



DEPARTMENT OF THE NAVY  
CRANE DIVISION  
NAVAL SURFACE WARFARE CENTER  
300 HIGHWAY 361  
CRANE INDIANA 47522-5001

N00164.AR.000933  
NSWC CRANE  
5090.3a

IN REPLY REFER TO  
5090/S4.7  
Ser RP3/5083  
2 MAR 2005

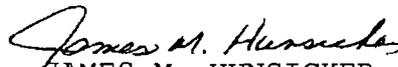
Indiana Department of Environmental Management  
Corrective Action Section  
Office Of Land Quality  
Hazardous Waste Permits  
100 N Senate Ave  
PO Box 6015  
Indianapolis, In 46206-6015

Dear Mr. Workman:

Crane Division, Naval Surface Warfare Center submits an addendum to the Class 1 modification request submitted on February 14, 2005. This addendum includes revised language for the description of the Load and Fill Area Buildings (L&FAB), Solid Waste Management Unit 18 in Appendix J. The description for the L&FAB includes added language addressing the test pads on the hill behind Building 198. A correction to the revised Exhibit J-1 is also provided to reflect the No Further Action Status for the Landfarm, Solid Waste Management Unit 30. These revisions are found in enclosure (1). The permit required Certification Statement is provided as enclosure (2).

If you require any further information, my point of contact is Mr. Thomas J. Brent, Code RP3-TB, at 812-854-6160, email thomas.brent@navy.mil.

Sincerely,

  
JAMES M. HUNSICKER

Manager, Environmental Protection

By direction of the Commanding Officer

Enclosures: 1. Revised Section J Addendum  
2. Certification Statement

Copy to:  
ADMINISTRATIVE RECORD  
SOUTHNAVFACENGCOM (Code ES31)  
USEPA (Pete Ramanauskas)  
IDEM (Doug Griffin)

**REVISED SECTION J**

Attachment 1  
Marked-up Change Pages (Revised)

Attachment 2  
Change Pages for Insertion (Revised)

Attachment 3  
Exhibit J-1  
SWMU and AOC Map  
(Corrected)

Attachment 1  
Marked-up Change Pages  
(Revised)

**ATTACHMENT VIII**

**(SECTION J)**

**CORRECTIVE ACTION FOR SOLID WASTE MANAGEMENT UNITS**

**J-1. Solid Waste Management Units**

SWMU 01/12 Mustard Gas Burial Grounds (MGBG)  
SWMU 02/11 Dye Burial Grounds (DBG)  
SWMU 03/10 Ammunition Burning Grounds/Jeep Trail Area (ABG)  
SWMU 04/02 McComish Gorge (MCG)  
SWMU 05/03 Old Bum Pit (OBP)  
SWMU 06/09 Demolition Area (DEMO)  
SWMU 07/09 Old Rifle Range (ORR)  
SWMU 08/17 Load and Fill Area, B-106 Pond (B106P)  
SWMU 09/05 Pesticide Control Area/R-150 Tank (PCA)  
SWMU 10/15 Rockeye (RKI)  
SWMU 11/00 Old Storage Building, B-225 (B225)  
SWMU 12/14 Mine Fill A (MFA)  
SWMU 13/14 Mine Fill B (MFB)  
SWMU 14/00 Sanitary Landfill and Lithium Battery Burial (SLF&LB)  
SWMU 15/06 Roads and Grounds Area (R&GA)  
SWMU 16/16 Cast High Explosives Fill/B146 Incinerator (B146)  
SWMU 17/04 PCB Capacitor Burial & Pole Yard (PCB-PY)  
SWMU 18/13 Load and Fill Area Buildings (L&FAB)  
SWMU 19/00 Pyrotechnic Test Area/Annex/Rocket Range Impact Area (PTA)  
SWMU 20/00 CAAA QA/QC Test Area (CAAA)  
SWMU 21/00 DRMO Storage Lot (DRMO)  
SWMU 22/00 Lead Azide (PbA)  
SWMU 23/00 Battery Shop (BS)  
SWMU 24/00 Sludge Drying Beds A & B (SDBA&B)  
SWMU 25/07D Highway 58 Dump Site A (H58A)  
SWMU 26/08D Highway 58 Dump Site B (H58B)  
SWMU 27/00 Illuminant Building B-126 (B126)  
SWMU 28/00 Maintenance Shop, B-1820 (B1820)  
SWMU 29/07 PCP Dip Tank, B-56 (B56)  
SWMU 30/00 Land Farm (LF) Sludge Application Site  
SWMU 31/00 Compressed Gas Cylinder Site (CGC)  
SWMU 32/00 Tank Farm (TF)  
SWMU 33/00 Bioremediation Facility (BRF)

AOC 01/00 Grit Blast Site – B3220 (GBS)

AOC 02/00 B-2044 Drop Tower/Test Rail (B2044)

This was the site of explosives load and fill operations, and is currently used for renovation, rework, and loading of munitions items. Explosives and metals contamination exists in the soil, sediments, surface water, and possibly groundwater. This SWMU includes test pads on the hill behind B-198 which is a cleared area seen in historical aerial photos dating to 1952. Reportedly, sand pads were used from 1983 through 1985 for development and testing safe disposal methods for various types of dyes. An RFI is planned to address all media. The RFI investigation of this SWMU as well as SWMU 08/17 and S M W 11/00 may be included under one plan due to the close proximity of the units to one another. This RFI is not currently scheduled.

**S. SWMU 19/00 PYROTECHNIC TEST AREA/ANNEX/ROCKET RANGE IMPACT AREA (PTA)**

This site is also known as the Ordnance Test Area and consists of three physically separate areas that perform related functions. Each area consists of a large open field **and** a concrete building used for quality assurance test burning of pyrotechnic lots. Boggs Creek flows through the center of or nearby each area. Contamination from pyrotechnic testing includes chlorates, dyes, oxidizers, fuels, and other by-products of flares and smoke. **An RFI Workplan for all media is planned for this site and has been scheduled for 2001.**

**T. SWMU 20/00 CAAA QA/OC TEST AREA (CAAA)**

QA/QC testing of pyrotechnics devices is conducted at Building 2167. Lead chromate contamination has been identified on the surface of the ground from testing **MARK1-3** flares. There is an indication of stressed vegetation from past operations. The potential for remediation of explosives contaminated soil from this site at the Bioremediation Facility (SWMU 33) is being investigated. **An RFI for all media will be needed.**

**U. SWMU 21/00 DRMO STORAGE LOT (DRMO)**

This **SWMU** is a level gravel pad which is approximately a 20 acre area. It is used as a **scrap** metal salvage area. Metal shavings **containing** cutting oil are placed on a pad, which collects the oil for **recycling**. Prior to the late 1960's the oil in metal shavings drained onto the ground in the area. **An RFI for all media will be needed for this site. The RFI has not yet been scheduled.**

**V. SWMU 22/00 LEAD AZIDE (PbA)**

This SWMU is an unlined pond that received wastewater containing lead salts. The pond was closed in 1981, and contaminated **effluent** and soil were removed. **An RFI is planned to address all media. This RFI is not currently scheduled.**

**W. SWMU 23/00 BATTERY SHOP (BS)**

Spent battery acid and waste oil from forklift servicing was disposed of by allowing it to flow down the hill onto a bank behind the Battery Shop, Building 36. Surface drainage from the bank flowed into a storm drain, which drains into Lake Greenwood. As an Interim Measure, superficial debris was removed and disposed of as trash. **An RFI Workplan is planned to address all media.**

**X. SWMU 24/00 SLUDGE DRYING BEDS A & B (SDBA&B)**

This **SWMU** consists of cells that were used for sewage sludge drying prior to land application of the sludge. The sludge applied was apparently produced prior to the treatment system that is

currently in place, and may have contained certain hazardous constituents from industrial effluent. As an Interim Measure, the **sludge/soils** of sludge beds A and B were characterized. Sludge bed A was considered not contaminated. A section of sludge bed B was contaminated with a slight amount of DDT. The entire sludge bed B area was excavated and removed including the chain link fence and concrete retaining walls. A request for a No Further Action determination has been approved by U.S.EPA.

Y. SWMU 25/07D HIGHWAY 58 DUMP SITE A (H58A)

Debris at this site consists of **paper**, cardboard containers, paints, thinners, lubrication and hydraulic fluids, scrap metal, concrete block, and pipe. **This site** has undergone a partial debris removal. The debris was contaminated with asbestos, so was disposed of as a special waste at an **offsite** permitted landfill. Site renovation included **backfilling**, seeding, and mulching to prevent soil erosion. **An RFI** will be conducted at this site to determine if further remedial action is needed.

Z. SWMU 26/08D HIGHWAY 58 DUMP SITE B (H58B)

This is a dump site at the base of a massive sandstone outcrop. The debris consisted of paper, cardboard containers, paints, thinners, lubrication and hydraulic fluids, scrap metal, containers and drums, corrugated pipe, and transite siding. Fifteen crushed and rusted drums (contents unknown) were seen at the site. All of the waste has been removed, and a request for a determination of No Further Action required for the soils has been approved by U.S.EPA. **An RFI** will investigate impacts to the ground water and the need for further remedial action.

AA. SWMU 27/00 ILLUMINANT BUILDING B-126 (B126)

Contamination at this site includes red **phosphorous**, chlorates, dyes, oxidizers, and fuels for flares and smoke munitions. The building used sump pits which were pumped out by trucks and taken to the burning grounds. All sump overflow drained into the Boggs Creek watershed. A metal plating shop utilizing metals, caustics, acids, and cyanides is also present. Significant heavy metal contamination (zinc and cadmium) has been experienced from wastewater being discharged into open ditches. There are also bum areas; one behind Building 126 and one across Highway 5. **An RFI** will investigate impacts to all media and the need for remedial action. This RFI is not yet scheduled.

BB. SWMU 28/00 MAINTENANCE SHOP. B-1820 (B1820)

This is an automotive repair shop. Adjacent to the building was a large metal drip pan on wooden posts, which drained into an underground waste oil storage tank. Waste oil **from** various drip pans and gallon jugs were emptied and washed in the metal drip pan. The ground beneath the unit was covered with oil stains. **An RFI** will investigate impacts to all media and the need for remedial action. This RFI is not yet scheduled.

CC. SWMU 29/00 PCP DIP TANK, B-56 (B56)

The PCP Dip Tank was used for dipping untreated wood into **pentachlorophenol**. The building also contains some solvent storage tanks. **An RFI** will investigate impacts to all media and the need for remedial action. This RFI is not yet scheduled.

DD. SWMU 30/00 LAND FARM (LF)

This SWMU consists of 18 miles of roadside where liquid sludge from the sewage treatment plant was land applied. Sludge that accumulated was spread along 18 miles of roadside by a

vacuum truck. Currently, NSWC land applies sludge on a permitted 2.5 acre site. ~~An RFI Workplan to address the potential impact on the ground water has been approved by U.S.EPA. Surface water impacts have not been addressed but will be in a future RFI if appropriate. The current work is in the 2.5 acre Land Farm area. The results of this work will be used to determine the need for activity along the 18 miles of roadside.~~ Ground water and soil/sludge samples were collected leading to the conclusion that no excess risk existed from the previous application of sludges that were possibly contaminated with plating wastes. A request for a No Further Action determination has been approved by the U. S. EPA.

EE. SWMU 31/00 COMPRESSED GAS CYLINDER SITE (CGC)

This was an abandoned compressed gas cylinder disposal area adjacent to Building 64. An interim removal measure remediated the site in 1990. Based on the currently available information no further corrective measures are required at this site.

FF. SWMU 32/00 TANK FARM

This site has had at least one release. The tanks have been removed and an RFI to investigate all media is planned but not yet scheduled.

GG. SWMU 33/00 BIOREMEDIATION FACILITY (BRF')

This SWMU is an active treatment facility. Potential corrective measures will be determined when the site closes.

HH. AOC 01/00 GRIT BLAST SITE - B3220 (GBS)

The unenclosed building, 3220, was used for a grit blasting site for the removal of old paint off of railroad cars. Waste material was allowed to fall on the ground contaminating the area. The waste material that was generated from the grit blasting consisted of residual grit blast material and paint chips that contained regulated Chromium levels, and probably lead. A considerable amount of the waste material was placed together creating a non-permitted hazardous waste pile containing a **DO07** waste. The waste pile has since been removed and a closure plan for the remaining area is currently under review by EPA.

II. AOC 02/00 B-2044 Drop Tower/Test Rail (B2044)

Used from 1951 through 1973 for the drop testing of 20-mm cartridges as well as functional testing of cartridge actuated devices (CADs) and propellant actuated devices (PADs) used in ejection seats. The site consists of a drop tower approximately 100 feet tall and a test rail approximately 97 feet in length. The 20-mm cartridges were dropped from the tower onto a concrete pad. The CADs and PADs were tested on the test rail. An RFI will investigate impacts to all media and the need for remedial action. This RFI is not yet scheduled.

Attachment (2)  
Change Pages for Insertion  
(Revised)

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AOC 02/00 B-2044 Drop **Tower/Test** Rail (**B2044**)

J-1a Characterize the Solid Waste Management Units and Areas of Concern

Exhibit J-1, located at the end of this Attachment, is a drawing of the facility showing the location of all the SWMUs and AOCs.

J-2. Releases

A. SWMU 01/12 MUSTARD GAS BURIAL GROUNDS (MGBG)

Two previous investigations have removed bomb casings from this site. A RCRA Facility Investigation (RFI) incorporating a baseline human health and a screening level ecological risk assessment (RA) is being prepared for all media to determine the need for further action. The RFI fieldwork and report have been funded for 2002.

B. SWMU 02/11 DYE BURIAL GROUNDS (DBG)

An RFI incorporating a baseline human health and a screening level ecological RA is being prepared for all media to determine the need for future action. A RCRA cap has been placed as an Interim Measure (IM). A future Corrective Measures Study (CMS) will determine if the cap can be used as a final remedy. The proposed date for the RFI fieldwork is 2001.

C. SWMU 03/10 AMMUNITION BURNING GROUNDS (ABG)

A Natural Attenuation Study of the ground water at this SWMU is ongoing. Expected completion date of field activities is 2001. A multimedia RFI incorporating a baseline human health and a screening level ecological RA/CMS is planned for the Little Sulfur Creek area associated with the ABG area and the Old Jeep Trail (OJT) area. The proposed date for fieldwork is 2001. A CMS for the ABG and OJT is planned for 2002. Ground water compliance monitoring is addressed under the Subpart X Permit. Work is ongoing to determine if composting will occur at this site.

D. SWMU 04/02 McCOMISH GORGE (MCG)

Undefined amounts and types of garbage and trash were buried at this site. Burial debris could include wood, paper, construction material, plaster-filled warheads, metal shavings, and industrial wastes. Previous work has partially delineated the extent of the debris. The U.S.EPA has approved the Quality Assurance Project Plan (QAPP) and RFI/RA Workplan to do additional multimedia sampling, delineate the fill area, and determine the need for future action. The field work and report will be completed in 2002.

E. SWMU 05/03 OLD BURN PIT (OBP)

The Old Burn Pit encompasses a narrow stream valley where material was burned in a depression or pit and the ash and metallic objects were buried in a gully to the north of the burning pit. The rubbish included wood, paper, building material and industrial wastes. Previous work has included soil and groundwater sampling and removal of some of the debris. The U.S.EPA has approved the QAPP and RFI/RA Workplan to do additional multimedia sampling and determine the need for further action. The fieldwork and report will be completed in 2002.

This was the site of explosives load and fill operations, and is currently used for renovation, rework, and loading of munitions items. Explosives and metals contamination exists in the soil, sediments, surface water, and possibly groundwater. This SWMU includes test pads on the hill behind B-198 which is a cleared area seen in historical aerial photos dating to 1952. Reportedly, sand pads were used from 1983 through 1985 for development and testing safe disposal methods for various types of dyes. An RFI is planned to address all media. The RFI investigation of this SWMU as well as SWMU 08/17 and S M W 11/00 may be included under one plan due to the close proximity of the units to one another. This RFI is not currently scheduled.

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This SWMU is an unlined pond that received wastewater containing lead salts. The pond was closed in 1981, and **contaminated** effluent and soil were removed. **An RFI** is **planned** to address all media. This **RFI** is not currently scheduled.

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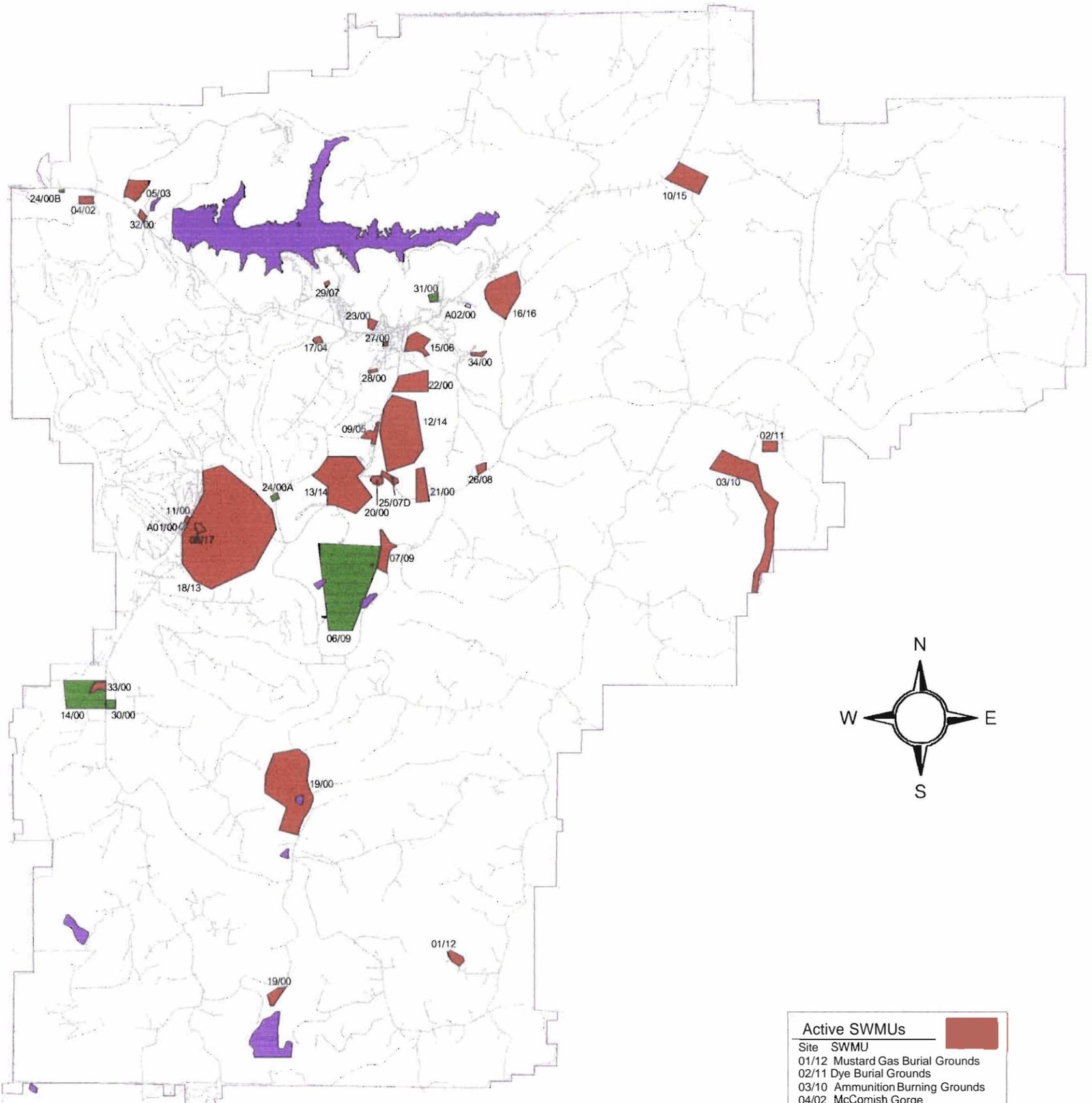
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Used from 1951 through 1973 for the drop testing of 20-mm cartridges as well as functional testing of cartridge actuated devices (CADs) and propellant actuated devices (PADs) used in ejection seats. The site consists of a drop tower approximately 100 feet tall and a test rail approximately 97 feet in length. The 20-mm cartridges were dropped from the tower onto a concrete pad. The CADs and PADs were tested on the test rail. An RFI will investigate impacts to all media and the need for remedial action. This RFI is not yet scheduled.

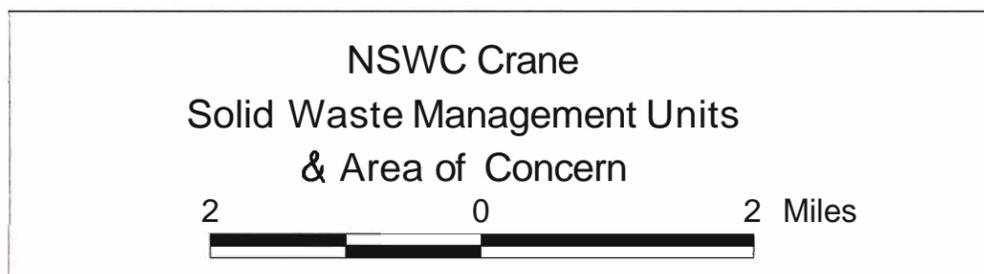
Attachment 3  
Exhibit J-1  
SWMU and AOC Map  
(Corrected)



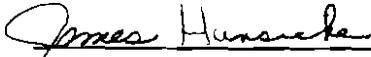
SWMUs Requiring No Further Action	
Site	SWMU
06/09	Demolition Range
14/00	SLF - Li-Battery Burial
24/00	Sludge Drying Beds A&B
30/00	Land Farm
31/00	Comp. Gas Cylinder Site

Area of Concern	
Site	AOC
A01/00	Grit Blast Site
A02/00	B-2044 Drop Tower/Test Rail

Active SWMUs	
Site	SWMU
01/12	Mustard Gas Burial Grounds
02/11	Dye Burial Grounds
03/10	Ammunition Burning Grounds
04/02	McComish Gorge
05/03	Old Burn Pit
07/09	Old Rifle Range
08/17	Building 106 Pond
09/05	Pesticide Area/R150 Tank
10/15	Rockeye
11/00	Old Storage 8225
12/14	Mine Fill A
13/14	Mine Fill B
15/06	Roads & Grounds Area
16/16	Cast Hi-Ex Fill/B146 Incin
17/04	PCB Cap. Burial/Pole Yard
18/13	Load & Fill Area Buildings
19/00	Rocket Range
20/00	CAAA QA/QC Test Area
21/00	DRMO Storage Lot
22/00	Lead Azide
23/00	Battery Shop
25/07	Highway 58 Dumpsite A
26/08	Highway 58 Dumpsite B
27/00	Illuminant Building, B126
28/00	Maint. Shop, B1820
29/07	PCP Dip Tank, B56
32/00	Tank Farm
33/00	Bioremediation Facility
34/00	Old Gun Tub Storage Lot



I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

  
SIGNATURE

Manager, Environmental Protection  
TITLE

3/2/05  
DATE