

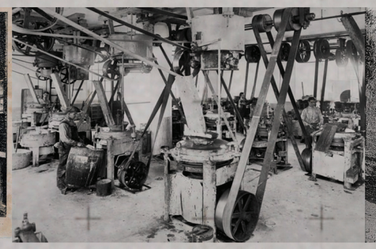
Location of paint and coatings facilities
EPA's web archive

30,000 Years Ago

1700 – 1867



Mid-Late 1800s



Early 1900s



Before WWII



Paints and coatings have evolved from the simple Early Man colors on cave walls into a primary protective barrier between our possessions and our environment.

Paint has become part of the american life since the first recorded paint mill in America was reportedly established in Boston in 1700 by Thomas Child.

In the mid-1880's, paint factories began springing up in population and industrial centers across the nation. Mechanization was making the manufacturing process accessible to a larger and less specialized group of entrepreneurs.

Industry consensus standards limiting the use of lead pigments date back to the 1950s, when manufacturers led a voluntary effort to remove lead from house paints. Common house paints have contained little, if any, lead since then.





1950s – 1970s





COVER THE EARTH

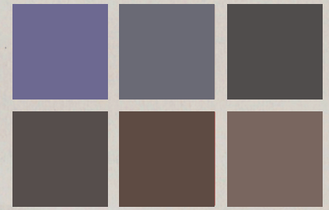
The painting industry has damaged our country since its lead component has damaged the soils of the American landscape, including the area of Hilliards creek in Camden, N.J.

FROM YOUR FRIENDLY SHERWIN-WILLIAMS PAINT DEALER

Lead-Painted America

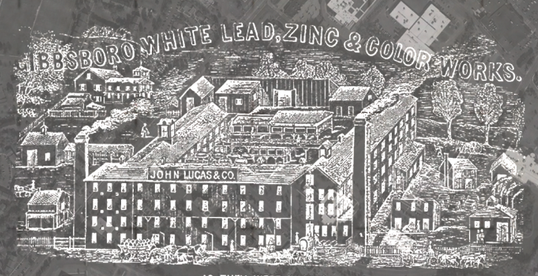
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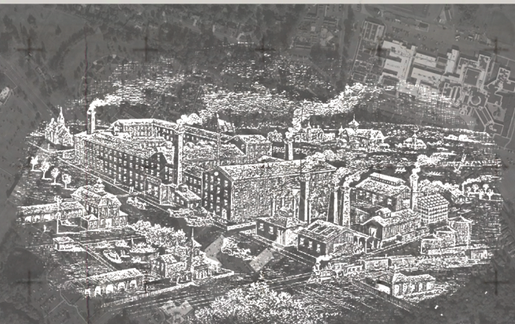




AS THEY WERE IN 1849.



AS THEY WERE IN 1879.



LUCAS COLOR AND PAINT WORKS, GIBBSBORO, N. J., 1899.



Dating back to the 19th century, the Superfund property was originally owned by Lucas Paint Works. Sherwin-Williams bought Lucas in the 1930s and expanded operations at the site. The facility was then closed in 1977 and sold to a developer in 1981.



The affected areas requiring cleanup include a 20-acre area where the former paint manufacturing plant operated, Hilliards Creek headquarters and other adjoining areas, which include approximately six residential properties. Hilliards Creek also flows through the site and into Kirkwood Lake. The plant's soil and groundwater are contaminated with lead, arsenic and volatile organic compounds, while the sediment in and near the creek contains lead and arsenic.



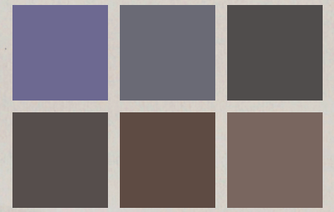
Hilliards creek. has a rich history when it comes to the paint industry, the same history that has permanently polluted the landscape of Camden.

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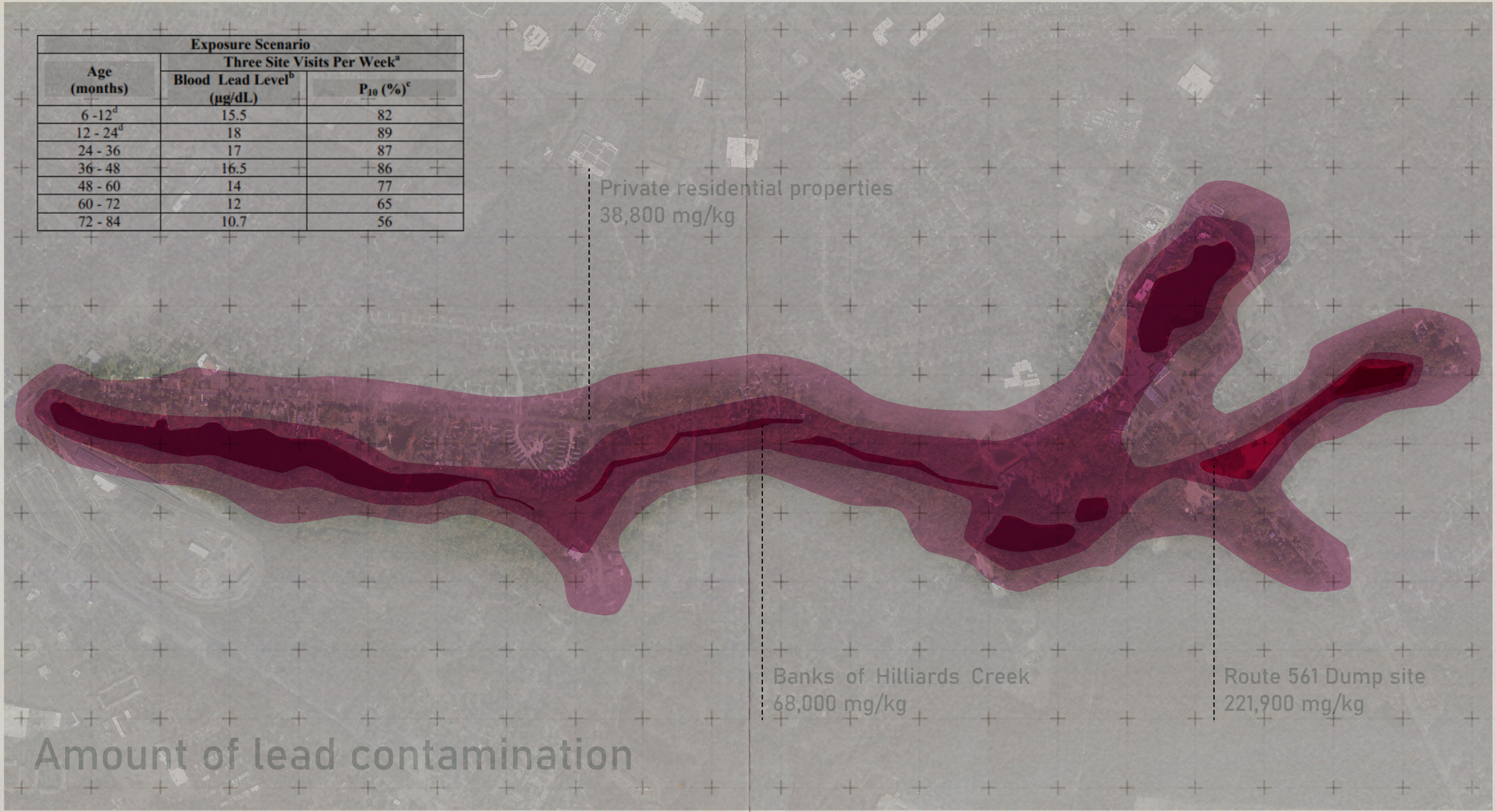
Camden Backstory

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Exposure Scenario		
Age (months)	Three Site Visits Per Week[a]	
	Blood Lead Level[b] (µg/dL)	P_{10} (%)[c]
6 -12[d]	15.5	82
12 - 24[d]	18	89
24 - 36	17	87
36 - 48	16.5	86
48 - 60	14	77
60 - 72	12	65
72 - 84	10.7	56



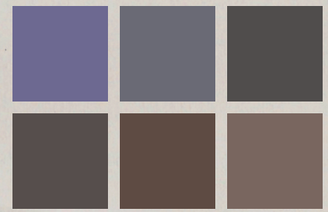


The citizens of Hilliards Creek have a great amount of lead in their blood (above 10dL) meaning their exposure to the contaminated area as well as the health implications they might have in the future. The area with the most amount of lead contamination is the Route 561 dump site, which is conected to one of the main roads of Hilliards Creek.

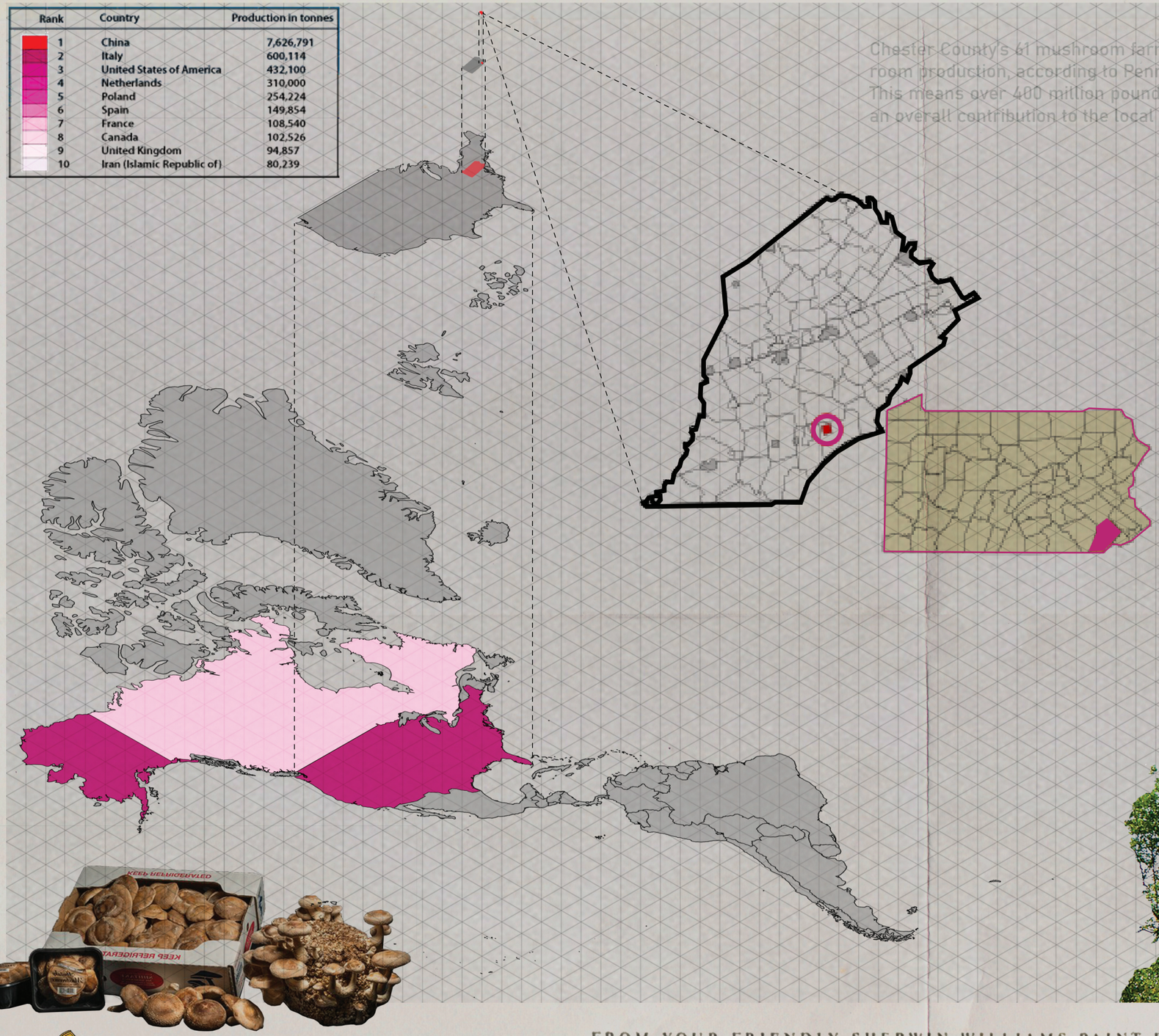
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Lead implications

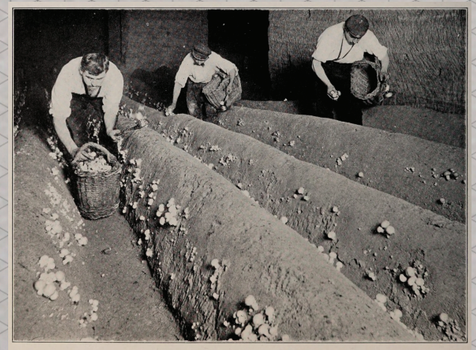
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Rank	Country	Production in tonnes
1	China	7,626,791
2	Italy	600,114
3	United States of America	432,100
4	Netherlands	310,000
5	Poland	254,224
6	Spain	149,854
7	France	108,540
8	Canada	102,526
9	United Kingdom	94,857
10	Iran (Islamic Republic of)	80,239

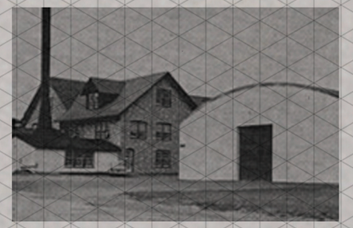


Chester County's 61 mushroom farms account for 47 percent of total U.S. mushroom production, according to Pennsylvania's Agricultural Development Council. This means over 400 million pounds of mushrooms valued at $365 million, with an overall contribution to the local economy of an estimated $2.7 billion.



Gathering cultivated common mushrooms









Chester County is a great example of the new food productions that are rising in the last century. A food production which not only requires less space for production ratio but also can bring a great revenue to the community.

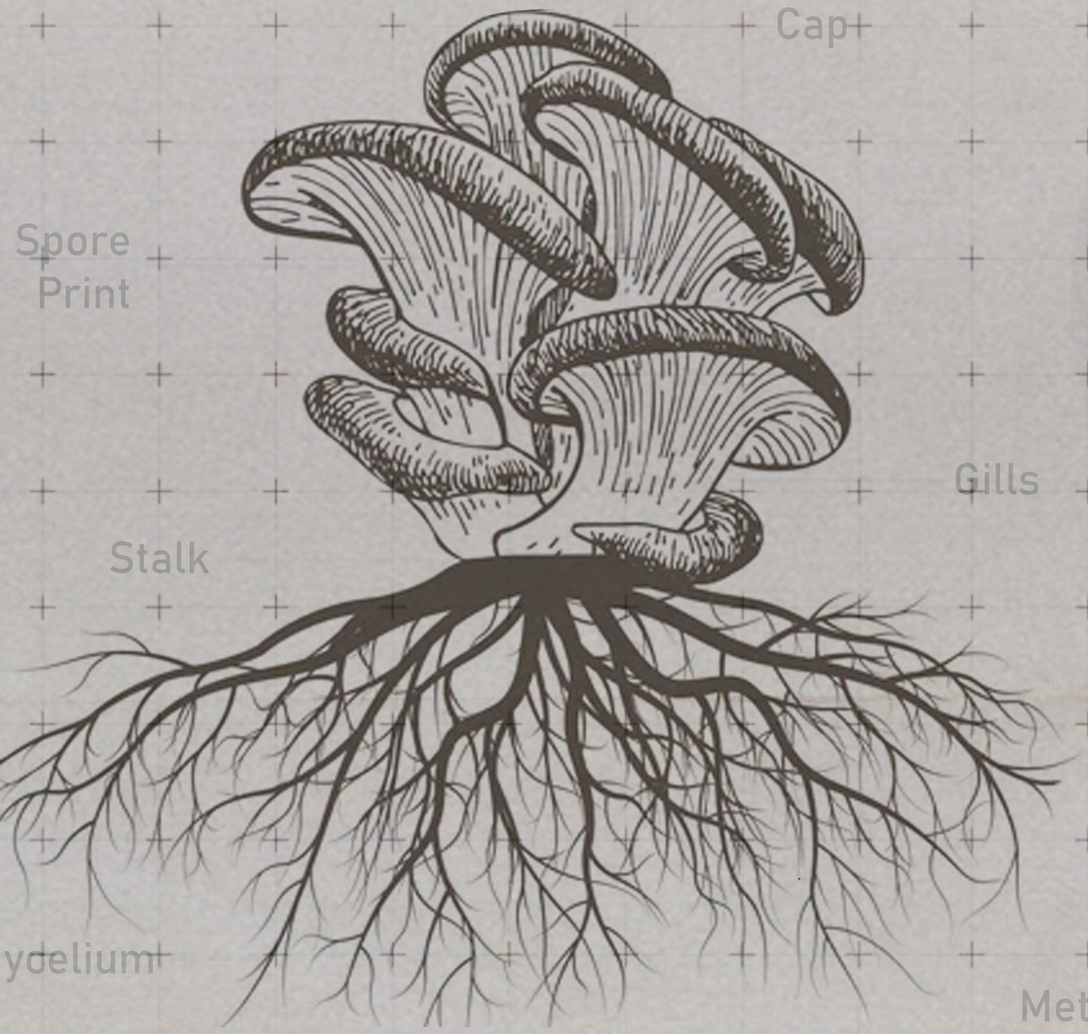
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Mushroom Capital of the World

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Food and Medicine



Animal feed



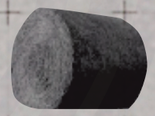
Agriculture Horticulture



Biochar Biofuel

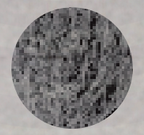


Mushroom Cultivation



Ligno-cellulosic biomass

Mushroom Substrates









This new industry will be separated in 3 cycles assuring that the mushrooms grown in Hilliards creek can be consumed by humans in the future

Metal uptake by hyphae

Metal complexes

Soil/bed components

Metals





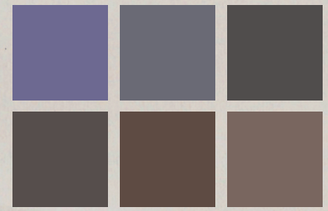
Mushrooms have great bio-absorption capabilities, several species such as the oyster mushroom have the ability to absorb soil pollutants such as lead.

It is possible to think of a new food production alternative that will bring a brighter future to Camden, one that not only brings revenue but also cleans the site.

FROM YOUR FRIENDLY SHERWIN-WILLIAMS PAINT DEALER

New circular economies

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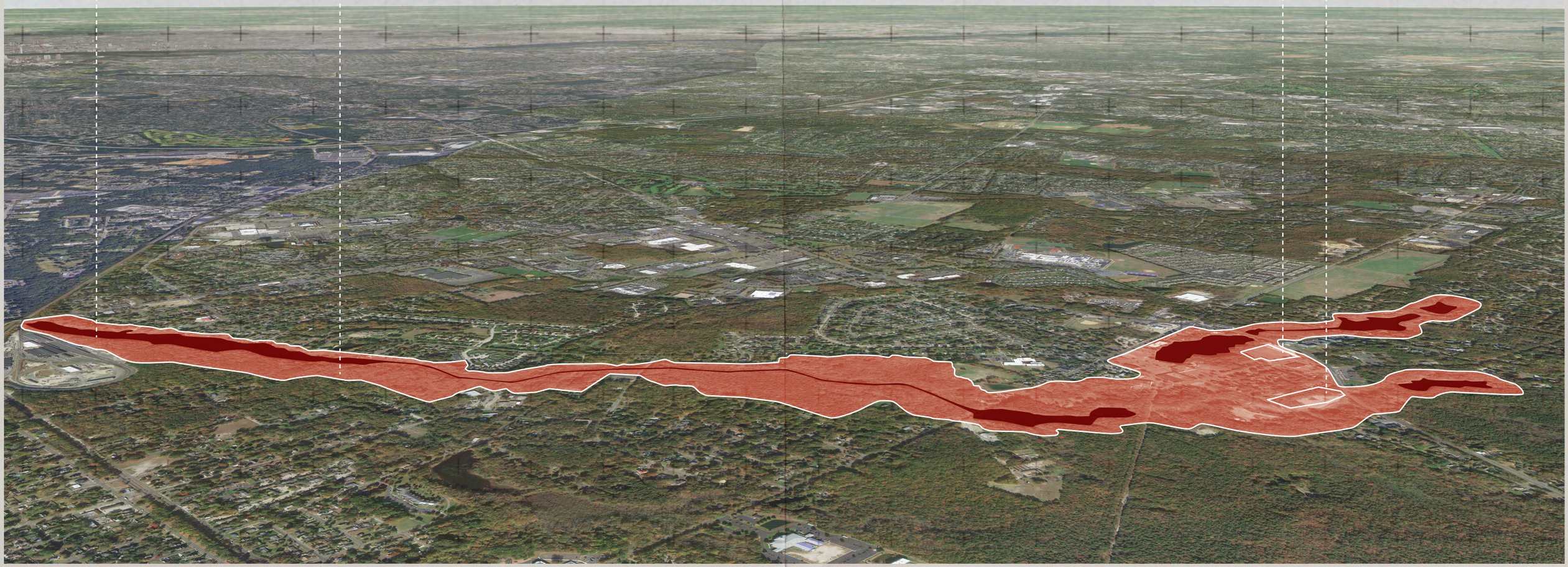












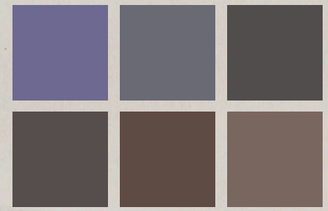
This new industry will be able to introduce a different type of landscape, one that will bring a new form of ecotourism to Camden.

The Hilliards creek landscape will be divided in stages and will also introduce new urban infrastructure such as new state of the art laboratories and responsible food production industries.

FROM YOUR FRIENDLY SHERWIN-WILLIAMS PAINT DEALER

Superfund Mushroom Industries

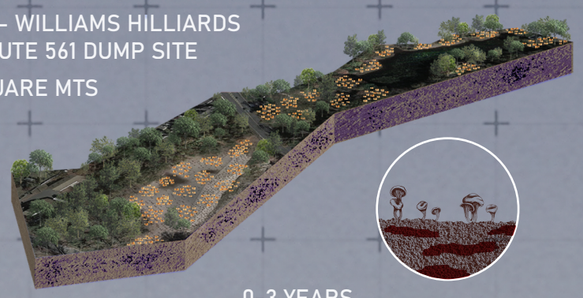
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INITIAL SITE:

SHERWIN - WILLIAMS HILLIARDS CREEK ROUTE 561 DUMP SITE

88,100 SQUARE MTS



0-3 YEARS

BIOCHAR PRODUCTION
AVERAGE PRICE: $9 PER M2

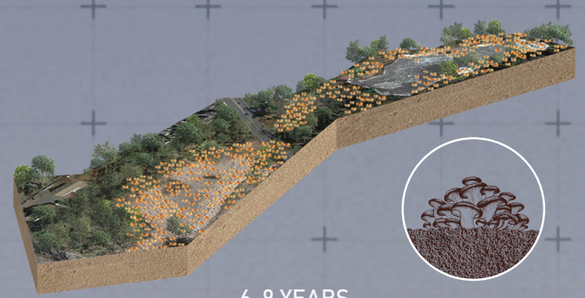
PRODUCTION VALUE IN 3 YEARS:
$2,378,700



3-6 YEARS

ANIMAL FOOD PRODUCTION
AVERAGE PRICE: $11 PER M2

PRODUCTION VALUE IN 3 YEARS:
$2,907,300



6-9 YEARS

FOOD PRODUCTION
AVERAGE PRICE: $15 PER M2

PRODUCTION VALUE IN 3 YEARS:
$3,964,500





There's a correlation between the soil pollution and the growth inhibition of the mushroom species.

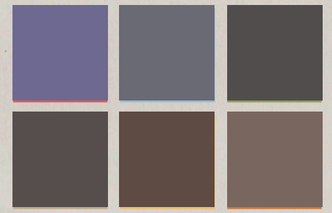
This will bring another layer to these new mushroom landscapes, one that will show the soil process of decontamination by perceiving the growth of the mushrooms. The same landscape will be showing you by itself how it is constantly remediating.

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Evolving landscapes

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Soil Farming area: 1,109,000 m2

Lake area: 208,000 m2

Infrastructure: 21,500 m2

1 m2 can produce 35 to 125 kg of mushrooms per year.

38,815,000 - 27,725,000 kg of mushrooms per year



Nutrition Facts

Serving Size 1 large 5g (148 g)
Servings per container 30

Amount Per Serving

Calories 64	Calories from Fat 5
	% Daily Value*
Total Fat 1g	1%
Saturated Fat 0g	0%
Trans Fat	
Cholesterol 0mg	0%
Sodium 27mg	1%
Total Carbohydrate 10g	3%
Dietary Fiber 3g	14%
Sugars 2g	
Protein 5g	

Vitamin A	1%	• Vitamin C	0%
Calcium	0%	• Iron	11%

*Percent Daily Values are based on a 2,000 calorie diet. Your daily values may be higher or lower depending on your calorie needs.

©www.NutritionData.com



COVER THE EARTH

FROM YOUR FRIENDLY SHERWIN-WILLIAMS PAINT DEALER

Better ECONOMY, Better SOIL, Better BODIES

Due to the nutritional facts of the oyster mushroom, this new industry will also bring a new healthier lifestyle to the citizens of New Jersey.

82 West Street

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COVER THE EARTH

It's time to embrace a new landscape that will change the life of Camden forever.

We need to repaint Hilliards creek, but this time we should do it with fungi.

FROM YOUR FRIENDLY SHERWIN-WILLIAMS PAINT DEALER

Re-painting Camden by fungi

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