

COMPREHENSIVE INTEGRATED SOLID WASTE
MANAGEMENT PLAN FOR THE COMMONWEALTH
OF THE NORTHERN MARIANA ISLANDS



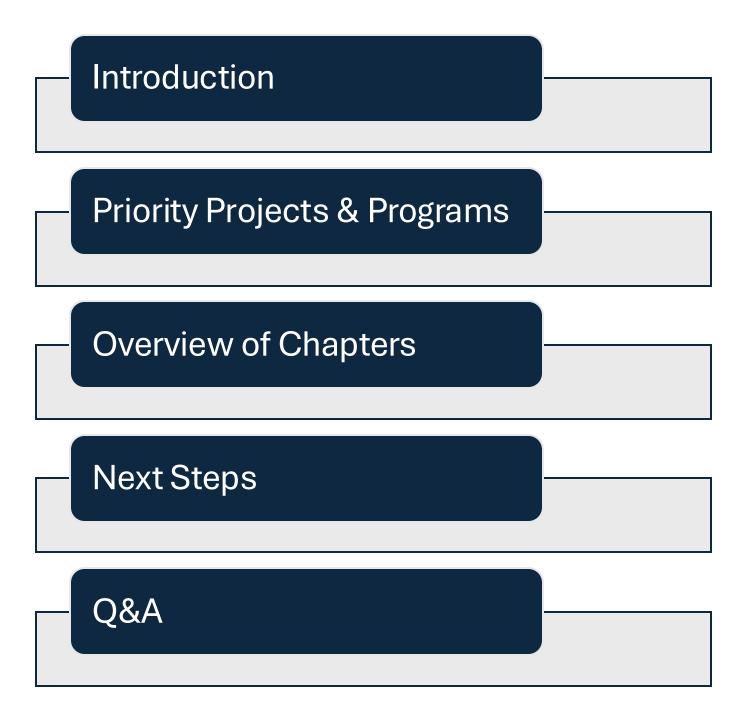






Public Hearing

Agenda



INTRODUCTION



Inter-Island Solid Waste Management Taskforce (ISWMT)



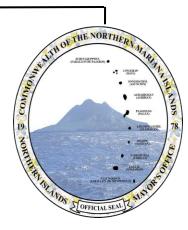












Goal: Divert 50% of waste by 2030





Additional Supplementary **Appropriations for** Disaster Relief Act







- Complete field survey, biological assessment, & informal Environmental Species Act (ESA) Section 7 consultation for land clearing of Cell 3
- Initiate construction of Cell 3
- Hire & train personnel



PUNTAN DIABLO DUMP

- Close Dump
- Design, permit, & construct Small Community Exempt Landfill (SCEL)
- Procure equipment
- Hire & train personnel



TATACHOK DUMP

- Close Dump
- Design, permit, & construct Small Community Exempt Landfill (SCEL)
- Procure equipment
- Hire & train personnel



NORTHERN ISLANDS

- Identify potential site & contingency site for Small Community Exempt Landfill (SCEL)
- Assess site
 - If designated site does not meet requirements, assess contingency site for potential SCEL

CNMI-WIDE PROGRAMS

- Developing & updating landfill disposal fees
- Increasing recycling & composting rates
- Developing & implementing Advanced Disposal Fee (ADF) Program
- Updating policies
- Enhance public education & outreach



ASADRA Priorities

Marpi Landfill

- Complete field survey, biological assessment, & informal ESA Section 7 consultation for land clearing of Cell 3
- Initiate construction of Cell 3
- Hire & train personnel

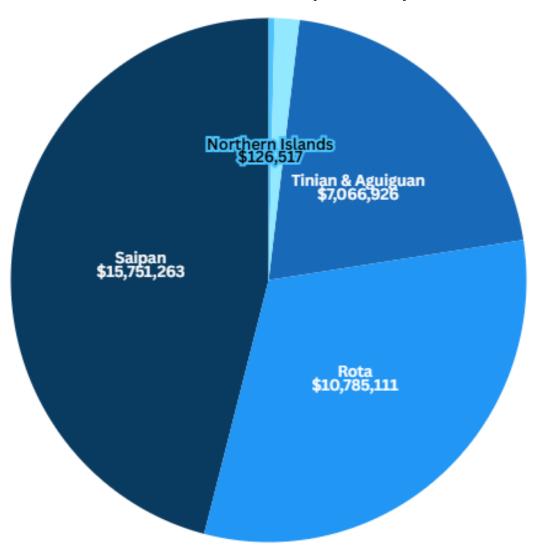
Puntan Diablo Dump

- Close Dump
- Design, permit, & construct SCEL
- Procure equipment
- Hire & train personnel

Tatachok Dump

- Close Dump
- Design, permit, & construct SCEL
- Procure equipment
- Hire & train personnel
- Northern Islands Site Assessment
- CNMI-wide Programs

Estimated Costs (Inflated)



Solid Waste nfrastructure For Recycling Grant Program



SAIPAN

- Cardboard Shredder
 - Includes supply, delivery, commission, testing, & utility hook-ups



TINIAN & AGUIGUAN

Baler

 Includes supply, delivery, commission, testing, & utility hook-ups



ROTA

Baler

 Includes supply, delivery, commission, & testing

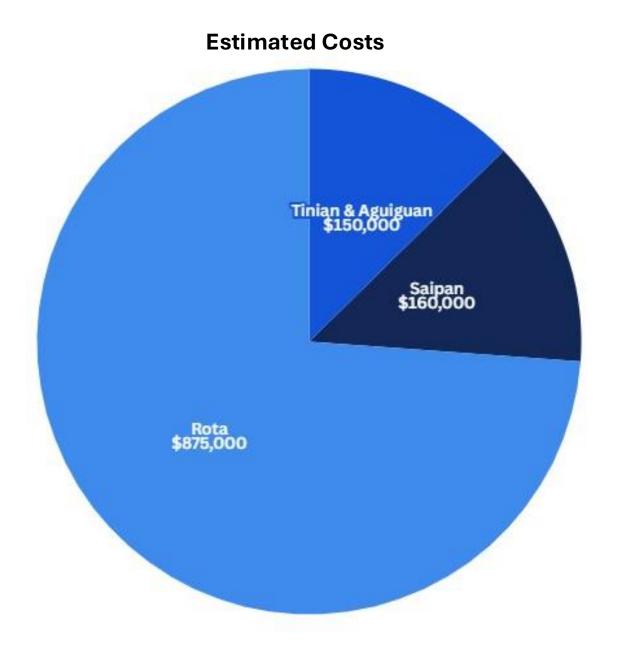
Baler building

- Site assessment & design
- Construction & CM
 - Includes utility hook-ups



SWIFR Priorities

- Saipan
 - Cardboard shredder
- Tinian & Aguiguan
 - Baler
- Rota
 - Baler (~\$150K)
 - Baler building (~\$725K)
 - Site assessment & design (~\$150K)
 - Construction & CM (~\$575K)
 - Includes electrical, water, & utility hook-ups



Other Funding Sources

Saipan



Marpi Landfill

Procure equipment

Design & install Solar PV

& BESS, and back-up
generator

Hire/designate & train personnel



Kagman Organics Processing Site

Procure equipment
Hire & train personnel
Assess, design, permit, &
construct site



LBRTS & MRF

Rehabilitation
Procure equipment
Prepare & ship
commodities
(backlogged materials)

Identify contractor for recycling/materials recovery operations



As Gonno CCC

Construct with required furnishings
Hire & train personnel



Kagman CCC

Construct with required furnishings
Hire & train personnel



Hardfill

Conduct feasibility study

Tinian & Aguiguan



Green Waste & Composting Facility

Procure equipment
Initiate site improvements
Designate & train personnel
Conduct feasibility study for
composting & biogas production



Tinian Recycling Center

Construct storage facility for recyclables

Construct metal processing facility

Procure equipment



Atgidon Landfill

Review previous design
Project assessment
Design & construction
Procure equipment



Hardfill

Conduct feasibility study

Rota



Tatachok SCEL

Procure additional equipment



Metal Processing Facility

Hire & train personnel



Green Waste & Composting Facility

Initiate site improvements

Procure equipment

Hire & train personnel



Environmental Education Center

Sewerage & septic system (labor & materials) incl. percolation test Permit & construct

Procure equipment

Hire & train personnel



CCC

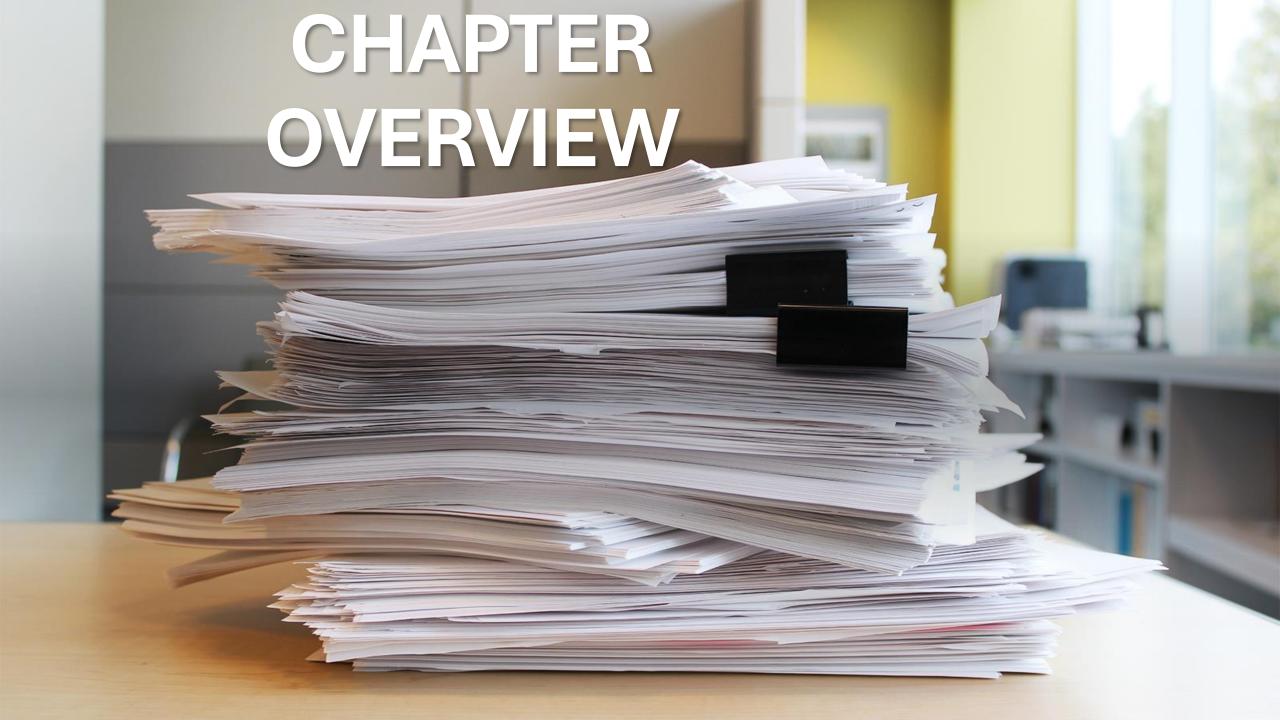
Design, permit, & construct
Procure equipment
Hire & train personnel

Northern Islands



SCEL

Design, permit, & construct
Procure equipment
Designate & train personnel



Ch. 1: Executive Summary

Vision and Mission

Goals & Objectives

- Waste Reduction/Diversion
- Collection & Transport
- Disposal
- Management
- Public Outreach and Education
- Waste Generation

Lead Agencies/Departments

Planned Project – Next Five Years

Capital & Operational Improvement Priority Projects

- ASADRA priority projects & programs
- Inflated cost estimates
- Timeline

Inflated Cost Estimates

	FY 20)26	FY 20	027	FY 20	028	FY 20)29	FY 20				
	Equipment/ Land Acquisition/ Contracted Services	O&M and Labor	Equipment/ Land Acquisition/ Contracted Services		Equipment/ Land Acquisition/ Contracted Services	O&M and Labor	Equipment/ Land Acquisition/ Contracted Services	O&M and Labor	Equipment/ Land Acquisition/ Contracted Services	O&M and Labor	Total		
CNMI-Wide	\$ 171,666	\$ -	\$ 176,833	\$ -	\$ 182,166	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 530,665		
Saipan	\$ 4,935,931	\$103,195	\$5,057,433	\$106,300	\$5,209,966	\$109,506	\$ -	\$112,813	\$ -	\$116,119	\$15,751,263		
Tinian	\$ 2,508,050	\$237,851	\$ 787,792	\$245,010	\$ 811,552	\$252,399	\$ 836,055	\$260,020	\$ 860,557	\$267,640	\$ 7,066,926		
Rota	\$ 4,271,487	\$237,851	\$1,698,475	\$245,010	\$1,749,701	\$252,399	\$1,802,528	\$260,020	\$ -	\$267,640	\$10,785,111		
Northern Islands	\$ 20,600	\$ -	\$ 21,220	\$ -	\$ 21,860	\$ -	\$ 22,520	\$ 8,445	\$ 23,180	\$ 8,692	\$ 126,517		
Yearly Total Estimates (with inflation) Yearly Total Estimates combined (with inflation)	\$11,907,734 \$	\$578,897 12,486,631	\$7,741,753 \$	\$596,320 8,338,073	\$7,975,245 \$	\$614,304 8,589,549	\$2,661,103 \$	\$641,298 3,302,401	\$ 883,737	\$660,091 1,543,828	\$34,260,482		

Timeline

			Estimated Duration (Months)																			
Island Site		Project	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60
Saipan	Marpi Landfill	Complete Field Survey, Biological Assessment, & Informal ESA Section 7 Consultation for Land Clearing of Cell 3 Initiate Construction of Cell 3																				
		Hire & Train Personnel																				
Tinian Puntan Diablo		Design, Permitting, & Construction																				
		Procure Equipment																				
		Hire & Train Personnel																				
Rota Tatachok Disposal Site		Assessment, Design, Permitting, & Construction																				
		Procure Equipment																				
	Hire & Train Personnel																					
NI	Pagan SCEL	Assessment																				

Ch. 2: Introduction

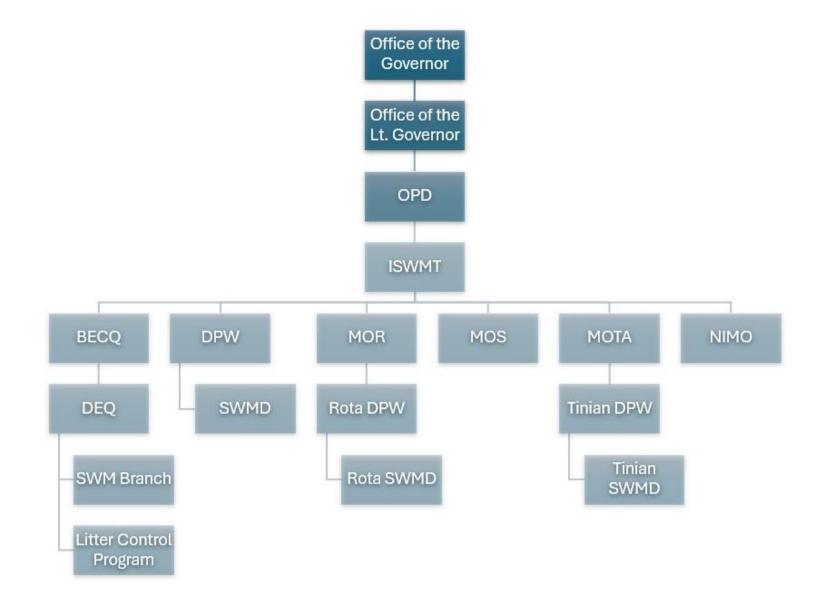
Demographics

Plan Purpose

- Environmental Protection
- Public Health
- Regulatory Compliance
- Economic Efficiency

Plan Objectives

Implementing Agencies



Ch. 3: Existing SWM System

Regulatory and Oversight System for Solid Waste

- BECQ DEQ Solid Waste Management Branch
- BECQ DEQ Litter Control Program
- Advanced Disposal Fee (ADF) Program

Ch. 3: Existing SWM System

Infrastructure, Collection Methods, & Disposal Facilities

Saipan

- Lower Base Refuse Transfer Station (LBRTS) & Material Recovery Facility (MRF)
- Marpi Landfill
- Kagman Organics Processing Facility
- Port Facilities

Tinian & Aguiguan

- Tinian Recycling Center
- Puntan Diablo Dump
- Green Waste & Composting Facility
- U.S. DoD Solid Waste Management Projects

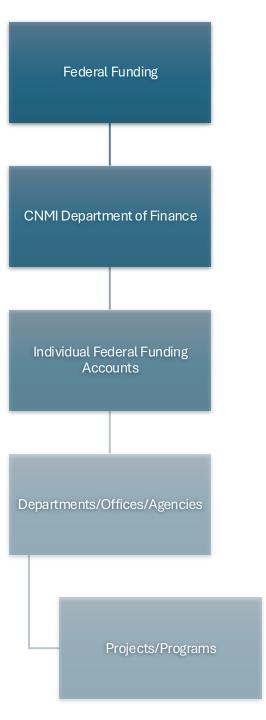
Rota

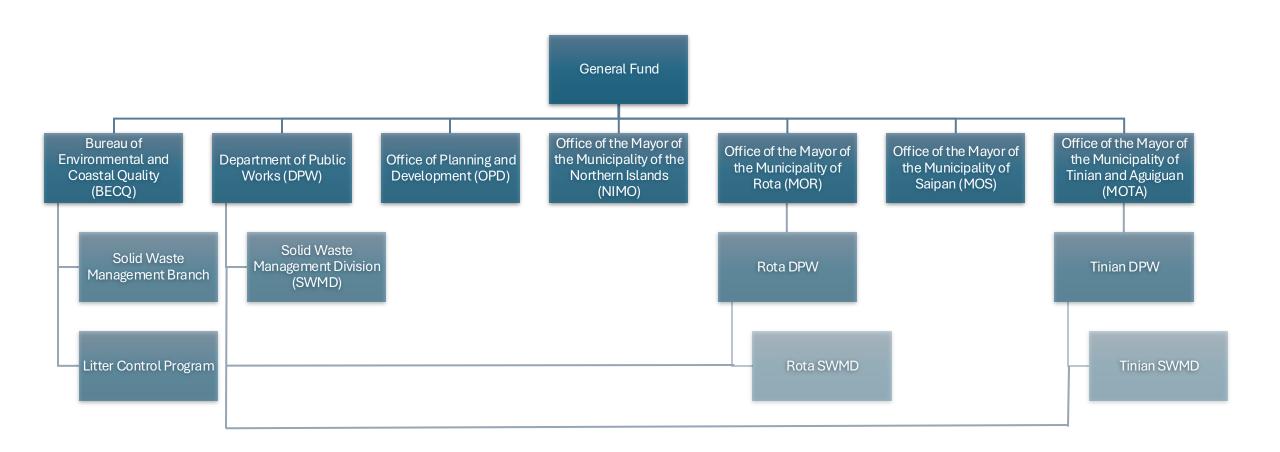
- Tatachok Dump
- Green Waste & Composting Facility

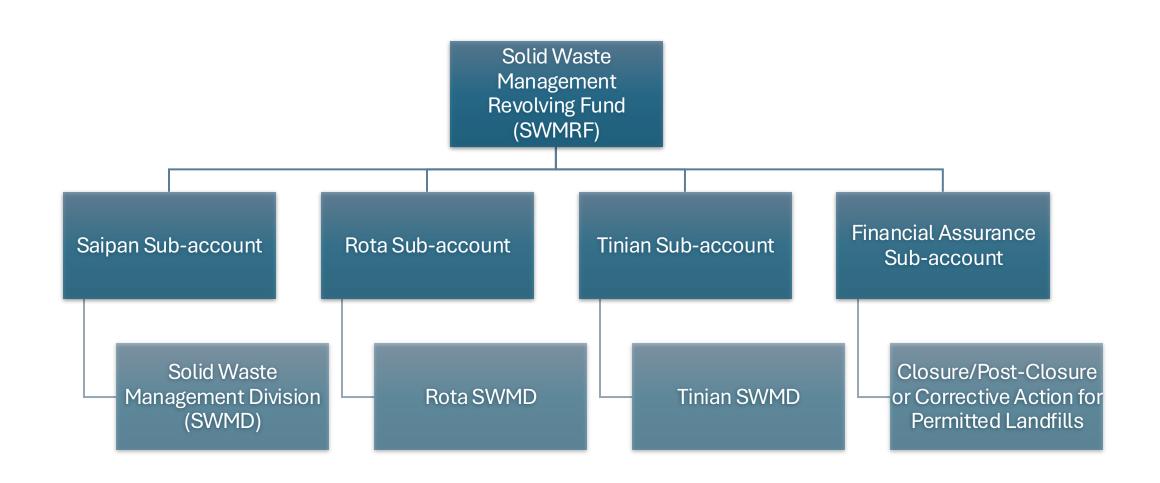
Northern Islands

- Pagan
- Alamagan
- Agrihan

Financial Management





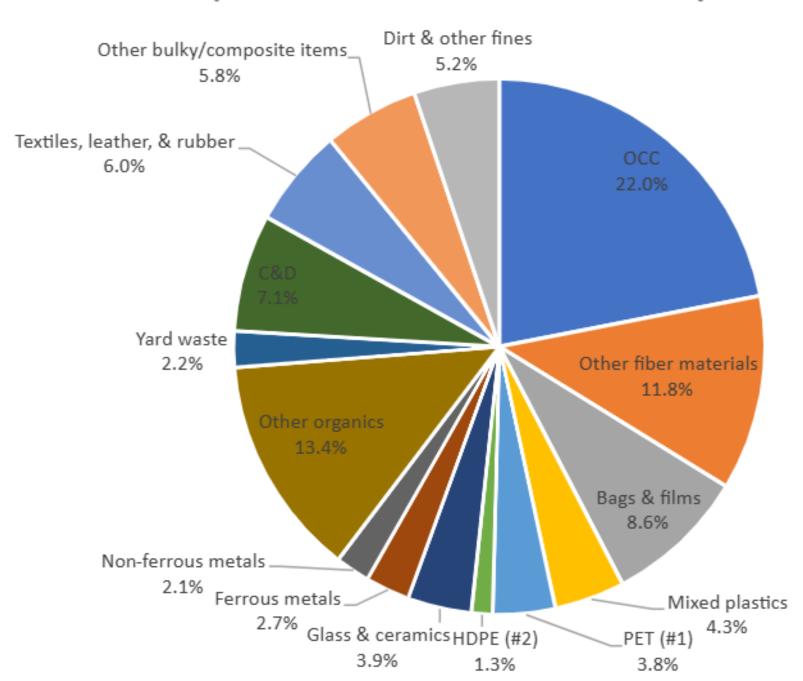


Ch. 4: Waste Streams Composition & Data

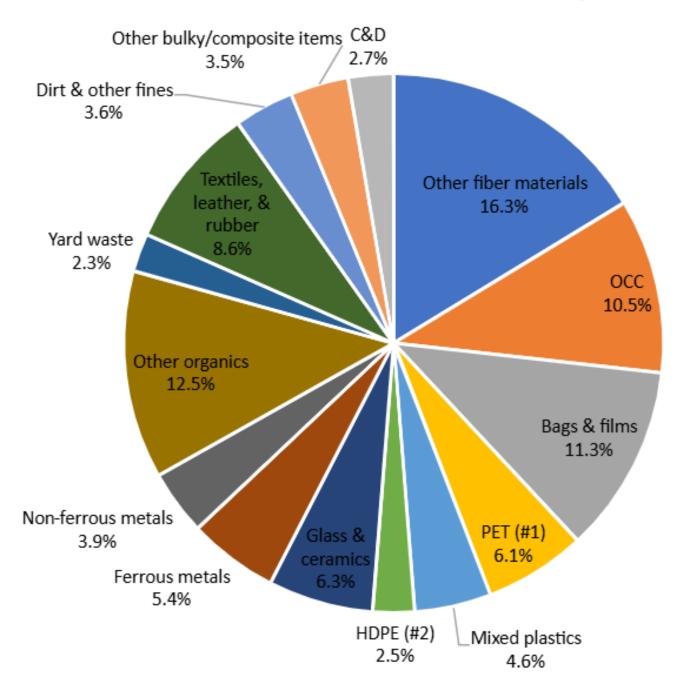
Waste Characterization Study

- 15 different material categories
 - Fiber: Cardboard, paper products, & etc.
 - Plastic: Plastic bottles, Plastic bags, & etc.
 - Glass: Glass bottles, ceramics, & etc.
 - Metals: Ferrous and non-ferrous
 - Organics: Green waste, food, wood, & etc.
 - Other: Construction & demolition (C&D) debris, furniture, household appliances, electronic waste (ewaste), & etc.

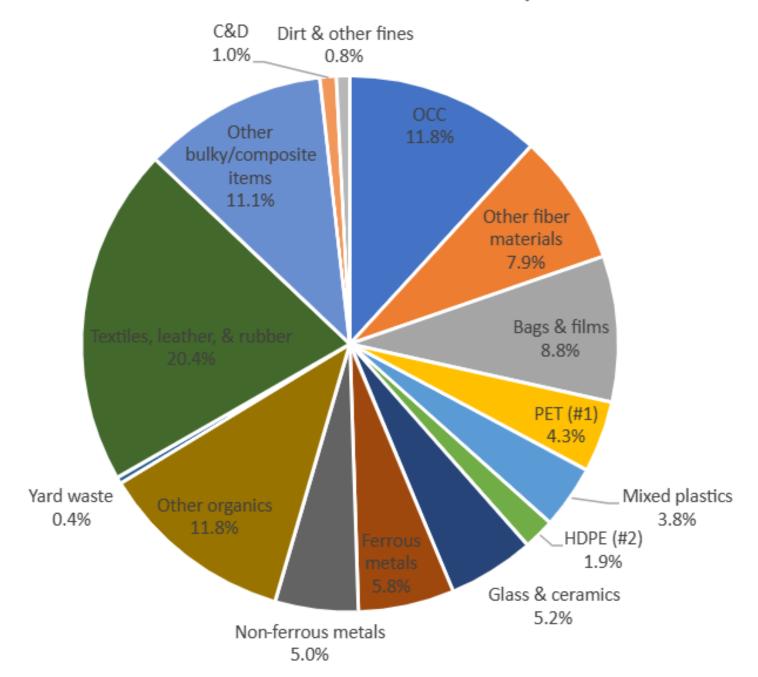
Saipan Waste Characterization Study Results



Tinian Waste Characterization Study Results



Rota Waste Characterization Study Results



Ch. 4: Waste Streams Composition & Data

Projections (in tons per year, or TPY)

Saipan	30,044
Tinian & Aguiguan	683
Rota	639
Northern Islands	2.4

Ch. 5: Solid Waste Management Goals & Objectives

Goals

- To protect the environment and human health;
- To enhance the efficiency and economic management of the CNMI's waste collection and disposal processes;
- To emphasize sustainable practices, public engagement, and regulatory compliance throughout the CNMI; and
- To establish a resilient solid waste management infrastructure tailored to the unique needs of the CNMI.

Ch. 5: Solid Waste Management Goals & Objectives

Objectives

- Collection & Transport
- Waste Reduction/Diversion
- Disposal
- Management
- Public Education & Outreach (PE&O)
- Waste Generation

Ch. 6: Collection & Transport

Ensure Regulatory Compliance

- Environmental Regulations
- Residential, Commercial, and Government Waste
- Development Opportunities
 - Tipping fees
 - ADF Program
- Improvements
 - Environmental Beautification
 Tax
 - Capacity building

Diversion Activities

- Saipan
 - Residential & commercial waste segregation
 - Rehabilitating LBRTS & MRF
 - Processing backlogged recyclable materials
 - Citizens Convenience Centers (CCCs)
 - As Gonno
 - Kagman
 - Hardfill
 - Kagman Organics Processing Facility

Diversion Activities

- Tinian
 - Enhanced PE&O
 - Landfill disposal bans
 - Storage facility for recyclable materials
 - Composting & mulching
 - Feasibility study for composting & biogas production
 - CNMI-wide plastic bag ban
 - Tinian Zero Waste Plan

Diversion Activities

- Rota
 - Curbside garbage collection program
 - Na'Gatbo Luta waste separation program
 - Zero waste management plan
 - Green waste reintegration program

Create local green job opportunities

Engage & educate community members on proper waste reduction/diversion practices

Ch. 8: Disposal

Address illegal dumping

- Improve existing landfill operations
- Upgrade open dumps to engineered landfills
 - Close smaller open dumps
- Implement landfill disposal bans
 - Phased-in approach for each waste stream
 - Consider input from community sectors
- Emphasize sustainable practices, public engagement, & regulatory compliance
- Establish resilient solid waste management infrastructure tailored to the unique needs of the CNMI

Ch. 9: Management

Promote environmental stewardship

- Ensure adequate staffing levels
- Provide ongoing training for personnel
- Establish a system for regular assessment & improvement of waste management practices

Ch. 10: Public Outreach & Education

Develop & implement a comprehensive outreach & education program

- Create opportunities for community participation in waste management decision-making processes
- Increase public awareness of acceptable waste management practices
- Encourage opportunities for community participation in waste reduction & recycling activities
- Encourage community participation in monitoring & reporting illegal dumping
- Timeline & Desired outcomes

Ch. 11: Waste Generation & Diversion Measurement

Develop, understand, & implement protocols and logistics for measuring the CNMI's recycling rate

- Procure new scales for SWMFs
 - Helps with ADF program
- Work with BECQ to obtain data from public & private operators
 - Reused materials
 - Recycled materials
 - Organic waste (e.g., food waste, yard waste)

Ch. 12: Emerging Wastes

Managing Lithium-ion batteries

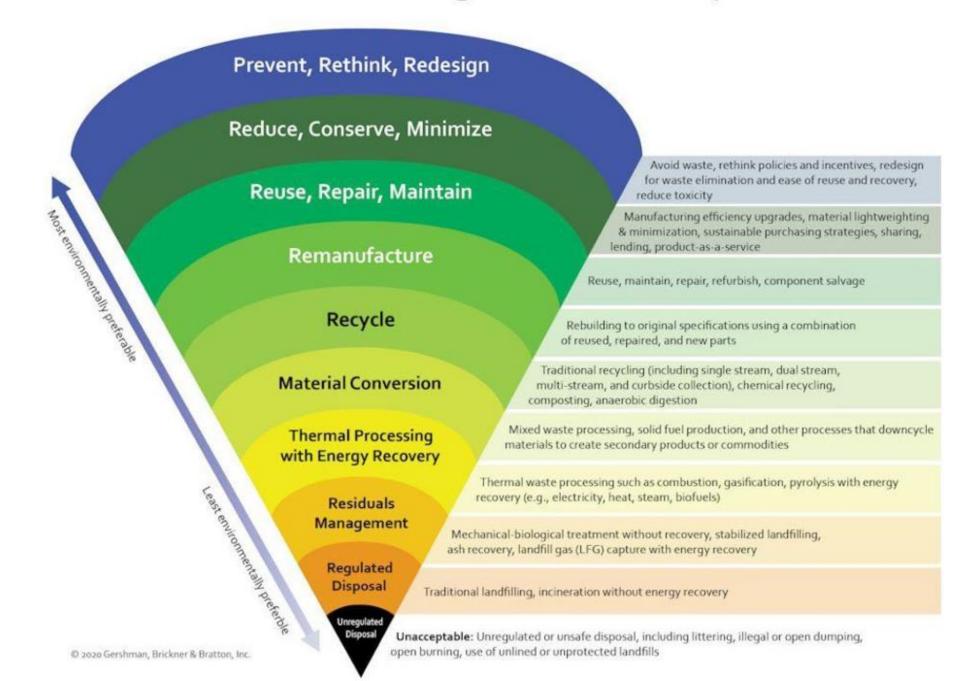
- Background
- Resources
- Emergency response operations
 & tactics
- Identification
- De-energizing, air monitoring, & site cleanup
- Transport & disposal
- Environmental protection
- Public education & outreach

Ch. 13: Getting to Zero Waste

Zero Waste Definition

"The conservation of all resources by means of responsible production, consumption, reuse, and recovery of products, packaging and materials without burning and with no discharges to land, water, or air that threaten the environment or human health"

Sustainable Materials Management Hierarchy



Ch. 13: Getting to Zero Waste

Zero Waste Policies & Bans

- Implement mandatory material recovery
- Implement bans on single-use plastic items
- Implement government green & sustainable purchasing policy
- Tax incentives & Preferred purchasing policies
- Awards & competition programs
- Zero waste training

Ch. 13: Getting to Zero Waste

Tinian Zero Waste Plan

- Goal: Divert/reduce top waste streams
 - \$3.9M short-term (1-3 yrs)
 - \$1.3M mid-term (4-5 yrs)
 - \$3.6M long-term (6-10 yrs)
- Foundational elements
 - Strong governance
 - Sustainable funding
 - Public education & outreach
 - Monitoring, measuring, & reporting
 - Infrastructure development

Ch. 14: Recommendations

CNMI-Wide

- Financial Management
 - Establish a solid waste authority
 - Funding
 - Use full-cost accounting principles for management
 - Setting comprehensive, equitable rates
 - Restore the excise tax set aside
 - Establish appropriate reserves
 - Collection service
 - Leverage public-private partnerships (PPPs)
- General Infrastructure
- Alternative waste diversion programs
- Summary of priority list recommendations

Ch. 14: Recommendations

Island-Specific

- Business tax rates
- Potential exemptions & incentives requiring statutory intervention
 - Export exemption
 - Nonprofit organizations
 - Free trade zone
- Size-based considerations

A nominal SWPF that funds waste reduction programs & facility access; a competitive fee for collection is stable & equitable

service that reduces

Convenient curbside litter and dumping at a stable and stable price

New and expanded programs and materials to reduce waste at LBTS that are convenient and even a little fun







A solid waste authority that is isolated from politics and prioritizes conservation of LF space

Ch. 15: Measuring Success

- Waste diversion evaluation
- Facilities development & outreach
- Short- to mid-term benchmarks
- Revisions at least every 3 yrs

Ch. 16: Potential Funding Sources

- SWIFR Grant Program
- Consumer Recycling
 Education and Outreach Grant
 Program
- Pollution Prevention Grants
- Other Federal & Private Funding Sources

Appendices

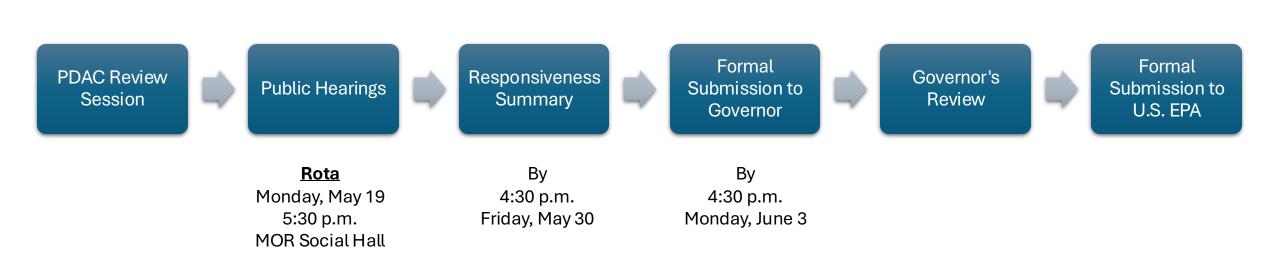
- A: CNMI-Specific Tax
 Information & Incentives for Recycling Companies
- B: Pending Projects
- C: Permitted Facilities
- D: Open Dump Inventory
- E: ISWMT Directory

Closing

- Glossary
- References



Next Steps



Saipan & Northern Islands

TinianWednesday, May 21
6 p.m.
Tinian Public Library

Thursday, May 22 6 p.m. AMP Museum Theater



Public comments are due by 11:59 p.m. on Sunday, May 25, 2025 CHST

via

CISWMP Info Hub

opd.gov.mp/ciswmp.html

or



Email OPD Communications Specialist Joshua Santos

jg.santos@cnmi.gov







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