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Plant and soil responses to hydrothermally converted sewage sludge (sewchar)

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The diagram illustrates a three-step process for creating soil amendment from biosolid. Step 1: Biosolid is subjected to hydrothermal carbonization, resulting in a dark, granular material. Step 2: This material is identified as 'SEWCHAR'. Step 3: The 'SEWCHAR' is used as a 'SOIL AMENDMENT', shown in pots with growing plants. The final 'RESULTS' are listed on the right.

BIO SOLID

**HYDROTHERMAL
CARBONIZATION**

SEWCHAR

USE

SOIL AMENDMENT

RESULTS

- Enriched nutrients in the soil
- Supplied nutrients to plants
- Dry biomass of bean equivalent to mineral fertilizer

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