

**APPENDIX 4
 SWMU, AOC, AND HAZARDOUS WASTE MANAGEMENT UNIT TABLES**

**TABLE 4-1
 SOLID WASTE MANAGEMENT UNITS (SWMUs) & AREAS OF CONCERN (AOCs)
 REQUIRING CORRECTIVE ACTION**

| UNIT ID NUMBER | UNIT DESCRIPTION | COMMENTS |
|-----------------------|--|--|
| SWMU 1 | Floor Drain System for Building 1621 | |
| SWMU 2 | Bleach and Fixer Collection Containers | |
| SWMU 3 | Bleach and Fixer Collection Containers | |
| SWMU 4 | Bleach and Fixer Collection Containers | |
| SWMU 5 | Bleach and Fixer Collection Containers | |
| SWMU 6 | Bleach and Fixer Collection Containers | |
| SWMU 7 | Silver Recovery Unit Tailing Tank | |
| SWMU 8 | Waste Oil Tank & Sump at Building 1794 | SWMUs 8 & 9 were combined into SWMU 8, Also identified as WSMR-36 |
| SWMU 10 | Wash Pad, Drains, & Sump at Building 1778 | SWMUs 10 & 11 were combined into SWMU 10, Also identified as WSMR-74 |
| SWMU 12 | Wash Ramp, Drains, Sump, & Oil/Waste Separator @ Building 1778 | SWMUs 12 & 13 were combined into SWMU 12, Also identified as WSMR-60 |
| SWMU 14 | Used Battery Accumulation Area at Main Post | SWMUs 14 & 15 were combined into SWMU 14, Also identified as WSMR-33 |
| SWMU 16 | Heavy Equipment Wash Pad & Drain at Building 1736 | Also identified as WSMR-79 |
| SWMU 17 | Waste Underground Injection Pipe | Also identified as WSMR-73 |
| SWMU 19 | Steam Wash Pad & Oil/water Separator @ Building 1753 | SWMUs 19 & 20 were combined into SWMU 9, Also identified as WSMR-80 |
| SWMU 22 | Main Post Former Fire Fighting Training Area Waste Pile | Also identified as WSMR-32 |
| SWMU 23 | Hazardous Waste Tank at HELSTF | |
| SWMU 24 | Hazardous Waste Tank at HELSTF | |
| SWMU 25 | Hazardous Waste Tank at HELSTF | |
| SWMU 26 | Vapor Recovery Unit @ HELSTF | |
| SWMU 27 | Sanitary Treatment Impoundment at HELSTF | SWMUs 27, 28, 29, & 30 were combined into SWMU 27, Also identified as WSMR-44 |
| SWMU 31 | Chemical Waste Tank | Also identified as WSMR-43 |
| SWMU 32 | Chemical Waste Tank | Also identified as WSMR-43 |

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| SWMU 33 | Fluorspar Tank | Also identified as WSMR-49 |
| SWMU 34 | Fluorspar Tank | Also identified as WSMR-49 |
| SWMU 35 | Ethylene Glycol Tank at HELSTF | Also identified as WSMR-50 |
| SWMU 36 | Ethylene Glycol Tank at HELSTF | Also identified as WSMR-50 |
| SWMU 37 | Waste Oil Accumulation Area at Building 26121 at HELSTF | |
| SWMU 40 | Waste Oil Accumulation Drum | |
| SWMU 47 | Former North Oscura Peak Landfill | Also identified as WSMR-71 |
| SWMU 48 | Former North Oscura Peak Landfills | SWMUs 48 & 49 were combined into SWMU 48, Also identified as WSMR-71 |
| SWMU 62 | Former STP Imhoff Tank | Also identified as WSMR-59 |
| SWMU 63 | Former Main Post Landfill 1A | Also identified as WSMR-39 |
| SWMU 64 | Former Main Post Landfill 2A | Also identified as WSMR-40 |
| SWMU 66 | Main Post Sewage Treatment Plant Subsurface Influent Line | Also identified as WSMR-17 |
| SWMU 67 | Main Post Sewage Treatment Plant (STP) Bar Screen and Grinder | Also identified as WSMR-17 |
| SWMU 68 | North Primary Clarifiers at the STP | SWMUs 68 through 78 were combined into SWMU 68, Also identified as WSMR-17 |
| SWMU 69 | South Primary Clarifiers at the STP | Also identified as WSMR-17 |
| SWMU 79 | Sludge Beds at the STP | Also identified as WSMR-29 |
| SWMU 80 | STP Sludge Waste Pile Main Post | Also identified as WSMR-30 |
| SWMU 81 | Boiler at the STP | |
| SWMU 84 | Effluent Pipeline at the STP | |
| SWMU 85 | STP Discharge at Playa Lake | Also identified as WSMR-42 |
| SWMU 86 | Sanitary Landfill at the Main Post | Also identified as WSMR-81 |
| SWMU 87 | Construction Landfill | Also identified as WSMR-82 |
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| SWMU 102 | Burn Pan | |
| SWMU 103 | Scrap Metal Yard | |
| SWMU 108 | Vapor Extraction Well at TTF | Also identified as WSMR-41 |
| SWMU 109 | Drum Storage Area (Splash Pan) at TTF | |
| SWMU 110 | Methylene Chloride Catchment System at TTF | |
| SWMU 111 | Methylene Chloride Separation System at TTF | |
| SWMU 112 | Methylene Chloride Separation System at TTF | |
| SWMU 113 | Salt Water Evaporation Tanks at TTF | |
| SWMU 116 | Rhodes Subgrade Asphalt Tanks | SWMUs 116, 117, & 118 were combined into SWMU 116, Also identified as WSMR-75 |
| SWMU 119 | Stallion Range Landfill | Also identified as WSMR-70 |

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| SWMU 120 | Former Stallion Center Landfill | Also identified as WSMR-70 |
| SWMU 121 | Stallion Asphalt Tank | Also identified as WSMR-67 |
| SWMU 122 | Stallion Asphalt Tank | Also identified as WSMR-67 |
| SWMU 123 | Stallion Asphalt Tank | Also identified as WSMR-67 |
| SWMU 124 | Waste Oil Storage Tank @ Stallion | |
| SWMU 125 | Veterinary Clinic @ McAfee Clinic Incinerators | Also identified as WSMR-77 |
| SWMU 126 | Veterinary Clinic @ McAfee Clinic Incinerators | |
| SWMU 127 | Autoclave at McAfee Clinic | |
| SWMU 128 | Silver Recovery System Tailing Tank | |
| SWMU 129 | Cyanide Treatment Unit at Building 1512 | |
| SWMU 130 | Former Spent Developer Storage Tank / Acetic Acid Spill Containment Tank | |
| SWMU 131 | Former Spent Developer Storage Tank / Acetic Acid Spill Containment Tank | |
| SWMU 132 | Orogrande Waste Stabilization Pond | Ft. Bliss operated SWMU, Also identified as WSMR-76 |
| SWMU 133 | NOMTS Machine Shop Accumulation Area | |
| SWMU 134 | NOMTS Outdoor Accumulation Area | |
| SWMU 135 | Paint Shop Accumulation Area | |
| SWMU 136 | Paint Shop Spray Booth | |
| SWMU 137 | Paint Shop Sump | Also identified as WSMR-56, |
| SWMU 138 | Waste Accumulation Area @ RATSCAT | |
| SWMU 141 | Equipment Storage Area | Also identified as WSMR-83 |
| SWMU 143 | HELSTF Storage Yard Chromium Spill Site | Also identified as WSMR-54 |
| SWMU 144 | HELSTF Laser System Test Center Wastewater Discharge Pond | Also identified as WSMR-47 |
| SWMU 145 | HELSTF Test Cell Lagoons | Also identified as WSMR-53 |
| SWMU 146 | HELSTF STP Dry Pond | Also identified as WSMR-45 |
| SWMU 147 | Decontamination Pad & Underground Holding Tank | Also identified as WSMR-78 |
| SWMU 148 | Former MAR Waste Stabilization Pond | Also identified as WSMR-83 |
| SWMU 149 | Maintenance Building Septic System | Also identified as WSMR-46 |
| SWMU 150 | MAR Dump Site | |
| SWMU 151 | Trailer Area Septic System | Also identified as WSMR-46 |
| SWMU 152 | Property and Supply Building Septic System | Also identified as WSMR-46 |
| SWMU 153 | Vandal Burial Site | Also identified as WSMR-58 |
| SWMU 154 | HELSTF Systematic Diesel Spill Site | Also identified as WSMR-55 |
| SWMU 157 | Former Oscura Range Center Landfill-A | Also identified as WSMR-05 |
| SWMU 159 | Former Oscura Range Center Landfill-C | Also identified as WSMR-05 |
| SWMU 162 | Stallion Range Center Former Fire | Also identified as WSMR-66 |

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| | Fighting Training Area | |
| SWMU 164 | AMRAD Facility | |
| SWMU 165 | LC-34 Contaminated Soils @ Buildings 23104 & 23106 | |
| SWMU 166 | Denver | |
| SWMU 167 | Malpais | |
| SWMU 168 | Lance Missile Impact @ White Sands National Monument | |
| SWMU 197 | HELSTF Technical Support Area | |
| SWMU 198 | LC-38 Diesel Fuel Oil Release | |
| SWMU 199 | Hardin Ranch First Site | |
| SWMU 200 | Hardin Ranch Second Site | |
| SWMU 201 | RAM (Facility 6002) Site | |
| SWMU 202 | Dead Horse Instrumentation Site | |
| SWMU 203 | Oscura (Facility 31795) Communication Site | |
| SWMU 204 | Harriet (Facility 34600) Instrumentation Site | |
| SWMU 205 | SE-70 (Facility S-31427) Instrumentation Site | |
| SWMU 206 | Atom (Facility S-33151) First Site | |
| SWMU 207 | Atom (Facility S-33151) Second Site | |
| SWMU 208 | SE-50 (Facility 29055) Instrumentation Site | |
| SWMU 209 | EC-50 (Facility 29085) Instrumentation Site | |
| SWMU 210 | Minnow (Facility S-31132) Instrumentation Site | |
| SWMU 211 | Cowan Instrumentation Site | |
| SWMU 212 | NM-70 (Facility S-31620) Instrumentation Site | |
| SWMU 213 | Gran Jean (Facility S-34050) Instrumentation Site | |
| SWMU 214 | NE-50 (Facility 29090) Instrumentation Site | |
| SWMU 215 | Missile Graveyard | |
| SWMU 216 | UST at Timing Station, Building 20710, LC-32 (Uncle Site) | |
| SWMU 217 | AAFES Gas Station at Building 270 | |
| SWMU 218 | LC-38-Building 23626 | 1,764-gallon steel UST |
| SWMU 219 | Main Post POL | AST Release Site |
| AOC A | Sink & Drain System @ Building 1621 | |

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| AOC B | Battery Accumulation Area @ North Oscura | |
| AOC D | Drum Storage Area @ STP | |
| AOC E | Pesticide Storage Area | |
| AOC G | Brine (MeCl) Storage Tank | |
| AOC H, I, J, K, & L | Methylene Chloride Tanks (five tanks) | |
| AOC P | Chemistry Laboratory Drains at Building 1530 | |
| AOC S | Septic Tanks with Leach Fields | Also identified as WSMR-69 |
| AOC V | HELSTF Pressure Recovery System | |
| AOC W | Davies Tank | |
| AOC X | Stallion Range Desalinization/Sewage Lagoons | |
| AOC Y | Stormwater Drainage Ditches | From RFA* section 6.21, page 6-10 |
| AOC Z | Abandoned Underground Storage Tank | From RFA* section 6.22, page 6-10 |
| AOC AA | Alamogordo Bombing Range | Also identified as WSMR-003-R-01; Active Range, Deferred |
| AOC AB | Sewage Lagoon | Also identified as WSMR-004-R-01 |
| AOC AC | Condron Field | Also identified as WSMR-005-R-01 |
| AOC AD | Main Cantonment Area | Also identified as WSMR-006-R-01 |
| AOC AE | Red Rio Bombing Range | Active Range, Deferred |
| AOC AF | Oscura Bombing Range | Active Range, Deferred |
| AOC AG | Main Post Skeet Range | Active Range, Deferred |

* WSMR RCRA Facility Assessment PR/VSI Report, A.T. Kearney, Inc, August 1988

**TABLE 4-2
 SWMUs & AOCs
 CORRECTIVE ACTION COMPLETE WITH CONTROLS**

| UNIT ID NUMBER | UNIT DESCRIPTION | COMMENTS |
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**TABLE 4-3
 SWMUs & AOCs
 CORRECTIVE ACTION COMPLETE WITHOUT CONTROLS**

| UNIT ID NUMBER | UNIT DESCRIPTION | COMMENTS |
|-----------------------|---|--|
| SWMU 219 | Hawk Facility, Building 204548 at LC-38 | 3,000-gallon UST |
| SWMU 220 | Rhodes Canyon Range Center POL Station, Building 30725-1 & 2) | |
| SWMU 139 | | No corresponding SWMU unit assigned to this number |
| AOC C | Areas Where heavy pesticides and/or herbicides were used | |
| AOC F | Methane Vent (Flare) at STP | |
| AOC M | Exploded / Unexploded Low Level Radioactive Ordnance | |
| AOC N | Process Spills at HELSTF | |
| AOC O | Miscellaneous Areas ID'd by Aerial Photos | |
| AOC Q | HELSTF Lab Drains | |
| AOC T | Collection Lines to the STP | |
| AOC U | Miscellaneous Spills | |
| SWMU 21 | Main Post Former Fire Fighting Training Area & Pit | Also identified as WSMR-31 |
| SWMU 140 | LC-37 Paint Dump | Also identified as WSMR-84 |
| SWMU 107 | Storage Tank at Temperature Test Facility (TTF) | Also identified as WSMR-35 |
| SWMU 156 | Former Golf Course Pesticide Storage Shed @ Building T-1348 | Also identified as WSMR-57 |
| SWMU 163 | Abandoned Disposal Trench @ New Commissary | Also identified as WSMR-72 |

**TABLE 4-4
 HAZARDOUS WASTE MANAGEMENT UNITS**

| UNIT ID NUMBER | UNIT DESCRIPTION | COMMENTS |
|-----------------------|---|--|
| SWMU 38 | HELSTF Landfill | Also identified as WSMR-52, Closure required |
| SWMU 39 | HELSTF Landfill | Also identified as WSMR-52, Closure required |
| SWMU 41 | Oscura Munitions Landfill | Also identified as WSMR-03, Closure required |
| SWMU 42 | Oscura Munitions Landfill | Also identified as WSMR-03, Closure required |
| SWMU 43 | Oscura Munitions Landfill | Also identified as WSMR-03, Closure required |
| SWMU 44 | Oscura Munitions Landfill | Also identified as WSMR-03, Closure required |
| SWMU 45 | Oscura Munitions Landfill | Also identified as WSMR-03, Closure required |
| SWMU 46 | Oscura Munitions Landfill | Also identified as WSMR-03, Closure required |
| SWMU 50 | Red Rio North Landfill | Also identified as WSMR-02, SWMUs 50-54 were combined into SWMU 50, Closure required |
| SWMU 55 | Open Burn Pit at the OB/OD | Post Closure Care Plan Required |
| SWMU 56 | Open Detonation Pit at the OB/OD | Post Closure Care Plan Required |
| SWMU 56A | Open Detonation Pit at the OB/OD | Post Closure Care Plan Required |
| SWMU 57 | Tula Peak Burial Sites | Also identified as WSMR-23, SWMUs 57-60 were combined into SWMU 57, Closure required |
| SWMU 61 | Tula Peak Incinerator | Also identified as WSMR-24, Closure required |
| SWMU 65 | Former Main Post Landfill #3 at Scrap Yard | Also identified as WSMR-61, Closure required |
| SWMU 82 | Former STP Ditches | SWMUs 82 and 83 were combined into SWMU 82. Also identified as WSMR-62, Closure required |
| SWMU 88 | Container Storage Area | Operating |
| SWMU 89 | Former Acid Neutralization Unit at the Hazardous Waste Storage Facility | Also identified as WSMR-27, Closure required |
| SWMU 90 | Evaporation Tank at Building 22895 | Also identified as WSMR-37, Clean closure complete |
| SWMU 91 | Hazardous Waste Landfill | Clean closure complete |

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| SWMU 92A | Liquid Propellant Evaporation Neutralization Pits | Closure required, Also identified as WSMR-11 |
| SWMU 92B | Liquid Propellant Evaporation – Neutralization Pit 2 | Closure required, Also identified as WSMR-11 |
| SWMU 93 | Liquid Propellant Evaporation Neutralization Pits | Closure required, Also identified as WSMR-11 |
| SWMU 94 | Liquid Propellant Evaporation – Neutralization Pit 4 | Closure required, Also identified as WSMR-11 |
| SWMU 95 | Liquid Propellant Evaporation Neutralization Pits | Closure required, Also identified as WSMR-11 |
| SWMU 96 | Liquid Propellant Evaporation Neutralization Pits | Closure required, Also identified as WSMR-11 |
| SWMU 97 | Liquid Propellant Evaporation Neutralization Pits | Closure required, Also identified as WSMR-11 |
| SWMU 98 | Liquid Propellant Evaporation Neutralization Pits | Closure required, Also identified as WSMR-11 |
| SWMU 99 | Liquid Propellant Evaporation Neutralization Pits | Closure required, Also identified as WSMR-11 |
| SWMU 100 | Liquid Propellant Evaporation Neutralization Pits | Closure required, Also identified as WSMR-11 |
| SWMU 101 | Acid Neutralization Pit | Closure required |
| SWMU 104 | Temperature Test Facility | Also identified as WSMR-34, Clean closure complete |
| SWMU 105 | New Evaporation Tank at TTF | Closure complete |
| SWMU 106 | Discharge Pipe at TTF | Closure required |
| SWMU 114 | Rhodes Canyon Landfill | Also identified as WSMR-14, Closure complete, Post-closure Plan is included in the approved CMI Report |
| SWMU 115 | Rhodes Canyon Landfill | Also identified as WSMR-14, Closure complete. Post-closure care plan is included in the approved CMI Report |
| SWMU 142 | HELSTF Cleaning Facility Sump | Also identified as WSMR-48, Closure required |
| SWMU 155 | Red Rio South Landfill | Closure required |
| SWMU 158 | Former Oscura Range Landfill | Also identified as WSMR-05, Clean closure complete |
| SWMU 160 | Nuclear Effects Reactor Facility Pond #1 | Also identified as WSMR-09, Clean closure complete |
| SWMU 161 | Nuclear Effects Reactor Facility Pond #2 | Also identified as WSMR-09, Clean closure complete |

Table 8-2

SWMUs & AOCs Requiring Corrective Action

SWMUs and AOCs where Corrective Action is in Progress are listed in Appendix 4

| Unit ID Number (SWMU & AOC#) | Unit Description | Work Plan Submittal Date |
|------------------------------|---|--|
| | SWMUs 167, 168 and AOC V | May 1, 2011 Release Assessment |
| AOC V | HELSTF Pressure Recovery System | |
| 219 | Main Post POL | May 15, 2010 |
| 132 | Orogrande Waste Stabilization Pond | September 1, 2011 |
| 162 | Stallion Range Center Former Fire Fighting Area | November 1, 2011 |
| 164 | AMRAD Facility | January 1, 2011 |
| 165 | LC - 34 Contaminated Soils @ Buildings 23104 & 23106 | June 1, 2012 |
| 198 | LC - 38 Diesel Fuel Oil Release | December 1, 2012 |
| | SWMUs 40, 47, 48, 81, 102, 116 | July 1, 2013 Release Assessment |
| 40 | Waste Oil Accumulation Drum | |
| 81 | Boiler at the STP | |
| 102 | Burn Pan | |
| 116 | Rhodes Subgrade Asphalt Tanks | |
| | SWMUs 107 - 113 | May 1, 2013 Release Assessment |
| 107 | Storage Tank at Temperature Test Facility (TTF) | |
| 108 | Vapor Extraction Well at TTF | |
| 109 | Drum Storage Area (Splash Pan) at TTF | |
| 110 | Methylene Chloride Catchment System at TTF | |
| 111 | Methylene Chloride Separation System at TTF | |
| 112 | Methylene Chloride Separation System at TTF | |
| | SWMUs 121 - 131 and 133, 134 | August 1, 2014 Release Assessment |
| 121 | Stallion Asphalt Tank | |
| 122 | Stallion Asphalt Tank | |
| 123 | Stallion Asphalt Tank | |
| 124 | Waste Oil Storage Tank @ Stallion | |
| 125 | Veterinary Clinic @ McAfee Clinic Incinerators | Submitted |

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| 126 | Veterinary Clinic @ McAfee Clinic Incinerators | |
| 127 | Autoclave at McAfee Clinic | |
| 128 | Silver Recovery System Tailing Tank | |
| 129 | Cyanide Treatment Unit at Building 1512 | |
| 130 | Former Spent Developer Storage Tank / Acetic Acid Spill Containment Tank | |
| 131 | Former Spent Developer Storage Tank / Acetic Acid Spill Containment Tank | |
| 133 | NOMTS Machine Shop Accumulation Area | |
| 134 | NOMTS Outdoor Accumulation Area | |
| | SWMUs 1 - 7 and 135 | December 1, 2014 |
| 1 | Floor Drain for Building 1621 | |
| 2 | Bleach and Fixer Collection Containers | |
| 3 | Bleach and Fixer Collection Containers | |
| 4 | Bleach and Fixer Collection Containers | |
| 5 | Bleach and Fixer Collection Containers | December 1, 2014 |
| 6 | Bleach and Fixer Collection Containers | |
| 7 | Silver Recovery Unit Tailing Tank | |
| 135 | Paint Shop Accumulation Area | |
| | SWMUs 136 - 138, 153, 163, 216 | July 1, 2015 Release Assessment |
| | AOCs A, B, D, E, G, H - L, P, S, W - Z | |
| 136 | Paint Shop Spray Booth | |
| 137 | Paint Shop Sump | Submitted |
| 138 | Waste Accumulation Area @ RATSCAT | |
| 153 | Vandal Burial Site | Submitted |
| 163 | Abandoned Disposal Trench @ New Commissary | |
| AOC A | Sink & Drain System @ Building 1621 | |
| AOC B | Battery accumulation Area @ North Oscura | |
| AOC D | Drum Storage Area @ STP | |
| AOC E | Pesticide Storage Area | |
| AOC G | Brine (MeCl) Storage Tank | |
| AOC H,I, J, K,L | Methylene Chloride Tanks (five tanks) | |
| AOC P | Chemistry Laboratory Drains at Building 1530 | |

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|---------------|---|------------------------|
| AOC S | Septic Tanks with Leach Fields | |
| AOC W | Davies Tank | |
| AOC X | Stallion Range Desalinization/Sewage Lagoons | |
| AOC Y | Storm Water Drainage Ditches | |
| AOC Z | Abandoned Underground Storage Tank | |
| AOC AB | Sewage Lagoon | October 1, 2015 |
| AOC AD | Main Cantonment Area | January 1, 2015 |
| 218 | LC - 38 Building 23626 | March 1, 2015 |