOURNE

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•P

•8

SB Swing Bridges

side-ways to clear the stream. Cut. The track would have rotated

BA Bridge Abutment

to the North of the site. The probable pack horse route from Guildford via the pack horse bridge Blackheath. It connected the site to

2 bedstones, the remains of the boiler house chim ney and a steam engine bed remain. The chimney Worn millstones were stood on their side & covered had a 'spark scrubber' fitted to stop flyaway sparks

1880's Steam Incorporating bay had a pair of iron edge-runner millstones mounted above the remaining engine bases near to today's foot level where materials would have been taken in from the tramway. Each Underfloor gear room and blast proof walls remain. A raised wooden floor would have been Mills

gauge track in the UK. exact line today. Narrow gauge w at the railway station. Vera's Path extension of the works tramway network. It is the first known exa follow the route of the man oper to avoid sparks) carried coal. Tod ated tramway mple of metric lay's main paths ooden wagons follows its

energy of explosions. This method was adopted internationally

Earth filled corrugated iron drums were placed to form blast mounds

Tramway

VERA'S PATH

London from tank invasion.

SM Steam Incorporating Mills

in earth to provide protection from accidental blasts

Local Shops & Pub To Chilworth Station,

*NEW CUT 1656:

A water channel originally 5-8m wide to allow powder punts to travel its length

CH Charge House charge for the

> SPF Smokeless Powder Factory Entrance Start of Upper Works. Seen across the road, an old iron entrance gate is behind

Further up-stream there is the Admiralty road block remains. cordite factory. This is on private land

doused all bays in the event of an Lightweight roofing and front scre just below the roof line. The first building and machinery within. A RSJs (Rolled Steel Joists) in the UK were used in its eens were designed to direct any blast away from the explosion in any of the others. Look for the metal pulleys

construction. See the marking 'Bl

JRBACH 1884'