HAZARDOUS WASTE TECHNICAL ASSISTANCE SURVEY
ANDREWS AFB MD

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Brooks Air Force Base, Texas 78235-5000

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At the request of HQ MAC/LGMW, the AFOEHL conducted a hazardous waste technical assistance survey at Andrews AFB (AAFB) from 9 - 13 Dec 90. The scope of this survey was to address hazardous waste management practices, explore opportunities for waste minimization, and to determine wastestreams. The survey team performed a shop-by-shop evaluation of waste management practices and met with hazardous waste managers to discuss their waste programs. Recommendations include: (1) Base CE to shred out disposal costs for each organization; (2) SGPB to prepare a Waste Analysis Plan (WAP) as required by 40 CFR 265.13; (3) Base to evaluate other alternatives for segregated waste oil disposal; (4) Implement a comprehensive program to dramatically reduce the amount of oil that goes to the Oil Water Separators; (5) Base CE to prepare a talking paper on their program and submit it to HQ MAC/DEV/LGMW/SGPB as a training guide throughout the command; (6) Those shops that use shop rags for heavy cleaning utilize those lightly soiled rags from other shops; (7) The spent Citrikleen disposed through the sanitary sewer should be analyzed for hazardous characteristics.
ACKNOWLEDGEMENTS

The authors wish to thank the personnel at Andrews AFB who provided information and logistics support during the survey. Maj Lawrence McGowan, Chief; Capt Jeffrey Cornell, OIC; and the entire Bioenvironmental Engineering Services (BES) staff, Malcolm Grow Med Center/SGPB, were extremely supportive of the mission during the survey. We would also like to thank Capt Gabriel Lifschitz, Chief, and his staff in the Environmental and Contract Planning Office in Civil Engineering, 1776 CES/DEEV, for their escort support of shop visits and provision of corporate knowledge on the waste accumulation practices on base.
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I. INTRODUCTION

The Weapons Systems Division, Director of Maintenance Engineering, Headquarters Military Airlift Command (HQ MAC/LGMW) requested the Air Force Occupational and Environmental Health Laboratory, Environmental Quality Division (AFOEHL/EQE), conduct a series of five Hazardous Waste Technical Assistance Surveys throughout MAC during 1990, (Appendix A). The surveys will be used to establish a baseline for their waste minimization program. The survey was conducted by Capt Patrick T. McMullen, Capt Chung H. Yen, and MSgt Benjamin Hernandez from 9-13 December 1990.

II. BACKGROUND

A. Base Description

Andrews AFB is located 10 miles southeast of Washington D. C. The host unit is the 1776 Air Base Wing. They are responsible for the overall operation of the base, and provide support and services for tenant units. The 89th Military Airlift Wing (MAW) provides VIP air transportation, including the President, Vice President, and other government officials. Other tenant units are the 113th Tactical Fighter Wing of the District of Columbia Air National Guard, the 459th Military Airlift Wing (Air Force Reserves), the First Heli, Headquarters Air Force Systems Command, 231st Combat Communications Squadron, Malcom Grow Medical Center, 2045th Communications Group and the DC ANG Det 1.

B. Hazardous Waste Program

The hazardous waste program at Andrews AFB is managed primarily through the Environmental and Contract Planning Office in Civil Engineering, 1776 CES/DEEV. Bioenvironmental Engineering Services (BES) helps monitor the program through industrial shop surveys and is responsible for waste sampling at the request of the base DEEV.

Individual shops are responsible for identifying, segregating, handling, packaging, and labeling the wastes generated by their shop. The wastes are usually placed in a 55-gallon drum or bowser located at an accumulation site.

When wastes require disposal, the generator completes a DD Form 1348-1. This is then given to the 1776 CES/DEM representative at turn-in.

C. Procedure

The first step of the survey was to review the base's hazardous waste management plan and the Bioenvironmental Engineer's industrial shop folders to determine which shops generated chemical waste. Next, approximately 50 industrial shops were visited to observe industrial operation, discuss

Note: This report was accomplished by the Air Force Occupational and Environmental Health Laboratory (AFOEHL), which is now the Armstrong Laboratory, Occupational and Environmental Health Directorate.
chemical waste disposal practices with shop personnel, and survey forms were completed. They provided additional information for subsequent discussions with shop personnel.

The Central Hazardous Waste Storage Area and each accumulation site were visited and evaluated.

The overall Hazardous Waste Management program was discussed with the following individuals: Capt J. Cornell, Bioenvironmental Engineer; Capt Lifshitz, Chief, 1776 CES/DEEV; Sgt T. Tang, CE; and Sgt A. Achenbac, CE.

III. OBJECTIVES

A. Identify opportunities for waste minimization.

B. Evaluate Management of Hazardous Waste Program.

IV. SUMMARY OF WASTE DISPOSAL PRACTICES AT ANDREWS AFB

The waste disposal practices for different categories of wastes are summarized in this section. A shop-by-shop summary of disposal practices is contained in Appendix C.

1. Waste oils and fluids are accumulated in 55-gallon drums or bowsers at or near the points of generation. Once full, the drums are transported to the central accumulation point operated by base Civil Engineering (1776 CES/DEMO, Sgt Achenbach). A contractor contacts 1776 CES/DEMO weekly to pick up the waste oils and fluids.

2. Waste paints, thinners, and strippers are placed in 55-gallon drums, transported to the central accumulation site, and stored until disposal as hazardous waste through CE.

3. Soap and detergents are rinsed down the drain into the sanitary sewer. In many instances, they run into the oil/water separators before final runoff into the creeks.

4. Waste emulsifier and dye penetrant from NDI shops are drummed and disposed as hazardous waste through the base CE.

5. Waste fuels consisting of JP-4, mogas, diesel, etc., are accumulated in either 55-gallon drums or fuel bowsers at or near the shop areas. When full, the waste fuels are transported, with the supervision of the organizational hazardous waste manager, to the CE central accumulation site. The CE site manager contacts Potomac Environmental for contract disposal. It is at the discretion of Potomac Environmental if the waste fuel is used for energy recovery or reclaimed for fuel other than for energy recovery. The 89 AGS Support Equipment Shop collects waste fuels in bowsers then transports to an underground storage tank before pumping by Petroleum, Oil & Lubricants (POL) into POL yard for disposal pick up.
6. Most waste or spent batteries are turned in or swapped for new batteries at an agreed-on cost per unit basis with local vendors. The 89 MAW Battery Shop drains the NiCad cells until contractor transports them off base for disposal. The battery shop neutralizes their spent battery acid fluids before contract disposal.

V. OBSERVATIONS AND RECOMMENDATIONS

A. Lack of Unit Accountability

All hazardous waste and waste oil disposal are handled through a central contract monitored by Civil Engineering (DEEE and DEEV). Individual organizations do not have a disposal budget; therefore, there is no incentive for individual units to minimize nor is there a mechanism to detect uncontrolled increases in unit disposal.

Rec: No one has ever been successful in waste minimization without implementing a generator accountability system. Conversely, everyone who has ever implemented an accountability system has been successful at waste minimization. We recommend CE shred out disposal costs for each organization. The Environmental Protection Committee should develop a system to reward units and individuals for waste minimization.

B. Tracking the Cost of Hazardous Waste Analysis

There is no method for tracking the analysis costs for Hazardous Waste nor is there any standardized program for baseline and periodic analysis. It is common throughout the Air Force for waste analysis to equal the costs of disposal. On Andrews AFB, disposal costs approximately $600,000 yearly. This suggests an equally significant cost for disposal.

Rec: We recommend the base prepare a Waste Analysis Plan (WAP) as required by 40 CFR 265.13. In AFR 19-11, Hazardous Waste Management and Minimization, this plan is the responsibility of Bioenvironmental Engineering Services (BES). We are able to provide further consultation to BES on this plan if necessary. Using the WAP as a guide, the base can develop a sampling and analysis plan that is comprehensive, well documented, and economical.

C. Segregated Waste Oil Disposal

The base does an excellent job of segregating some 12,000 gallons of waste oil and fluids yearly. These are disposed at a cost of $4.50 per gallon compared to $0.10 at most other bases. We assume the cost is higher due to the amount of waste oil generated in this region of the country versus availability of waste oil recyclers.

Rec: We recommend the base evaluate other alternatives for segregated waste oil disposal. The University of Auburn has a program where they will pick up properly segregated waste oil at little or no cost. Waste oil burners for local heating may also be an alternative. Details were previously forwarded to the base on both alternatives.

3
D. Waste Oil from Oil/Water Separators (OWS):

The base does not have an effective program for tracking the generation and disposal of waste oil from the OWS's. From a review of waste oil manifests, we estimate the base generates 50,000 gallons yearly at a disposal cost of $230,000. This is excessive for a base this size.

Rec: We recommend a comprehensive program to dramatically reduce the amount of oil that goes to the OWS's. This should include securing Building 1774 to prevent unauthorized dumping of oil directly to the separator; posting notices in the shops which explain why oil should be segregated; and training the employees on segregation of oil.

E. TCLP Requirements:

There was some confusion regarding the classification of waste oil now that the new Toxicity Characteristic Leaching Procedure (TCLP) is in effect.

Rec: Appendix F provides an overview discussing when segregated waste oil can become hazardous and what analysis is required for waste oil.

F. Spreading the Word:

Andrews AFB has several excellent elements in their Hazardous Waste Management Program. It was the best program.

Rec: We recommend Civil Engineering prepare a talking paper on their program and submit it to HQ MAC/DEV/LGMW/SGPB as a training guide throughout the command. We specifically ask that they address:

- the employee training
- effectiveness of generator waste logs
- the system for tracking drums
- literature and a description of their Accumulation Storage Facilities
- their experiences with using a disposal contractor outside the DRMO system.
G. Waste Shop Rags: Some shops generated between 50-150 lbs of waste rags in a given month. Most of these shop rags are lightly saturated with oils, fluids, lubricants, and/or water.

Rec: We recommend those shops that use shop rags for heavy cleaning operations utilize, if appropriate, those lightly soiled rags from other shops. In some cases, it may be more advantageous and feasible to contract a local linen supplier for exchanging cleaning rags.

H. Citrikleen Disposal: Numerous shops across the base generated spent Citrikleen. Some shops contract the disposal of waste Citrikleen on an exchange basis. Some shops disposed via the sanitary sewer system.

Rec: Spent Citrikleen disposed through the sanitary sewer should be analyzed to determine if it is hazardous. The sludge layer needs to be sampled separately from the liquid phase. The benefit of this sampling procedure is that only the sludge segment is hazardous and would alleviate the actual cost of hazardous waste disposal due to reduced volumes of hazardous waste generated.
References


3. Occupational Safety and Health Administration, "Hazardous Waste Operations and Emergency Response," Title 29 Code of Federal Regulations, Section 1910.120.
Appendix A

Request Letter
Subject: Request for Hazardous Waste Technical Assistance Survey

To: USAF DEHL/ECQ

IN TURN

1. We are extremely interested in having hazardous waste technical surveys accomplished at our MAC bases. Request your assistance in adding the following bases to your survey schedule:

   Little Rock AFB AR
   Kirtland AFB NM
   Andrews AFB MD
   Scott AFB IL
   McChord AFB WA

2. We appreciate your assistance in this matter. If at all possible, accomplish this survey at Little Rock AFB at your earliest possible convenience.

3. For additional information, feel free to contact our HQ MAC/LGMWF POC SMSgt Annis, AUTOVON 576-3254.

   [Signature]
   [Name]
   Dir of Maintenance Engineering

MAC--The Backbone of Deterrence
Appendix B

Hazardous Waste Technical Assistance Survey
Shop Supervisor Interview Form
HAZARDOUS WASTE TECHNICAL ASSISTANCE SURVEY
SHOP SUPERVISOR INTERVIEW FORM

SHOP & OFFICE SYMBOL ___________________________ EXT_________
BUILDING ___________________________ CONTACT ___________________________
MISSION ___________________________

WORKLOAD

<table>
<thead>
<tr>
<th>WASTE STREAM</th>
<th>TYPE/NSN</th>
<th>QTY/MO.</th>
<th>DISPOSAL METHOD</th>
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<tbody>
<tr>
<td>FUEL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7800 MOTOR OIL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SYNTHETIC OIL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FLUIDS (B,T,or H)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOLVENTS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WASTE PAINTS (TYPE)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>THINNERS (TYPE)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>STRIPPERS (TYPE)</td>
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<td></td>
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<td>SOAPS (dil ratio)</td>
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<td></td>
</tr>
<tr>
<td>BATTERIES</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPEEDY DRY</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SHOP RAGS</td>
<td></td>
<td></td>
<td></td>
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</table>

O/W SEPARATORS (NO., USE, CLEANOUT FREQ & DISPOSAL) ___________________________
(ADD INFO ON BACK AS REQ'D)

RECOMMENDATIONS

______________________________

______________________________
<table>
<thead>
<tr>
<th>OTHERS</th>
<th>PENETRANT</th>
<th>EMULSIFIER</th>
<th>ANTIFREEZE</th>
<th>CARBON REMOVER</th>
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<td>MAG PARTICLE</td>
<td>DEVELOPER</td>
<td>O/W SLUDGE</td>
<td>ACIDS</td>
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<tr>
<td>TANKS</td>
<td>CHEMICAL</td>
<td>SIZE</td>
<td>CHANGE FREQ</td>
<td>DISPOSAL</td>
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<tr>
<td></td>
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<td>MIS.</td>
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<table>
<thead>
<tr>
<th>UST'S</th>
<th>USE</th>
<th>SIZE</th>
<th>LOCATION</th>
<th>PUMP OUT FREQ</th>
<th>LEAK TESTED</th>
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Appendix C

Disposal Practices by Shop at Andrews AFB
## DISPOSAL PRACTICES BY SHOP AT ANDREWS AIR FORCE BASE

### SHOP: 113 TFW AGE  
**Building:** 3032

<table>
<thead>
<tr>
<th>WASTE PRODUCT</th>
<th>QTY (GAL/YR)</th>
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<tbody>
<tr>
<td>Fuel</td>
<td>36</td>
<td>REC</td>
</tr>
<tr>
<td>Oil &amp; Fluid</td>
<td>90</td>
<td>CD</td>
</tr>
<tr>
<td>Lead Acide Batteries</td>
<td>90</td>
<td>DRMO</td>
</tr>
<tr>
<td>PD-680</td>
<td>120</td>
<td>CD</td>
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**TOTAL:** 336

### SHOP: 113 TFW Engine Shop  
**Building:** 3031

<table>
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<th>WASTE PRODUCT</th>
<th>QTY (GAL/YR)</th>
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</tr>
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<tbody>
<tr>
<td>Degreaser</td>
<td>120</td>
<td>CD</td>
</tr>
<tr>
<td>Oil &amp; Fluid</td>
<td>420</td>
<td>CD</td>
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</table>

**TOTAL:** 540

### SHOP: 113 TFW NDI  
**Building:** 3032

<table>
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<th>WASTE PRODUCT</th>
<th>QTY (GAL/YR)</th>
<th>DISPOSAL</th>
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<tbody>
<tr>
<td>Fixer</td>
<td>12</td>
<td>REC</td>
</tr>
<tr>
<td>Penetrant</td>
<td>60</td>
<td>CD</td>
</tr>
<tr>
<td>Developer</td>
<td>300</td>
<td>CD</td>
</tr>
<tr>
<td>Emulsifier</td>
<td>12</td>
<td>SS</td>
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</table>

**TOTAL:** 384

### SHOP: 113 TFW Pneudraulics  
**Building:** 3119

<table>
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<th>WASTE PRODUCT</th>
<th>QTY (GAL/YR)</th>
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<tbody>
<tr>
<td>Degreaser</td>
<td>180</td>
<td>CD</td>
</tr>
<tr>
<td>Oil &amp; Fluid</td>
<td>60</td>
<td>CD</td>
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**TOTAL:** 240
<table>
<thead>
<tr>
<th>SHOP: 113 TFW Structural Maint Building: 3119</th>
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<tbody>
<tr>
<td><strong>WASTE PRODUCT</strong></td>
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<tr>
<td>-------------------</td>
</tr>
<tr>
<td>Waste Paint</td>
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<tr>
<td><strong>TOTAL:</strong></td>
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<table>
<thead>
<tr>
<th>SHOP: 113 TFW Vehicle Maint Building: 3217</th>
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<tbody>
<tr>
<td><strong>WASTE PRODUCT</strong></td>
</tr>
<tr>
<td>-------------------</td>
</tr>
<tr>
<td>Oil &amp; Fluid</td>
</tr>
<tr>
<td>Lead Acid Batteries</td>
</tr>
<tr>
<td><strong>TOTAL:</strong></td>
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<table>
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<tr>
<th>SHOP: 1361 AVS Photo Laboratory Building: 3821</th>
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<tbody>
<tr>
<td><strong>WASTE PRODUCT</strong></td>
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<td>Silver</td>
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<td><strong>TOTAL:</strong></td>
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<table>
<thead>
<tr>
<th>SHOP: 1776 ABW Hobby Shop Building: 3537</th>
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<tbody>
<tr>
<td><strong>WASTE PRODUCT</strong></td>
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<td>-------------------</td>
</tr>
<tr>
<td>Oil &amp; Fluid</td>
</tr>
<tr>
<td>Safetykleen</td>
</tr>
<tr>
<td>Antifreeze</td>
</tr>
<tr>
<td>Waste Paint</td>
</tr>
<tr>
<td><strong>TOTAL:</strong></td>
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## DISPOSAL PRACTICES BY SHOP AT ANDREWS AIR FORCE BASE (Cont'd)

### SHOP: 1776 ABW Golf Course Main Building: 4883

<table>
<thead>
<tr>
<th>WASTE PRODUCT</th>
<th>QTY (GAL/YR)</th>
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<tbody>
<tr>
<td>Solvent 140</td>
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<td>60</td>
<td>CD</td>
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<tr>
<td>Oil &amp; Fluid</td>
<td>120</td>
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**TOTAL:** 240

### SHOP: 1776 CES Entomology Building: 3305

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<th>WASTE PRODUCT</th>
<th>QTY (GAL/YR)</th>
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<tr>
<td>Oil &amp; Fluid</td>
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**TOTAL:** 12

### SHOP: 1776 TRANS Allied Trades Building: 3345

<table>
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<tr>
<td>Waste Paint</td>
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**TOTAL:** 60

### SHOP: 1776 TRANS Fire Truck Main Building: 1206

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<th>WASTE PRODUCT</th>
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<tbody>
<tr>
<td>Safety Kleen</td>
<td>600</td>
<td>REC</td>
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<tr>
<td>Oil &amp; Fluid</td>
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<tr>
<td>Antifreeze</td>
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**TOTAL:** 1020
**DISPOSAL PRACTICES BY SHOP AT ANDREWS AIR FORCE BASE**

### SHOP: 1776 TRANS Gen Purpose
#### Building: 3354

<table>
<thead>
<tr>
<th>WASTE PRODUCT</th>
<th>QTY (GAL/YR)</th>
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</thead>
<tbody>
<tr>
<td>Antifreeze</td>
<td>1320</td>
<td>SS</td>
</tr>
<tr>
<td>Oil &amp; Fluid</td>
<td>1320</td>
<td>CD</td>
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**TOTAL:** 2640

### SHOP: 1776 TRANS Mino, Maint
#### Building: 3342

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<th>QTY (GAL/YR)</th>
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<tbody>
<tr>
<td>Oil &amp; Fluid</td>
<td>360</td>
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</table>

**TOTAL:** 360

### SHOP: 1776 TRANS Refuel Truck
#### Building: 3257

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<td>Oil &amp; Fluid</td>
<td>1320</td>
<td>CD</td>
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<td>Antifreeze</td>
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**TOTAL:** 1380

### SHOP: 1776 TRANS Spec Purpose
#### Building: 3355

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<tbody>
<tr>
<td>Lead Acid Batteries</td>
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<td>CD</td>
</tr>
<tr>
<td>Safety Kleen</td>
<td>600</td>
<td>REC</td>
</tr>
<tr>
<td>Oil &amp; Fluid</td>
<td>840</td>
<td>CD</td>
</tr>
<tr>
<td>Antifreeze</td>
<td>600</td>
<td>SS</td>
</tr>
</tbody>
</table>

**TOTAL:** 2112
## Disposal Practices by Shop at Andrews Air Force Base (Cont'd)

### SHOP: 1776 TRANS Vehicle Maint
Building: Hanger 15

<table>
<thead>
<tr>
<th>WASTE PRODUCT</th>
<th>QTY (GAL/YR)</th>
<th>DISPOSAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antifreeze</td>
<td>60</td>
<td>SS</td>
</tr>
<tr>
<td>Oil &amp; Fluid</td>
<td>1320</td>
<td>CD</td>
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</table>

**TOTAL:** 1380

### SHOP: 1st HELI
Building: 3032

<table>
<thead>
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<th>WASTE PRODUCT</th>
<th>QTY (GAL/YR)</th>
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</thead>
<tbody>
<tr>
<td>Fuel</td>
<td>25</td>
<td>CD</td>
</tr>
<tr>
<td>Oil &amp; Fluid</td>
<td>50</td>
<td>CD</td>
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**TOTAL:** 75

### SHOP: 231 CCSQ Elect/Power Pro
Building: 3227

<table>
<thead>
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<th>QTY (GAL/YR)</th>
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</thead>
<tbody>
<tr>
<td>Oil &amp; Fluid</td>
<td>240</td>
<td>CD</td>
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**TOTAL:** 240

### SHOP: 231 CCSQ Vehicle Maint
Building: 3227

<table>
<thead>
<tr>
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<th>QTY (GAL/YR)</th>
<th>DISPOSAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antifreeze</td>
<td>120</td>
<td>SS</td>
</tr>
<tr>
<td>Oil &amp; Fluid</td>
<td>500</td>
<td>CD</td>
</tr>
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**TOTAL:** 620
### DISPOSAL PRACTICES BY SHOP AT ANDREWS AIR FORCE BASE (Cont'd)

**SHOP:** 459 CAMS AGE  
**Building:** 3639

<table>
<thead>
<tr>
<th>WASTE PRODUCT</th>
<th>QTY (GAL/YR)</th>
<th>DISPOSAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead Acid Batteries</td>
<td>120 Batteries</td>
<td>DRMO</td>
</tr>
<tr>
<td>Antifreeze</td>
<td>240</td>
<td>CD</td>
</tr>
<tr>
<td>Carbon Remover</td>
<td>60</td>
<td>CD</td>
</tr>
<tr>
<td>Citrikleen</td>
<td>360</td>
<td>CD</td>
</tr>
<tr>
<td>Oil &amp; Fluid</td>
<td>1440</td>
<td>CD</td>
</tr>
<tr>
<td>Fuel</td>
<td>600</td>
<td>REC</td>
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</tbody>
</table>

**TOTAL:** 2820

**SHOP:** 459 CAMS Aero Repair  
**Building:** 3640

<table>
<thead>
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<th>WASTE PRODUCT</th>
<th>QTY (GAL/YR)</th>
<th>DISPOSAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD 680</td>
<td>180</td>
<td>CD</td>
</tr>
<tr>
<td>Citrikleen</td>
<td>180</td>
<td>CD</td>
</tr>
<tr>
<td>Oil &amp; Fluid</td>
<td>60</td>
<td>CD</td>
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</table>

**TOTAL:** 420

**SHOP:** 459 CAMS Fuel Systems  
**Building:** 3629

<table>
<thead>
<tr>
<th>WASTE PRODUCT</th>
<th>QTY (GAL/YR)</th>
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<tbody>
<tr>
<td>Fuel</td>
<td>120</td>
<td>CD</td>
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</table>

**TOTAL:** 120

**SHOP:** 459 CAMS Hydraulic  
**Building:** 3635

<table>
<thead>
<tr>
<th>WASTE PRODUCT</th>
<th>QTY (GAL/YR)</th>
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<tbody>
<tr>
<td>Safetykleen</td>
<td>120</td>
<td>CD</td>
</tr>
<tr>
<td>Carbon Remover</td>
<td>360</td>
<td>CD</td>
</tr>
<tr>
<td>Oil &amp; Fluid</td>
<td>480</td>
<td>CD</td>
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**TOTAL:** 960
### DISPOSAL PRACTICES BY SHOP AT ANDREWS AIR FORCE BASE (Cont'd)

**SHOP:** 459 CAMS Jet Engine  | **Building:** 3635

<table>
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<tr>
<th>WASTE PRODUCT</th>
<th>QTY (GAL/YR)</th>
<th>DISPOSAL</th>
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<tbody>
<tr>
<td>Fuel</td>
<td>12</td>
<td>REC</td>
</tr>
<tr>
<td>Oil &amp; Fluid</td>
<td>360</td>
<td>CD</td>
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<tr>
<td>Citrikleen</td>
<td>300</td>
<td>SS</td>
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**TOTAL:** 672

**SHOP:** 459 CAMS NDI  | **Building:** 3640

<table>
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<th>WASTE PRODUCT</th>
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<tr>
<td>Developer</td>
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<td>CD</td>
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<tr>
<td>Mag Particle</td>
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<td>CD</td>
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</tbody>
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**TOTAL:** 24

**SHOP:** 459 CAMS Structural Maint  | **Building:** 3640

<table>
<thead>
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<th>WASTE PRODUCT</th>
<th>QTY (GAL/YR)</th>
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<tbody>
<tr>
<td>Naptha</td>
<td>60</td>
<td>CD</td>
</tr>
<tr>
<td>Paint Thinners</td>
<td>240</td>
<td>CD</td>
</tr>
<tr>
<td>Waste Paint</td>
<td>600</td>
<td>CD</td>
</tr>
<tr>
<td>Paint Strippers</td>
<td>360</td>
<td>CD</td>
</tr>
</tbody>
</table>

**TOTAL:** 1260

**SHOP:** 89 AGS Flight Line Maint  | **Building:** 1280

<table>
<thead>
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<th>WASTE PRODUCT</th>
<th>QTY (GAL/YR)</th>
<th>DISPOSAL</th>
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</thead>
<tbody>
<tr>
<td>Oil &amp; Fluid</td>
<td>650</td>
<td>CD</td>
</tr>
<tr>
<td>Fuel</td>
<td>1200</td>
<td>REC</td>
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**TOTAL:** 1850

22
### DISPOSAL PRACTICES BY SHOP AT ANDREWS AIR FORCE BASE (Cont'd)

<table>
<thead>
<tr>
<th>SHOP: 113 EMS AGE</th>
<th>Building: 1933</th>
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<td><strong>WASTE PRODUCT</strong></td>
<td><strong>QTY (GAL/YR)</strong></td>
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<tr>
<td>Oil &amp; Fluid</td>
<td>600</td>
</tr>
<tr>
<td>Fuel</td>
<td>60</td>
</tr>
<tr>
<td>PD-680</td>
<td>120</td>
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<td><strong>TOTAL:</strong></td>
<td>780</td>
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<table>
<thead>
<tr>
<th>SHOP: 89 EMS Battery Shop</th>
<th>Building: 1714</th>
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<tbody>
<tr>
<td><strong>WASTE PRODUCT</strong></td>
<td><strong>QTY</strong></td>
</tr>
<tr>
<td>Neutrlz Electrolyte</td>
<td>600 GAL</td>
</tr>
<tr>
<td>Ni Cad Cells</td>
<td>250</td>
</tr>
<tr>
<td>Lead Acid Batteries</td>
<td>120</td>
</tr>
<tr>
<td><strong>TOTAL:</strong></td>
<td>970</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SHOP: 89 EMS Jet Engine</th>
<th>Building: 1932</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WASTE PRODUCT</strong></td>
<td><strong>QTY (GAL/YR)</strong></td>
</tr>
<tr>
<td>Oil &amp; Fluid</td>
<td>600</td>
</tr>
<tr>
<td>Fuel</td>
<td>25</td>
</tr>
<tr>
<td><strong>TOTAL:</strong></td>
<td>625</td>
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<table>
<thead>
<tr>
<th>SHOP: 89 EMS NDI</th>
<th>Building: 1791</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WASTE PRODUCT</strong></td>
<td><strong>QTY (GAL/YR)</strong></td>
</tr>
<tr>
<td>Penetrant</td>
<td>50</td>
</tr>
<tr>
<td>Emulsifier</td>
<td>50</td>
</tr>
<tr>
<td>Mag Part. Oil</td>
<td>60</td>
</tr>
<tr>
<td>Developer</td>
<td>50</td>
</tr>
<tr>
<td><strong>TOTAL:</strong></td>
<td>210</td>
</tr>
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</table>
### DISPOSAL PRACTICES BY SHOP AT ANDREWS AIR FORCE BASE (Cont'd)

**SHOP:** 89 EMS Pneudraulics  
**Building:** 1714

<table>
<thead>
<tr>
<th>WASTE PRODUCT</th>
<th>QTY (GAL/YR)</th>
<th>DISPOSAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil &amp; Fluid</td>
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<td>CD</td>
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<tr>
<td>PD-680</td>
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<td>CD</td>
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</tbody>
</table>

**TOTAL:** 62

**SHOP:** 89 EMS Structural Maint  
**Building:** 1791

<table>
<thead>
<tr>
<th>WASTE PRODUCT</th>
<th>QTY (GAL/YR)</th>
<th>DISPOSAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paint Sludge</td>
<td>12</td>
<td>CD</td>
</tr>
<tr>
<td>Solvents</td>
<td>300</td>
<td>CD</td>
</tr>
<tr>
<td>Amine Stripper</td>
<td>240</td>
<td>CD</td>
</tr>
<tr>
<td>Booth Rinse Water</td>
<td>200</td>
<td>SS</td>
</tr>
<tr>
<td>Caustic Stripper</td>
<td>240</td>
<td>CD</td>
</tr>
<tr>
<td>Waste Paint</td>
<td>600</td>
<td>CD</td>
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</tbody>
</table>

**TOTAL:** 1592

**SHOP:** 89 EMS Wheel & Tire  
**Building:** 1734

<table>
<thead>
<tr>
<th>WASTE PRODUCT</th>
<th>QTY (GAL/YR)</th>
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</thead>
<tbody>
<tr>
<td>PD-680</td>
<td>250</td>
<td>CD</td>
</tr>
<tr>
<td>Citri Kleen HD</td>
<td>360</td>
<td>SS</td>
</tr>
</tbody>
</table>

**TOTAL:** 610

**SHOP:** DC ANG AGE  
**Building:** 3121

<table>
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<th>WASTE PRODUCT</th>
<th>QTY (GAL/YR)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Fuel</td>
<td>60</td>
<td>CD</td>
</tr>
<tr>
<td>Oil &amp; Fluid</td>
<td>180</td>
<td>CD</td>
</tr>
<tr>
<td>CitriKleen</td>
<td>120</td>
<td>SS</td>
</tr>
<tr>
<td>PD-680</td>
<td>12</td>
<td>CD</td>
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**TOTAL:** 372
### DISPOSAL PRACTICES BY SHOP AT ANDREWS AIR FORCE BASE (Cont'd)

<table>
<thead>
<tr>
<th>SHOP:</th>
<th>DC ANG Flightline Mainten Building: 1228</th>
</tr>
</thead>
<tbody>
<tr>
<td>WASTE PRODUCT</td>
<td>QTY (GAL/YR)</td>
</tr>
<tr>
<td>Oil &amp; Fluid</td>
<td>180</td>
</tr>
<tr>
<td>Skydrol</td>
<td>180</td>
</tr>
<tr>
<td><strong>TOTAL:</strong></td>
<td><strong>360</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SHOP:</th>
<th>DC ANG Hydraulic Building: 1228</th>
</tr>
</thead>
<tbody>
<tr>
<td>WASTE PRODUCT</td>
<td>QTY (GAL/YR)</td>
</tr>
<tr>
<td>Oil &amp; Fluid</td>
<td>600</td>
</tr>
<tr>
<td>Fuel</td>
<td>60</td>
</tr>
<tr>
<td><strong>TOTAL:</strong></td>
<td><strong>660</strong></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>SHOP:</th>
<th>DC ANG Structural Building: 1228</th>
</tr>
</thead>
<tbody>
<tr>
<td>WASTE PRODUCT</td>
<td>QTY (GAL/YR)</td>
</tr>
<tr>
<td>Paint Strippers</td>
<td>12</td>
</tr>
<tr>
<td>Waste Paint</td>
<td>12</td>
</tr>
<tr>
<td>Paint Thinners</td>
<td>12</td>
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<tr>
<td><strong>TOTAL:</strong></td>
<td><strong>36</strong></td>
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</table>

<table>
<thead>
<tr>
<th>SHOP:</th>
<th>DC ANG Vehicle Maintenance Building: 3121</th>
</tr>
</thead>
<tbody>
<tr>
<td>WASTE PRODUCT</td>
<td>QTY (GAL/YR)</td>
</tr>
<tr>
<td>Lead Acid Batteries</td>
<td>60 Batteries</td>
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<tr>
<td>Oil &amp; Fluid</td>
<td>60</td>
</tr>
<tr>
<td>Antifreeze</td>
<td>600</td>
</tr>
<tr>
<td>Fuel</td>
<td>240</td>
</tr>
<tr>
<td><strong>TOTAL:</strong></td>
<td><strong>960</strong></td>
</tr>
<tr>
<td>WASTE PRODUCT</td>
<td>QTY (GAL/YR)</td>
</tr>
<tr>
<td>---------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Solvent 140</td>
<td>120</td>
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**TOTAL:** 120
Appendix D

Summary of Waste Disposal Practices for Each Waste Category
### SUMMARY OF WASTE DISPOSAL PRACTICES FOR EACH WASTE CATEGORY

#### WASTE: FUEL

<table>
<thead>
<tr>
<th>SHOP</th>
<th>WASTE</th>
<th>QTY (GAL/YR)</th>
<th>DISPOSAL</th>
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<tbody>
<tr>
<td>113 TFW AGE</td>
<td>Fuel</td>
<td>36</td>
<td>REC</td>
</tr>
<tr>
<td>DC ANG Hydraulic</td>
<td>Fuel</td>
<td>60</td>
<td>CD</td>
</tr>
<tr>
<td>1st HELI</td>
<td>Fuel</td>
<td>25</td>
<td>CD</td>
</tr>
<tr>
<td>459 CAMS AGE</td>
<td>Fuel</td>
<td>600</td>
<td>REC</td>
</tr>
<tr>
<td>DC ANG AGE</td>
<td>Fuel</td>
<td>60</td>
<td>CD</td>
</tr>
<tr>
<td>89 EMS Jet Engine</td>
<td>Fuel</td>
<td>25</td>
<td>REC</td>
</tr>
<tr>
<td>89 AGS Flight Line Maint</td>
<td>Fuel</td>
<td>1200</td>
<td>REC</td>
</tr>
<tr>
<td>459 CAMS Fuel Systems</td>
<td>Fuel</td>
<td>120</td>
<td>CD</td>
</tr>
<tr>
<td>DC ANG Vehicle Maintenance</td>
<td>Fuel</td>
<td>240</td>
<td>CD</td>
</tr>
<tr>
<td>459 CAMS Jet Engine</td>
<td>Fuel</td>
<td>12</td>
<td>REC</td>
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<tr>
<td>89 EMS AGE</td>
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</table>

**TOTAL:** 2438

#### WASTE: OIL & FLUID

<table>
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<th>WASTE</th>
<th>QTY (GAL/YR)</th>
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</thead>
<tbody>
<tr>
<td>DC ANG Vehicle Maintenance</td>
<td>Oil &amp; Fluid</td>
<td>60</td>
<td>CD</td>
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<tr>
<td>231 CCSQ Electric/Power P</td>
<td>Oil &amp; Fluid</td>
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<td>CD</td>
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<tr>
<td>1776 TRANS Minor Maintenance</td>
<td>Oil &amp; Fluid</td>
<td>360</td>
<td>CD</td>
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<tr>
<td>113 TFW Pneudraulics</td>
<td>Oil &amp; Fluid</td>
<td>60</td>
<td>CD</td>
</tr>
<tr>
<td>89 EMS NDI</td>
<td>Mag Part. Oil</td>
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<td>CD</td>
</tr>
<tr>
<td>459 CAMS Hydraulic</td>
<td>Oil &amp; Fluid</td>
<td>480</td>
<td>CD</td>
</tr>
<tr>
<td>DC ANG Flightline Mainten</td>
<td>Oil &amp; Fluid</td>
<td>180</td>
<td>DRMO</td>
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<tr>
<td>1776 TRANS Fire Truck Maint</td>
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<td>CD</td>
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<tr>
<td>89 EMS AGE</td>
<td>Oil &amp; Fluid</td>
<td>600</td>
<td>CD</td>
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<td>1776 TRANS Vehicle Maint</td>
<td>Oil &amp; Fluid</td>
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<td>CD</td>
</tr>
<tr>
<td>459 CAMS Jet Engine</td>
<td>Oil &amp; Fluid</td>
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<td>CD</td>
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<td>89 EMS Pneudraulics</td>
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<td>CD</td>
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<td>231 CCSQ Vehicle Maint</td>
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<tr>
<td>DC ANG AGE</td>
<td>Oil &amp; Fluid</td>
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<td>CD</td>
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<tr>
<td>459 CAMS AGE</td>
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<td>CD</td>
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<td>1st HELI</td>
<td>Oil &amp; Fluid</td>
<td>50</td>
<td>CD</td>
</tr>
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<td>1776 ABW Golf Course Main</td>
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<td>CD</td>
</tr>
<tr>
<td>1776 TRANS Refueling Truck</td>
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<td>1320</td>
<td>CD</td>
</tr>
<tr>
<td>1776 TRANS Special Purpos</td>
<td>Oil &amp; Fluid</td>
<td>840</td>
<td>CD</td>
</tr>
<tr>
<td>1776 CES Entomology</td>
<td>Oil &amp; Fluid</td>
<td>12</td>
<td>CD</td>
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<tr>
<td>DC ANG Hysraulic</td>
<td>Oil &amp; Fluid</td>
<td>600</td>
<td>CD</td>
</tr>
<tr>
<td>1776 ABW Auto Hobby</td>
<td>Oil &amp; Fluid</td>
<td>2400</td>
<td>CD</td>
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<tr>
<td>89 EMS Jet Engine</td>
<td>Oil &amp; Fluid</td>
<td>600</td>
<td>CD</td>
</tr>
<tr>
<td>89 AGS Flight Line Maint</td>
<td>Oil &amp; Fluid</td>
<td>650</td>
<td>CD</td>
</tr>
<tr>
<td>459 CAMS Aero Repair</td>
<td>Oil &amp; Fluid</td>
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<td>CD</td>
</tr>
<tr>
<td>113 TFW Engine Shop</td>
<td>Oil &amp; Fluid</td>
<td>420</td>
<td>CD</td>
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<tr>
<td>1776 TRANS General Purpos</td>
<td>Oil &amp; Fluid</td>
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<td>CD</td>
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<tr>
<td>113 TFW Vehicle Maintan</td>
<td>Oil &amp; Fluid</td>
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<td>CD</td>
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<tr>
<td>113 TFW AGE</td>
<td>Oil &amp; Fluid</td>
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<td>CD</td>
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**TOTAL:** 15354
### SUMMARY OF WASTE DISPOSAL PRACTICES FOR EACH WASTE CATEGORY (Cont'd)

#### WASTE: PD-680

<table>
<thead>
<tr>
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<th>WASTE</th>
<th>QTY (GAL/YR)</th>
<th>DISPOSAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>89 EMS Wheel &amp; Tire</td>
<td>PD-680</td>
<td>250</td>
<td>CD</td>
</tr>
<tr>
<td>DC ANG AGE</td>
<td>PD-680</td>
<td>1</td>
<td>CD</td>
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<tr>
<td>459 CAMS Aero Repair</td>
<td>PD-680</td>
<td>180</td>
<td>CD</td>
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<tr>
<td>89 EMS AGE</td>
<td>PD-680</td>
<td>120</td>
<td>CD</td>
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<tr>
<td>113 TFW AGE</td>
<td>PD-680</td>
<td>120</td>
<td>CD</td>
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<tr>
<td>89 EMS Pneudraulics</td>
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**TOTAL:** 721

#### WASTE: CITRIKLEEN

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<tbody>
<tr>
<td>459 CAMS Jet Engine</td>
<td>Citrikleen</td>
<td>300</td>
<td>SS</td>
</tr>
<tr>
<td>459 CAMS AGE</td>
<td>Citrikleen</td>
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<td>Citrikleen</td>
<td>120</td>
<td>SS</td>
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<tr>
<td>89 EMS Wheel &amp; Tire</td>
<td>Citrikleen HD</td>
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**TOTAL:** 1320

#### WASTE: SAFETY KLEEN

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<tr>
<td>1776 TRANS Special Purpos</td>
<td>Safety Kleen</td>
<td>600</td>
<td>REC</td>
</tr>
<tr>
<td>1776 TRANS Fire Truck Mai</td>
<td>Safety Kleen</td>
<td>600</td>
<td>REC</td>
</tr>
<tr>
<td>459 CAMS Hydraulic</td>
<td>Safety Kleen</td>
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<td>CD</td>
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<tr>
<td>1776 ABW Auto Hobby</td>
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**TOTAL:** 1560

#### WASTE: NEUTRALIZED ELECTROLYTE

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<td>89 EMS Battery Shop</td>
<td>Neutrлиз Electrolyte</td>
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**TOTAL:** 600
### SUMMARY OF WASTE DISPOSAL PRACTICES FOR EACH WASTE CATEGORY (Cont'd)

#### WASTE: NI CAD CELLS

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<td>Ni Cd Cells</td>
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**TOTAL:** 250

#### WASTE: NDI AND PHOTO LAB

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<td>113 TFW NDI</td>
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<td>CD</td>
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<td>89 EMS NDI</td>
<td>Emulsifier</td>
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<td>CD</td>
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<tr>
<td>113 TFW NDI</td>
<td>Penetran</td>
<td>60</td>
<td>CD</td>
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<tr>
<td>89 EMS NDI</td>
<td>Developer</td>
<td>50</td>
<td>CD</td>
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<td>89 EMS NDI</td>
<td>Penetran</td>
<td>50</td>
<td>CD</td>
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<td>113 TFW NDI</td>
<td>Fixer</td>
<td>12</td>
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<tr>
<td>1361 AVS Photo Laboratory</td>
<td>Developer</td>
<td>4</td>
<td>SS</td>
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<td>459 CAMS NDI</td>
<td>Developer</td>
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<td>113 TFW NDI</td>
<td>Emulsifier</td>
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<tr>
<td>1361 AVS Photo Laboratory</td>
<td>Fixer</td>
<td>4</td>
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<td>459 CAMS NDI</td>
<td>Mag Particle</td>
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<td>1361 AVS Photo Laboratory</td>
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**TOTAL:** 641

#### WASTE: LEAD ACID BATTERIES

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<td>DC ANG Vehicle Maintenance</td>
<td>Lead Acid Batteries</td>
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<tr>
<td>113 TFW AGE</td>
<td>Lead Acid Batteries</td>
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<td>DRMO</td>
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<td>1776 TRANS Special Purpos</td>
<td>Lead Acid Batteries</td>
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<td>459 CAM AGE</td>
<td>Lead Acid Batteries</td>
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<td>DRMO</td>
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<tr>
<td>1776 ABW Golf Course Main</td>
<td>Lead Acid Batteries</td>
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<tr>
<td>113 TFW Vehicle Maintenance</td>
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**TOTAL:** 534
### SUMMARY OF WASTE DISPOSAL PRACTICES FOR EACH WASTE CATEGORY (Cont'd)

#### WASTE: ANTIFREEZE

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<td>459 CAMS AGE</td>
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<td>1776 TRANS Refueling Truc</td>
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<td>DC ANG Vehicle Maintenanc</td>
<td>Antifreeze</td>
<td>600</td>
<td>CD</td>
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<td>1776 TRANS Fire Truck Maint</td>
<td>Antifreeze</td>
<td>120</td>
<td>SS</td>
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<tr>
<td>1776 ABW Auto Hobby</td>
<td>Antifreeze</td>
<td>1200</td>
<td>CD</td>
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<tr>
<td>1776 TRANS Special Purpos</td>
<td>Antifreeze</td>
<td>600</td>
<td>SS</td>
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<tr>
<td>1776 TRANS Vehicle Maint</td>
<td>Antifreeze</td>
<td>60</td>
<td>SS</td>
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<tr>
<td>231 CCSQ Vehicle Maint</td>
<td>Antifreeze</td>
<td>120</td>
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<td>1776 TRANS General Purpos</td>
<td>Antifreeze</td>
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**TOTAL:** 4320

#### WASTE: CARBON REMOVER

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<td>Carbon Remover</td>
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<td>459 CAMS Hydraulic</td>
<td>Carbon Remover</td>
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**TOTAL:** 420

#### WASTE: WASTE PAINT

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<td>89 EMS Structural Maint</td>
<td>Waste Paint</td>
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<td>113 TFW Structural Maint</td>
<td>Waste Paint</td>
<td>360</td>
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<td>1776 ABW Auto Hobby</td>
<td>Waste Paint</td>
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<td>459 CAMS Structural Maint</td>
<td>Waste Paint</td>
<td>600</td>
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<td>Waste Paint</td>
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**TOTAL:** 1932
### SUMMARY OF WASTE DISPOSAL PRACTICES FOR EACH WASTE CATEGORY (Cont'd)

#### WASTE: PAINT THINNERS

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<td>459 CAMS Structural Maint</td>
<td>Paint Thinners</td>
<td>240</td>
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<td>DC ANG Structural</td>
<td>Paint Thinners</td>
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<td>CD</td>
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<td>89 EMS Structural Maint</td>
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**TOTAL:** 552

#### WASTE: PAINT SLUDGE

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<td>89 EMS Structural Maint</td>
<td>Paint Sludge</td>
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**TOTAL:** 12

#### WASTE: RINSE WATER

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<tr>
<td>89 EMS Structural Maint</td>
<td>Booth Rinse Water</td>
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**TOTAL:** 200

#### WASTE: STRIPPER

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<tr>
<td>459 CAMS Structural Maint</td>
<td>Paint Stripper</td>
<td>360</td>
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<tr>
<td>89 EMS Structural Maint</td>
<td>Amine Stripper</td>
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<td>CD</td>
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<tr>
<td>DC ANG Structural</td>
<td>Paint Stripper</td>
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<td>CD</td>
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<tr>
<td>89 EMS Structural Maint</td>
<td>Caustic Stripper</td>
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**TOTAL:** 852
### SUMMARY OF WASTE DISPOSAL PRACTICES FOR EACH WASTE CATEGORY (Cont'd)

#### WASTE: DEGREASER

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<tbody>
<tr>
<td>113 TFW Engine Shop</td>
<td>Degreaser</td>
<td>120</td>
<td>CD</td>
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<tr>
<td>DC ANG Wheel &amp; Tire</td>
<td>Solvent 140</td>
<td>120</td>
<td>CD</td>
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<td>1776 ABW Golf Course Main</td>
<td>Solvent 140</td>
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<td>113 TFW Pneudraulics</td>
<td>Degreaser</td>
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**TOTAL:** 480

#### WASTE: NAPTHA

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<td>459 CAMS Structural Maint</td>
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**TOTAL:** 60

#### WASTE: SKYDROL

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<tr>
<td>DC ANG Flightline Mainten</td>
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**TOTAL:** 180
Appendix E

Master List of Shops
<table>
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<tr>
<th>SHOP</th>
<th>CONTACT</th>
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<th>PHONE NUMBER</th>
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<tbody>
<tr>
<td><strong>89 EMS</strong></td>
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<tr>
<td>AGE</td>
<td>TSgt Buckmon</td>
<td>1933</td>
<td>981-5563</td>
</tr>
<tr>
<td>Structural Maintenance</td>
<td>MSgt Walker</td>
<td>1791</td>
<td>981-5603</td>
</tr>
<tr>
<td>NDI</td>
<td>SSgt Homon</td>
<td>1791</td>
<td>981-5607</td>
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<td>Pneudraulics</td>
<td>SSgt Yashur</td>
<td>1714</td>
<td>981-3596</td>
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<td>Battery</td>
<td>Mr Coulter</td>
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<td>SSgt Conner</td>
<td>1734</td>
<td>981-2470</td>
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<td>1932</td>
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<td>Tightline Support</td>
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<td>1st Heli</td>
<td>SSgt Kyle</td>
<td>1914</td>
<td>981-5812</td>
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<td>Facilities Management</td>
<td>Mr Haynes</td>
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<td>MSgt Phillips</td>
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<td>SMSgt Griggs</td>
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<td>SSgt Wiseman</td>
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<td>Mr Mauger</td>
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<td>Mr Geen</td>
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