



Environmental Challenge in Siem Reap Municipality

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1. The Situation of Solid Waste in Siem Reap City

- Private Company Collecting Solid Waste in Siem Reap City.
- Increasing of Solid Waste in Siem Reap by year to year.
- 380ton/day of solid waste in Siem Reap city.
- Private company can collected solid waste only 280ton/day (74%).
- Household dispose solid waste illegally 44ton/day (6%).



1. The Situation of Solid Waste in Siem Reap City (Cont.)



- Dumpsite in Siem Reap City is trash buried not landfill.
- Dumpsite in Siem Reap City is small and managed by the private company.
- Surrounding environment impact from current dumpsite, especially groundwater.
- Private company difficult to collect garbage fees from household.
- Private company cannot collect trash from all household (narrow way to access).

2. The Situation of Liquid Waste in Siem Reap City



- 01 Waste water treatment station (8,000m³/day).
- 03 of Waste water pumping stations (56,386m³/day).
- Size of waste water in 4 sangkats/12 sangkats 1,083 ha (25%).
- The main sewer pipe (150mm-700mm) is 21,761m.
- Storm drainage pipe is 43,213m.

2. The Situation of Liquid Waste in Siem Reap City (Cont.)



- The main town center drainage (5m*2m) is 10,030m.
- Rain water canal 17,537m.
- People in the service area 62,536people/250,798people.

3. Solid and Liquid Waste Management Challenges in Siem Reap City

- No high tech landfill (currently use small dumpsite).
- Environment impact from current dumpsite.
- Law and regulations on solid and liquid waste management not yet support fully.
- Private company collect garbage fees (no authority for fees collection).
- Private company cannot collect all garbage from household timely.
- Some household still burning garbage (air pollution).
- Public awareness about solid waste management is limited.
- Private company cannot separate dangerous waste (medical and electric waste) and dispose in the same dump with normal waste.
- No compost center to reduce organic waste at dumpsite.

3. Solid and Liquid Waste Management Challenges in Siem Reap City (Cont.)

- Size of waste water treatment still small (25%).
- No sub-sewer pipe connect to the main sewer pipe.
- Waste water still pumping to the siem reap river.
- Limited of public awareness about maintenance drainage and canal.
- The discharge of waste water from household restaurants hotels guesthouses.

4. Solution for Solid and Liquid Waste Management in Siem Reap City

- Publish for public awareness on recycling.
- Invest on establishment compost center.
- Invest on high tech to convert solid waste to energy.
- Replace current dumpsite to landfill.
- Invest on establishment recycle electric waste center and medical waste incinerator.
- Role of public authority to collect garbage fees and control the landfill.
- Construct the sub-sewer pipe connect to the main sewer pipe.
- Construct the waste water pipe avoid pumping waste water to the siem reap river.
- Restore storm drainage pipe and rain water canal.
- Implementation law and regulations on solid and liquid waste management strictly.
- Invest on smart waste management for Siem reap City.

Thanks you