

INTEGRATED SOLID WASTE MANAGEMENT PROGRAM

Construction and Demolition Debris Management



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INTEGRATED SOLID WASTE MANAGEMENT PROGRAM

- **Uses RCRA to define non-hazardous solid waste**
- **Establishes management standards**
 - **“Disposal as a last resort”**
- **Develops and implements policies**
- **Executes operations for:**
 - **Construction and Demolition Debris Diversion**
 - **Non-Industrial Recycling**
 - **Military Industrial Waste Management and Recycling**
 - **Municipal Refuse Hauling Contracts**
 - **Disaster Debris Management**



CONSTRUCTION & DEMOLITION DEBRIS MANAGEMENT

- **California Assembly Bill 939**
- **Local landfill scheduled to close in 2012**
 - **Estimated annual \$8M increase in disposal costs**
- **CNRSWINST 11350.1A**
 - **Requires a solid waste management plan be submitted during planning phase of projects**
 - **Requires on-site source separation**
 - **Requires 50% diversion from landfill**
- **Metrics for specific reporting requirements**
- **Diverted 320,000 tons of material away from the landfill in the last three years, saving an estimated 1.2 million cubic yards of landfill space and approximately 30,000 truck trips to the landfill.**



ISWMP OCP OVERVIEW

- **Technology to streamline ISWMP business line management**
 - Data-sharing, web-base program management
 - Manages data per construction or demolition project
- **Calculates solid waste diversion rates, cost savings, and verifies cost effectiveness of recycling**
- **Used daily by Management and Field Level ISWMP Personnel**
- **Available document repository per project or contract**
- **Real time C&D data provides means for B-map upkeep**

ISWMP HOME PAGE

Navy Region Southwest Integrated Solid Waste Management Program (ISWMP) - Home - Microsoft Internet Explorer provided by NMCI

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Tuesday July 10, 2007

ISWMP Home

Applications

Document Repository

Help and Training

Contact



ISWMP



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Navy Region Southwest Integrated Solid Waste Management Program (ISWMP)

Integrated SWM combines all available tools in a program tailored to a specific installation. An effective SWM program will respond to the local waste characteristics, yet provide flexibility to cope with changing regulatory and market environments.

IMPORTANT: You Must Sign In to Access Edit Rights to the Applications on the ISWMP Start Page!

To login to the applications on the ISWMP start page:

- [Click Here](#), or
- Click on the "Start Here" link in the left-hand column, or
- Use the "Sign In" button, below:



[Login to ISWMP Applications Start Page:](#)

Benefits of ISWMP

In addition to fulfilling the requirement for regulatory compliance, integrated SWM provides substantial cost savings over the standard practice of land filling. The cost of reducing waste and collecting and processing recyclables is lower than land filling in most regions of the country. The benefit of landfill avoidance becomes even more important when the costs associated with siting, opening, and closing a new landfill are considered.

- Achieve local, regional, and state solid waste reduction/diversion goals.
- Saves landfill space.
- Saves energy.
- Reduces air and water pollution risks.
- Conserves natural resources.
- Reduces landfill disposal fees.
- Produces reusable products.
- Generates revenue from sale of reusable materials.

Done

Start

Inbox - Microsoft ...

FW: DISASTER DE...

Navy Region So...

QUICK DEMO.ppt

Internet



11:29

LIST OF C&D PROJECTS IN DATA BASE PER BASE OR REGION-WIDE

ISWMP Information and Mapping System - Microsoft Internet Explorer provided by NMCI

File Edit View Favorites Tools Help

Refuse Recycle C and D

Select By Facility

ENTER FACILITY #(S):

SELECT INSTALLATION(S):

- ALL
- ADM BAKER
- ASW
- BROADWAY
- CABRILLO

SELECT STATUS(ES):

- ALL
- Construction Scheduled
- Construction Funded
- Construction In-Progress

Execute CD Query

Add New Project

46 Rows Returned: 46 C&D Projects Involving 37 Buildings:

View On Map Reports Help

YOU ARE CURRENTLY LOGGED IN AS: ANONYMOUS

<< 1 >>

Facility Worksheet	Project Worksheet	STATUS	INSTALLATION NAME	PROJECT	BUILDING NUMBER	PROJECT INFO COLLECTION DATE	SCHEDULED FUNDING SOURCE	CONTR NUMBER
		Constructed	NBSD	Bldg. 3629		5/2/2007		F4168
		Construction In-Progress	NBSD	Boat lot		2/14/2007		NONE
		Construction In-Progress	NBSD	Pacific Beacon PPV		5/8/2007		DEMC R2020
		Demolished	NBSD	B-115	B-115	5/10/2007	PWC	NONE
		Demolished	NBSD	B-135	B-135	11/1/2004	PWC	DEMC
		Demolished	NBSD	B-160	B-160			
		Demolished	NBSD	B-163	B-163	10/1/2004		
		Demolished	NBSD	B-197	B-197		PWC	
		Demolished	NBSD	B-25	B-25	2/1/2005		
		Demolished	NBSD	B-252	B-252	2/1/2005		
		Demolished	NBSD	B-253	B-253	3/1/2005	PWC	
		Demolished	NBSD	B-3139	B-3139	9/1/2005	PWC	
		Demolished	NBSD	B-3358	B-3358		PWC	
		Demolished	NBSD	B-89	B-89	5/1/2006	PWC	

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ALL PROJECTS DISPLAY ON MAP

ISWMP C & D

Construction and Demolition Palette

	Construction	Scheduled
	Construction	Funded
	Construction	In Progress
	Construction	Completed
	Demolition	Scheduled
	Demolition	Funded
	Demolition	In Progress
	Demolition	Completed
	Repair	Scheduled
	Repair	Funded
	Repair	In Progress
	Repair	Completed
	Renovation	Scheduled
	Renovation	Funded
	Renovation	In Progress
	Renovation	Completed

Construction and Demolition Queries

New Projects

nbsd

- B-89
- B-99
- B-115
- B-135
- B-197
- B-253
- B-3139
- B-3343
- B-3343

San Diego

Logan Heights

Southcrest Park

Pacific Beacon PPV

United Naval Station

PIER 6

National City

Kimball Park

BLDG. 73

BLDG. 207

BLDG. 3029

BLDG. 3204

BLDG. 3411

BLDG. 3317

BLDG. 3343

BLDG. 290

BLDG. 307

Boat lot

W 8th St

Imperial Ave

National Ave

Division St

E 9th St

Logan Ave

Imperial Ave

Ocean View Blvd

S 26th St

S 28th St

Escondido Fwy

S 40th St

S 43rd St

S 47th St

Palm Ave

S Euclid Ave

Bay Bridge Park

Southcrest Park

Kimball Park

Bay

75

15

75

D I E G O

C A L I F O R N I A

VIEW INDIVIDUAL PROJECTS

CLICK ICON TO SHOW PROJECT WORK SHEET

The screenshot displays a GIS application interface. The main map shows an aerial view of a large green field in San Diego, outlined in yellow. A yellow hexagonal icon with the letter 'C' is placed on the field, labeled 'Pacific Beacon PPV'. The map includes labels for 'San Diego Naval Station Golf Course', 'San Diego', 'Siwa St', 'Main St', and 'Norman Scott Rd'. A blue icon with 'RN' is visible near the bottom left.

The 'CONSTRUCTION AND DEMOLITION PROJECT WORKSHEET' is open on the left side of the screen. It contains the following information:

CONSTRUCTION AND DEMOLITION PROJECT WORKSHEET	
Status:	Construction In-Progress
Installation Name:	NBS D
Project Name:	Pacific Beacon PPV
Project Info Collected (Date):	5/8/2007
Building(s):	NONE
Scheduled Funding Source:	PPV
Contract Number:	F20201-0006
Actual Funding Source:	MILCON
Project Cost:	\$40,000,000.00
Scheduled Start Date:	11/15/2006
Scheduled End Date:	12/31/2009
Actual Start Date:	11/15/2006
Actual End Date:	
SWMP OAF:	SWMP
SWMP OAF Approval Date:	11/14/2006
Diversion Report Received:	Yes
Tons Diverted:	2180.93
Tons Landfilled:	2484.34

The 'Construction and Demolition Queries' panel in the bottom right corner shows:

- New Projects
- nbsd

LIST OF C&D PROJECTS IN DATA BASE PER BASE OR REGION-WIDE

ISWMP Information and Mapping System - Microsoft Internet Explorer provided by NMCI

File Edit View Favorites Tools Help

Refuse Recycle C and D

Select By Facility

ENTER FACILITY #(S):

SELECT INSTALLATION(S):

ALL
ADM BAKER
ASW
BROADWAY
CABRILLO

SELECT STATUS(ES):

ALL
Construction Scheduled
Construction Funded
Construction In-Progress

Execute CD Query
Add New Project

46 Rows Returned: 46 C&D Projects Involving 37 Buildings:

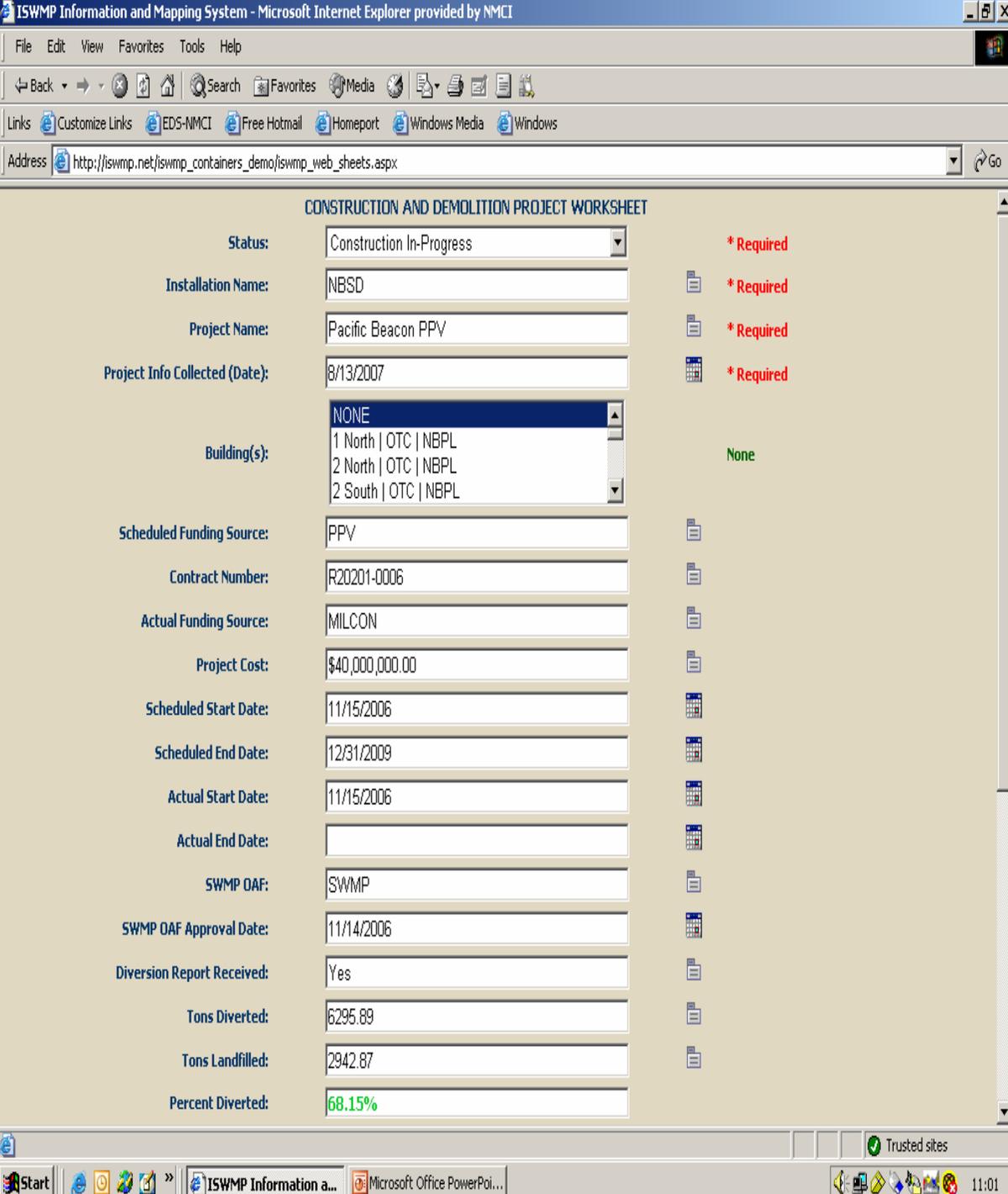
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PROJECT WORKSHEET

Displays individual project General Info

- Project Status
- Installation
- Project Name
- Info Collection Date
- Building #
- Funding Source
- Contract #
- Project Cost
- Scheduled Start and End Dates
- Actual Start and End Dates
- Project Manager Name and Phone #

ISWMP Info

- SWMP or WAF Submittal and Approved Dates
- Diversion Reports Received
- Tons Diverted
- Tons Landfilled
- Percent Diverted
- Cost to Landfill
- Cost to Recycling/Divert
- Cost Avoidance

REPORT VERIFIES COST BENEFIT OF DIVERSION AND COMPLIANCE WITH CNRSWINST 11350.1A

TYPE	SITE	LANDFILLED	COST	DIVERTED	COST	PERCENT DIVERTED	COST AVOIDANCE
Renovation In Progress	Housing NAB	4,597	\$91,940	7,536	\$45,970	62.11%	\$150,720
Demo'd	B-652 NBC	466	\$93,200	40,403	\$202,015	98.86%	\$1,474,709
Construction In Progress	Pacific Beacon PPV	2,688	\$107,548	2,236	\$43,618	45.40%	\$89,429
Constructed	Commissary	2,585	\$215,847	10,200	\$51,000	79.78%	\$545,700
Demolished	Q-35	250	\$108,000	540	\$25,000	68.35%	\$19,710
Construction In Progress	NEW MAIN GATE	105	\$21,000	460	\$11,500	81.42%	\$92,000
TOTAL		10,692	\$637,535	61,375	\$379,103	72.65%	\$2,372,268

• 63% OF THE TOTAL COSTS PAID FOR 15% OF THE MATERIAL TO BE LANDFILLED.

• 37% OF THE TOTAL COSTS PAID FOR 85% OF THE MATERIALS TO BE RECYCLED!!!!

AND . . .

- **Layers developed and utilized for:**
 - **Construction and Demolition Debris Management**
 - **Compliance with CNRSWINST 11350.1A**
 - **Refuse Contract Management**
 - **Performance Assessment and Efficiency Review**
- **Future plans for Disaster Debris Management, Recycling Ops, Military Industrial Waste Management**



CONCLUSION

- **Technology assists in compliance with CNRSWINST 11350.1A Construction and Demolition Debris Program**
- **Tracks solid waste diversion by project**
- **Verifies submission of solid waste management plan or opportunity assessment form**
- **More cost effective to divert than landfill waste**
- **Verifies economic feasibility goes hand-in-hand with environmental sustainability**