THE SAN FRANCISCO INTEGRATED SOLID WASTE MANAGEMENT PROGRAM (SWMP)

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BRIEF PROFILE OF OUR MUNICIPALITY

- **3rd Class Municipality**
  - Land Area: 10,597 hectares
- **Number of Barangay**
  - 15
- **Population**
  - 47,357
- **Total No. of H.H.**
  - 9,554
The accumulation of waste has been a constant problem in the country due to the following:

a. Over-increasing population
b. Urbanization and economic growth all contribute to the increase in solid waste generation.
SOLID WASTE GENERATION OF THE MUNICIPALITY

- **Waste Generation kg/day**: 13 Tpd
- **Biodegradable**: 7 Tpd
- **Recyclable**: 2 Tpd
- **Residuals**: 3.7 Tpd
- **Special Waste**: 0.3 Tpd

**Per Capita Waste Generation**: 0.22 kg/day
HOW MUNICIPALITY ADDRESS THIS?

WHAT WE DID?

The local government unit established a clear structure to run the SWM program of the municipality and allocate budget:

FOUR IMPORTANT THINGS:

• SWM Office
• Plan
• Budget Allocation
• System
KEY ACTORS:

* Establishment of SWM Office
* Solid Waste Management Board
* Solid Waste Management Technical Working Group
* Barangay Ecological Solid Waste Mgt. Committee
* Purok System
Sanfran SWM Operation
Grassroot SWM management thru: Sanfran System
Educate people in grassroot level
2. Integrate it in Schools
(Tertiary, Secondary and Elementary)
SCHOOL COMPOSTING DEMO.
3. Tapping BESWMC as key partners in the implementation
Distribution of Educational Materials such as leaflets & brochures
SOLID WASTE MANAGEMENT PROGRAM
San Francisco, Cebu

GUINANDI ang paglabay sa bisan unsang klasa sa basura sa mga publikong lugar.
ORDINANCE NO. "013 - 2003"
KASTIGO UG MULTA SA KALAPASAN:
UNA ........ WARNING / PAHIMANGKO
IKADUA ....... MULTA UG P 150.00
IKATULO ....... MULTA UG P 300.00
DURA KA ADLAW NGA SERBIRO SA PAGLIMPIYO SA MGA PUBLIKO NGA LUGAR.
KAUPAT MULTA SA P 2,500.00 UG
DILI MUBILO SA P 500.00
PAHANTANGAN UG KASO SA KORTE UG KINAHANGLAN. LAKIP NA SA MGA MOSUNOD PA NGA KALAPASAN.

SAN FRANCISCO CAMOTES

SOLID WASTE MANAGEMENT PROGRAM

MABINLO NGA NATARAN
TIMAILHAN SA USA KA DESIPLANADONG KATILINGBAN

SOLID WASTE SHALL BE SEGREGATED INTO THE FOLLOWING CATEGORIES:
COMPOSTABLE
NON-RECYCLABLE
RECYCLABLE
SPECIAL WASTE AND
ANY OTHER CLASSIFICATION

R.A. 9003
PROHIBITS OPEN BURNING OF SOLID WASTES
THE FOLLOWING CASES OR ACTIONS MAY BE FILED.
CIVIL CRIMINAL ADMINISTRATIVE

MRF ➔
4. Established a Strong ENFORCEMENT SYSTEM & MONITORING STRATEGIES
The SWM enforcer checked the garbage in the household one hour before arrival of the garbage truck to insure the solid wastes are properly segregated.

Garbage inspections
GARBAGE HOLDING STATION inspection
HOUSE TO HOUSE MONITORING
Set penalties to the VIOLATORS

- SWM Officer called the attention of solid waste violators at the barangay hall for there penalties / community services resulting the house to house monitoring of the enforcers.
RENDERED COMMUNITY SERVICE
The fine or penalty imposed under the Ordinance must be settled by the violator within three (3) days from issuance of the citation ticket otherwise a surcharge of 25% shall be imposed.
Reporting system and feed backing OF THE ENFORCERS
Creation of Sanfran Law Enforcement Group (SALEG)
GARBAGE COLLECTION & SYSTEM FOR OPERATION
Garbage Collection

- Daily for the poblacion area
- Weekly for the rural barangay’s
- No Segregation No Collection is the policy

Garbage Truck
GARBAGE BIN IN THE PUBLIC PLACES
Color Coded Receptacle Bins

- Green – for biodegradable wastes

- Yellow – for residuals/special waste

- Blue – for recyclable/reusable waste
HOUSEHOLD SEGREGATION
PUROK GARBAGE PICK UP STATION
BARANGAY MRF
SECONDARY SCHOOL MRF
CENTRAL MRF
(Material Recovery Facility)
VERMI CULTURE & COMPOSTING FACILITY
Composting

• The windrow composting processes by using bamboo gas ventilation.

• Windrow Composting

Do you want to know how to do VERMICOMPOSTING?

Still Matting Composting
The shredder machine can shred about 3 cubic meter bio waste per day, we utilize the compost in propagating ornamental plants, farming, gardening.
BIODEGRADABLE WASTE AT THE CENTRAL MATERIAL RECOVERY FACILITY
SEPTIC VAULT

MUNICIPALITY OF SAN FRANCISCO
PROVINCE OF CEBU

THIS COMMUNITY SEPTIC VAULT IS ASSISTED BY:

Plan
Be a part of it.
MRF Garbage Operation Flow Chart

- Waste Generation
- Garbage Collection at Source
- Garbage Inspection Area
- Recording
- Storage
- Residuals
- Manual Weighing of Residuals & Recyclables
- Shredding
- Compost Processing
- Shifting
- Gardening
- Junkshop
- Marketing
  - Hollow block & Pillow Making
- Bio Waste
- Recyclables
  - Packaging
  - Shifting
- Sanitary Landfill
  - Drying
  - Washing
- Recyclables
  - Packaging
- Residuals
  - Shredding
- Bio Waste
  - Shredding
- Compost Processing
- Shifting
- Gardening
  - Junkshop
  - Marketing
DIVERSION
RESULTS AND OUTCOMES OF OUR INITIATIVES

Diversion of residual waste’s into a product

• Pillowmaking shredded plastic cellophane as raw materials inside.
Diversion technology

• A diversion technology of residual waste, a shredder machine for plastic cellophane and oven for melting shredded plastic cellophane for making tiles
Paver block with mixed shredded PLASTIC CELLOPHANE
Washing & Drying Area of shredded plastic cellophane
AGRICULTURE AND LIVELIHOOD
DISPOSAL
Controlled Dumpsite of the Municipality of San Francisco
San Fran Ecological Park
THANK YOU