Sewage Treatment in Iizuka City

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The location of Iizuka City

We are here
Overview of Iizuka City

Population
132,000

Area: 214.13km²
Sewage Management by Iizuka City

《Collective Treatment》 and 《Individual Treatment》

High density housing areas

Collective Treatment is more efficient

Low density housing areas

Individual Treatment is more efficient
Collective Treatment

- Public Sewage
- Farming village sewage
- Community Plants

Pumping Stations

Sewage Treatment Facilities
Public Sewage

- For relatively large areas
  - Treatment started: 1974～
  - Coverage/population: 43.8% (planned for 69.5%)

<Overview>

1 treatment plant
7 pumping stations
58,000 people covered

Final Treatment Plant ⇒
(Full view of the plant)
<Overview of Iizuka Final Treatment Plant>

Method: Standard Activated Sludge Method
Capacity: 30,000m³/day

↓ Sludge Processing Facility

Make compost from sludge
Collective treatment method used in rural and farming areas far from the sewage systems.

Started in 2001
Coverage/population 0.3% (planned for 1.5%)

Uchino District
Sewage Treatment Center

Capacity 211 m³/day
- A collective treatment method used in residential areas far from the sewer lines.

Started in 1981
Coverage/population: 0.8% (planned for 0.8%)

Uguisudai Residential District
Sewage Treatment Facility

Treatment Capacity 750m³/day
~Individual Treatment~

- **Individual Septic Tanks**

  Coverage/population: **27.3%** (planned for 28.2%)

  ⇒ Treated at household levels

Example of a septic tank set in a garage⇒

出典：環境省HP
## Treatment Methods in Iizuka City by ratio

<table>
<thead>
<tr>
<th></th>
<th>Current</th>
<th>Planned</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Sewage Systems</td>
<td>43.8%</td>
<td>69.5%</td>
</tr>
<tr>
<td>Septic Tanks</td>
<td>27.3%</td>
<td>1.5%</td>
</tr>
<tr>
<td>Pit Latrine</td>
<td>27.8%</td>
<td>0.8%</td>
</tr>
<tr>
<td>Farming Village Sewage</td>
<td>0.3%</td>
<td>0%</td>
</tr>
<tr>
<td>Community Plants</td>
<td>0.8%</td>
<td>0%</td>
</tr>
</tbody>
</table>

### Breakdown:

- **Current:**
  - Public Sewage Systems: 43.8%
  - Septic Tanks: 27.3%
  - Pit Latrine: 27.8%
  - Farming Village Sewage: 0.3%
  - Community Plants: 0.8%

- **Planned:**
  - Public Sewage Systems: 69.5%
  - Septic Tanks: 1.5%
  - Pit Latrine: 0.8%
  - Farming Village Sewage: 0%
  - Community Plants: 0%
<Legends>
- Public Sewage Systems
- Farming Village Sewage (●:in place)
- Community Plant(○:in place)
- Areas excluding above: Individual Septic Tanks

Iizuka City Sewage Treatment Plan
Selection of Treatment Methods

~The Case of Iizuka City~

☆ Collective Treatment or Individual Treatment?

Compare Cost of A and B by both initial set up cost and maintenance cost. Collective treatment will be done in areas where the total cost is less than B.

- If A is cheaper, Collective Treatment
- If B is cheaper, Individual Treatment

A: Cost to occur on Treatment facility and pipes
B: Cost on Septic Tank
△公共下水道か？その他の事業か？

日本では様々な事業制度があるが、本市において、最も有利な事業を選定。

＜検討事項＞
○事業要件
○事業費
○補助率
○補助対象範囲
…等

公共下水道
農業集落排水
コミュニティプラント
を選定。
PR Activities～
Water Environment Learning Opportunities
PR Activities〜Delivery Classes
Thank you for your attention

Iizuka City Waterworks and Sewage Bureau