

MCAS Miramar Environmental Management

Environmental Awareness Training (Initial
and Annual Refresher)



- MCAS Miramar is regulated by Federal, State, Local, Navy and Marine Corps environmental policies to protect the local environment and preserve it for future generations.
- Air Emissions, Stormwater, Hazardous Waste, Universal Waste, E-Waste, Recycling, Reusable shop towel Program just to name a few.



Environmental Management System



Definition

An EMS is an approach that integrates environmental considerations into our mission activities.

It's nothing more than our
environmental business plan





Why an EMS?

- To protect human health and the environment for our and future generations of Marines
- Increases efficiency and reduces cost
- Improves relationships with surrounding communities
- Reduces risk to the mission, caused by environmental issues
- Assists in maintaining and improving the quality of our environment
- Maintains readiness by protecting training environments
- Protects the health of Marines, Sailors, Military Members, Civilians, Contractors, their families and surrounding communities from the environmental impacts associated with Marine Corps activities.



EMS Example

- Practice: Aircraft Fueling or Vehicle Fueling
- Aspect: Uses hazardous material and generates hazardous waste
- Impact: Hazardous material/waste can leak or spill and pose serious risk to human health & the environment
- Practice Controls: Adhere to SOP's, properly store hazardous materials/waste, use PPE, have spill equipment on hand



Pollution Prevention





Reduce, Re-use, Recycle

- **Reduce** purchases to only what you need and reduce more toxic chemicals if possible
- **Reuse** or repurpose materials rather than disposing of them
- **Recycle** plastics, metals, paper, cardboard, etc.
- Utilize recycling bins for comingled recyclables or trailers for cardboard



- **Recycled Materials / Products**

- Purchasing printer paper, toner cartridges, toiletries, etc. made from recycled materials
- Participating in recycling programs and not throwing recyclables in the refuse trash cans

- **Energy Efficient Products**

- Energy Star appliances, low energy light bulbs

- **Alternative Fuels & Vehicles**

- Biodiesel, electric vehicles, hybrids

- **Bio-Based Products**

- Commercial/Industrial products that use bio materials as opposed to manufactured/synthetic materials
- Reduces hazards in manufacturing processes





- **Environmentally Preferable Products**

- Have lesser or reduced effects on health or the environment

- **Non Ozone Depleting Substances**

- Use non ozone depleting products when possible in applications such as refrigeration chemicals, cleaning solvents, fire suppression agents, aerosols, adhesives, paints, etc.

- **Priority Chemicals**

- Reduce amounts of cadmium, lead, mercury



Electronics (E-Waste)

- Fastest growing waste stream in the country due to constant upgrades of electronics (I-phone ?)
- Anything that contains a circuit board or plugs into an electrical outlet: computers, monitors, phones, light bulbs, toner cartridges, DVD players, remote controls, etc.
- Recyclable for the valuable materials used
- Is also toxic due to the materials used,
 - PCB's, Arsenic, Antimony, Nickel, Beryllium, Copper, Zinc, Mercury, Lead
- When improperly disposed of chemicals and elements can leach into waterways causing birth defects, cancer, mutations and death.



Ways to reduce pollution and environmental costs:

- Utilize station Hazardous Materials Minimization Center (HAZMINCEN) to procure hazmat.
- Properly dispose of hazardous waste via the Environmental Management Dept. (EMD), Waste Management Division (WMD).
- Participate in the recyclable shop towel program.
- Recycle paper, cardboard, aluminum, scrap metal, wood, plastic, used oil, used antifreeze, empty containers, and electronic waste.
- Do not litter, utilize trashcans and dumpsters.
- Good housekeeping in work spaces.



Stormwater compliance



Stormwater compliance

► General Info:

- Water pollutants include
 - dredged soil,
 - solid waste,
 - incinerator residue,
 - sewage,
 - garbage,
 - sewage sludge,
 - munitions,
 - chemical wastes,
 - biological material,
 - radioactive materials,
 - heat,
 - wrecks or
 - discarded equipment, rock, sand, cellar dirt, and industrial, municipal and agricultural waste discharged into water.



Stormwater compliance

Best Management Practices

- Label all drums, cans, containers, tanks and valves
- Perform regular cleaning and regular pavement sweeping
- Avoid hosing down the site
- Recycle
- Store waste and recycling materials in proper containers
- Keep lids closed on all waste receptacles and HAZMAT drums



Stormwater compliance

Best Management Practices

- Limit significant materials inventory
- Routinely clean catch basins
- Keep equipment and vehicles clean
- Stencil signs on storm drain inlets
- Check vehicles and equipment for leaks
- Park vehicles on an impervious surface
- Discharge wash water to a sanitary sewer



Stormwater compliance

Best Management Practices

- ▶ Wash vehicles and equipment only at approved wash racks.
- ▶ Use drip pans underneath leaking aircraft, vehicles, and equipment.
- ▶ Substitute non-toxic or less toxic cleaning solvents.



Greening Through Procurement



Marine Corps installations consume a wide variety of toxic and non-renewable resources. Therefore, procurement of environmentally friendly and recyclable resources must be properly managed during daily operations.



- Units must establish affirmative procurement programs for all items purchased by the unit, including hazardous materials
- Units must eliminate ozone depleting substances and purchase safe, environmentally friendly products that are recovered or recycled (when available)
- All units must participate in the Installation's recycling program for all recyclable materials



- Adhering to Greening through Procurement guidelines will help lower costs and lessen danger to human health and the environment
- Most commonly used materials are recyclable. Recycling commonly used materials conserves resources, lowers costs, preserves valuable landfill space, and lessens danger to human health and the environment
- Most commonly purchased products are available in safe, environmentally friendly, or recycled versions



When complying with Greening through Procurement, you are responsible for observing the following:

- Receive training in Greening through Procurement Standard Operating Procedures (SOPs)
- Establish and implement environmental compliance audit programs and policies that emphasize pollution prevention
- Purchase recovered and/or recycled materials when available
- Limit and phase-out use of ozone-depleting substances and purchase safe, cost-effective, and environmentally preferable alternatives
- Comply with all printing and copying requirements (paper content shall be no less than 50% recovered/recycled materials)



Landfill Trip Authorization ESOP



Landfill Trip Authorization ESOP

- ▶ Call Recycling Center first at x 8872 or 6366 to have them inspect the load to determine if it can be recycled and if so, coordinate pickup and drop-off.
- ▶ If the waste cannot be recycled, then large waste items (i.e. couches) may be placed in one of the 40-yard roll-off bins located at Bldg. 8219, across from Hanger 5 and 6.
- ▶ If the loads cannot fit inside the roll-off bins, then it will need to be hauled to the landfill. This requires a call to EMD at x 1108; ask to speak with an EPS to coordinate an inspection.
- ▶ Make sure Landfill Coupon (see next slide) is signed by WMD personnel before the load goes to the Landfill.



Landfill Trip Authorization Coupon

- ▶ This must be signed by WMD personnel before each load goes to the Miramar Landfill

A 65307

U.S. NAVY/CITY OF SAN DIEGO
LANDFILL DISPOSAL COUPON

NAVY CONTRACT # _____
DATE ISSUED _____



A 65307

BEARER IS A HAULER OF U.S. NAVY REFUSE
VALID FOR ENTRY TO LANDFILL FACILITY
ONLY WHEN PROPERLY EXECUTED AND ON
THE DATE SPECIFIED. Failure to abide by
regulations and policies agreed to between the City and
the Navy will result in voidance of this coupon, a false
declaration fee, and/or restriction from use of facilities.

DATE OF ENTRY _____
CONTRACT # _____

Authorized NAVY SCR Signature

ES-018 (5-96)



Policy Letter 3-13

-Signed by CO

Prohibits personnel from delivering solid waste to the landfill without contacting the WMD first.

The Miramar Landfill will reject your load if not accompanied by a signed Landfill coupon.



UNITED STATES MARINE CORPS
MARINE CORPS AIR STATION MIRAMAR
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CO

23 APR 2012

POLICY LETTER 3-13

From: Commanding Officer
To: Distribution List

Subj: AUTHORIZATION FOR DIRECT DISPOSAL TO MIRAMAR LANDFILL

Encl: (1) Landfill Authorization Chit
(2) Landfill Trip Authorization ESOP

1. Purpose. To establish policy for the authorization of direct disposal to the Miramar landfill.

2. Cancellation. This letter will remain in effect until revision or when indicated by appropriate authority.

3. Information. Marine Corps Air Station (MCAS) Miramar is faced with the challenge of ensuring that unauthorized materials are not inadvertently disposed at the Miramar landfill. This disposal of unauthorized materials is unlawful, has potential adverse affects to the environment and interferes with military operations. Service members and civilians that work or reside aboard MCAS Miramar are not correctly identifying materials as hazardous waste, universal waste or recyclable. The resulting consequences have negative impacts on the air station.

4. Scope. Effective immediately, all personnel are prohibited from delivering solid waste directly to the landfill without first making contact with the Environmental Department Waste Management Division (WMD).

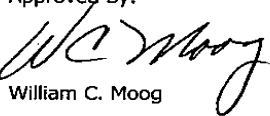
a. To ensure that unauthorized materials do not enter the solid waste stream, tenants are required to report to Building 6022 to have their load inspected by WMD personnel and receive an authorization chit (enclosure (1)). Enclosure (2) is an Environmental Standard Operating Procedure (ESOP) describing the requirements of the program.

b. Unit leadership shall ensure that all subordinate personnel are briefed on the requirements of the ESOP.

c. Punitive Nature. This order is punitive in nature. In the case of service members, failure to comply with the policy and guidance contained in this order could result in administrative and or punitive action under the Uniformed Code of Military Justice. In the case of civilians, failure to comply with the policy and guidance contained in the order may result in prosecution under 18 U.S.C. 1382 in U.S. District Court.

J P Farnam
J. P. FARNAM



Environmental Standard Operating Procedure			
Originating Office: MCAS Miramar Environmental Management Department	Revision: Original	Prepared By: Waste Management Division	Approved By:  William C. Moog
File Name: LTA-ESOP	Effective Date: 18 March 2013	Document Owner: Mike Corona	

Ensure all
personnel are
briefed on the
Landfill Trip
Authorization
ESOP.

Title: Landfill Trip Authorization

1.0 PURPOSE

The purpose of this Standard Operating Procedure (SOP) is to provide guidelines Waste Management Division (WMD) personnel relating to delivery of garbage directly to the Miramar landfill.

2.0 APPLICATION

This guidance applies to all WMD personnel.

3.0 REFERENCES

- ☐ MCO 5090.2A Ch 17 (USMC Environmental Compliance and Protection Manual)
- ☐ Integrated Solid Waste Management Plan (ISWMP)
- ☐ Hazardous Waste Management Plan (HWMP)

4.0 PROCEDURE

4.1 Discussion:

Collection and transportation of solid waste to the Miramar landfill is authorized for any organization operating aboard MCAS Miramar, but must be performed according to the LTA-ESPO. WMD personnel must ensure that only authorized solid waste is disposed of and that unauthorized materials are properly accumulated and managed in accordance with references.

WMD personnel will discourage all organizations from making unnecessary landfill trips, and stress the fact that the Installation provides adequate containers for solid waste accumulation.

4.2 Operational Controls:

The following procedures apply:

1. Upon contact from an organization desiring to make a landfill run, WMD personnel will discourage the organization and guide the organization to the appropriate solid waste collection containers.
2. If unable to dissuade the requesting organization WMD will provide initial information on unauthorized items for disposal, and set up an appointment for load screening.
3. Organizations must report to building 6022 with loaded vehicle, on date and time of appointment for



load screening by WMD personnel.

4. If the load is determined to be appropriate for delivery to the landfill, a Landfill Authorization chit will be provided to the organization, with instructions to have the chit signed by landfill representative.
5. The landfill chit will be signed by the WMD personnel that inspected the load, stamped with the official stamp, dated and given to the organization.
6. The WMD personnel should complete the landfill authorization log.
7. Once the landfill trip is completed, the organization must return the signed landfill chit to the Waste Management Division for record keeping.
8. Personnel attempting to make landfill trips with an unapproved copy of the Landfill Authorization chit will be reported to their Commanding Officer.
9. Requesting personnel should be briefed on the following forbidden items, prior to vehicle loading if possible:
 - a. Ammunition, ordinance, and range residue is prohibited.
 - b. MRE (Meals Ready to Eat) heaters must be deactivated before disposal as non-hazardous solid waste, since they may react with water and create a fire hazard.
 - c. Universal Waste. (batteries, electronics, aerosols, mercury containing equipment)
 - d. Hazardous Waste. (flammables, paints, solvents, petroleum products, adhesives; corrosives, acids and bases; reactives, oxidizers; toxics, pesticides, inhalation hazards)
 - e. Recyclables. (cardboard, paper, scrap metal, aluminum, serviceable pallets, plastics, brass)
 - f. Chemically treated wood. Marked PA, PB, PC, or PD.
 - g. Used tires.
10. This internal SOP should be updated as changes to the program become necessary.

4.3 Documentation and Record Keeping:

The following records must be maintained:

1. Landfill authorization log.
2. Landfill authorization chit.

► Page 2 of ESOP discusses the Landfill coupon and prohibited items from the Landfill, Documentation, Record Keeping and Training.



CO'S ENVIRONMENTAL POLICY STATEMENT



CO'S ENVIRONMENTAL POLICY STATEMENT



- ▶ Comply with applicable environmental law, regulation and policy.
- ▶ Implement proper EMS
- ▶ Conserve natural and cultural resources.
- ▶ Clean up past contamination.
- ▶ Practice pollution prevention.
- ▶ Dispose of wastes properly.
- ▶ Sustainability through energy reduction and recycling.
- ▶ Partner with local gov't to continually improve our environmental performance.



Commanding Officer, MCAS Miramar Environmental Policy Statement



Marine Corps Air Station (MCAS) Miramar is the Marine Corps' premier Air Stations and one of the Department of Defense's (DOD) busiest and most strategically located Air Stations. MCAS Miramar is located in the center of a constellation of Marine and Navy installations and ranges in the Southwestern United States, which is ideal for unimpeded access to the training needed to support combat readiness and on order, act as a power projection platform in support of Joint Force operations in Indo-Pacific Command.

We take great pride in being a part of the San Diego community and appreciate the partnership and unwavering support from "America's Finest City." The Marine Corps recognizes its responsibility to San Diegans to maintain stewardship of the Air Station by preventing unnecessary hazards while supporting all aircraft operations from 3d Marine Aircraft Wing (MAW). MCAS Miramar's Environmental ethos is based on a commitment to compliance with Federal, State and Local environmental regulations in order to preserve natural and cultural resources and to mitigate environmental and health risk while sustaining realistic military training and testing for future generations of Marines. Through promoting a culture of compliance, MCAS Miramar will conduct mission planning, decision making, training, and daily operations in a manner that demonstrates a commitment to:

- Compliance with applicable environmental laws, regulations, and policy in practice and planning;
- Implementation and improvement of Environmental Management Systems that enhance the capability of MCAS Miramar to support 3d MAW training and reduce risks to mission and the environment;
- Conserve MCAS Miramar natural and cultural resources;
- Remediate contaminated sites that are the result of past practices;
- Prevent pollution to protect the environment and minimize the burden and cost of compliance, and prevent spills;
- Proper disposal of solid, hazardous and universal wastes to reduce impacts the environment and avoid environmental violations that take vital funds away from mission-related activities;
- Sustainability through renewable energy, resource reduction and recycling;
- Partner with other federal, state and local resource agencies to share successes and lessons learned to maximize the return on the Marine Corps investment in environmental compliance and conservation.

MCAS Miramar's emphasis on environmental stewardship is based on the four foundational pillars of compliance, conservation, environmental restoration, and pollution prevention. Through incorporating these principles in our daily activities and future plans we will succeed in environmental management which will produce improvements in training opportunities, maximize resources, and support the broader Marine Corps mission. MCAS Miramar communicates this policy to all levels of the organization and station tenants in order to increase environmental awareness. This policy, along with environmental goals and objectives and other elements of the Station Environmental Management System, are available to all hands and the public at <http://www.miramar-ems.marines.mil/>.


T. M. BEDELL

The end

