TALKING RUBBISH

With the development of construction and human life, the amount of rubbish is also gradually increasing. The random emissions of sewage and waste gas have caused great damage to the environment, and even threatened the survival of human beings, animals and plants. The generation of rubbish is unavoidable, but when we are faced with rubbish, we must act to deal with it properly. At the same time, we have to think how to reduce its generation.

We are now inviting you to participate in our discussions.

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1, The impact of rubbish on the environment

1.1 Water pollution

Solid rubbish in rivers is the main source of pollution of water environment.

Throwing rubbish into the river readily seems to be the most convenient way to get rid of the rubbish in your hands.

Italy 1920's BLP letter card

However, solid rubblish can not be degraded in the water, which not only pollutes the waters, but also causes river clogging.

"TEAWAMULU" in Maori means "Adverse to canoeing as upstream blocked by obstacles."

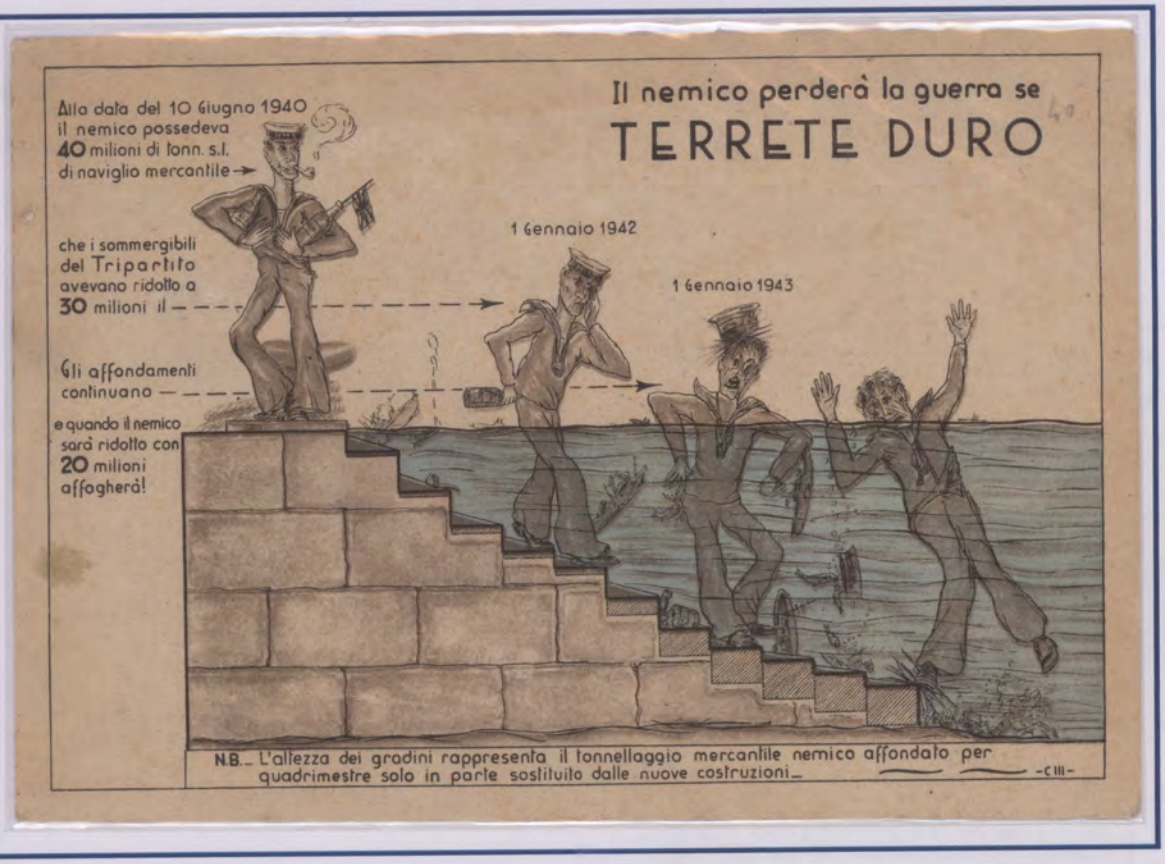
1.1 Water pollution

Among the water pollution caused by human activities, water pollution caused by industry is the most serious.

Contaminants contained in industrial wastewater vary widely due to different types of factories, and the quality and quantity of pollutants contained in the waste water produced by same kind of factories are not the same due to different production process.

1.1 Water pollution

Water can't flow smoothly which will result in water eutrophication and moss breeding. It is easy to cause drowning accidents.



Italy 1943 military postal card

The waste corrupts in the water, and the stench that comes up through the sewer row will affect human health.

Great Britain 1880's private order letter sheet.

1.1 Water pollution

Petroleum is a mixture of alkanes, olefins and aromatic hydrocarbons, and the danger of oil entering the water body is catastrophic.

When a seabird's feathers are covered with oil, the seabird won't be able to extend its wings, so it won't be able to forage and all it can do is waiting for death.

Turtles will be poisoned to death, and some species will even disappear in a short time.

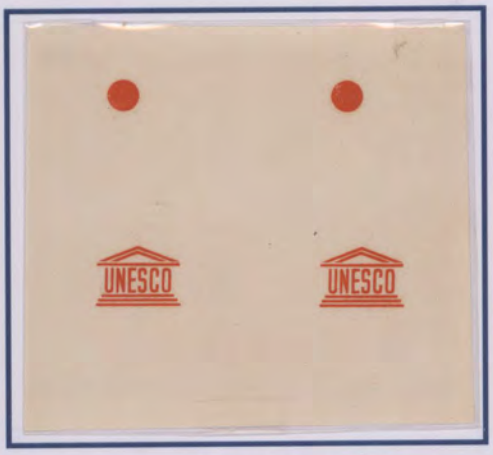
Tonga 1897 Stamp.
Water mark with turtle

Coral reefs are the habitat of many fish, and if they are contaminated with oil, the breeding activities of these animals will be greatly hindered and destroyed;

Israel 1962 issue , black color set – off on gum

1.1 Water pollution

Surface water is gradually polluted,



Guinea 1974 colour trial proof

When water really tastes bad people will have to purchase processed purified water at a high price.

The treatment of sanitary sewage can adopt the method of collecting insoluble suspended pollutant in wastewater through physical separation.

Advertising : Sewage treatment equipment

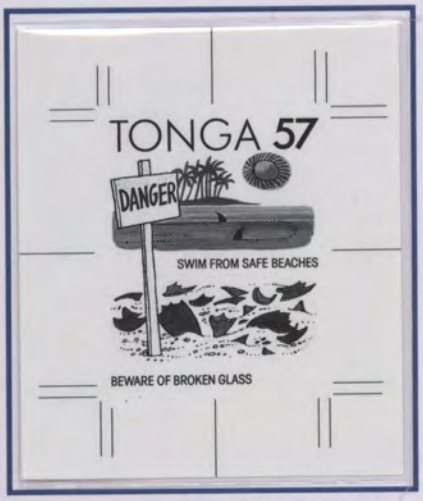
China 80 fen printed to privated order postal card,2010

1.2 Soil pollution

If the domestic rubbish is always discarded , it will slowly narrow the place of human life. Everyone is making rubbish, but no one wants to live with it.

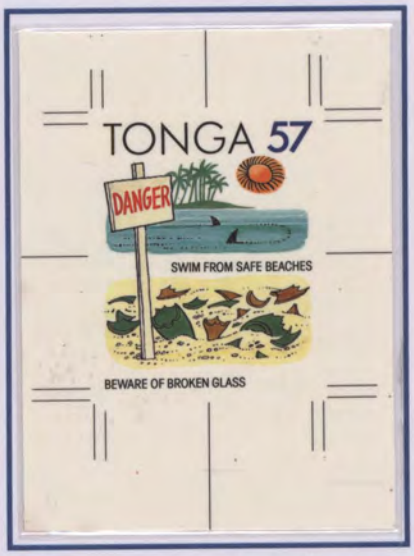
The sharp objects discarded can also cause harm to humans.

TONGA 1991, Original Artwork



Monochrome proof

Monochrome proofs were done by Walsall Security Printers of London UK on thin card in black and white – they were firstly used to check the design of the stamps – and were also used in the working out of the design between the artist and the printers .



Chromalin proof

Chromalin proof are on thick cardboard and in full colour, a proofing method used by Walsall Security Printers in which full color proofs are produced directly from the color separations prior to final production of the printing plates.

Checking proof

At the beginning of each printing run, the printers used the printing plates to print off one imperf plate proof sheet for checking purposes before the main printing run. Was checked by the printers for any mistakes and for clarity of colour.

1.2 Soil pollution

Industrial waste often contains toxic substances which is difficult to degrade.

Industrial waste is stacked at will. Chemical raw materials in the waste will penetrate into the land.

Soil has an enrichment effect on pollutants. Some toxic pollutants such as mercury and cadmium are enriched in the crops and fruits, and people or livestock will be poisoned after eating them.

Mongolia 1974. Adopted original drawing for issuing stamp, watercolor on heavy cardboard with acetate overlay for lettering. Value of issued stamp design were changed.

1.3 Air pollution

Toxic waste gas discharged by industry brings great damage to the earth's atmosphere.

With the advance of the industrial revolution, coal became the primary energy source in the early stage of industrialization. While bringing convenience to people's daily life, coal is bound to release a lot of smoke, sulfur dioxide, carbon dioxide, carbon monoxide and other harmful pollutants.

Gold Colour shift variety

SAAR 1921, proof

The pollutants discharged into the atmosphere by industry are various and complex in nature,

1.3 Air pollution

There are soot, sulfur oxides, nitrogen oxides, organic compounds, halides, carbon compounds.

Some of them are smoke, some gas.

1986, Egypt un-adopted original drawing , watercolour on cardboard。 （For World Environment Day）

1.3 Air pollution

In particular, the exhaust gas discharged by chemical plants, steel mills, pharmaceutical plants has a strong smell, and will pollute the environment seriously and affect human health.

Ordinary paper

Chalky paper

Russia charity letter-sheet,
approves for publication on 28th August 1899

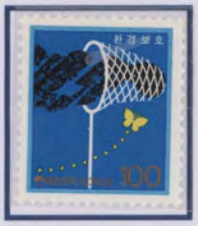
Some plants are even located in the upwind area and the exhaust gases are blown up to densely populated areas

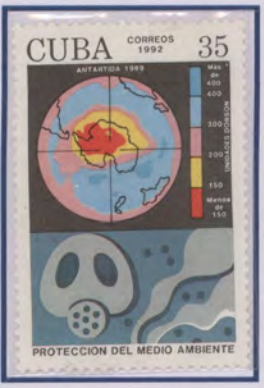
Germany 1897 postcard

1.3 Air pollution

Some enterprises need to purchase air purification equipment keep the air clean and sanitary, which will increase production costs.

Toxic and hazardous substances in the air pollutants will get into the human body through the respiratory tract and skin, which will cause various diseases.

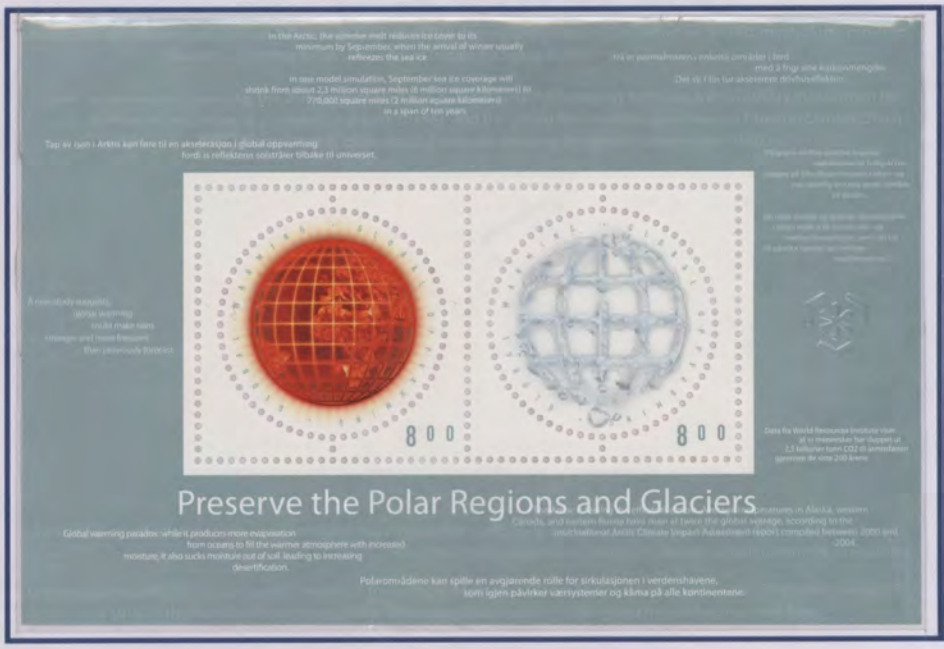




Austria 1921 private order letter card

Some substances in the atmosphere enter the stratosphere and react chemically with ozone there, which will cause ozone depletion and ozone depletion. About 50% of carbon dioxide which are discharged into the atmosphere will remain there. And it can absorb long-wave radiation from the ground, so that the air temperature of near-surface layer increases, which is called "greenhouse effect".

Colour shift variety



1.4 Hotbed of disease spreaders

If not timely cleared away, rubbish would develop bacteria and bring in mosquitoes, flies and rats which will spread around pathogenetic bacteria.

If the water inside a broken jar is not cleaned up timely, mosquitoes will lay eggs inside it.

Type 1

Indonesia 1978 booklet,

Type 2

And the larvae will be hatched in the jar

Mosquitoes does not only affect rest but also endanger human's health

Mosquito is the intermediate host of other pathogenes, including the dengue ferver, malaria, yellow fever, filariasis, Japanese encephalitis, etc.

Flies are the most efficient rubbish collection workers. As soon as they find food leftovers, dung and urine of human or livestock, phlegm, vomitus, as well as dead bodies, they may share them with companions, and camp there.

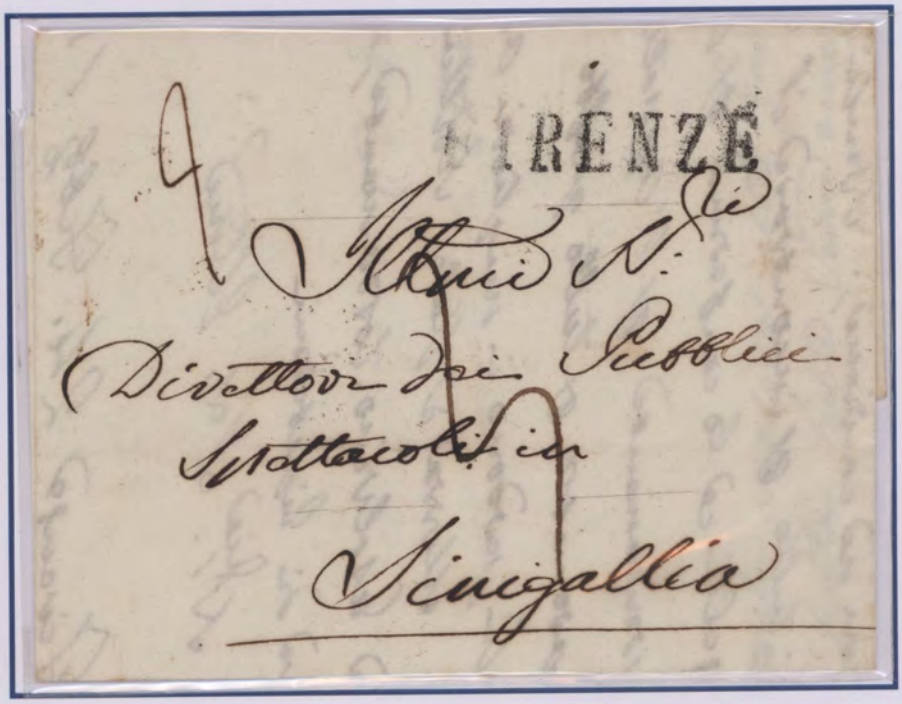
Fancy cancel of fly ,Ohio.

The feet of the fly can secrete grume, and it has a habit of rubbing feet and brushing body when landing on the target. Therefore, the pathogenes on its body will pollute the food and tableware rapidly.

1.4 Hotbed of disease spreaders

The fly is the major carrier of vibrio cholera, and it may get people infected with vibrio cholera through food transmission.

Cholera may have originated from the subcontinent of India, firstly spreading along the trade routes of Russia in 1817. It became one of the most widespread and fatal diseases in the 19th century. In places with cholera, people thought that the virus could be killed through disinfection.



Disinfected mail of Florence ,with Bologna Province "Disinfection" handstamp,1835

The second outburst of cholera was between 1829 and 1851. It spread to Europe, London, Ontario of Canada and New York in 1832, and then to the pacific coast of North America.

Disinfected mail from Greece Syros(14. MAY 1839) to Trieste (6. JUN 1839). Disinfected in Syros.
ΠΔ = PD = Paid to Destination Postmark

1.4 Hotbed of disease spreaders

FLY

Due to the fear of cholera, letters would be disinfected before sending out and on arrival, in order to avoid the situation of letters being attached with the virus during transportation.

Disinfected mail from Lugo to Ferrara.
The letter was disinfected in Conselice and also disinfected in Ferrara. 1855

People who got cholera at an early stage should be isolated, and even the disinfecting area should be set in the suburbs.

Disinfected mail from Palma (30. Mar . 1836) to Ferrara.
The letter was disinfected in Pontelagoscuro, suburbs of Ferrara

Rats do not only eat things, they are also storage host or media of a lot of diseases. There are 57 known rat-transmitted diseases.

Germany 1915 military postal card

"SOURIS" in France means "Rat".

But the treatment of rats' cadavers is also a headache.

In order to eliminate rats, humans invented rat poison.

France 1920's Booklet, with complete stamps.

Belgian free franking advertising official cover from check bureau used in 1936

2 Recyclable rubbish

2.1 Cycle sign and motivation of recycling

The cycle sign is a universal symbol

Recyable rubbish has a global symbol, namely a special triangle formed by three arrows. It has two aspects of meaning. Firstly it reminds people to send it for recycling after using the products with such a symbol, and do not throw it away as rubbish,...

And secondly, it implies that the packages of the products are made of renewable materials.

Such a cyclic ideological concept can be dated back to thousands of years ago in China. The yin and yang in Tai Ji suggested that all the things on earth cycle over and over again with endless changes.

Normal Watermark

Inversed Watermark

Reversed Watermark

Inverted & Reverser Watermark

The watermark of this 1885 issue of stamps was the yin-yang symbol which according to the Book of Changes should be portrayed as shown on the right. Due to in comprebension, the English manufacturer of watermarked paper had the symbol rotated 90° and was changed from a circle to an oval to facilitae the rectangular shape of the stamp. Different of placement of paper on the printing machine led to the 4 varieties in watermark.

2.1 Cycle sign and motivation of recycling

The biggest motivation is that recyclable rubbish can be sold.

Metal, glass, paper and fabric all belong to recyclable items

"Collect old iron"

"Collect all kinds of rags"

"Collect discarded paper"

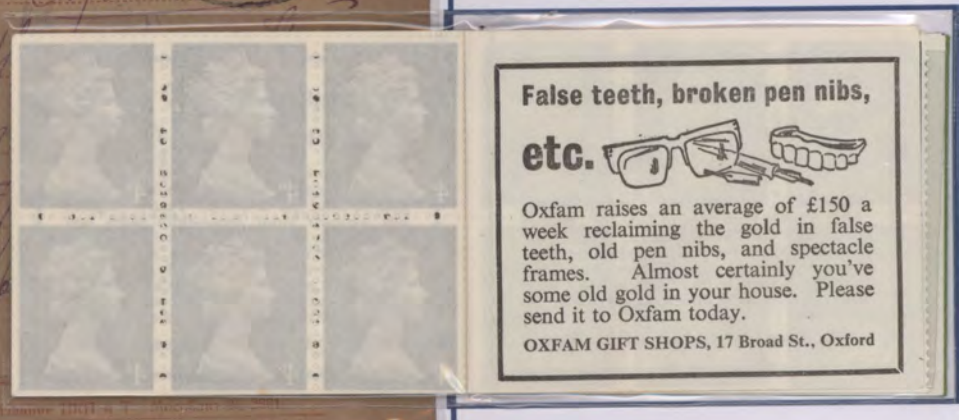
These items can be sold to the rubbish collectors who wander about the streets

Or exchange rubbish for cash directly at the E.E. Meyer Processing Company

Germany 1907 letter sheet
Series: 3

Or donate the rubbish to the country for free so as to contribute to national construction

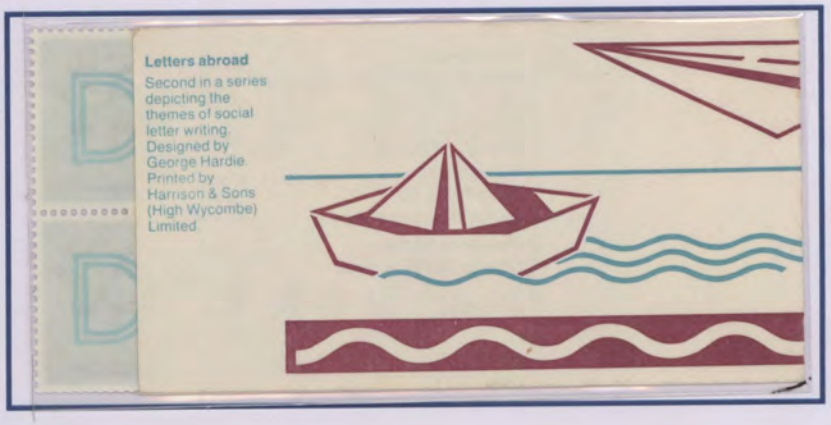
Or donate the rubbish to charity, so that other people in need can get it



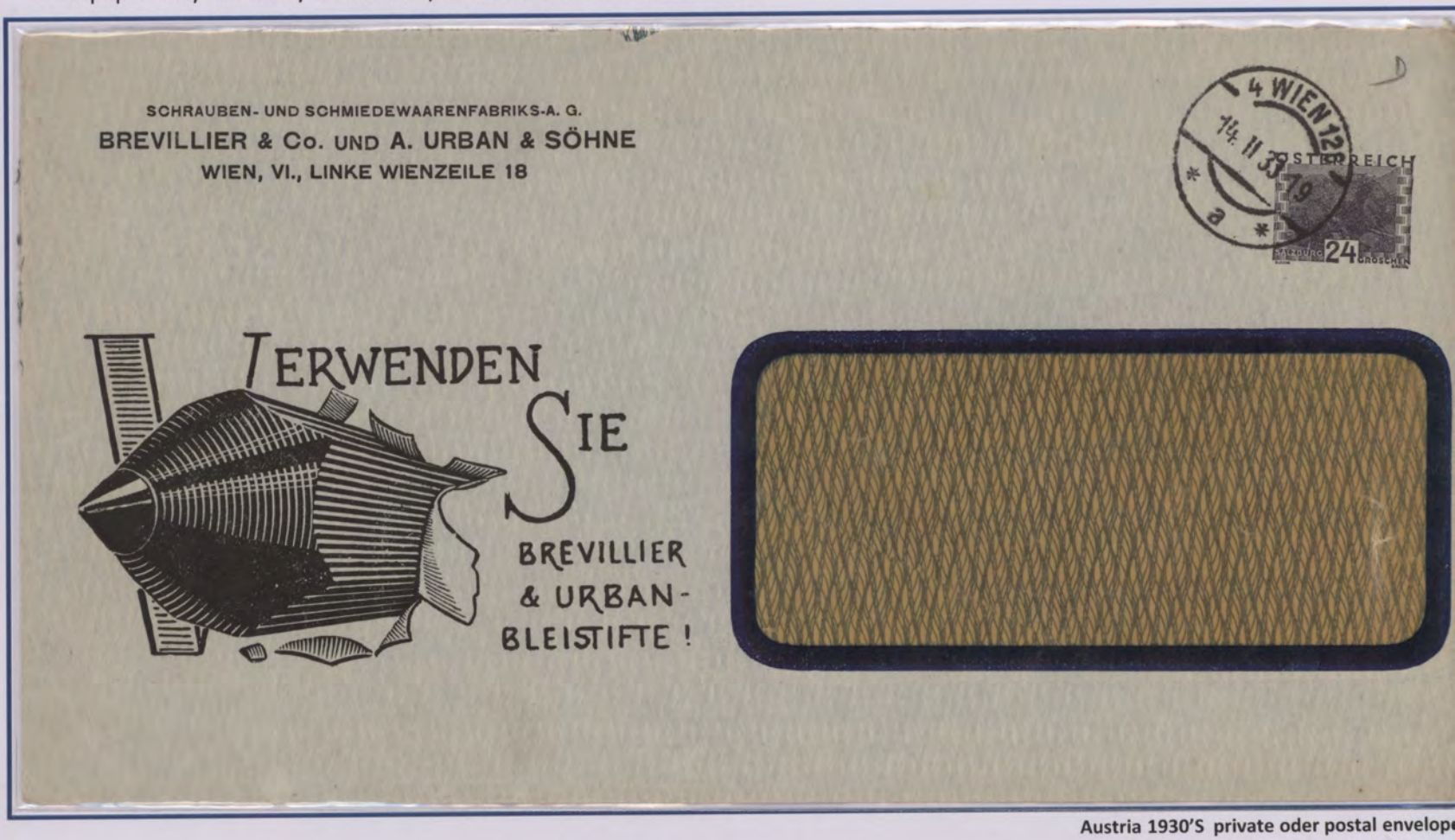
2.2 Paper recycling

Saving paper can save resources and reduce expenses for both units and individuals, which is conducive to the control and management of the pollution which is caused by papermaking enterprises!

Paper cutting and folding are very convenient, so sometimes the paper will be used to make toys.



The paper may be easily broken if you write with too much force.



Austria 1930'S private oder postal envelope

2.2 Paper recycling

The paper may be easily broken if you write with too much force.

Paper can be recycled, but please do not mix it with other trash, which will lose the significance of recycling

USSR 1930 postal card

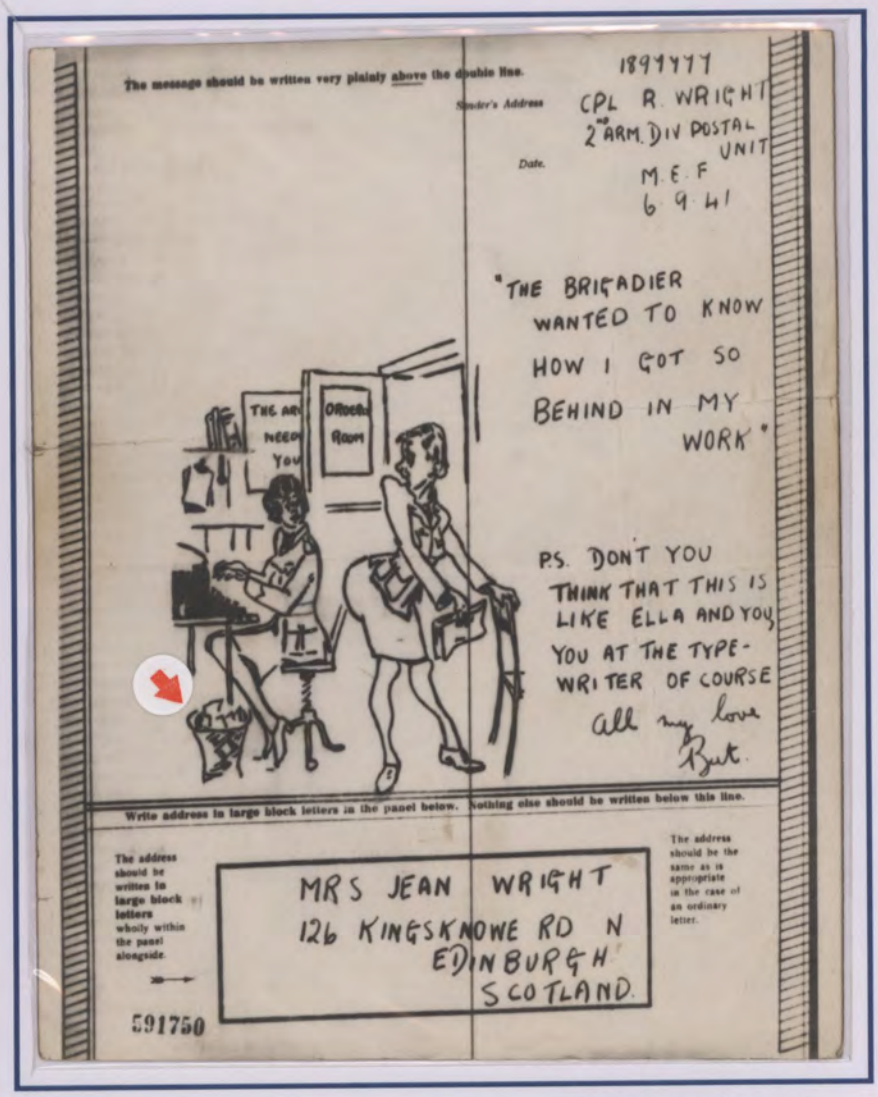
Separate the paper to be recycled from other items

And placed it in the corresponding collection box.

2.2 Paper recycling

In the office, wastebasket is a good thing; it provides the waste paper with a temporary home, and also makes the environment clean and tidy.

Germany 1920'S postcard



UK 1941 airgraph, type: 1

Once the wastebasket in the office is full, the waste paper should also be loaded into the trash collection bin.

2.2 Paper recycling

In the war years, paper is a very valuable resource, local governments had been calling on people to save paper.

In the era of material shortage, the back of the paper was often brought to re-use.

China 1945 stamp printed on both sides

China 1947 stamp printed on backside of coloured wastepaper

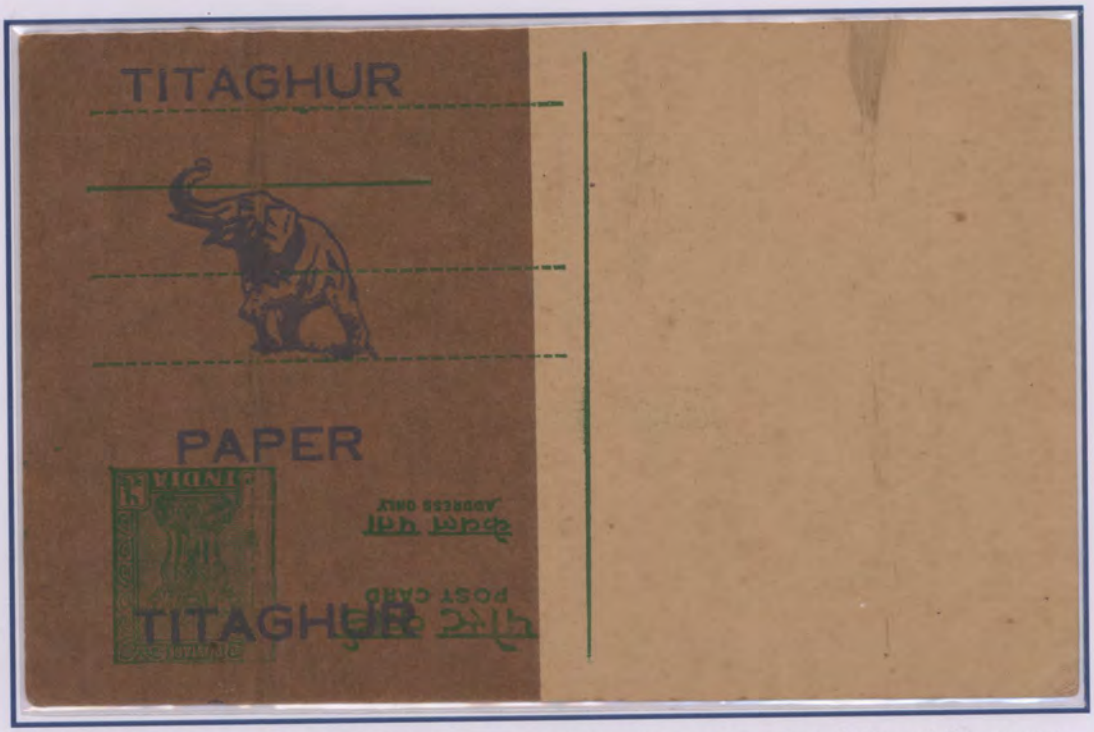
Vietnam 1982 proof printed on backside of coloured wastepaper.

Ukraine, 1920'S proof printed on backside of wastepaper.

Latvia 1918 stamp printed on old map

2.2 Paper recycling

The recycled paper will go through the following procedures, including pulp dispersing, deinking, paper-making, drying, etc. to recover a new life.



India 1959 postal card, adhered by paper tape of the Titaghar paper plant during printing process.

During the manufacturing process, for economic reasons and need to satisfy custome specifications for roll length , ends of paper may at times be joined for a continuous large roll of paper.

USSR 1932 postal card. Printed on paper at joint of roll ends.

Overprinted "G" for official use

2.2 Paper recycling

One ton of paper can produce 0.8 ton of new paper after recycling, i.e.a recovery rate of 80%.

The recycled paper is produced without adding any chemicals. As a result, the color of the recycled paper is yellowish.

France 2005 stamp printed on recycled paper

USSR 1932 postal envelope

It can also be made into paperboard. Often than the color, it is just as good as new paper.

China 80 fen new year greeting lottery postal card, with printed annotation "made from recycled paper", 2001

2.3 Metal recycling

In society, scrap metal seem to exist everywhere that one cares to look at, the notice of which is often determined by size,...

... which may be as small as a bottle cap or ring-pull can,...

... or even discarded food tins...

... and can be as big as broken chains,...

... or even huge as a scrap automobile.

Haply , almost all scrap metal can be recovered which can be very handy during times of material shortage,...

Some scrap metal can even be remade into toys for children.

... like in a war.

2.3 Metal recycling

When the waste steel is sent to the steel plant, the first step is to clean it with a variety of chemical solvents or hot surface active agent so as to remove the oil, rust and sediment on the surface of the steel.

The second step is to preheat. Bake iron and steel directly with flame to remove moisture and grease, then put the iron and steel into the steel furnace.

There is no difference between the iron products manufactured by putting the scrap iron back to the furnace and iron products refined through the original iron ore.

USSR 1932 postal envelope

2.4 Plasthetics recycling

Plastic recycling can not only save production costs, but also save oil resources..

Plastic is a type of petrochemical product, which does not exist in the natural world.

Although the film negative is plastic material, it will paint silver halides on the film base of poly acetic ester during the manufacture process. The silver can be extracted through chemical or physical method. Therefore, it should be separated after recycling.

USA WWII V-mail negative

Italy 1920's BLP letter card

2.4 Plasthetics recycling

Waste plastic containers are of various material qualities. In order to make it convenient for recycling, it can be compressed and packaged by the recycle bin. Before sending to the plastic treatment plant.

Belgian free franking advertising official cover from check bureau.

Most thermoplastic waste are of single organic polymers which after hot melt can be regenerated into various plastic materials.

France 1968 specimen meter

The regenerated material can be made into various daily articles after processing.

2.5 Glass recycling

The benefits to the environment and resources through recycling a ton of waste glass are: 720 kilograms quartz sand, 250 kilograms soda ash, 60 kilograms feldspar powder, 10 tons coal and 400 kilowatt-hours of electricity can be saved.

Glass is heavy and is difficult to decay. Therefore, no matter whether it is buried, composted or burned, it cannot be disposed effectively.

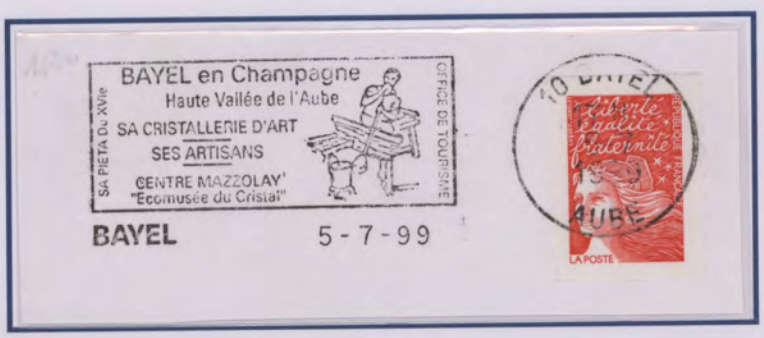
USSR 1933 postal card

Glass rubbish mainly comes from the container glass,...

Glass bottles can be directly filled and utilized after cleaning and high temperature disinfection.

Some glasses that cannot be utilized directly can only to sent to the glass plant for smash disposal.

Clean broken glass can be blended into new material and fired to become a new glass bottle in the kiln.

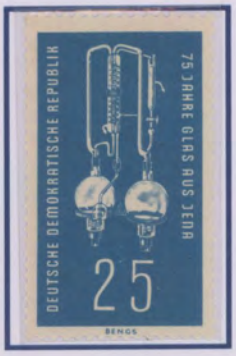


Horizontal perforation misplaced

2.5 Glass recycling

Glass can be made into various practical bottles after re-processing.

Portugal $30 postal card,1947



After waste glass is crushed into pieces, it can be ground and added into tiles or bricks to make light weight construction materials, and it can be also made into marble and landscape stones.

Poland 30 gr postal card,1951

2.6 Old clothing re-use

It is really a pity and waste that new clothes after being worn a few times are discarded,...

USSR 1932 postal envelope

... when they could hace been resewn into 'new' clother.

Italy 1924 Adverting Stamp

Even if it is worn out, the roadside tailor or shop can help you repair it as long as you require it.

Germany 1907 private order Letter Sheet

2.6 Old clothing re-use

If they do not fit any more, they can also be donated through welfare institutions to others who need them.

Old coat can still be used to keep your belly warm so as to prevent diarrhea in winter.

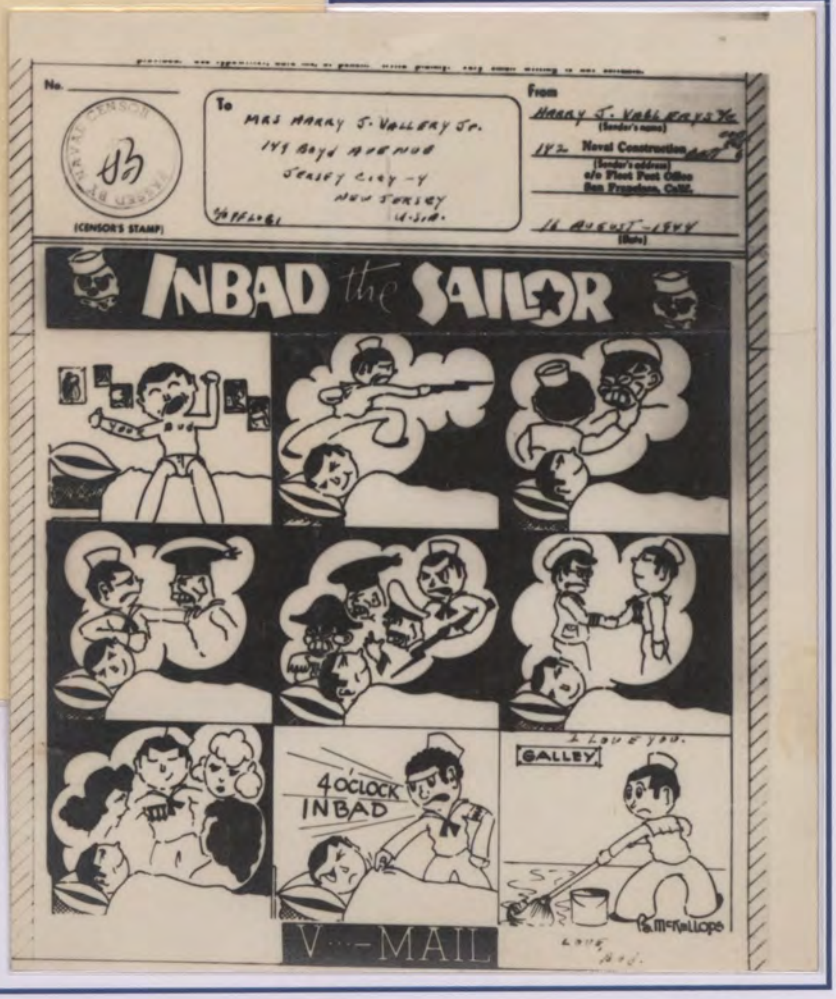
China 1953 military letter sheet

2.6 Old clothing re-use

Shredded cloth can also be used as a filler in the making of sofa, ...

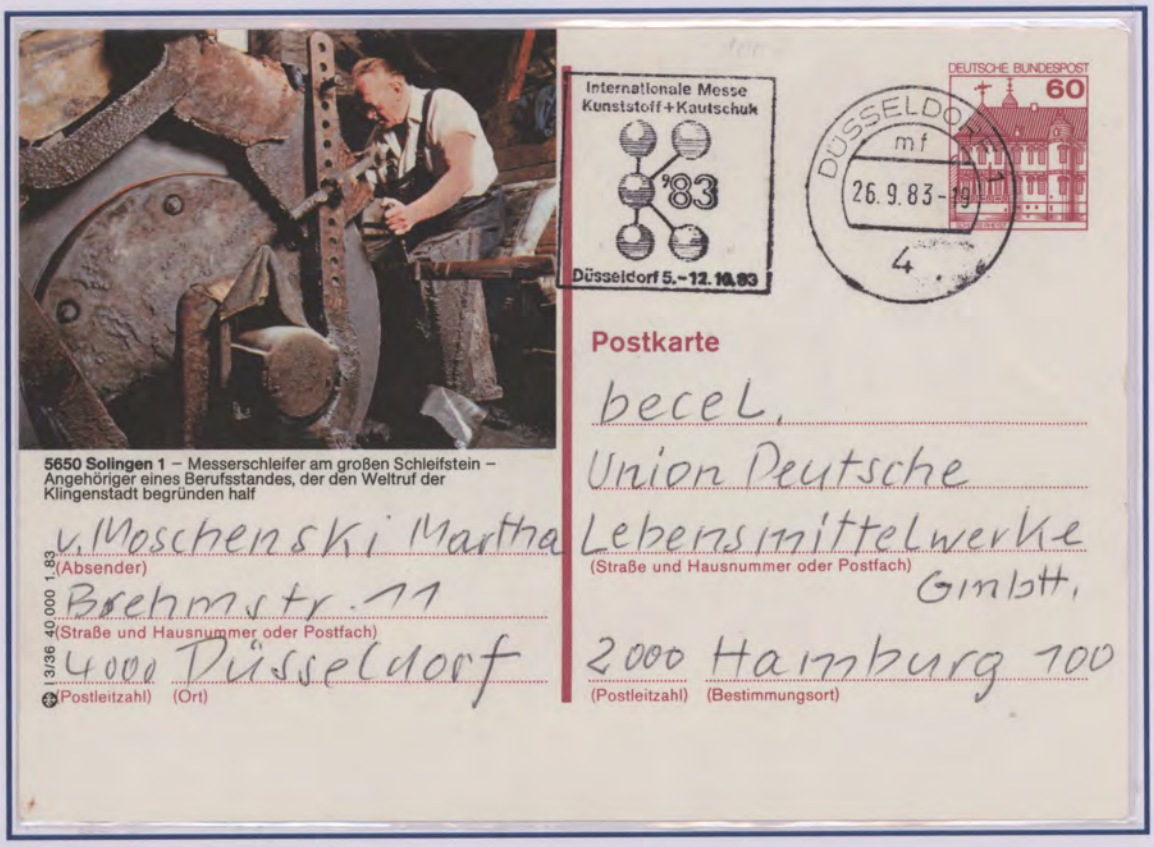
... and old clothes can be cut into strips and to be made into mops.

Advertisement is printed before stamp design in the Belgian advertising postal cards.



USA V-mail

Other uses for old clothes include cutting into circular blocks as buffing wheels, ...



... or simply as cleaning rags in the house.

Industrially, they may wcen be changed into role of a thermal insulator.

Specimen

3. Kitchen Rubbish

3.1 Classification and characteristics

The most distinctive feature of kitchen waste is that it contains high content of water and stinks fast.

Fish meat, fish scale, shrimp shell and crab shell contain high protein. Therefore, the bacteria will breed fast when the temperature is relatively high.

Colour shift variety

Specimen

Sweden booklet

In the pulling of feather from fowl with hot water, the great compilation of water in the feather may stink easily.

Egg drippings on the floor may stink easily due to the high moisture and protein.

Portugal 1955 50c postal card,

3.1 Classification and characteristics

There are chemically complex materials in soup. Therefore, it is easy to stink after being dumped or discarded and attracts mosquitos too.

Germany 1943 military postal card.

Uprated by military airmail stamp for air delivery as post-free pricilege was only extended to delivery by surface means.

The cocoa powder scatteried on the ground may attract ants immediately.

Stuttgart 1895 private order postal card

The lampblack will make it difficult to clean the wall in the kitchen.

Netherlands 1925 postal card

3.1 Classification and characteristics

Decaying banana skin contains peroxidases which makes banana skin turn black and smelly, ...

Belgium 1930's booklet

Surcharge overprint

... and the indiscriminate discard of a banana skin may itself be cause of many a slipping accident.

Although there is abundant cellulose in the apple peel it is often peeled off for habit of taste.

Switzerland 1934 postal card

There are ferrous ions in the apple, and once it contacts air after peeling, the ferrous ions will be oxidized and then the apple will rot or be decomposed by microorganisms.

3.1 Classification and characteristics

Actually only the surface skin of the potato affects the taste. However, owing to the uneven surface, the pulp may often get peeled off together sometimes.

Specimen

Coconuts, deal apples, etc. have a slow decaying speed due to the hard shell and lack of moisture.

Portugal 1944 postal card

The integrated water-logged compost is the most ideal way for disposal of kitchen rubbish, ...

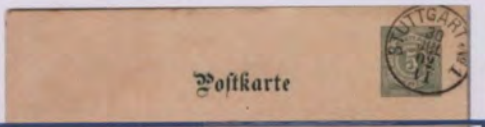
... however for economic reasons, the landfill is a relatively appropriate way, ...

... although, it will stink due to the high degree of rot, and it should be sterilized often.

3.2 Raising livestock

Food leftovers can be used to feed fowls and domestic animals.

Usually there is a little meat in the remaining bones, so you can feed the dog with the bones.



Chickens, ducks and geeses are 'vegetarian diet' animals, and they will eat rice or vegetable leaves.

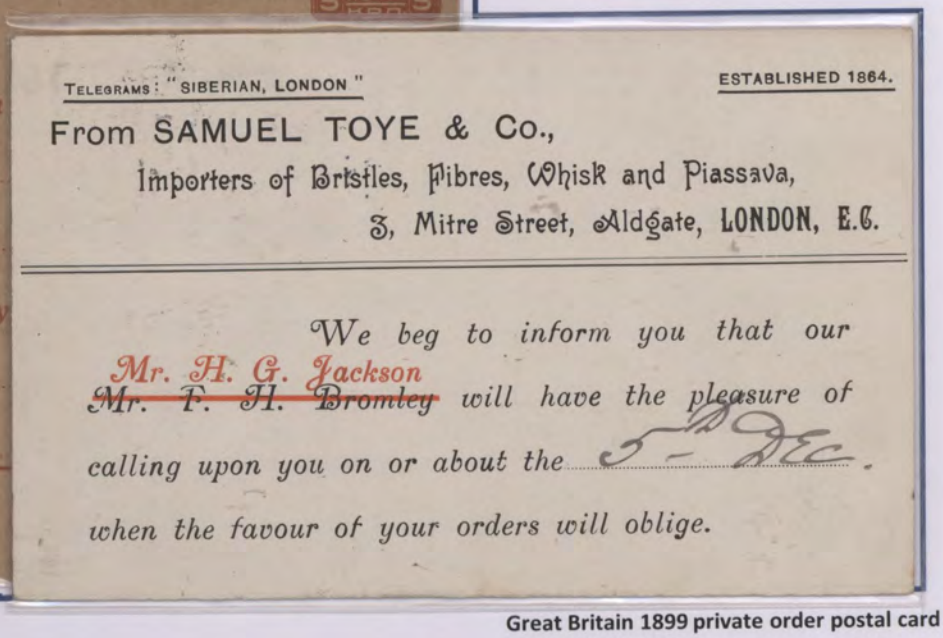
Stuttgart 1902 postal card

3.3 Recycling and use of mane and feather

Cowhide can be sent to integrated recycle bins to be made into leather products.

USSR 1930 postal card

Bristles too can be sold to recycling stores.



Great Britain 1899 private order postal card

In the factory, bristles can be made into brushes by certain processes.

Israel 1950 booklet

Horizontal perforation misplaced

The fact that miscutting exist at same offset distance on both booklet cover pages and the inner pages of stamps implied that cutting of the components that made up one booklet was all done in one operation. That is, one sheet of booklet front cover printing, one seet of booklet back cover printing and two sheets of perforated stamps, all stacked together for cutting at one go—and in this case mis- registration occurred, hence resulting in a miscut situation.

3.3 Recycling and use of mane and feather

Feathers from fowl can be collected to be made into shuttlecocks and quill-pen, etc.

Japan 1948 Stamp.
For security reason, a secret marking was added in the printing plate of the stamp appearing on position #36 of each sheet of stamps.

Austria 1932 5g postal card

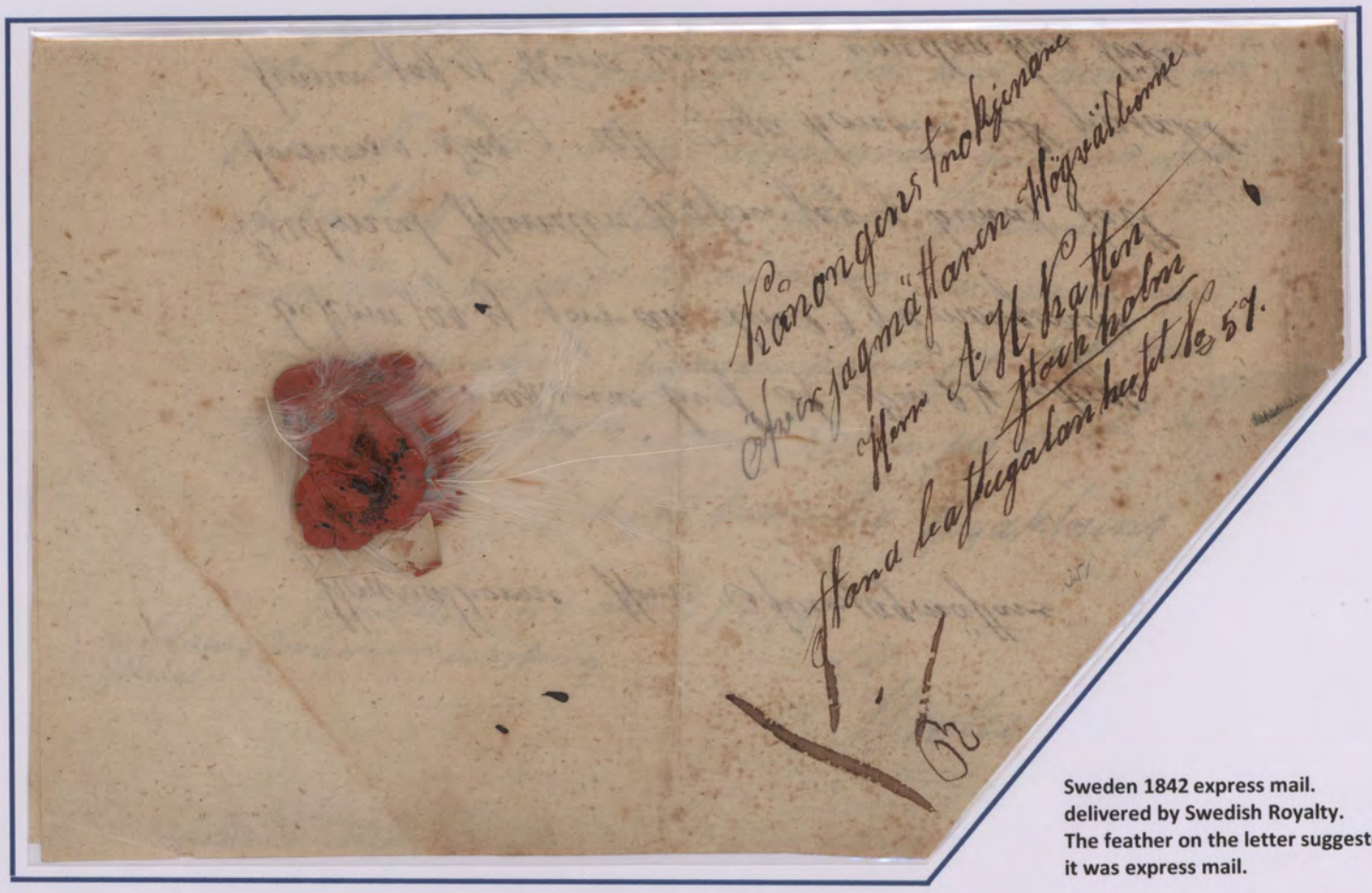
Advertising: feather quilt

Hungary 1930's letter card

3.3 Recycling and use of mane and feather

In Western European countries during the 18th and 19th centuries, a feather may also be pasted onto a letter as a sign of express delivery.

Finnland 1808 express mail. delivered by Finnland Royalty.
The feather on the letter suggested that it was express mail.



Sweden 1842 express mail.
delivered by Swedish Royalty.
The feather on the letter suggested that it was express mail.

3.4 Contribution of bones

Bone is most difficult to decay in nature. However, smart people can take advantage of its hardness and turn this presumed waste into wealth.

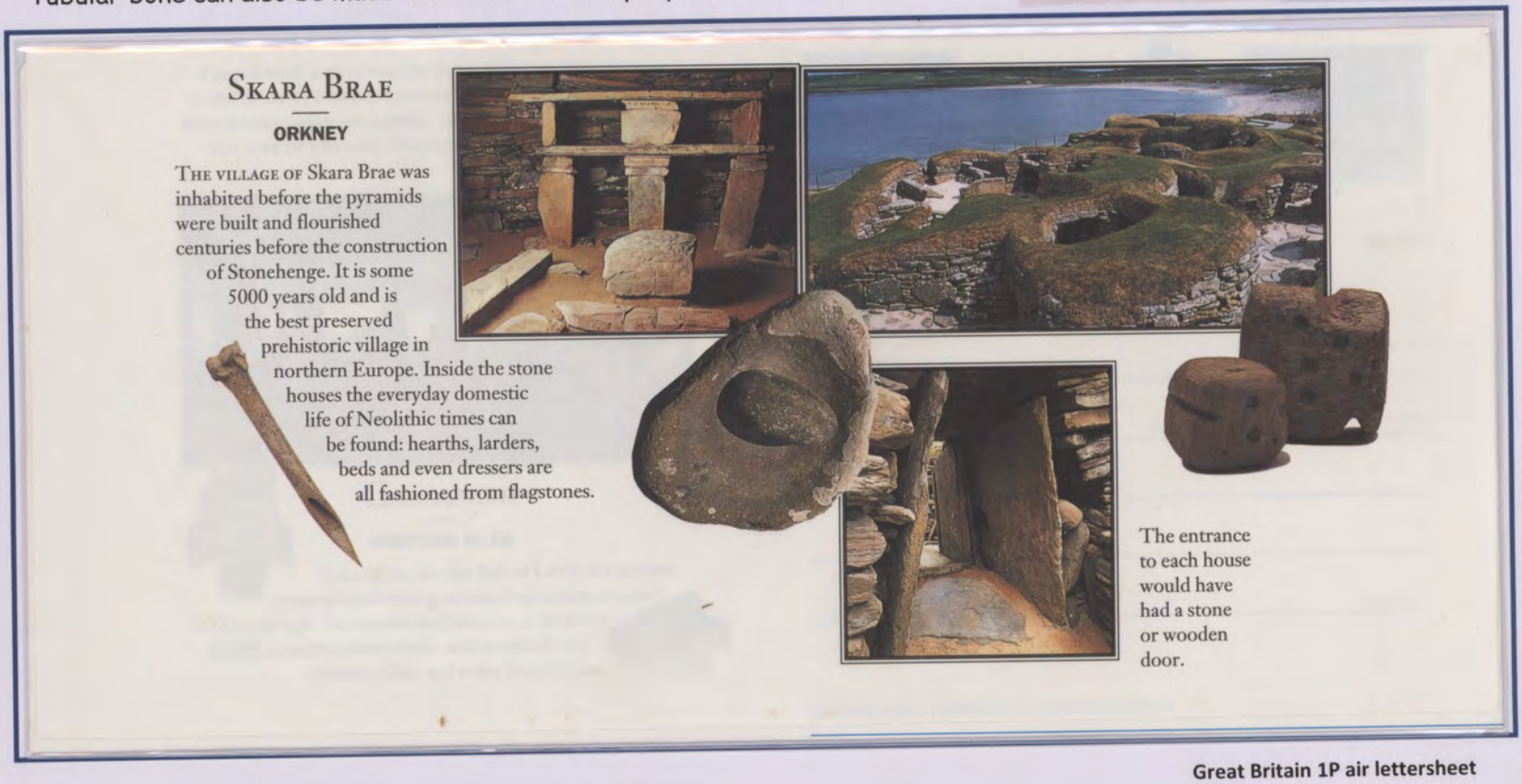
Minerals gained through food are favorable for the growth of bones and muscles.

Proof

" Mahanoy" in Red Indian language means: "The salt licked by animals."

During the paleolithic period, people had already made use of the hardness of bone to make it into tools.

Tubular bone can also be made into tools for everyday domestic life.



Great Britain 1P air lettersheet

3.4 Contribution of bones

Bones with hangnail can be made into fish spears.

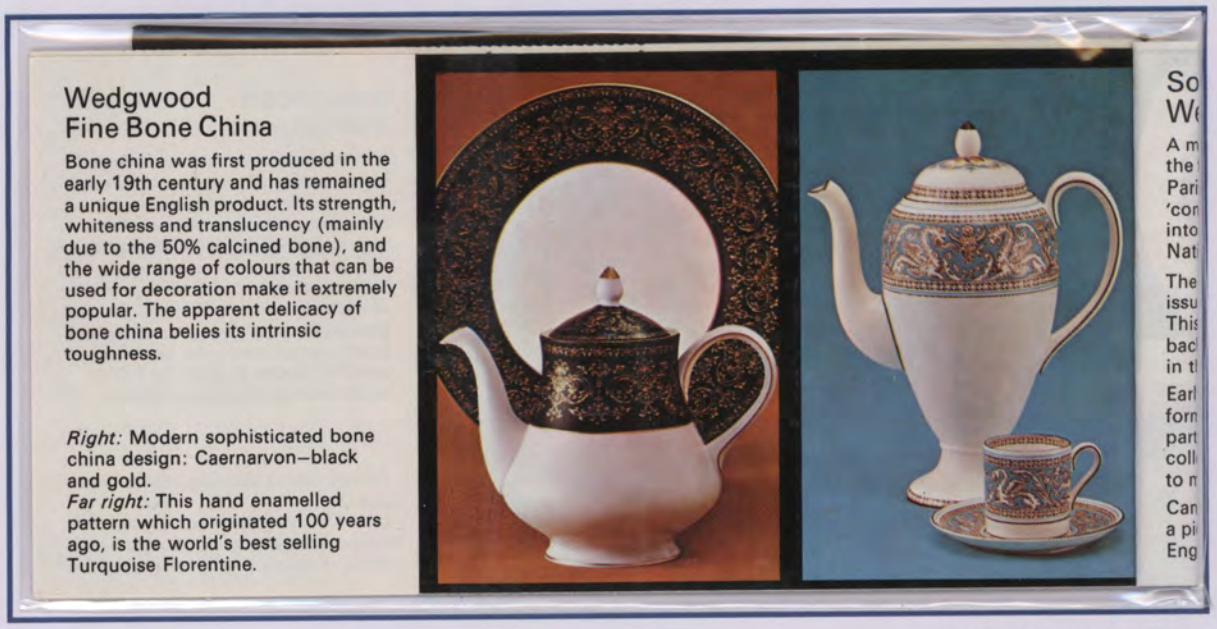
Chad 1966 blcak color artist's die proof

It is an important tool for the aborigines living near the sea to catch food.

Chad 1966 red color artist's die proof

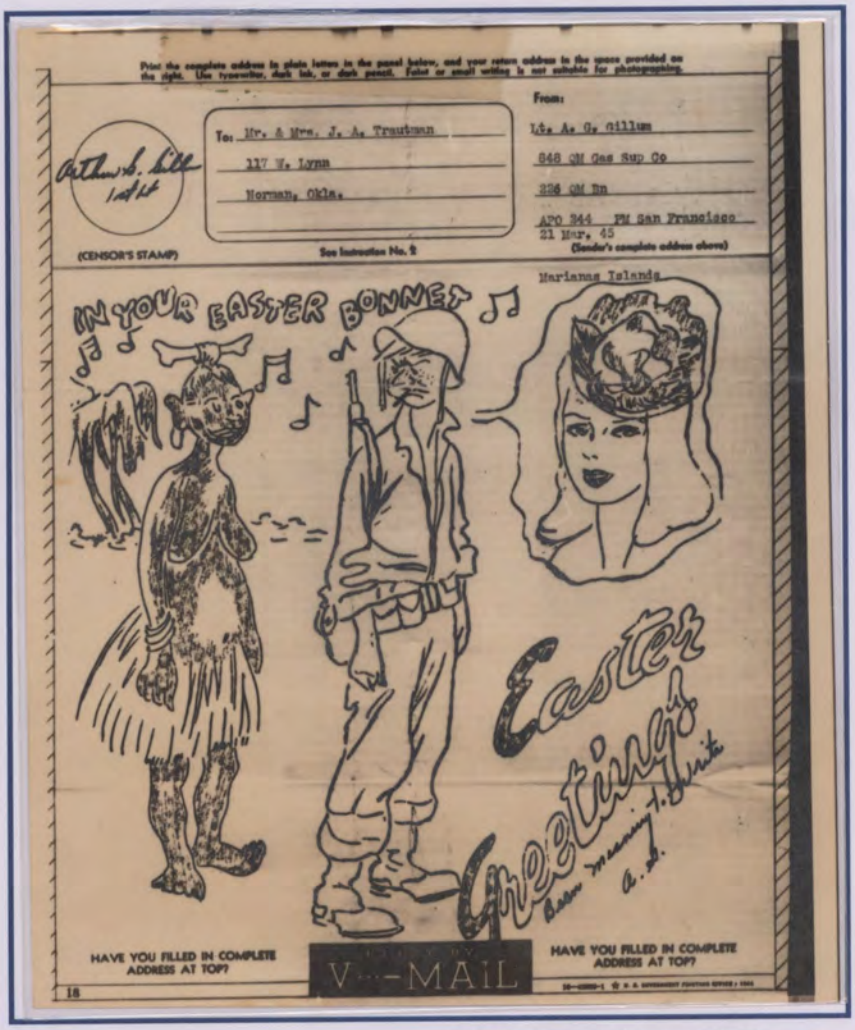
3.4 Contribution of bones

The major component material of china is the bone ash of animals. Such porcelain is high in whiteness, has good translucency, strength and smooth glaze.



Great Britain 1972 booklet

In some primitive tribes, bones can slao be used as headwear.



USA 1945 V – mail from APO 244

Bones can be made into bone glue through certain processes. With fishbone being the ideal material.

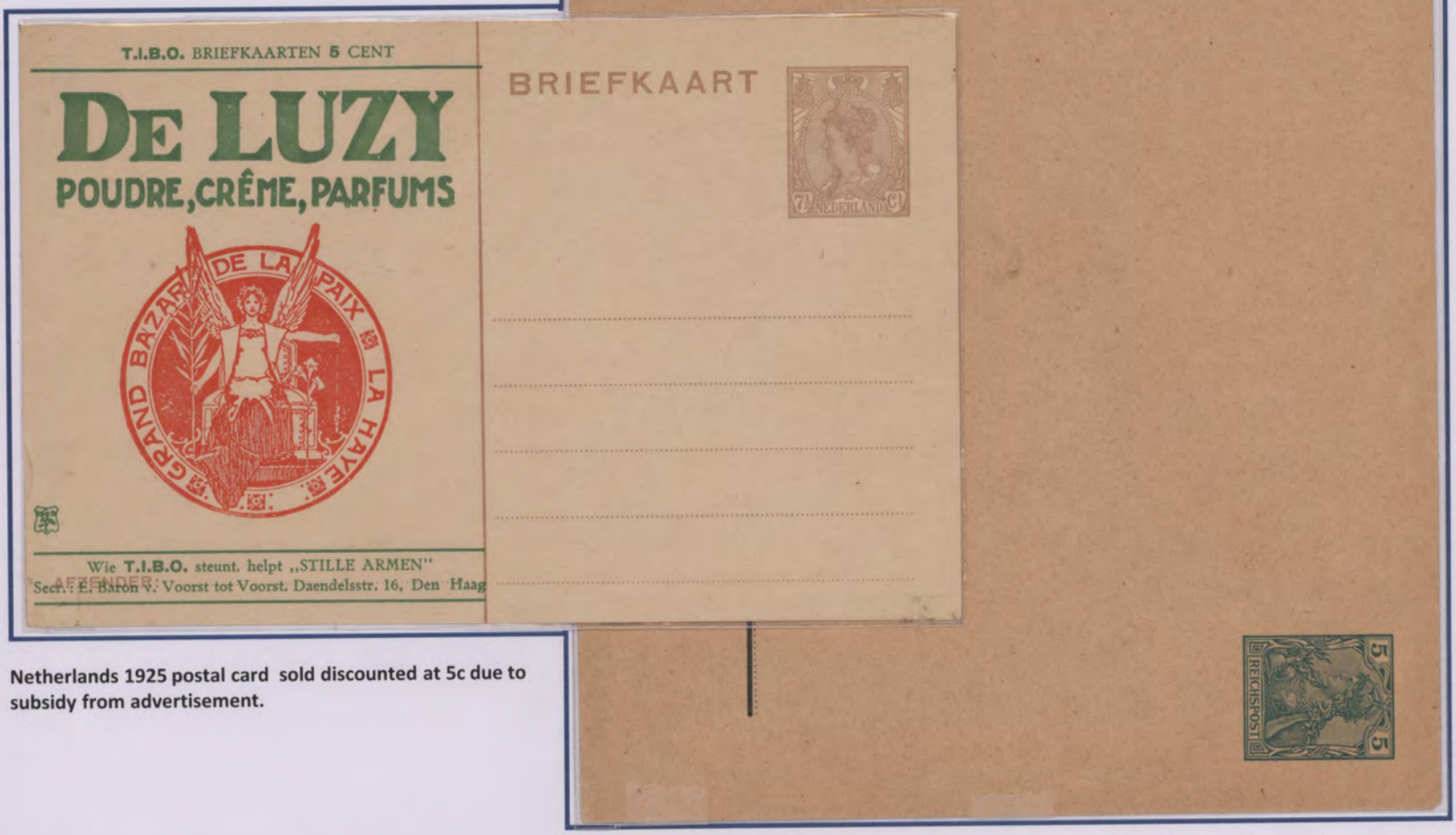
Gum on back of issue was of fish bone.

The powder product made from livestock bones can be used as the mineral feed of domestic animals.

4. Harmful Rubbish

4.1 Chemical rubbish

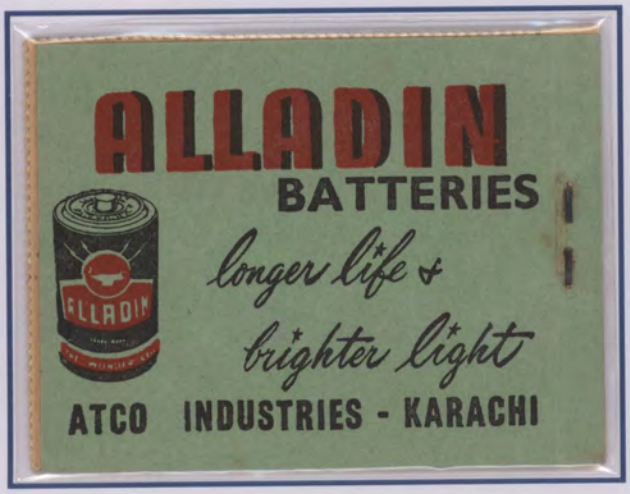
The typical chemical rubbish includes cosmetics. Skin whitening and skin care products will cause severe pollution to the soil since they contain lead, mercury, etc.



Netherlands 1925 postal card sold discounted at 5c due to subsidy from advertisement.

Germany 1900's postal envelope

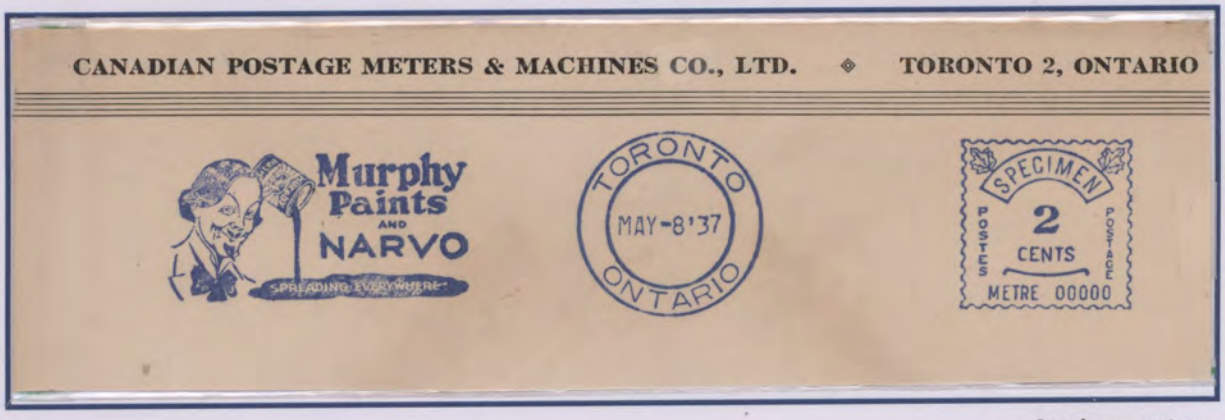
There are poisonous materials too in old-fashioned batteries.



These dangerous articles cannot be disposed in a normal family, and can only be recycled by professional companies.

4.1 Chemical rubbish

The wastes of oil plants, the resin, pigments, thinners and auxiliary material of paint contain chemical components such as nitrates. Once these get into the ground, they will lead to severe and irreversible pollution.



Specimen meter

During construction, workers should wear masks and gloves to avoid the direct contact of paint to skin.

The vocational damage of paint products is the inhalation of organic solvent vapour, which will contribute to a high proportion of severe diseases, including anemia, leukemia, tuberculosis, pleurisy, etc.

Black color shift

Switzerland 1909 postal Envelope.
from Zurich (10. Mar. 1909) to Delemont (11. Mar. 1909)

4.2 Cigarette butts and second-hand smoke

Smoking would make yourself happy but make other suffer. Cigarette butts and second-hand smoke would cause extensive harm.

The cigarette butts are made of polypropylene tow, and the cigarette butts contain harmful volatile substances such as benzene, formaldehyde, acetone and toluene.

Philippines 1980 approval proof

Randomly discarded cigarette butts may cause fires.

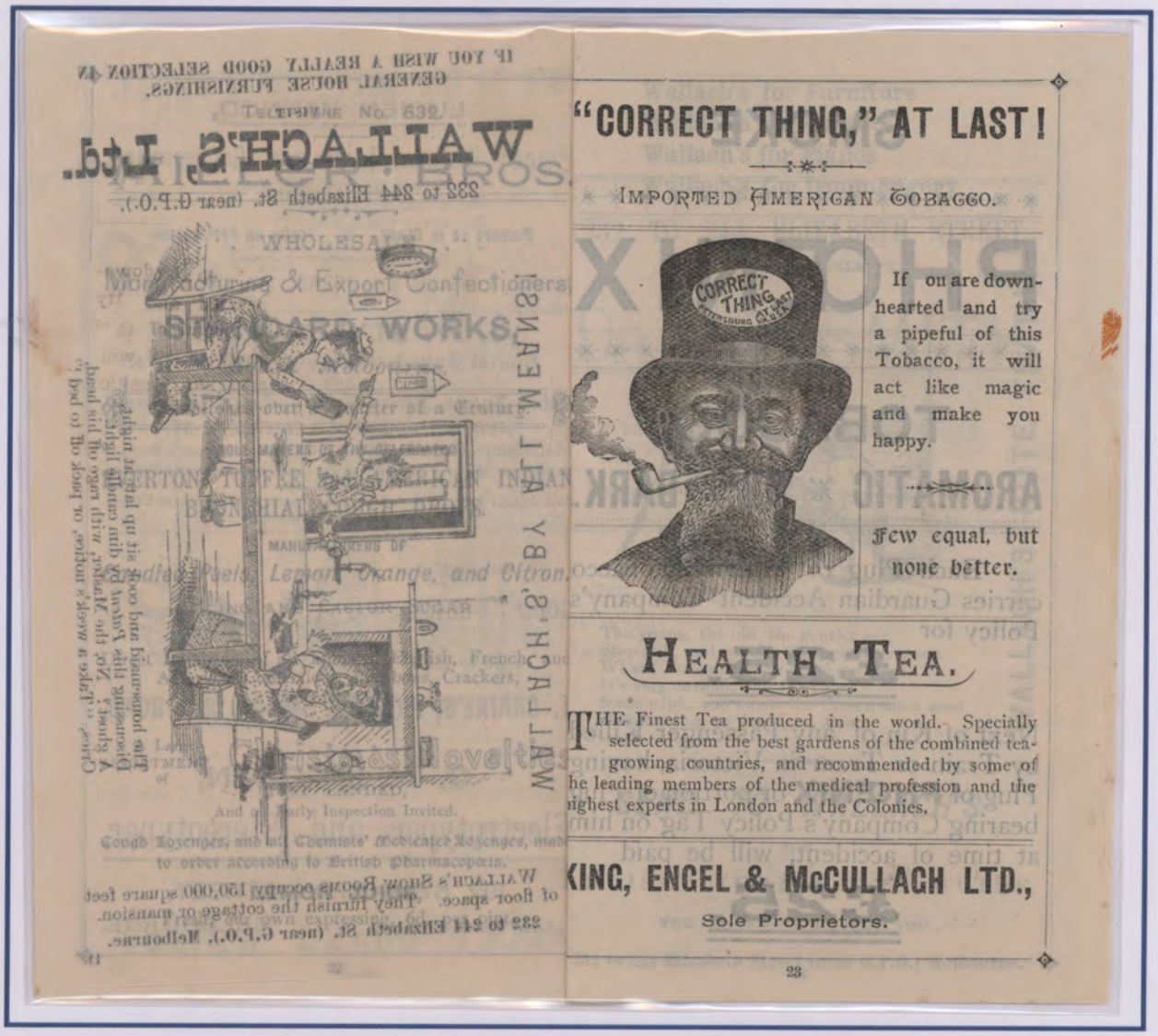
The cigarette butts should be placed in the ashtray, and they should be incinerated after classification.

USSR 1926 advertisement stamp

Estonia 1930'S letter card
Send from Tallinn

4.2 Cigarette butts and second-hand smoke

Secondhand smoke refers to the smoke exhaled by smokers and the smoke of burning cigarettes.



"CORRECT THING," AT LAST!

IMPORTED AMERICAN TOBACCO.

If ou are down-hearted and try a pipeful of this Tobacco, it will act like magic and make you happy.

Few equal, but none better.

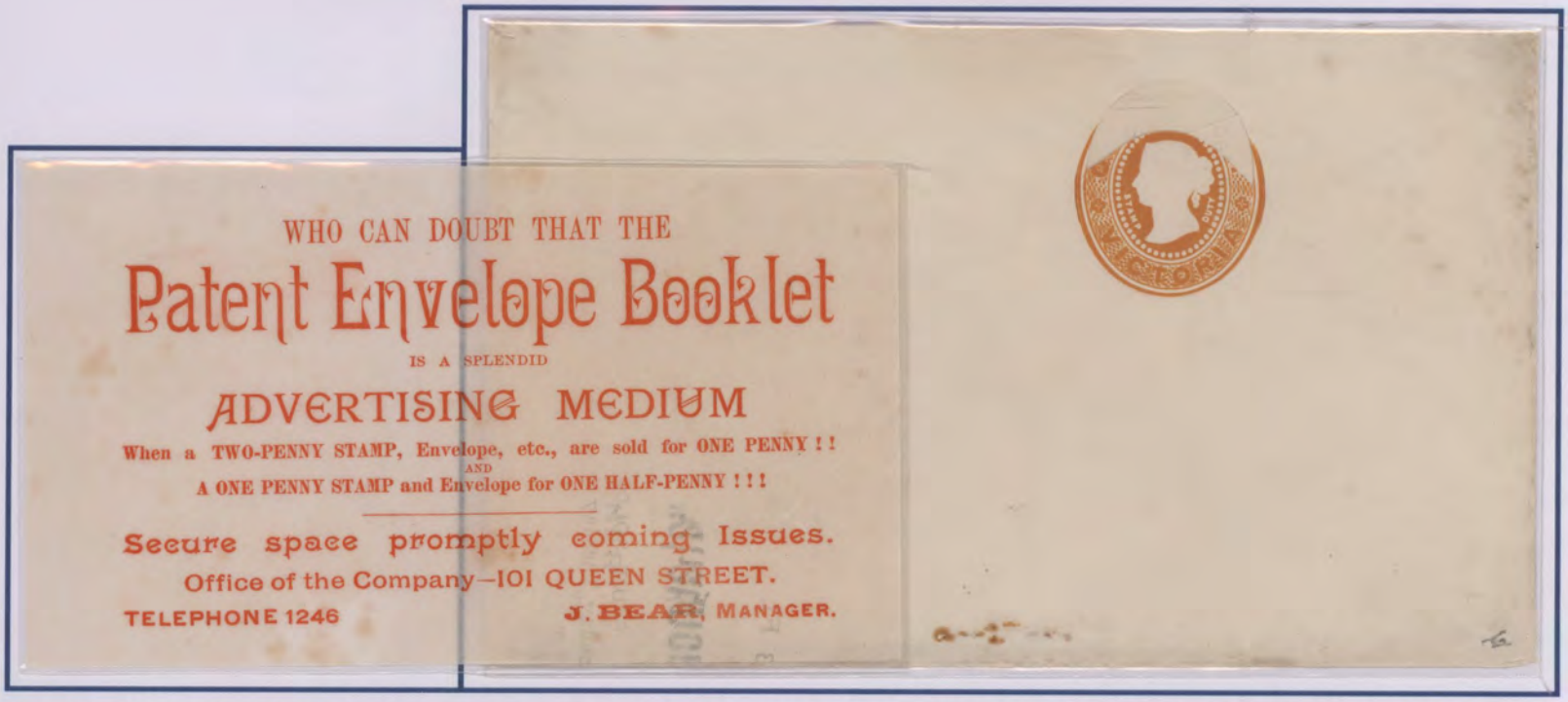
HEALTH TEA.

THE Finest Tea produced in the world. Specially selected from the best gardens of the combined tea-growing countries, and recommended by some of he leading members of the medical profession and the ighest experts in London and the Colonies.

KING, ENGEL & McCULLACH LTD.,

Sole Proprietors.

23



WHO CAN DOUBT THAT THE

Patent Envelope Booklet

IS A SPLENDID

ADVERTISING MEDIUM

When a TWO-PENNY STAMP, Envelope, etc., are sold for ONE PENNY!!

AND

A ONE PENNY STAMP and Envelope for ONE HALF-PENNY!!!

Secure space promptly coming Issues.

Office of the Company—101 QUEEN STREET.

TELEPHONE 1246

J. BEAR, MANAGER.

Victoria ,1890. The advertising booklet is removed from the envelop to show that the stamp design is partially printed on each of the folded bookler pages. The balance of the stamp is printed on the envelop. The promoter sold them at half price. The booklet has 32numbered pages and 14 onion-skin inserts. One insert shown above is loose and advertises the booklet itself. Withdrawn from sale after the goverment objected this profit making use of printed to private order stamped envelop.

4.2 Cigarette butts and second-hand smoke

Second-hand smoke contains more than 4000 kinds of substances, including more than 40 kinds of carcinogens. If non-smokers inhale second-hand smoke into the body, the smoke may also be mixed with radon decay products, causing greater harm to human health.

Nicotine is the major culprit of cardiovascular disease. If secondhand smoking is inhaled by people who do not smoke, it will lead to greater damages.

Austria 1919 encased stamp

.....besides the irritation to the eye, nose and throat, it will also increase the chances of nonsmokers to suffer from lung cancer and heart disease, as well as other respiratory diseases, etc. which will severely injure people's health.

Specimen meter

4.3 Invisible rubbish- noise

Noise cannot be seen or touched, but it does affect our work and life. Noise pollution has now been listed as one of the world's four major environmental problems.

The noise generated by the vehicle is the main source of noise pollution.

Construction noise mainly comes from noise generated by construction machinery.

Constructing in a sealed environment will make the noise more obvious

Austria 1913 reply card

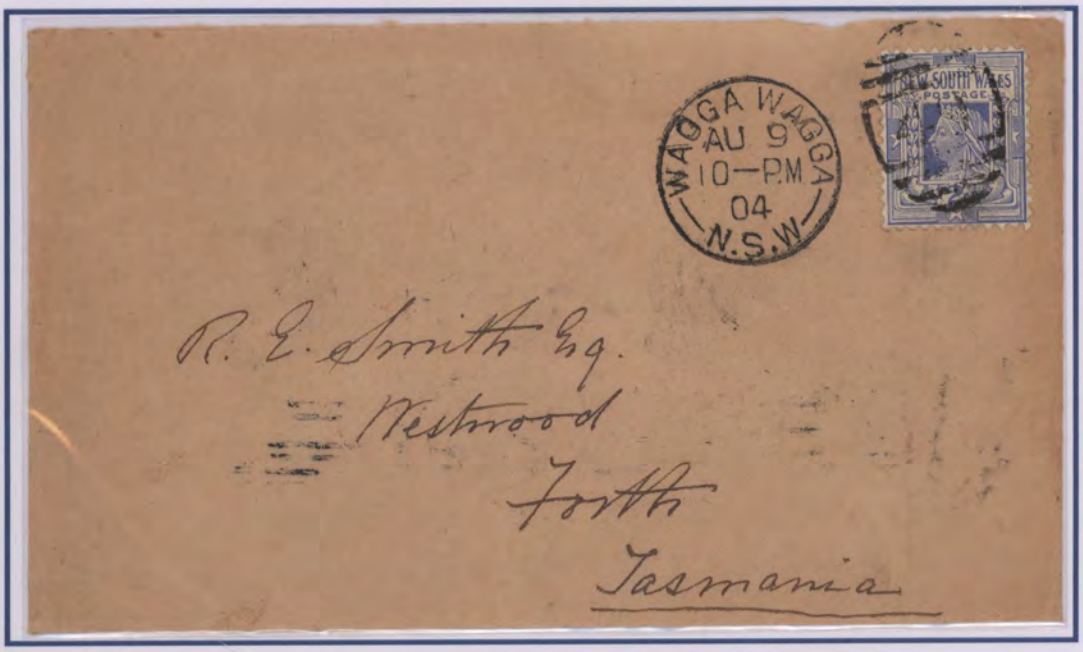
Some of the music equipment and people's shouting are noise pollution source.

4.3 Invisible rubbish– noise

Yes , most of the unwanted noise are man-made, ...

.....but at times it comes from animals too,.....

... including birds.



Mail from 'Wagga Wagga' , so amed after the croak of crows as place was infested with crows in the early days.
Posted from Wagga Wagga a 9 Aug 1904 via melbourne and Launceston for Forth , Tasmania arrival on 12 Aug 1904.

When the noise is greater than 40 db, it will be harmful. An increase of 10 db will lead to an increase of 12% in heart disease.

Although noise cannot be recycled it can be controlled. So please keep quiet for the sake of others' health.

italy military postal card

5. Other Rubbish

5.1 Combustible rubbish

Combustible waste does not have the value of recycling, but it can be used as fuel.

Paper penetrated by the wax on the surface of wax paper has no longer any value for pulp recycling.

All of the lining paper of this booklet is waxed paper

The blue dyestuff of carbon paper can overflow easily, and if included in pulp recyfling may influence the color of other paper.

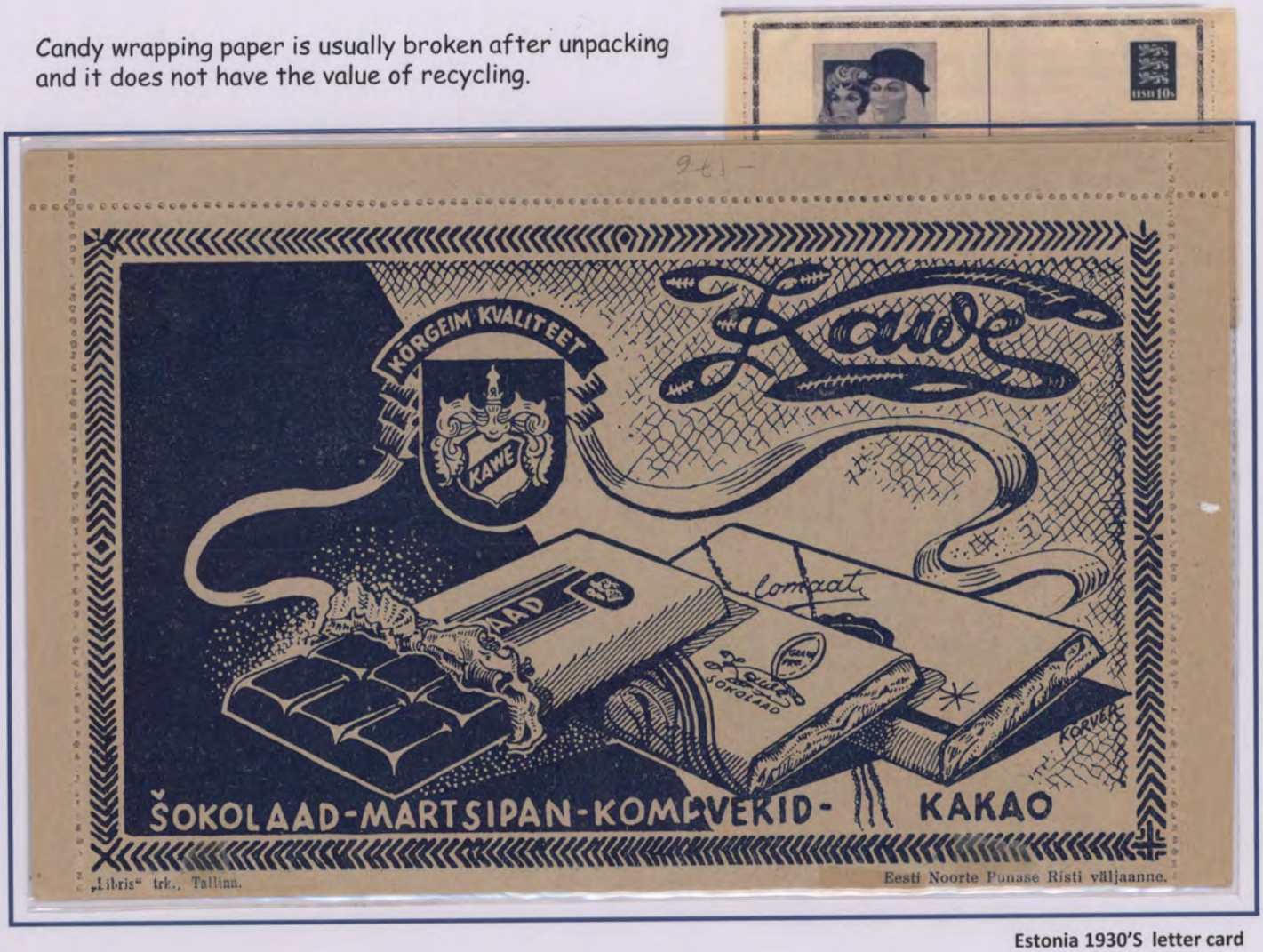
Canada 1963 money order.
The blue carbon paper was bound inside

Although the paper of firecrackers is made from recycled paper , a burnt firecracker contains much impurities as gunpowder and dust , so much so that its scrap is not cost-effective for recyclng of paper.

USA 1943 V - mail

5.1 Combustible rubbish

Candy wrapping paper is usually broken after unpacking and it does not have the value of recycling.



Estonia 1930'S letter card

Paper towels do not have the value of recycling, either.

Denmark 1935 booklet. With complete stamp

5.1 Combustible rubbish

Sawdust and wood have a low recycle value., ...

... but at least they can be dried for making fire to cook food.

14. Infanterie-Regiment. — Straßenkampf in Balan
1. September 1870.

Bavaria 5pf postal card, 1914

Even worse are cobwebs,...

Metter used from 1947 during French Occupation.

... the presence of which are mere irritants to humans.

Wurttemberg 1896 postal card use from Stuttgart to Nuernberg

5.1 Combustible rubbish

The withering of leaves is a natural phenomenon, ...

USA 1880's fancy cancel

The aphid may pierce and suck plant leaves, which will lead to the shrinkage, curling, deformation and even the withering or death of the whole plant.

... but it may also be a result of environment pollution.

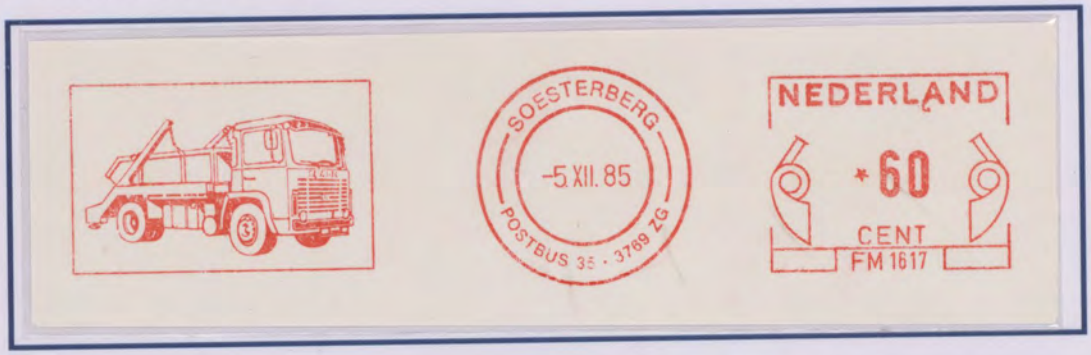
5.1 Combustible rubbish

The flower is the major reproductive organ of plants, and it will wither naturally after finishing the mission of fertilization and reproduction.

The water-logged compost of flowers and leaves is a natural fertilizer, and since it is substantial in amount, it is a wise practice to keep some compost as fertilizer.

Colour shift variety

The water-logged compost of flowers and leaves is a natural fertilizer, and since it is substantial in amount, it is a wise practice to keep some compost as fertilizer.



5.2 Inorganic matter

Inorganic matter rubbish mainly refers dusts and post-burning coal cinders and ashes.

Basically, there will be dust as long as there is air.

Dust should be swept gently, or it may spread all around.

Therefore, the house should be cleaned often to reduce dust.

Although the dust collector may waste electricity, it is a good tool.

France 1920's booklet

The dust on the road can never be cleaned up.

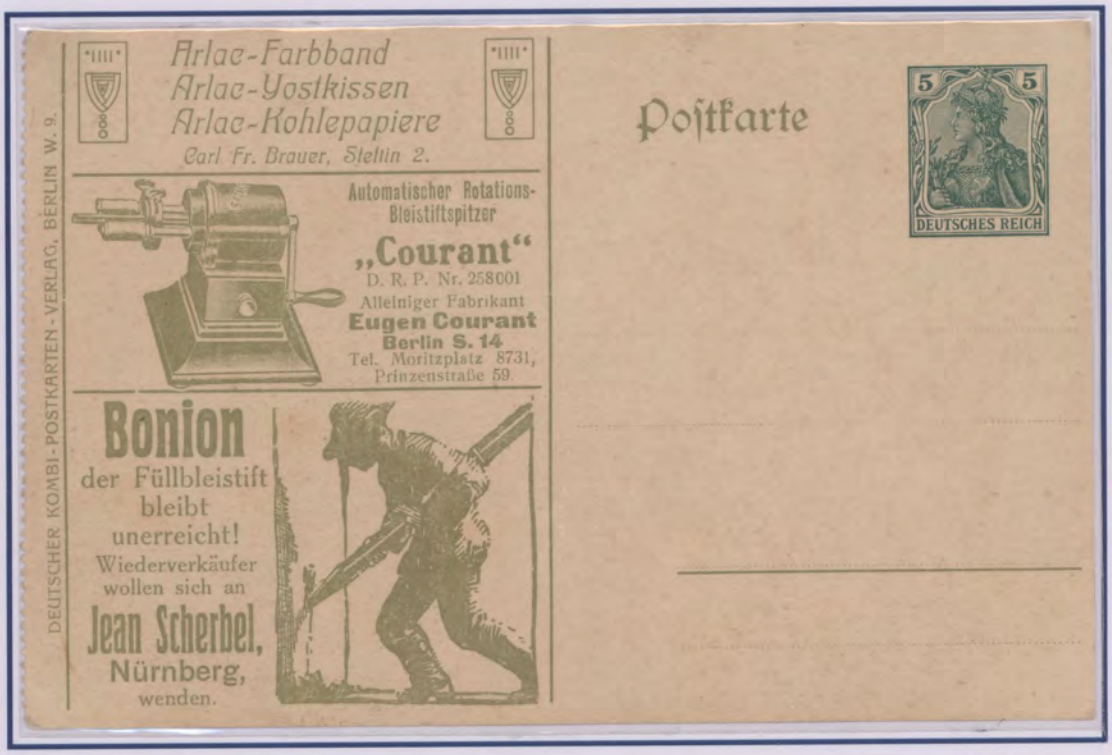
Please do not dump the dust anywhere after cleaning.

... and be thrown into the trash bin.

It should be sealed into trash bags to prevent 'scattering' again...

5.2 Inorganic matter

Broken pencils and pencil shavings are relatively little in daily use, and as a result, the direct burial of such won't affect the soil.



Germany 1902 postal card

Wood after burning gives charcoal ash.

Coal is formed by the decomposition of vegetable matter, essentially the branches and rhizomes f plants, and its chemical components are carbon and hydrogen, Which are not be harmful to nature.

New Zealand 1893 stamp

But it should not be dumped on the road, for it may puncture tyres easily.

Belgium 1930 postal card

5.2 Inorganic matter

... hedce please clean it up regularly.

After the combustion of coal and wood, soot may attach to the chimney, ...

Bavaria 1911 postal card

When soot is brushed down gently, ...

... they should be packed into a trash bag to avoid scattering in the wind, ...

... and handed over to sanitation workers for disposal.

When charcoal ash and coal cinder are collected, they can be utilised to manufacture cement, brick, fireproofing materials through grinding, or be added into concrete for paving of roads and bridges.

Specimen meter

5.3 Beards and hair

Beard and hair are the product of metabolism. Being very fragmented, they don't have the value of re-use.

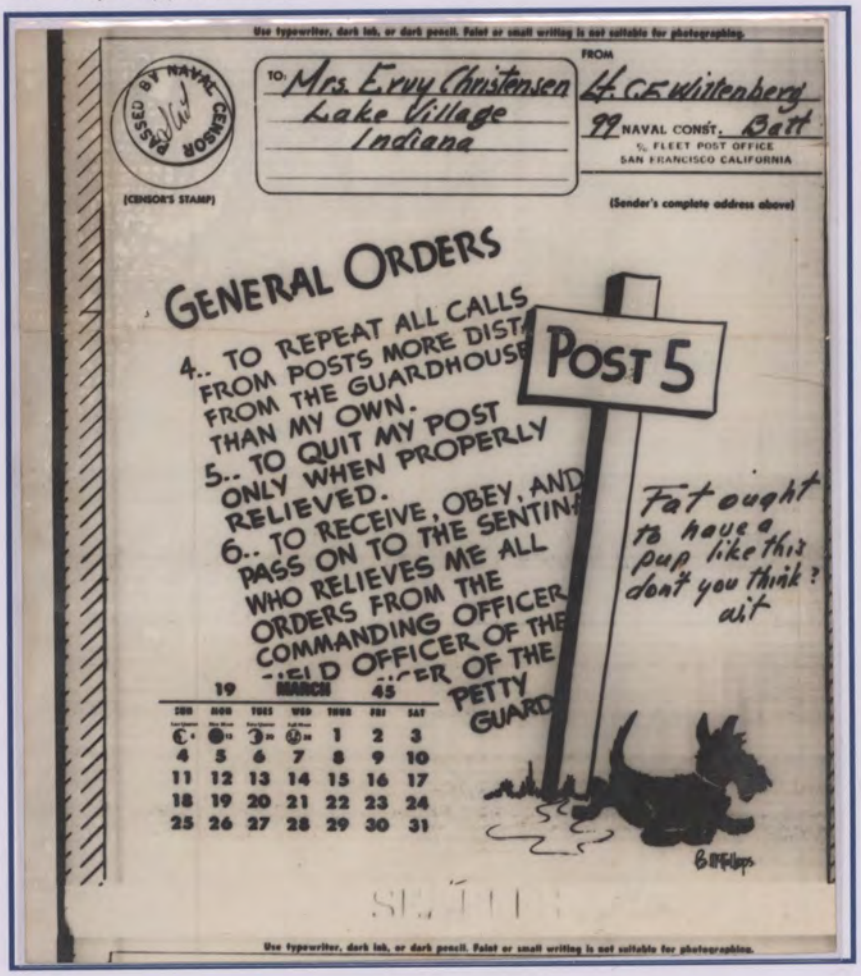
Turkey 1920's telegraph

U.S.A 1942 V-mail

5.4 Feces

Humans as well as all animals have to excrete.

Although dog shit can be decomposed in nature, it still affects the city's appearance.



Put the shit into the trash while walking dogs.

Excrement carries bacteria so must be cleared away timely; otherwise it will cause health problems.

COONAMBLE mean " cow-dung"

5.4 Feces

Cow dung, bird feces, chicken feces in the farm and human stool can all be used as fertilizer or unified a collection of fermentation as raw materials for biogas

China 2001, postal card

(Description of safe use of Biogas)

5.5 Domestic sewage

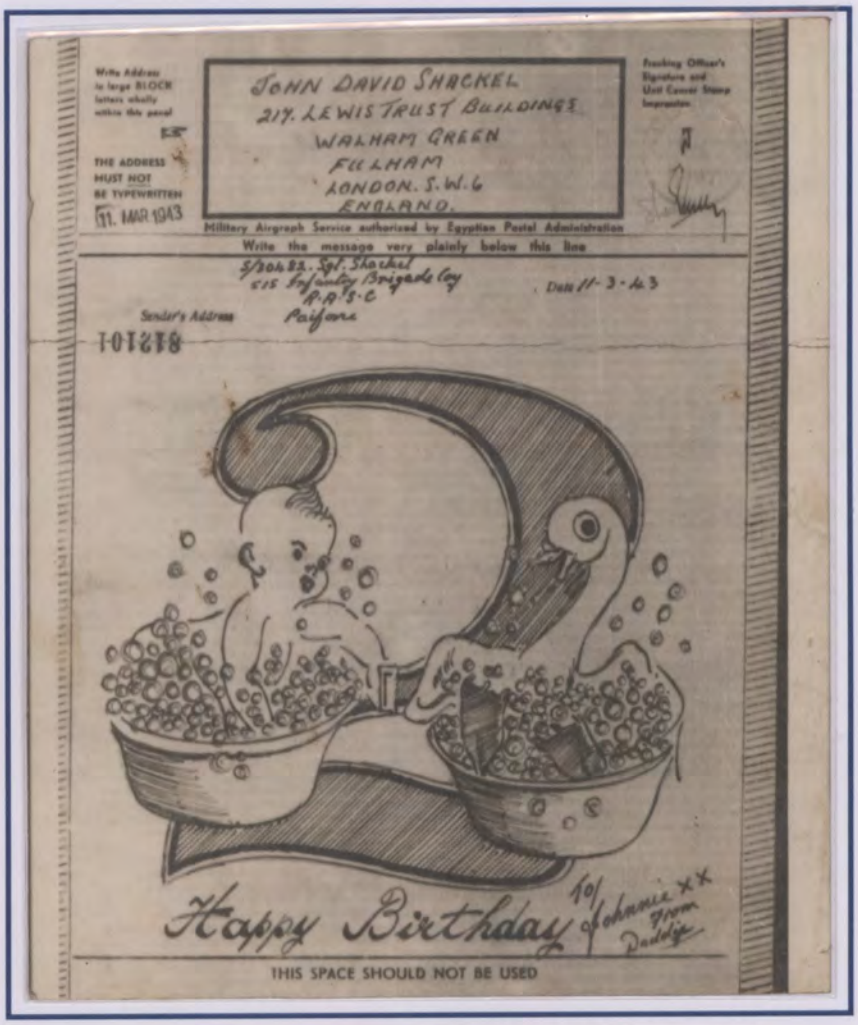
The harm of domestic sewage is relatively small,

The bath water may mix the body dirt and shower gel or soap with chemical components, which may flow into the sewer with the bath water.

Yellow paper

Red paper

Denmark 1933 Encased Stamp



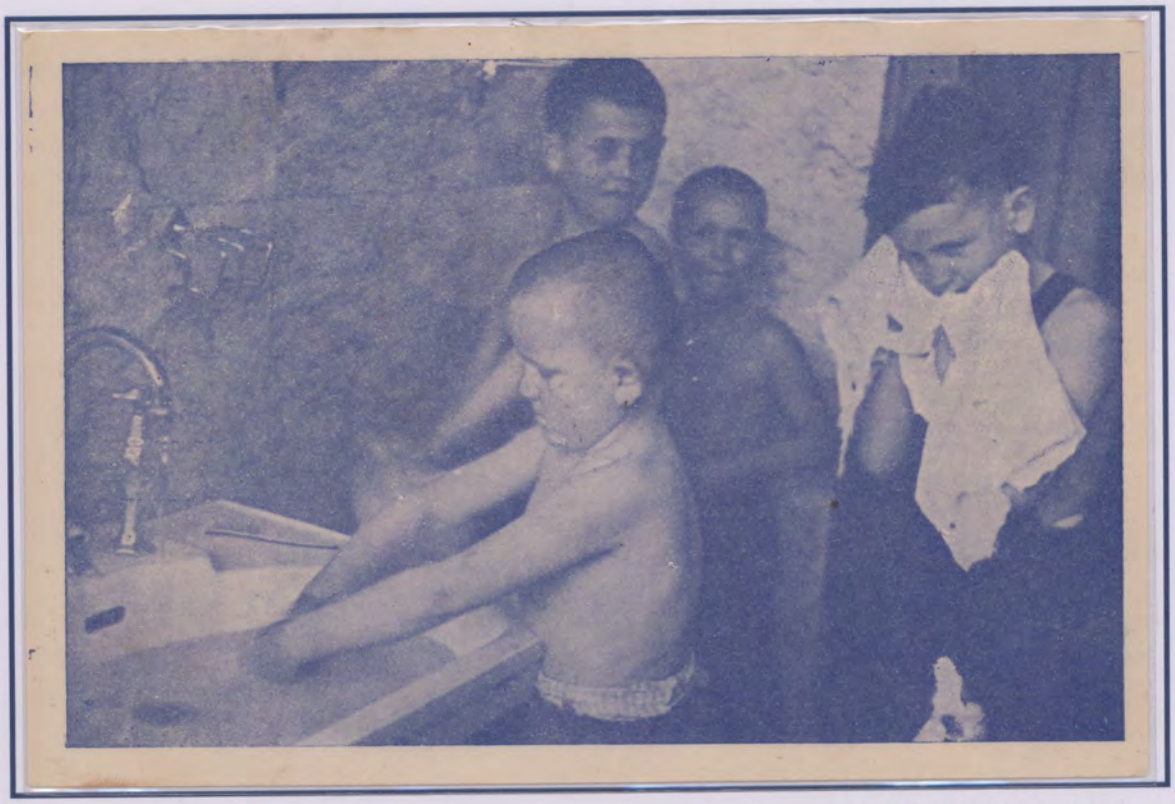
Great Britain 1943 airgraph

Laos 1965 Specimen

5.5 Domestic sewage

There is dust and foot scurf in the water after washing feet.

the dirt on hands will remain in water after washing hands.



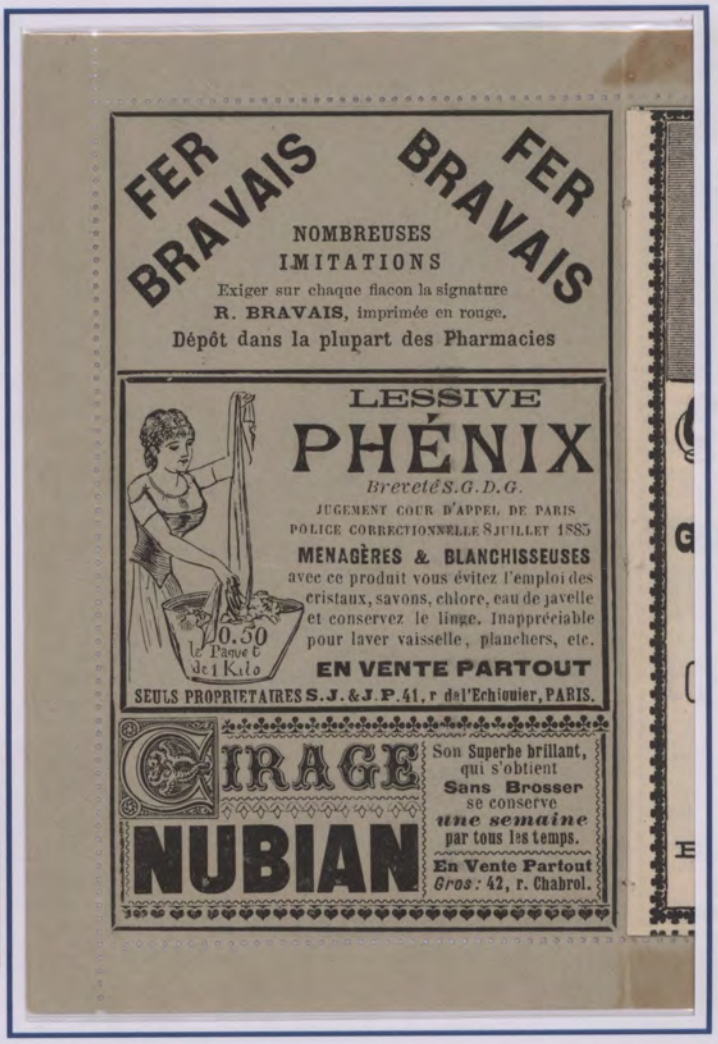
Yugoslavia 1951 postal card

After cleaning the teeth, the water may contains the toothpaste foam and mouth dirt.

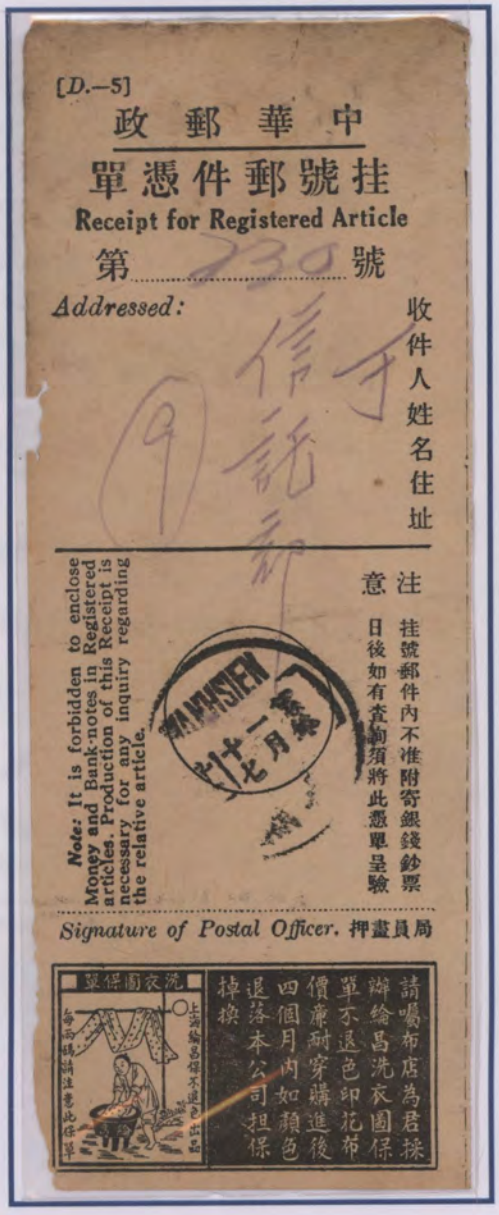
France 1920's encased stamp

5.5 Domestic sewage

The water used for washing the clothes After cleaning, the water will be filled with the chemical component of the cleanser, as well as dirt. After several rinses, the residue of cleanser in clothes may reduce, but the water for cleaning will flow into the sewer



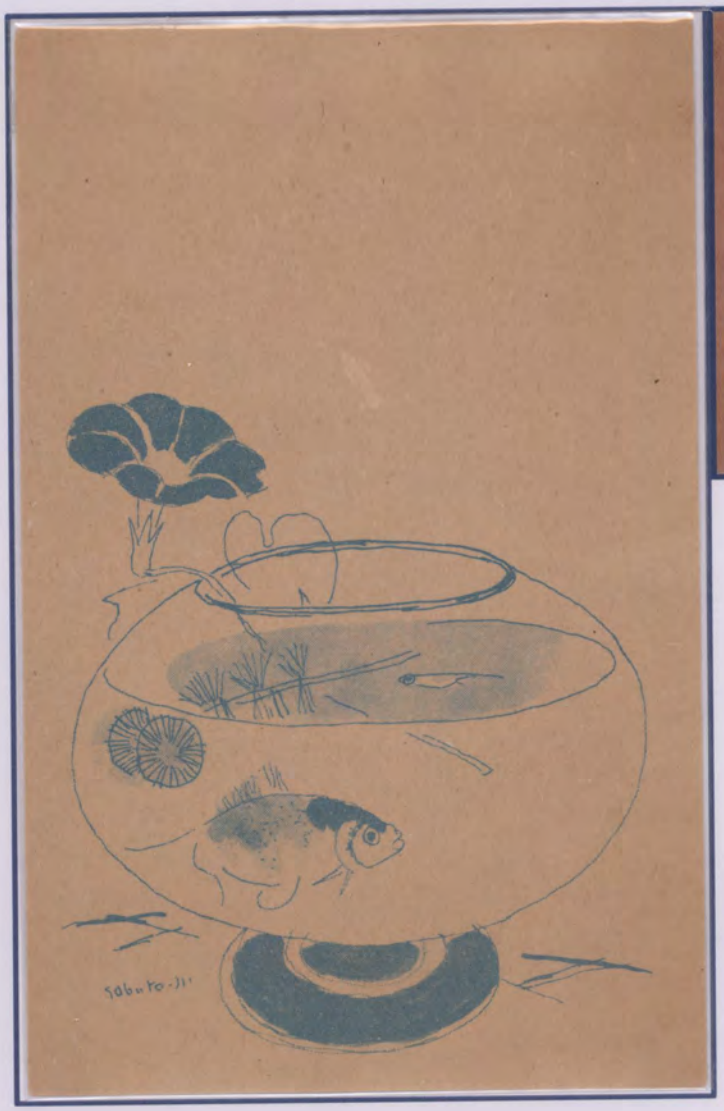
France 1887 letter card



Switzerland 1913 private order postal card

5.5 Domestic sewage

There are fish feces and other impurities in the water which is used to breed fish.



Japan 1950 postal card

Soapy water after washing animals

New Zealand 1893 stamp

Dumped wine and water

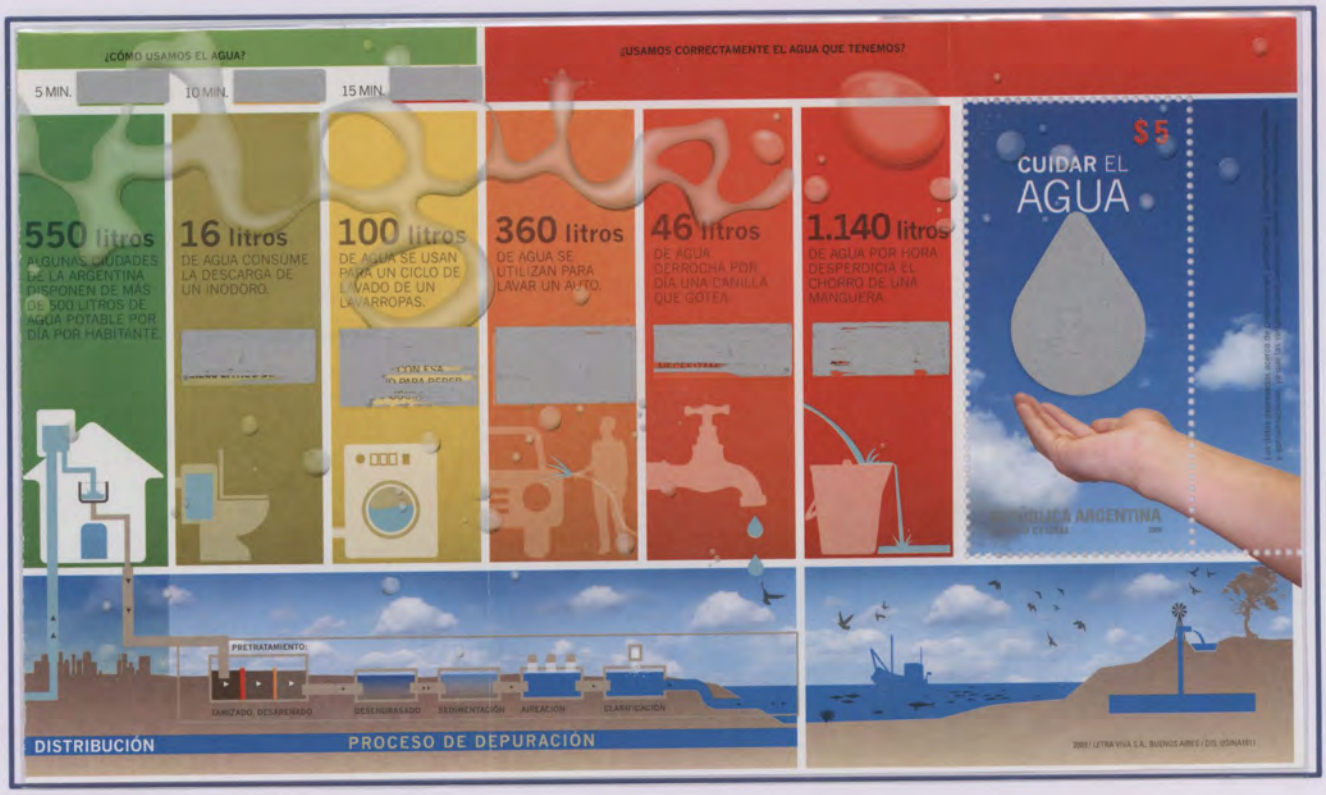
There is detergent material in the water which is used to wipe and wash cars

5.5 Domestic sewage

Before being discharged into the nature, domestic sewage will go through a serious of purification process in the sewage treatment plant after it is converged through underground drainage pipes.

Advertising : Sewage treatment equipment

China 1995 post card



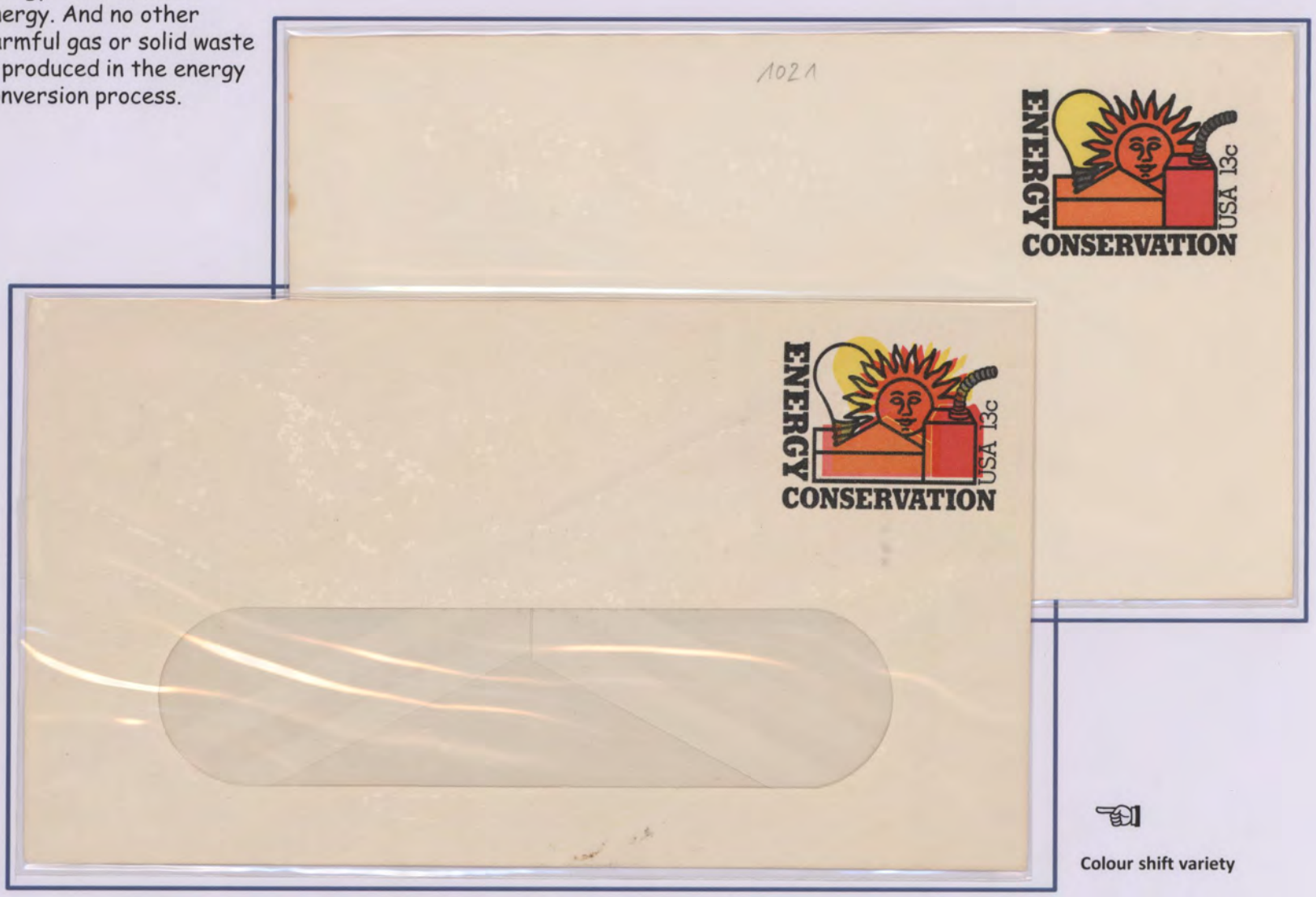
6. Ruduce rubbish — Green living

6.1 Use clean energy

Clean energy refers to the energy that does not emit pollutants and can be used directly in production.

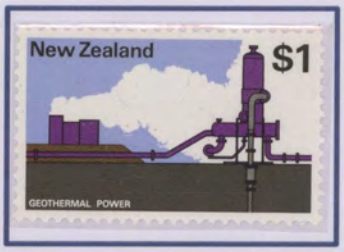
Solar energy is a kind of environment-friendly, safe and pollution-free energy which can convert solar energy into other forms of thermal energy, electric energy and chemical energy. And no other harmful gas or solid waste is produced in the energy conversion process.

spcimen



Colour shift variety

Geothermal energy is the natural energy extracted from the crust。 High-temperature lava heats the nearby groundwater, which eventually exudes the ground and ejects steam, and the steam can be used to generate electricity.

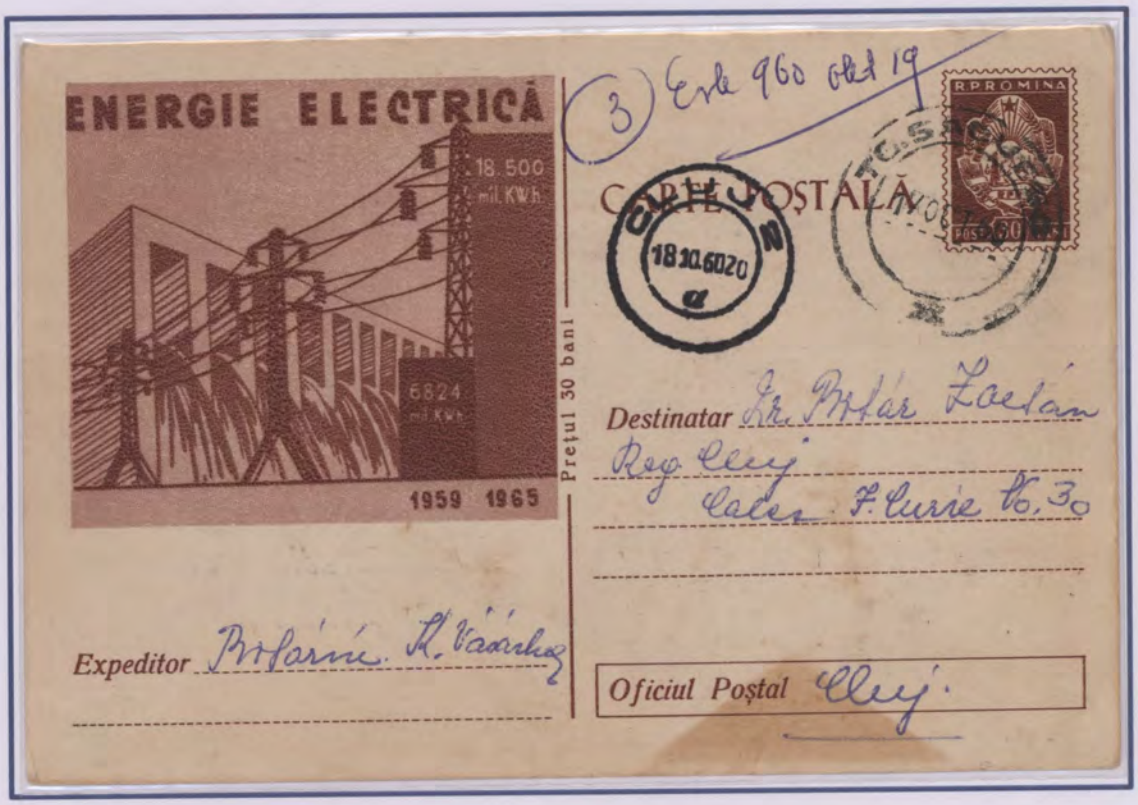


6.1 Use clean energy

Taking advantage of the rich water resources in the local area to build water tankers. Utilizing the water energy to promote the machinery of the mill to achieve the purpose of grinding.

Melbourne means " mill stream"

Hydropower station refers to that water at the high water level promotes the hydroelectric generating units to generate electricity when it runs into the plant through the diversion system, then runs through the step-up transformer, switch stations and transmission lines input power grid.



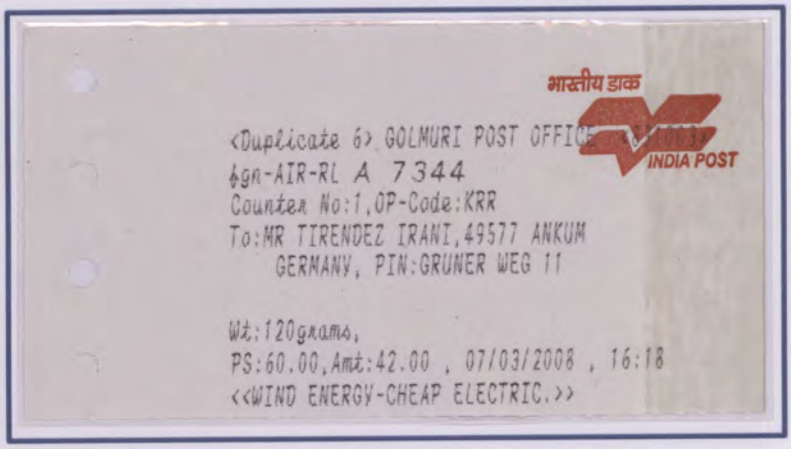
Tidal power generation refers to obtaining energy through tidal water movement, or the rise and fall of tidal sea surface. It is easier to predict than wind and solar.

6.1 Use clean energy

Windmill refers to generating kinetic energy to irrigate or grind grain through wind blowing the blades to drive the mechanism.

Netherland 1946 postal card

Wind power generation is the cheapest



Wind power generation refers to promoting the generators to generate electricity through driving wind turbine blade rotation by wind and promoting rotation speed by booster engine.

But the nuclear power plant is the most worrying. The risk for the nearby residences will greatly increase if any accident happens.

Nuclear power station obtains electric energy through the energy which is released in nuclear fission or nuclear fusion reaction.

Colour shift variety

6.2 Save electricity

Washing by hand instead of by machine can also achieve the effect of saving both electricity and water.

ŞT. LUCHIAN Spălătoreasa

Destinatar

Strada

Blocul Scara Eta

Localitatea

Raionul

Oficiul poştal :

If the clothes are soaked in advance, it is much easier to remove the dirt.

Es bleibt dabei ! — Die STEINFELS SEIFE giebt die schönste Wäsche und erhält sie am längsten.

Switzerland 1913 private order postal card

Drying clothes naturally can not only save electricity, but also sterilize the clothes with sunshine

Belgium adverting stamp

The vacuum cleaner not only wastes electricity and trash bags, but will also fail to reach certain angles. If a simple broom is used for sweeping sweeper, you can solve the three problems all at once.

6.2 Save electricity

As the most important lighting equipment at night, the light bulb takes up more than half of the electricity consumption in the present households of the world.

Specimen

Australia 1957 Specimen meter

Italy 1920's BLP letter card

The biggest advantage of the energy saving lamp lies in its high efficiency. The energy saving lamp is energy-saving and cost-reducing, and the energy conversion efficiency of fluorescent powder is also high, reaching 50 LM/Watt, and it's life is more than 6000 hours

6.2 Save electricity

If incandercent filament lamps are used in public areas, then the power consumption can then be fearsome.

Czechoslovakia 1932 telegram

For the sake of family expense, adopt use of the energy saving lamp and contribute your on effort to environmental protection.

The fluorescent lamp is also a kind of energy saving lamp.

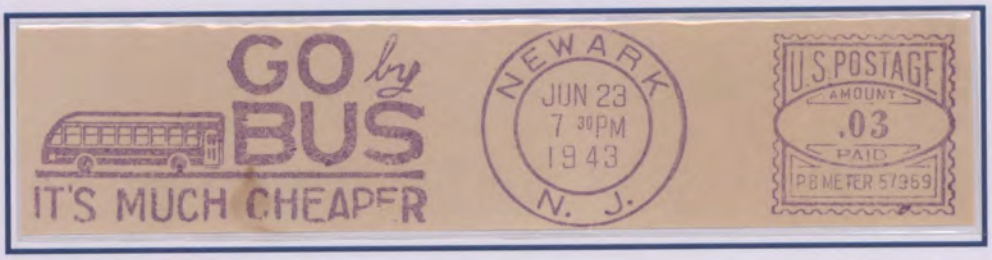
Please turn off the light when there is no need of it.

6.3 Travel through "B, M.W"

'B.M.W' refers to bus or bicycle, metro and walking

The automobile may be called as the significant 'murderer' in air pollution, ...

... therefore, in our daily get-abouts, please select use of buses, and avoid the private car, for this practice can save energy and reach the objedtive of environment protection.



The metro is much more low-carbon and energy saving than the buses and automobiles.

First stamp in the world with picture of a metro station, 1939.

Metros are often praised as the most punctual and efficient of transportation tools.

6.3 Travel through "B, M.W"

If the distance is not too far, you may select use of a bicycle as well, for it is not noly environmentally friendly and economic, but it also exercises the body.

Bavaria 1900 private order postal envelope

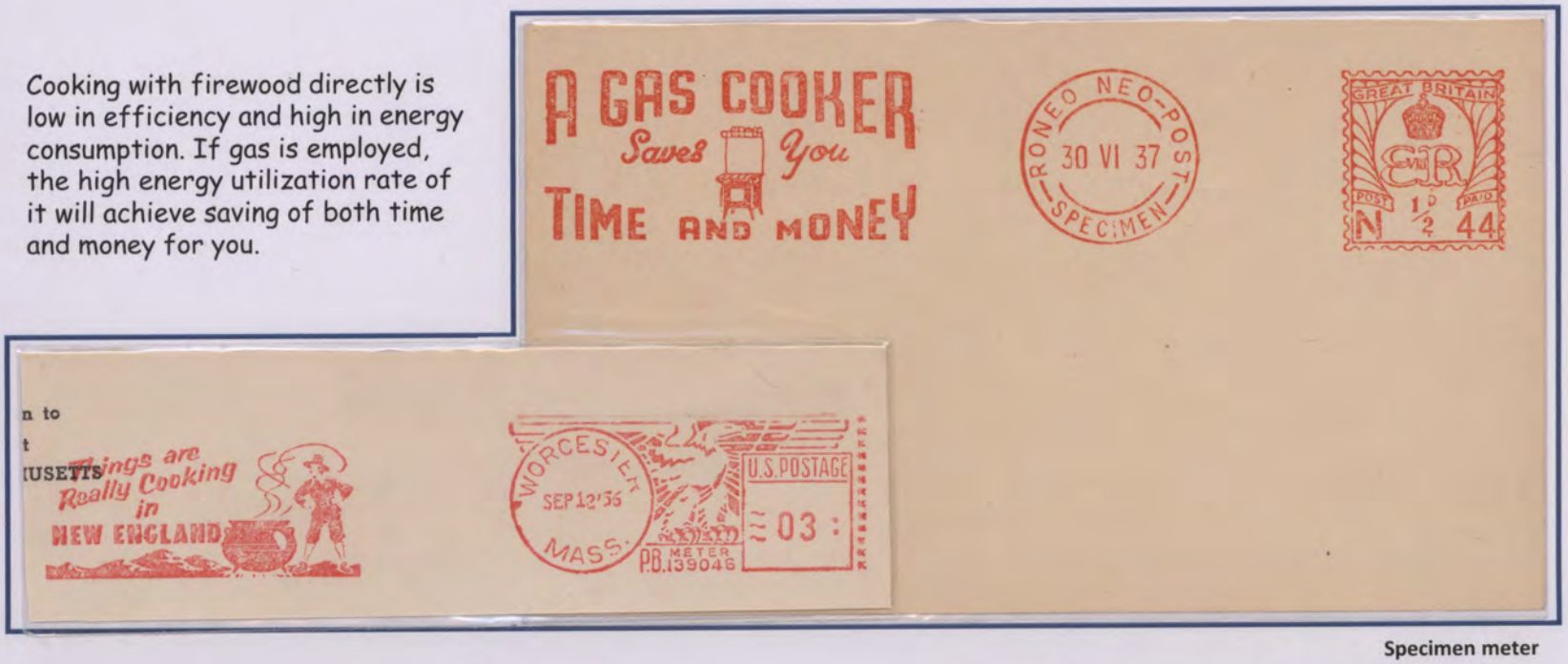
Of course, if it is not far at all, you can also walk. Striking up a conversation while walking can also promote communication between two people.

Germany 1930 postal card

Of course, in cities with imperfect public transport systems, choose fuel-efficient cars and car pooling is also an environmentally friendly method.

6.4 Low-carbon cooking

Cooking with firewood directly is low in efficiency and high in energy consumption. If gas is employed, the high energy utilization rate of it will achieve saving of both time and money for you.



Specimen meter

If a pressure cooker is used, saving may even be.

After water is boiled, keep it in a thermos flask, for it can reduce the energy consumption required for reheating .

In summer, use an ice cake vacuum bottle for it can decrease the melting speed of ice.

India telegram. Used at 20. Aug. 1925

6.4 Low-carbon cooking

The saving of energy being with us. For instance, when purchasing a gas cooker, please select the one with high a energy efficiency ratio, for it can save time, gas and money.

Portugal 1959 private order lettersheet. Send From Lisbon on 11. Nov. 1959

6.5 Repair objects

If an article is damaged, please do not just 'change it'. You can find a craftsman to repair it. You can save the money for repurchase and instead spend only a little sum of money.

Portugal $50 postal card，1953

Professional shoe repairing store can renew your shoes thoroughly.

Germany 1920's encased stamp

6.6 Eat less canned food

However, during the production process of canned food, each can may consume lots of energy, taking canned meat as an example, the production of which requires...

Nicolas Appert's invention of cans mainly resulted from the bad transportation condition and the decay of food.

Switzerland 1908 private order postal envelope

... cleaning, cutting, cooking and sterilization of the meat, then canning and sealing,...

... before transportation to markets.

After eating, the opened can also becomes garbage that need be disposed.

Therefore, please select fresh food, buy local produce, and reduce much unnecessary energy consumption.