



**H2Bravo**

May 23, 2018

SGM (R) Winston Matejowsky  
Project Coordinator  
Louisiana Military Department  
200 Louisiana Avenue  
Minden, LA 71055

**Re: Revised Workplan for Waste Disposal – Redbags  
Louisiana State Military Department  
Camp Minden  
1600 Java Road  
Minden, Louisiana  
LDEQ Agency Interest No. 8993**

H2Bravo along with environmental consultant PPM Consultants, Inc. (PPM), herein submits a Revised Workplan to dispose of Redbags stored at the above-referenced facility. This revised plan replaces previously submitted and reviewed plan to address the comments by LDEQ and EPA related to the initial plan submission. H2Bravo and PPM appreciates the expeditious review of this workplan, which will allow for implementation of the proposed work.

Should you have any questions or require additional information, please do not hesitate to contact me at (225) 614-7961.

Sincerely,

Mark A. Howard  
Program Manager

Attachments



Program & Construction Management

Addendum 1 to Removal Action Work Plan dated 25 AUG 2015

Revision 1 – 5.23.18



## **TABLE OF CONTENTS**

### **1.0 Background**

### **2.0 Scope of Work**

- 2.1 Current Situation and Storage Location
- 2.2 Relocation of Redbags
- 2.3 Redbags Clearance Operations
- 2.4 M6 Propellant Storage and Disposal
- 2.5 Cleared Redbags Processing, Removal and Disposal
- 2.6 Non-Hazardous Waste Material
- 2.7 Personnel Hazardous Waste and Explosives Training

### **3.0 Health and Safety Plan**

### **4.0 Traffic Control Plan**

### **5.0 Schedule**

### **Attachments**

#### Attachment A - Figures

- Figure 1 – Site Location Map
- Figure 2 – Redbags Location Map
- Figure 3 – Area I Site Map
- Figure 4 – Redbag Clearing Operations Layout
- Figure 5 – Traffic Control Plan

Attachment B – M6 Inspection and Disposal Certification Form

Attachment C – Ash Analytical Data

Attachment D – Chromium Analytical Data

Attachment E – Waste Profile (Waste Management)

Attachment F – Process Knowledge Information

Attachment G – Safety Data Sheet (SDS) for Lead and M6 Propellant

Attachment H – LDR Notification and Example Manifest

Attachment I – Third Party Authorization

Attachment J – Health and Safety Plan

## 1.0 BACKGROUND

Two warehouses on Camp Minden currently store approximately 1,300,000 Redbags that contained M6 Propellant and may still contain residual amounts of M6 Propellant in their current condition. In addition, the Redbags contain an inner lead foil sewn into the material and is considered hazardous waste under the Resource Conservation and Recovery Act (RCRA). The Redbags will be disposed under the Louisiana State Military Department's Environmental Protection Agency (EPA) identification number LAR000101283 and State AI# 211404.

## 2.0 SCOPE OF WORK

The scope of work described below provides the details of the preparation of the Redbags for inspection and removal of any M6 Propellant, consolidation of the cleared Redbags, transportation and disposal at an authorized landfill.

### 2.1 Current Situation and Storage Location

The Redbags and packaging materials are stored on Camp Minden in Area S, in the Change House, building #1601, and the Back Warehouse, building #1625. See **Figure 2, Redbags Current Location Map**, in **Attachment A**, for location of the Redbags in Area S. The condition of the warehouses (trash, poor building maintenance, overgrown brush) and the manner to which the Redbags are stored (boxes and bales are crushed, unstable, and difficult to access) will require H2Bravo to maneuver pallets, boxes, bales, and barrels of Redbags to a safe location in order to load the bags for transportation.

### 2.2 Relocation of Redbags

The bales/boxes/drum containers containing Redbags with residual M6 Propellant will be maneuvered by pallet jacks initially, then loaded by forklift, covered, and transported on a 24-foot steel trailer pulled by a ¾-ton pickup truck. Depending on the configuration of the bulk Redbags, four to six pallets, uni-pac boxes, or pallets of barrels will be placed and strapped down on the trailer for transportation. Bulk Redbags transported from Area S along Java Road for 3.37 miles to the processing and clearance site at Area I. (See **Figure 2, Redbags Current Location Map**, and **Figure 5, Traffic Control Plan**, in **Attachment A**, for traffic flow pattern.) Bulk Redbag amounts onsite at Area I shall not exceed a total amount that the team can process within one week. Bulk Redbags at Area I will be off-loaded from the trailer by forklift and placed in shipping containers for temporary storage or under the covered area for access by the team to process.

### 2.3 Redbags Clearance Operations

Redbags will be removed from the bulk containers / bales and brought to a clearing station for processing under the covered pavilion in Area I. H2Bravo

developed a mechanical clearing barrel consisting of PVC pipes, flanges, and wood tables for the reversal of the bags. In order to accomplish the 200% Department of Defense (DOD) compliant inspection requirement, the following protocol will be followed to ensure the hazard has been removed:

1. Redbags will be threaded onto the clearing barrel and pushed through the barrel with an aluminum rod and out the bottom of the table, thus turning the bags inside out.
2. A worker will retrieve the Redbag from the bottom of the clearing barrel and inspect the seams of the reversed bag for latent M6 Propellant (1<sup>st</sup> Inspection).
3. A second worker will secure the bag from the first worker, further inspect the Redbag (2<sup>nd</sup> Inspection) for latent M6 Propellant before placing the cleared Redbag into a bin for transport to the baling compactor located at the far end of the processing line.

Control measures are in place for both unprocessed and cleared Redbags to avoid mishandling and intermixing. Control measures include a series of both “dirty” and “clean” lines marked on the floor that the bags will pass over during the clearance process. Dirty bags must pass through the clearance centers before passing the clean lines. Dirty and clean Redbags are easy to distinguish as the inside of the bags are white fabric and are distinctly different when they have been turned inside out. Latent M6 Propellant will be captured by bins under the clearing barrels and reclaimed for disposal.

Production rates of Redbag clearance will be tracked by bulk packaging completed weekly. The Redbag clearing operations flow diagram is provided as **Figure 3, Redbag Clearing Operations Layout**, in **Attachment A**.

## **2.4 M6 Propellant Storage and Disposal**

The M6 Propellant collected from the Redbags will be placed into an Oily Waste Steel Safety can to prevent contact with any ignition source and capture any vapors that may be associated with the M6 Propellant. The safety can will be onsite at the clearance area daily during operations for deposition of any M6 Propellant collected during the course of the day.

The Site Manager will catalog the weight of the captured M6 Propellant at the end of the day and determine the need for temporary storage or burning on a daily basis. The weights will be documents daily and logged it into a daily report.

If stored, the safety can will be placed in Magazine No. 501 (see Figure 2 in Attachment A for location) on Camp Minden and secured with a lock in accordance with ATF requirements. If stored overnight, inventory by weight will be documented on the Daily Summary of Magazine Transactions.

If burned, the M6 Propellant will be placed in one of the steel burn trays utilized during the bulk M6 Propellant incineration in the Contained Burn Chamber (CBC) during the destruction of the bulk material. Trays are steel and are roughly 8 feet by 12 feet in size, 18 inches deep. The burn tray will be placed in an open area designated by the LMD Project Coordinator (see Figure 3, Attachment A for location) and covered with a tarp to prevent rain from collecting in the tray and overflowing prior to their decontamination.

The Site Manager will be responsible for notifying the LMD Project Coordinator of the intent and time to dispose of the M6 Propellant. Notification will be made to EPA and LDEQ by the LMD Project Coordinator. M6 disposal will be conducted between 1700-1800 hours on weekdays. Disposal will occur each day unless inclement weather prevents the disposal.

The Site Manager will also identify and record the wind speed and direction before igniting the M6 Propellant with a propane torch in small quantities. The upper limit for one day of M6 Propellant disposal will not exceed 5 pounds. No burning will be conducted during inclement weather and the material will be stored in Magazine No. 501. This information will be documented daily on the **M6 Inspection and Disposal Certification Form**, provided as **Attachment B**.

M6 Propellant ash collected during the CBC disposal project was tested and found not to be hazardous. The residue ash will be disposed of in fiber barrel containers in preparation for transportation to the solid waste landfill. The analytical data for the ash is provided in **Attachment C, Ash Analytical Data**. Due to the minimal amount of M6 Propellant anticipated to be captured by this project, it is expected the ash will be minimal as well.

To address the need for collection of environmental data associated with the disposal of the residual M6 Propellant, soil and water environmental analysis will be performed during the execution of the Closure Plan and the removal of the Contained Burn System (CBS). Air monitoring is not necessary due to no elevated and significant measurements during the M6 Removal project. This was demonstrated during the Oct 2016 disposal Operations with multiple portable air monitoring stations and the TAGA bus. Also, during the L2 Cleanup in May of 2017, which disposal of this M6 Propellant would be very similar, being consistent with the volume and methodology of disposal.

The floor of the processing area will be swept daily to ensure the capture of any M6 Propellant that may displace from the bins. The daily sweeping of the floor of the work area is to ensure a neat and safe working environment as well as locating any stray M6 Propellant that may be loose in the area. Other particles of the Redbags such as cotton/rayon cord, lead, and debris in the bales of bags is collected and disposed of with the cleared Redbags. Photographs will be taken of the floors to verify cleanliness and included with the daily status report.

## 2.5 Cleared Redbags Processing, Removal and Disposal

Cleared Redbags will be placed into the hopper of a mechanical baler at Area I and compacted into bales in preparation for transportation. The location of the baling operations is diagram is provided as **Figure 4, Redbag Clearing Operations Layout**, in **Attachment A**. Cleared Redbag bales will be placed on a pallet for lifting and returned on the same trailer and route to Area S, building #1607 to be stored for removal and disposal by a qualified and licensed transportation company.

Based on LAC 33.V.1109.E.1, a large quantity generator has an accumulation time of 90 days. H2Bravo anticipates this work will take approximately **60** days and will not exceed the accumulation time prescribed.

Cleared Redbag bales will be placed into 20-yard macro-encapsulation vaults that are placed inside of 20-yard waste containers delivered by Waste Management, Inc. or Stericycle, Inc. to the storage site for transportation to the landfill.

The containers with associated vaults will be picked up by a roll-on / roll-off truck by:

### **TRANSPORTERS:**

Company Name: Chemical Reclamation Services, LLC  
EPA ID Number: TXD 046 844 700  
Physical Address: 405 Powell Street, Avalon, Texas 76623  
Point of Contact: Jennifer Brinkman  
Phone Number: (903) 424-9747  
Transporter ID: TXD 046 844 700

Company Name: Custom Ecology, Inc.  
EPA ID Number: LAR00030106  
Physical Address: Post Office Box 69, Walker, Louisiana 70785  
Point of Contact: Michelle Williams  
Phone Number: (318) 417-1133  
Transporter ID: T-061-3165

### **DISPOSAL SITES:**

Company Name: US Ecology Texas (USET)  
EPA ID Number: TXD069452340, STATE # 50052  
Physical Address: 3277 County Road 69, Robstown, Texas 78380  
Point of Contact: Jennifer Brinkman  
Phone Number: (903) 424-9747

Company Name: Waste Management Chemical Waste Landfill  
EPA ID Number: LAD000777201  
Physical Address: 7170 John Brannon Road, Sulphur, Louisiana 70665

Point of Contact: Michelle Williams  
Phone Number: (318) 417-1133

The transporter will secure the vault and placard the vehicle as a Class 9 Miscellaneous Hazardous Material. According to the Safety Data Sheet (SDS), lead will be shipped under a hazardous waste manifest. The H2Bravo Site Manager will provide the driver with the waste manifest created and pre-printed by Waste Management or Stericycle, retaining the necessary copies of the manifest for H2Bravo records. The Site Manager is a Certified Hazardous Waste Manager and will conduct all manifesting requirements. All hazardous waste will be shipped under a Hazardous Waste manifest. Photographs of the trucks will be taken for each load.

The Redbags are a hazardous waste due to its lead content (D008). Lead has a toxicity characteristic leaching procedure (TCLP) treatment standard of 75 mg/kg. The Redbags were analyzed for chromium content per the request of the Louisiana Department of Environmental Quality (LDEQ). The Redbags were non-detect for chromium as provided in **Attachment D, Chromium Analytical Data**.

The Waste Profile, **Attachment E, and Process Knowledge Information provided by the manufacturer, Attachment F**, is included for reference. The Redbags, when cleared of all ignitable M6 Propellant, contain approximately 95 percent cotton/rayon fabric, approximately five (5) percent lead along with other trace materials. The M6 Propellant SDS is provided in **Attachment G, SDS for M6 Propellant**.

The waste materials will be tested and inspected by staff at the landfill, add fill material to ensure there are no voids in the vault, cap the vault with a lid made from the same plastic vault material, and place into the landfill with 3 feet of clay covering the vault.

The Land Disposal Restriction (LDR) notification will be attached to the manifest. Please see **Attachment H, LDR Notification and Example Manifest**. H2Bravo Site Manager has third party authorization to sign the manifests on behalf of LMD. A copy of the **Third-Party Authorization** is provided as **Attachment I**. The LMD Project Coordinator will be responsible for maintaining the final manifest, LDR, and document management.

## 2.6 Non-Hazardous Waste Material

A 200% visual inspection will be conducted to determine if any residuals are left in the bulk packaging material. If no residuals exist, exterior packing waste materials including cardboard, steel fiber drum rings, plastic pallets, wood pallets, and plastic supersacks will be inspected after the Redbags have been removed and will be placed into a dumpster for disposal. Inspected empty containers composed of non-hazardous and non-recyclable materials will be transported to Mundy



Sanitary Landfill in Mansfield, Louisiana for disposal. The Mundy Sanitary Landfill is only used for non-hazardous solid waste including cardboard, wood pallets, office trash, and general waste not associated with the Redbag disposal.

Disposable PPE will have a 200% visual inspection and shake-out test conducted and be bagged after it becomes unserviceable and placed in an appropriate drum or container for disposal when clearance operations are complete. The PPE will be disposed of as non-hazardous waste along with the packaging materials.

## **2.7 Personnel Hazardous Waste Training**

H2Bravo hired a professional safety and risk management company, SafetyPro Resources, LLC, and an Explosives Training company, TAC III, LLC that conducted training for H2Bravo employees. Training certificates are on hand with H2Bravo on the following:

1. OSHA 10 Course
2. CPR and First Aid
3. PPE
4. Machinery (forklift) Training
5. Hazardous Materials Handling
6. Hazardous Waste Management Training in accordance with Louisiana Administrative Code (LAC) 33:V.1515
7. RCRA Contingency Plan/Personnel Training Plan. All personnel received the same training as listed above and are identified with a title in the Plan.

PPE worn during Redbag clearing operations include eye protection, over suit, dust mask, and gloves. Additionally, protective footwear is worn by technicians working with forklifts and bales of Redbags.

TAC III, LLC conducted training for Explosive Handlers Training and Blaster Training in order to apply for licensing with the Louisiana State Police (LSP). Course Completion Certificates are on file with H2Bravo for review. Drug screens were performed on all H2Bravo team members working on the site. All members of the H2Bravo team working on the project have been licensed properly by the LSP as Explosive Handlers or Blasters.

The Camp Minden Military Police provided access badges for the H2Bravo employees that do not possess a valid military ID. Both the access badge and military ID are acceptable to gain entry to Camp Minden.

## **3.0 HEALTH AND SAFETY PLAN**

The Health and Safety Plan is provided in **Attachment J, Health and Safety Plan**.

#### **4.0 TRAFFIC CONTROL PLAN**

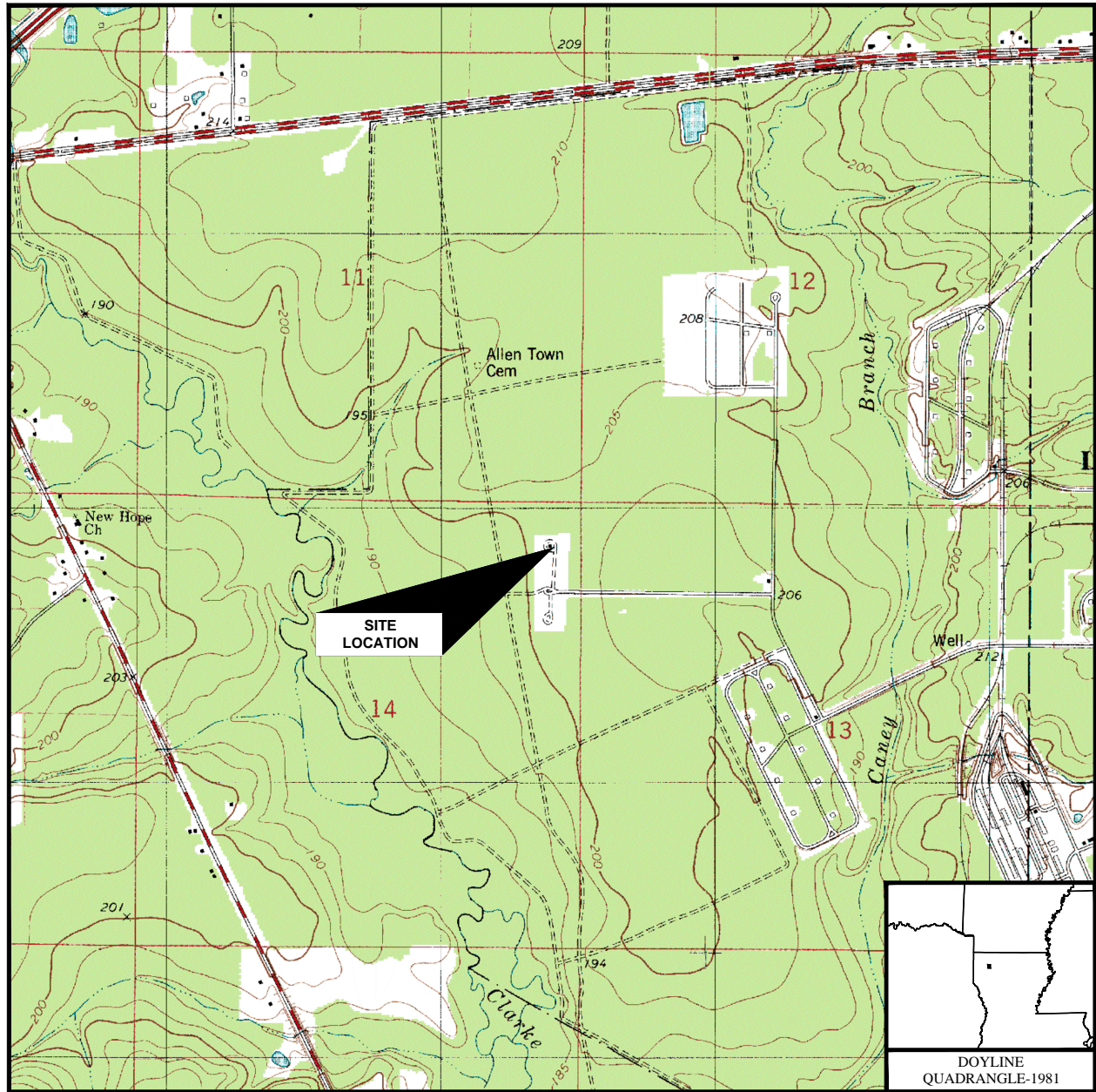
The truck and trailer delivering and removing Redbags will be directed around the processing site on Area I in a counterclockwise rotation. The truck route is provided in **Figure 4, Traffic Control Plan**, in **Attachment A**.

#### **5.0 SCHEDULE**

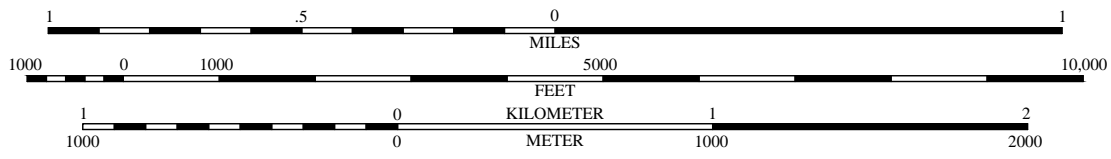
H2Bravo is prepared to implement the above scope of work upon receipt of written approval of this workplan. The field activities are expected to take approximately 60 calendar days to complete.

## **ATTACHMENTS**

## **Attachment A - Figures**



SCALE: 1 : 24,000



 <b>PPM CONSULTANTS, INC.</b> www.ppmco.com		<b>LOUISIANA STATE          MILITARY DEPARTMENT          CAMP MINDEN</b> 1600 JAVA ROAD MINDEN, LOUISIANA	<b>SITE LOCATION MAP</b>	<b>FIGURE          NUMBER</b>  <b>1</b>
DRAWN BY: <b>BWH</b>	DRAWN DATE: <b>03/13/18</b>			
PROJECT NUMBER: <b>50073901</b>	BILLING GROUP: <b>WP</b>			



SOURCE: ESRI WORLD IMAGERY

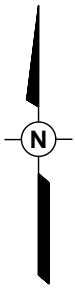
<b>PPM</b> PPM CONSULTANTS, INC. www.ppmco.com	
DRAWN BY: BWH	DRAWN DATE: 03/13/18
PROJECT NUMBER: 50073901	BILLING GROUP: WP

LOUISIANA STATE MILITARY DEPARTMENT  
**CAMP MINDEN**  
 1600 JAVA ROAD  
 MINDEN, LOUISIANA

REDBAGS LOCATION

FIGURE NUMBER

2



0 50 100  
SCALE: 1"=100'  
(Approximate)



**M6 PREP SITE  
AND PROPOSED  
REDBAG  
OPERATIONS**  
32°33'16.8" N  
93°27'52.9" W

**AREA I**

**Burn Tray  
Location**

32°33'13.8" N  
93°27'53.2" W

**Contained Burn Chamber (CBC)  
Controls**

ACCESS ROAD TO SECURE CHECKPOINT

Contained Burn Chamber (CBC)

**Contained Burn Chamber (CBC)**

32°33'9.8" N  
93°27'53.8" W

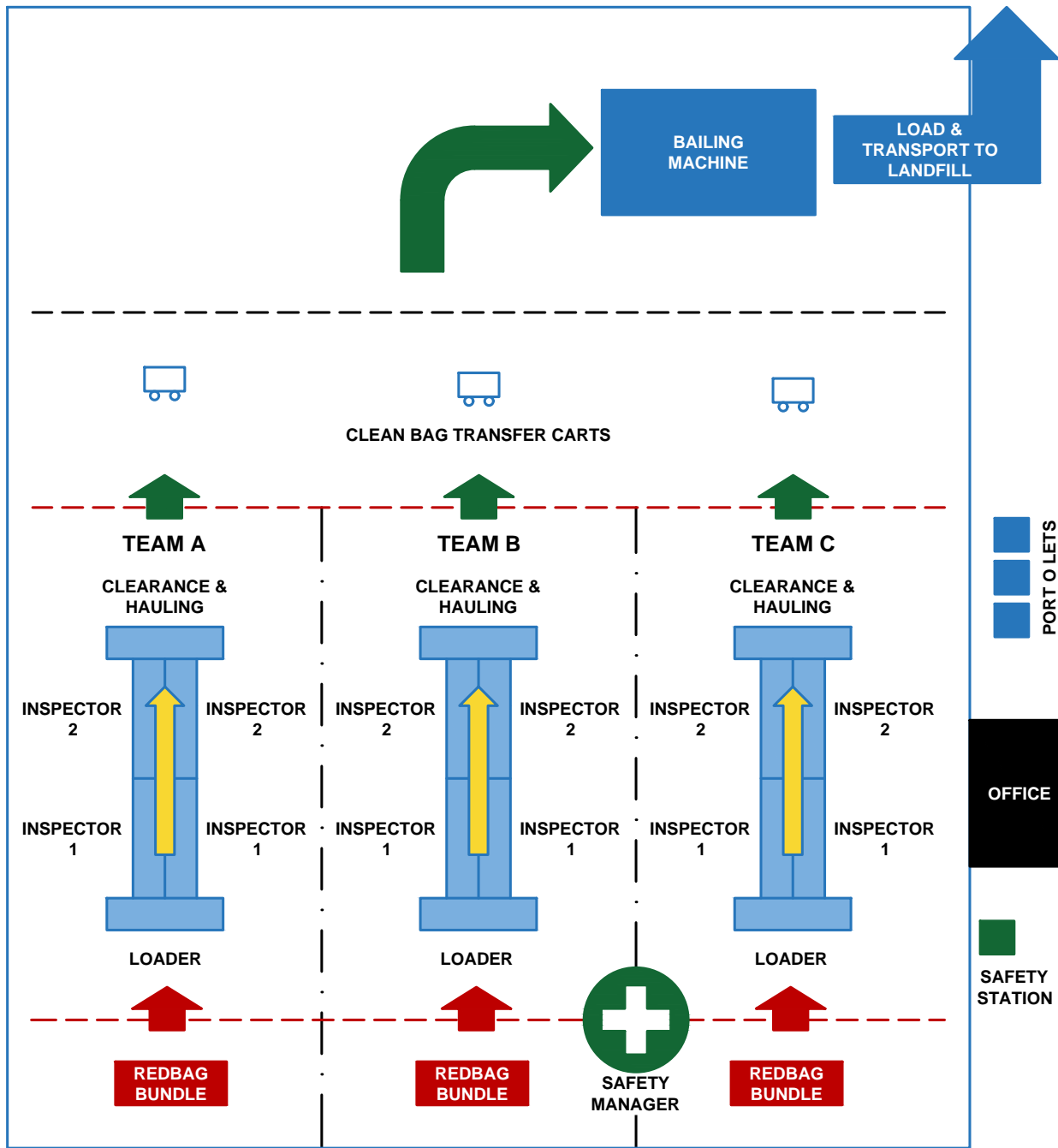
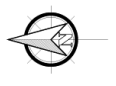
SOURCE: GOOGLE EARTH

<b>PPM</b> PPM CONSULTANTS, INC. www.ppmco.com	
DRAWN BY: BWH	DRAWN DATE: 03/13/18
PROJECT NUMBER: 50073901	BILLING GROUP: WP

LOUISIANA STATE MILITARY DEPARTMENT  
**CAMP MINDEN**  
1600 JAVA ROAD  
MINDEN, LOUISIANA

SITE MAP

FIGURE  
NUMBER  
**3**



**REDBAG FEEDSTOCK RETRIEVED FROM STORAGE CONTAINER (MILVANS)**

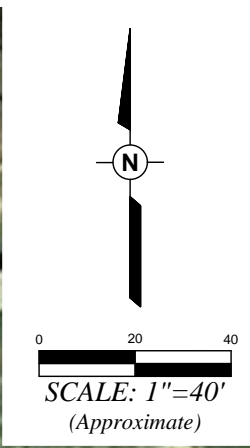
<b>PPM</b> PPM CONSULTANTS, INC. www.ppmco.com	
DRAWN BY: BWH	DRAWN DATE: 03/13/18
PROJECT NUMBER: 50073901	BILLING GROUP: WP

LOUISIANA STATE  
MILITARY DEPARTMENT  
**CAMP MINDEN**  
1600 JAVA ROAD  
MINDEN, LOUISIANA

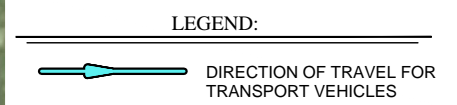
REDBAG CLEARING  
OPERATIONS LAYOUT

FIGURE  
NUMBER  
**4**





SOURCE: GOOGLE EARTH



<b>PPM</b> PPM CONSULTANTS, INC. www.ppmco.com	
DRAWN BY: BWH	DRAWN DATE: 03/13/18
PROJECT NUMBER: 50073901	BILLING GROUP: WP

LOUISIANA STATE MILITARY DEPARTMENT  
**CAMP MINDEN**  
1600 JAVA ROAD  
MINDEN, LOUISIANA

TRAFFIC CONTROL PLAN

FIGURE NUMBER  
**5**

**Attachment B – M6 Inspection and Disposal Certification Form**



## H2Bravo

### M6 Daily Inspection and Disposal Certification

On \_\_\_\_\_, 2018, H2Bravo collected and destroyed \_\_\_\_\_ pounds of M6 Propellant from the Redbags through open burn in steel trays onsite at Area I on Camp Minden. The M6 was destroyed in \_\_\_\_\_ batches consisting of \_\_\_\_\_ pounds of M6 each. All ash was contained and captured for disposal.

The Surface Wind Direction and Speed was \_\_\_\_\_ direction at \_\_\_\_\_ mph at \_\_\_\_\_ hours.

The area utilized for clearance of the Redbags was swept clean and visually inspected for any remnant M6 Propellant.

---

Charles Hudson  
Site Manager  
H2Bravo

**Attachment C – Ash Analytical Data  
(Included as separate file)**

## **Attachment D – Chromium Analytical Data**

The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*  
*Automated Report*

## Technical Report for

### PPM Consultants

H2Bravo 1600 Java Road Minden, LA

50073901/WP

SGS Job Number: LA42050

Sampling Date: 03/08/18

### Report to:

PPM Consultants, Inc.  
7936 Office Park Blvd. Suite A  
Baton Rouge, LA 70809  
phaedra.canright@ppmco.com; robin.breland@ppmco.com  
ATTN: Phaedra Canright

Total number of pages in report: 16



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

*Ron Benjamin*  
**Ron Benjamin**  
Lab Director

Client Service contact: Amy Jackson 337-237-4775

Certifications: LDEQ(2048), LDHH(LA150012), AR(14-045-04), AZ(AZ0805), FL(E87657), IL(200082), KY(#31), NC(487), SC(73004001), NJ(LA007), TX(T104704186-15-7), WV(257)

This report shall not be reproduced, except in its entirety, without the written approval of SGS.  
Test results relate only to samples analyzed.

# Table of Contents

-1-

<b>Section 1: Sample Summary</b> .....	<b>3</b>
<b>Section 2: Summary of Hits</b> .....	<b>4</b>
<b>Section 3: Sample Results</b> .....	<b>5</b>
<b>3.1: LA42050-1: REDBAG</b> .....	<b>6</b>
<b>Section 4: Misc. Forms</b> .....	<b>7</b>
<b>4.1: Chain of Custody</b> .....	<b>8</b>
<b>Section 5: Metals Analysis - QC Data Summaries</b> .....	<b>11</b>
<b>5.1: Prep QC MP10886: Cr</b> .....	<b>12</b>

1

2

3

4

5



## Sample Summary

PPM Consultants

Job No: LA42050

H2Bravo 1600 Java Road Minden, LA  
Project No: 50073901/WP

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
LA42050-1	03/08/18	16:00 AM	03/09/18	SO	Solid	REDBAG

---

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



## Summary of Hits

**Job Number:** LA42050  
**Account:** PPM Consultants  
**Project:** H2Bravo 1600 Java Road Minden, LA  
**Collected:** 03/08/18

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

LA42050-1      REDBAG

No hits reported in this sample.

Sample Results

---

Report of Analysis

---

## Report of Analysis

<b>Client Sample ID:</b> REDBAG	<b>Date Sampled:</b> 03/08/18
<b>Lab Sample ID:</b> LA42050-1	<b>Date Received:</b> 03/09/18
<b>Matrix:</b> SO - Solid	<b>Percent Solids:</b> n/a <sup>a</sup>
<b>Project:</b> H2Bravo 1600 Java Road Minden, LA	

### Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Chromium	< 5.0	5.0	mg/kg	5	03/12/18	03/12/18 RD	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA11182

(2) Prep QC Batch: MP10886

(a) All results with the exception of 29B parameters are reported on a wet weight basis.

---

RL = Reporting Limit

Misc. Forms

---

Custody Documents and Other Forms

---

Includes the following where applicable:

- Chain of Custody



# SGS Sample Receipt Summary

Job Number: LA42050

Client: PPM CONSULTANTS

Project: H2BRAVO

Date / Time Received: 3/9/2018 7:15:00 AM

Delivery Method: Client

Airbill #'s: \_\_\_\_\_

Cooler Temps (Initial/Adjusted): #1: (18.4/18.4)

**Cooler Security**

Y or N

- 1. Custody Seals for cooler Present
- 2. Custody Seals for bottles Present
- 3. Custody Seals Intact

Y or N

- 4. COC Present:
- 5. Smpl Dates/Time OK

**Sample Integrity - Documentation**

Y or N

- 1. Sample labels present on bottles:
- 2. Container labeling complete:
- 3. Sample container label / COC agree:

**Cooler Temperature**

Y or N

- 1. Temp criteria achieved:
- 2. Thermometer ID: \_\_\_\_\_
- 3. Cooler media: No Ice
- 4. No. Coolers 1

**Sample Integrity - Condition**

Y or N

- 1. Sample recvd within HT:
- 2. All containers accounted for:
- 3. Condition of sample: Intact

**Quality Control Preservation**

Y

N

N/A

- 1. Trip Blank present / cooler:
- 2. Trip Blank listed on COC:
- 3. Samples preserved properly:
- 4. VOCs headspace free:

**Sample Integrity - Instructions**

Y

N

N/A

- 1. Analysis requested is clear:
- 2. Bottles received for unspecified tests:
- 3. Sufficient volume recvd for analysis:
- 4. Compositing instructions clear:
- 5. Filtering instructions clear:

Comments: Received sample in cooler with no ice. Temperature at 18.4.

4.1  
4

## Sample Receipt Summary - Problem Resolution

Job Number: LA42050

Initiator: hutchc

CSR: Amy Jackson

Response Date 3/9/2018

Response: No refrigeration needed. Proceed with analysis.

4.1

4

LA42050: Chain of Custody  
Page 3 of 3

## Metals Analysis

5

### QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries



BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: LA42050  
Account: PPMLABR - PPM Consultants  
Project: H2Bravo 1600 Java Road Minden, LA

QC Batch ID: MP10886  
Matrix Type: SOLID

Methods: SW846 6010C  
Units: mg/kg

Prep Date: 03/12/18

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	1	3.2		
Antimony	0.60	.15	.29		
Arsenic	1.0	.15	.39		
Barium	1.0	.025	.29		
Beryllium	0.40	.004	.01		
Boron	10	.14	.26		
Cadmium	0.50	.013	.03		
Calcium	10	.59	2		
Chromium	1.0	.035	.09	0.019	<1.0
Cobalt	1.0	.015	.03		
Copper	1.0	.098	.09		
Iron	10	.43	1.2		
Lead	1.0	.079	.19		
Lithium	1.0	.2	.29		
Magnesium	10	1.9	3.2		
Manganese	5.0	.36	.13		
Molybdenum	1.0	.019	.05		
Nickel	1.0	.067	.13		
Potassium	50	3.7	7.4		
Selenium	1.0	.17	.45		
Silver	1.0	.042	.11		
Sodium	50	8.9	3.2		
Strontium	1.0	.008	.02		
Thallium	0.50	.14	.41		
Tin	5.0	.051	.16		
Titanium	1.0	.034	.12		
Vanadium	1.0	.028	.1		
Zinc	5.0	.99	.091		

Associated samples MP10886: LA42050-1

Results < IDL are shown as zero for calculation purposes  
(\* ) Outside of QC limits  
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: LA42050  
 Account: PPMLABR - PPM Consultants  
 Project: H2Bravo 1600 Java Road Minden, LA

QC Batch ID: MP10886  
 Matrix Type: SOLID

Methods: SW846 6010C  
 Units: mg/kg

Prep Date: 03/12/18

Metal	LA42050-1 Original MS		SpikeLot ICPSPK1% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium	1.1	98.9	100	97.8 75-125
Cobalt				
Copper				
Iron				
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP10886: LA42050-1

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (N) Matrix Spike Rec. outside of QC limits  
 (anr) Analyte not requested

5.1.2  
5

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: LA42050  
 Account: PPMLABR - PPM Consultants  
 Project: H2Bravo 1600 Java Road Minden, LA

QC Batch ID: MP10886  
 Matrix Type: SOLID

Methods: SW846 6010C  
 Units: mg/kg

Prep Date: 03/12/18

Metal	LA42050-1 Original MSD	Spikelot ICPSPIKE1% Rec	MSD RPD	QC Limit		
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium	1.1	98.0	100	96.9	0.9	20
Cobalt						
Copper						
Iron						
Lithium						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP10886: LA42050-1

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (N) Matrix Spike Rec. outside of QC limits  
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: LA42050  
 Account: PPMLABR - PPM Consultants  
 Project: H2Bravo 1600 Java Road Minden, LA

QC Batch ID: MP10886  
 Matrix Type: SOLID

Methods: SW846 6010C  
 Units: mg/kg

Prep Date: 03/12/18

Metal	LCS Result	Spikelot LCSMETALS5% Rec	QC Limits
Aluminum			
Antimony			
Arsenic			
Barium			
Beryllium			
Boron			
Cadmium			
Calcium			
Chromium	94.7	107	88.5 77-121
Cobalt			
Copper			
Iron			
Lead	anr		
Lithium			
Magnesium			
Manganese			
Molybdenum			
Nickel			
Potassium			
Selenium			
Silver			
Sodium			
Strontium			
Thallium			
Tin			
Titanium			
Vanadium			
Zinc			

Associated samples MP10886: LA42050-1

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (anr) Analyte not requested

5.1.3  
5

SERIAL DILUTION RESULTS SUMMARY

Login Number: LA42050  
 Account: PPMLABR - PPM Consultants  
 Project: H2Bravo 1600 Java Road Minden, LA

QC Batch ID: MP10886  
 Matrix Type: SOLID

Methods: SW846 6010C  
 Units: ug/l

Prep Date: 03/12/18

Metal	LA42050-1	QC
	Original	Limits

Metal	LA42050-1	QC
	Original	Limits
Aluminum		
Antimony		
Arsenic		
Barium		
Beryllium		
Boron		
Cadmium		
Calcium		
Chromium	11.1 0.00	100.0(a) 0-10
Cobalt		
Copper		
Iron		
Lithium		
Magnesium		
Manganese		
Molybdenum		
Nickel		
Potassium		
Selenium		
Silver		
Sodium		
Strontium		
Thallium		
Tin		
Titanium		
Vanadium		
Zinc		

Associated samples MP10886: LA42050-1

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

## **Attachment E – Waste Profile (Waste Management)**



Requested Facility: CWM Lake Charles  Unsure Profile Number: LA955059  
 Multiple Generator Locations (Attach Locations)  Request Certificate of Disposal  Renewal? Original Profile Number: \_\_\_\_\_

**A. GENERATOR INFORMATION (MATERIAL ORIGIN)**

1. Generator Name: Louisiana State Military Department  
 2. Site Address: 200 Louisiana Boulevard  
 (City, State, ZIP) Minden LA 71055  
 3. County: Webster  
 4. Contact Name: Winston Matejowsky  
 5. Email: winston.c.matejowsky.nfg@mail.mil  
 6. Phone: (318) 382-4139 7. Fax: \_\_\_\_\_  
 8. Generator EPA ID: LAR000083469  N/A  
 9. State ID: \_\_\_\_\_  N/A

**C. MATERIAL INFORMATION**

1. Common Name: M6 Cotton Red Bags  
 Describe Process Generating Material:  See Attached  

M6 Red Bags are materials remaining from the removal of M6 powder used in the military to fire artillery shells. The M6 Powder, which is actually a pellet, has been removed through a 200% inspection by trained personnel, so no combustable

 2. Material Composition and Contaminants:  See Attached  

1. Cotton Fabric	95 %
2. Lead	5 %
3.	
4.	
Total comp. must be equal to or greater than 100%	≥100%

 3. State Waste Codes: \_\_\_\_\_  N/A  
 4. Color: Red exterior, white interior  
 5. Physical State at 70°F:  Solid  Liquid  Other: \_\_\_\_\_  
 6. Free Liquid Range Percentage: \_\_\_\_\_ to \_\_\_\_\_  N/A  
 7. pH: 7 to 7  N/A  
 8. Strong Odor:  Yes  No Describe: \_\_\_\_\_  
 9. Flash Point:  <140°F  140°–199°F  ≥200°  N/A

**E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION**

1. Analytical attached  Yes  
 Please identify applicable samples and/or lab reports:  
 2. Other information attached (such as MSDS)?  Yes

**G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)**

By signing this EZ Profile™ form, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided. Any analytical data attached was derived from a sample that is representative as defined in 40 CFR 261 – Appendix 1 or by using an equivalent method. All changes occurring in the character of the material (i.e., changes in the process or new analytical) will be identified by the Generator and be disclosed to Waste Management prior to providing the material to Waste Management.

If I am an agent signing on behalf of the Generator, I have confirmed with the Generator that information contained in this Profile is accurate and complete.

Name (Print): Mark Howard Date: 01/19/2018  
 Title: Managing Member  
 Company: Carrera Management Group, LLC dba H2Bravo

**B. BILLING INFORMATION** SAME AS GENERATOR

1. Billing Name: Carrera Management Group, LLC dba H2Bravo  
 2. Billing Address: 12230 Myers Park Avenue  
 (City, State, ZIP) Baton Rouge LA 70810  
 3. Contact Name: Mark Howard  
 4. Email: mark@h2bravo.com  
 5. Phone: (225) 614-7961 6. Fax: \_\_\_\_\_  
 7. WM Hauled?  Yes  No  
 8. P.O. Number: \_\_\_\_\_  
 9. Payment Method:  Credit Account  Cash  Credit Card

**D. REGULATORY INFORMATION**

1. EPA Hazardous Waste?  Yes\*  No  
 Code: D008  
 2. State Hazardous Waste?  Yes  No  
 Code: D008  
 3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion?  Yes\*  No  
 4. Contains Underlying Hazardous Constituents?  Yes\*  No  
 5. From an industry regulated under Benzene NESHAP?  Yes\*  No  
 6. Facility remediation subject to 40 CFR 63 GGGGG?  Yes\*  No  
 7. CERCLA or State-mandated clean-up?  Yes\*  No  
 8. NRC or State-regulated radioactive or NORM waste?  Yes\*  No  
**\*If Yes, see Addendum (page 2) for additional questions and space.**  
 9. Contains PCBs? → If Yes, answer a, b and c.  Yes  No  
 a. Regulated by 40 CFR 761?  Yes  No  
 b. Remediation under 40 CFR 761.61 (a)?  Yes  No  
 c. Were PCB imported into the US?  Yes  No  
 10. Regulated and/or Untreated Medical/Infectious Waste?  Yes  No  
 11. Contains Asbestos?  Yes  No  
 → If Yes:  Non-Friable  Non-Friable – Regulated  Friable

**F. SHIPPING AND DOT INFORMATION**

1.  One-Time Event  Repeat Event/Ongoing Business  
 2. Estimated Quantity/Unit of Measure: 200  
 Tons  Yards  Drums  Gallons  Other: \_\_\_\_\_  
 3. Container Type and Size: 42 yard rolloff  
 4. USDOT Proper Shipping Name: \_\_\_\_\_  N/A

Certification Signature



Only complete this Addendum if prompted by responses on EZ Profile™ (page 1) or to provide additional information. Sections and question numbers correspond to EZ Profile™.

Profile Number: LA955059

C. MATERIAL INFORMATION

Describe Process Generating Material (Continued from page 1): If more space is needed, please attach additional pages.

materials remain. The cotton bags are lined on the interior with a lead foil that is sewn into the cotton bags. Picture attached.

Material Composition and Contaminants (Continued from page 1): If more space is needed, please attach additional pages.

Table with 2 columns: Material Composition and Contaminants, Total composition must be equal to or greater than 100%. Rows 5-9.

D. REGULATORY INFORMATION

Only questions with a "Yes" response in Section D on the EZ Profile™ form (page 1) need to be answered here.

1. EPA Hazardous Waste

a. Please list all USEPA listed and characteristic waste code numbers:

Empty box for listing waste code numbers.

- b. Is the material subject to the Alternative Debris standards (40 CFR 268.45)?
c. Is the material subject to the Alternative Soil standards (40 CFR 268.49)?
d. Is the material exempt from Subpart CC Controls (40 CFR 264.1083)?

2. State Hazardous Waste -> Please list all state waste codes:

3. For material that is Treated, Delisted, or Excluded -> Please indicate the category, below:

- Delisted Hazardous Waste, Excluded Waste under 40 CFR 261.4, Treated Hazardous Waste Debris, Treated Characteristic Hazardous Waste

4. Underlying Hazardous Constituents -> Please list all Underlying Hazardous Constituents:

Empty box for listing hazardous constituents.

5. Industries regulated under Benzene NESHAP include petroleum refineries, chemical manufacturing plants, coke by-product recovery plants, and TSDFs.

- a. Are you a TSDF?
b. Does this material contain benzene?
c. What is your facility's current total annual benzene quantity in Megagrams?
d. Is this waste soil from a remediation?
e. Does the waste contain >10% water/moisture?
f. Has material been treated to remove 99% of the benzene or to achieve <10 ppmw?
g. Is material exempt from controls in accordance with 40 CFR 61.342?
h. Based on your knowledge of your waste and the BWON regulations, do you believe that this waste stream is subject to treatment and control requirements at an off-site TSDF?

6. 40 CFR 63 GGGGG -> Does the material contain <500 ppmw VOHAPs at the point of determination?

7. CERCLA or State-Mandated clean up -> Please submit the Record of Decision or other documentation with process information to assist others in the evaluation for proper disposal.

8. NRC or state regulated radioactive or NORM Waste -> Please identify Isotopes and pCi/g:

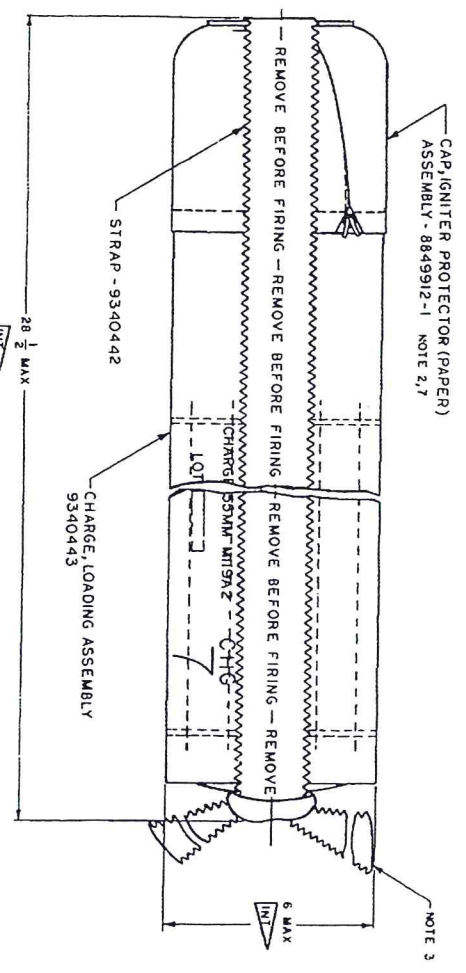


Attachment to Waste  
Profile – Pictures of  
Redbags



## **Attachment F – Process Knowledge Information**

- NOTES:
- 1 - SPEC MIL - A - 2650 ANSI Y14.3-1973 AND SPEC MIL - C - 63405 APPLY.
  - 2 - PLACE CAP IGNITER PROTECTOR PAPER ASSEMBLY OVER IGNITER END OF CHARGE. NOTE 7
  - 3 - STRAP WILL THEN BE PLACED OVER END OF IGNITER PAD AND ENDS BROUGHT UP OPPOSITE SIDES OF CHARGE. STRAP ENDS WILL BE TIED TOGETHER WITH A SURGEON'S KNOT AT TOP OF CHARGE.
  - 4 - TRIM ALL EXCESS THREADS TO 1/4 MAX ON CHARGE.
  - 5 -  $\nabla$  INTERFACE DIMENSION.
  - 6 - REFERENCE: FOR 155MM WEAPONS SYSTEMS INTERFACE DIMENSION/REQUIREMENT, SEE INTERFACE CONTROL DRAWING (ICD) 9327790. ICD 9327790 IS FOR SOURCE REFERENCE ONLY AND NOT FOR MANUFACTURING USE. CHANGE TO 155MM WEAPONS SYSTEMS INTERFACE DIMENSION/REQUIREMENT REQUIRES PRIOR APPROVAL OF PROJECT MANAGER, CANNON ARTILLERY WEAPONS SYSTEMS/JOINT PROJECT MANAGER, SEMI-ACTIVE LASER GUIDED PROJECTILES.
  - 7 - ALTERNATIVE: CAP IGNITER PROTECTOR PAPER ASSEMBLY PART NO. 8849912-13.



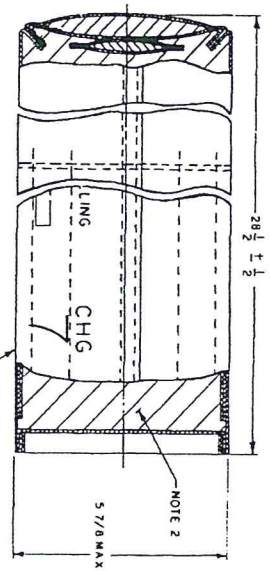
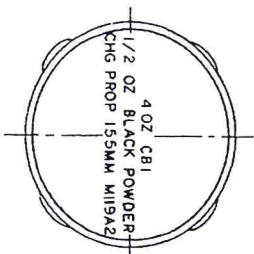
SEE SEPARATE PARTS LIST 9333954

QTY	DESCRIPTION	UNIT	REVISION	DATE	BY	CHKD	APP'D
1	CHARGE, PROPELLING, 155MM M19A2 (RED BAG CHG 7)						
1	STRAP - 9340442						
1	CHARGE LOADING ASSEMBLY 9340443						
1	CAP, IGNITER PROTECTOR (PAPER) ASSEMBLY - 8849912-1						

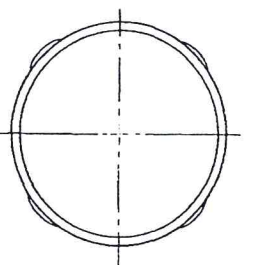
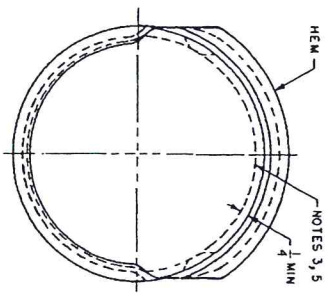
PART NO. 9333954

REV	DATE	DESCRIPTION
01	08-21	CHARGE, PROPELLING, 155MM M19A2 (RED BAG CHG 7)
02	08-21	CHARGE, PROPELLING, 155MM M19A2 (RED BAG CHG 7)
03	08-21	CHARGE, PROPELLING, 155MM M19A2 (RED BAG CHG 7)
04	08-21	CHARGE, PROPELLING, 155MM M19A2 (RED BAG CHG 7)
05	08-21	CHARGE, PROPELLING, 155MM M19A2 (RED BAG CHG 7)
06	08-21	CHARGE, PROPELLING, 155MM M19A2 (RED BAG CHG 7)
07	08-21	CHARGE, PROPELLING, 155MM M19A2 (RED BAG CHG 7)
08	08-21	CHARGE, PROPELLING, 155MM M19A2 (RED BAG CHG 7)
09	08-21	CHARGE, PROPELLING, 155MM M19A2 (RED BAG CHG 7)
10	08-21	CHARGE, PROPELLING, 155MM M19A2 (RED BAG CHG 7)

- NOTES:
- 1 - SPEC MIL - A - 2850 AND ANSI Y4.5-1973 APPLY.
  - 2 - LOAD WITH APPROXIMATELY 250 OZ PROPELLANT MG WEB .055 MP SPEC MIL - P - 63404. NOTE 3
  - 3 - AFTER CLOSING/CLOSE OPENING AS SHOWN IN FIG 1. NOTE 3 AND SEW AS SHOWN IN FIG 2. NOTE 5
  - 4 - AFTER CLOSING/CLOSE OPENING AS SHOWN IN FIG 1. NOTE 3 AND SEW AS SHOWN IN FIG 2. NOTE 5
  - 5 - SEAM CLOSING FILLING OF 1/2 STITCHES REMAINING PORTION OF HEM AND SEW AS SHOWN IN FIG 2. NOTE 5
  - 6 - SEAM CLOSING FILLING OF 1/2 STITCHES REMAINING PORTION OF HEM AND SEW AS SHOWN IN FIG 2. NOTE 5
  - 7 - ALTERNATIVE THREAD: 1 - THREAD, SILK, SEWING, CLASS 1, SPEC MIL - T - 13505.
  - 8 - TO AVOID HIDDEN DAMAGE TO FABRIC WHILE PACKING PROPELLANT DURING BAG LOADING, THE BAG WILL NOT BE BOUNDED AGAINST BARE METAL PLATE; CUSHION PLATE PERMITTED.
  - 9 - TO MINIMIZE FREE SPACE AFTER PROPELLANT HAS BEEN LOADED IN BAG, THE BAG SHALL BE SIZED SO THAT IT IS NECESSARY TO MANUALLY OR MECHANICALLY VIBRATE THE FINAL PORTION OF THE PROPELLANT INTO THE BAG.
  - 10 - TRIM ALL EXCESS THREADS TO 1/4 MAX ON CHARGE.



END CHARGE AND FLASH REDUCER,  
LOADING ASSEMBLY AND BASE IGNITER,  
LOADING ASSEMBLY - 9340444



REV	DESCRIPTION	DATE	BY
1	PRODUCTION RELEASE	10-28-71	WJG
2	REVISIONS	11-08-71	WJG
3	REVISIONS	11-08-71	WJG

SEE SEPARATE PARTS LIST 9340443

REV	DESCRIPTION	DATE	BY
1	PRODUCTION RELEASE	10-28-71	WJG
2	REVISIONS	11-08-71	WJG
3	REVISIONS	11-08-71	WJG

PART NO. 9340443

CHARGE LOADING ASSEMBLY

F 19200

9340443

FIG 2

FIG 1

### DAC - MIDAS Detailed Structure For An Item

Nomenclature: CHG PROP 155MM M119A2  
 NSN : 1320010936856 DODIC: D533  
 Draw # : 9333954 Rev:   
 Status: OFFICIAL

Reported Weight : 22.6190 Unit : LB  
 Reported Weight (lbs): 22.6190  
 Calculated Weight (lbs): 22.8895 101.20 %

Drawing #	Std/Alt	Nomenclature (Material)	Type	Material Code	Reported Weight	Unit	Factor	Factored Weight (Lb)	Specification	TCCS
9333954	STD	CHG PROP 155MM M119A2	M		22.6190	LB	1		MIL-C-63405	
9340442	STD	STRAP	P	I			1		MIL-C-40070	///3//
	STD	ACRYLIC RAYON CLOTH	Mil	I			1		MIL-C-40070	///3//
	STD	STENCIL INK	B				1		VENDOR ITEM	
	STD	KETONES (N/A) (30%)	Compd				1			
	STD	PROPELLANT (N/A) (25%)	Compd				1			
	STD	TOLUENE (108-88-3) (10%)	Compd				1			
	STD	PIGMENT (N/A) (10%)	Compd				1			
	STD	ACRYLIC RESIN (N/A) (5%)	Compd				1			
9340443	STD	CHG LOADING ASSY	C				1			
9340444	STD	END CHG/FLASH REDUCER/BASE IGN ASSY	C				1			
9340451	STD	BASE IGN LOADING ASSY	C				1			
9340452	STD	BASE IGN ASSY	C				1			
9340456-1	STD	END BASE IGN	P	I	0.1381	OZ	1	0.008631	MIL-C-43157	///3//
	STD	RAYON CLOTH	Mil	I			1		MIL-C-43157	///3//
	STD	STENCIL INK	B				1		VENDOR ITEM	
	STD	KETONES (N/A) (30%)	Compd				1			
	STD	PROPELLANT (N/A) (25%)	Compd				1			
	STD	TOLUENE (108-88-3) (10%)	Compd				1			
	STD	PIGMENT (N/A) (10%)	Compd				1			
	STD	ACRYLIC RESIN (N/A) (5%)	Compd				1			
	STD	THREAD POLYESTER	B				1			
	ALT	THREAD SILK (ALT)	B				1		MIL-T-63072	///1//
	STD	FIBROIN (SILK) (N/A) (100%)	Compd				1		MIL-T-13505	///1//
	STD	CBI IGN PWDR	P	X	4.0000	OZ	1	0.250000	MIL-P-60356	///1//
	STD	CBI IGN PWDR	Mil	X			1		MIL-P-60356	///1//
	STD	NC (9004-70-0) (98.2%)	Compd				1		MIL-N-244	///1C//
	STD	DIPHENYLAMINE (122-39-4) (1.5%)	Compd				1		MIL-D-98	
	STD	GRAHPHITE (7782-42-5) (0.2%)	Compd				1		MIL-G-155	///3 OR 4//
	STD	K NITRATE (7757-79-1) (0.1%)	Compd				1		MIL-P-156	///2//
	ALT	CBI IGN PWDR (ALT)	P	X	4.0000	OZ	1		MIL-P-60356	///2//
	STD	CBI IGN PWDR	Mil	X			1		MIL-N-244	///2//
	STD	NC (9004-70-0) (98.2%)	Compd				1		MIL-N-244	///1C//
	STD	DIPHENYLAMINE (122-39-4) (1.5%)	Compd				1		MIL-D-98	
	STD	GRAHPHITE (7782-42-5) (0.3%)	Compd				1		MIL-G-155	///3 OR 4//
	STD	END & SHOT ASSY	C				1			

### DAC - MIDAS Detailed Structure For An Item

Nomenclature : CHG PROP 155MM M119A2  
 NSN : 1320010936856 DODIC : D533  
 Draw #: 9333954 Rev:  
 Status: OFFICIAL

Reported Weight : 22.6190 Unit : LB  
 Reported Weight (lbs): 22.6190  
 Calculated Weight (lbs): 22.8895 101.20 %

Drawing #	Std./Alt.	Nomenclature (Material)	Type	Material Code	Reported Weight	Unit	Factor	Factored Weight (Lb)	Specification	TGCS
9340456-2	STD	END BASE ING	P	I	0.1381	OZ	1	0.008631	MIL-C-41357	///2//
	STD	RAYON CLOTH	Mil	I					MIL-C-41357	///2//
	STD	THREAD POLYESTER	B						MIL-T-63072	///1//
	ALT	THREAD SILK (ALT)	B						MIL-T-13505	///1//
	STD	FIBROIN (SILK) (N/A) (100%)	Compd							///1//
	STD	CBI IGN PWDR	P	X	4.0000	OZ	1	0.250000	MIL-P-60356	///1///
	STD	CBI IGN PWDR	Mil	X					MIL-P-60356	///1///
	STD	NC (9004-70-0) (98.2%)	Compd						MIL-N-244	///1C///
	STD	DIPHENYLAMINE (122-39-4) (1.5%)	Compd						MIL-D-98	///3 OR 4///
	STD	GRAPHITE (7782-42-5) (0.2%)	Compd						MIL-G-155	///2//
	STD	K NITRATE (7757-79-1) (0.1%)	Compd						MIL-P-156	///2//
	ALT	CBI IGN PWDR (ALT)	P	X	4.0000	OZ	1		MIL-P-60356	///2///
	STD	CBI IGN PWDR	Mil	X					MIL-N-244	///2///
	STD	NC (9004-70-0) (98.2%)	Compd						MIL-P-60356	///1C///
	STD	DIPHENYLAMINE (122-39-4) (1.5%)	Compd						MIL-D-98	///3 OR 4///
	STD	GRAPHITE (7782-42-5) (0.3%)	Compd						MIL-N-244	///2///
	STD	SPOT ASSY	C						MIL-D-98	///1C///
	STD	END SPOT	P		0.0320	OZ	2	0.004000	MIL-G-155	///3 OR 4///
	STD	VISCOSE RAYON CLOTH	Mil	I					MIL-C-41357	///2//
	ALT	END SPOT (ALT)	P	I	0.0320	OZ	1		MIL-C-41357	///2//
	STD	VISCOSE RAYON CLOTH	Mil	I					MIL-C-41357	///3//
	STD	BLACK PWDR CL 1	P	X	0.5000	OZ	1	0.031250	MIL-P-223	///3//
	STD	K NITRATE (7757-79-1) (74%)	Compd						MIL-P-223	///1//
	STD	CHARCOAL (16291-96-6) (15.6%)	Compd						MIL-P-156	///1//
	STD	S (7704-34-9) (10.4%)	Compd						JAN-C-178	///1//
	STD	END CHG & FLASH REDUCER LOADING ASSY	C						MIL-S-14929	///1//
	STD	END CHG	P	I	0.1281	OZ	1	0.008006	MIL-C-41357	///2//
	STD	RAYON CLOTH	Mil	I					MIL-C-41357	///2//
	STD	THREAD POLYESTER	B						MIL-T-63072	///1//
	ALT	THREAD SILK (ALT)	B						MIL-T-13505	///1//
	STD	FIBROIN (SILK) (N/A) (100%)	Compd							///1//
	STD	PROP M6	P	X	335.0000	OZ	1	20.937500	MIL-P-63404	///1C///
	STD	PROP M6*	Mil	X					MIL-P-63404	///1C///
	STD	NC (9004-70-0) (85.3%)	Compd						MIL-N-244	///1C///
	STD	DINITROTOI UENE (25321-14-6) (9.8%)	Compd						MIL-D-204	///1C///

### DAC - MIDAS Detailed Structure For An Item

Nomenclature: CHG PROP USSNM M119A2  
 NSN : 1320010936856 DODIC: D333  
 Draw #: 9333954 Rev:  
 Status: OFFICIAL

Reported Weight: 22.6190 Unit: LB  
 Reported Weight (lbs): 22.6190  
 Calculated Weight (lbs): 22.8895 101.20 %

Drawing #	Std./Alt.	Nomenclature (Material)	Type	Material Code	Reported Weight	Unit	Factor	Factored Weight (Lb)	Specification	TGCS
9340446	STD	DIBUTYLPHTHALATE (84-74-2) (2.94%)	Cmpd							
	STD	K SULFATE (7778-80-5) (0.98%)	Cmpd							
	STD	DIPHENYLLAMINE (122-39-4) (0.98%)	Cmpd							
	STD	FLASH REDUCER LOADING ASSY	C							
	STD	K SULFATE	P	X	16.0000	OZ	1	1.000000	MIL-P-193	/2///
	STD	K SULFATE	Mil	X					MIL-P-193	/2///
	STD	K SULFATE (7778-80-5) (100%)	Cmpd						MIL-P-193	/2///
	STD	BODY & LINER ASSY	C							
	STD	BODY	P		2.3528	OZ	1	0.147050	MIL-C-43157	/3///
	STD	RAYON CLOTH	Mil						MIL-C-43157	/3///
9340447	STD	THREAD POLYESTER	B						MIL-T-63072	/1///
	STD	THREAD SILK (ALT)	B						MIL-T-13505	/1///
	STD	FIBROIN (SILK) (N/A) (100%)	Cmpd						VENDOR ITEM	
	STD	STENCIL INK	B							
	STD	KETONES (N/A) (30%)	Cmpd							
	STD	PROPELLANT (N/A) (25%)	Cmpd							
	STD	TOLUENE (108-88-3) (10%)	Cmpd							
	STD	PIGMENT (N/A) (10%)	Cmpd							
	STD	ACRYLIC RESIN (N/A) (5%)	Cmpd							
	STD	LAMINATED RAYON CLOTH	P		0.9116	OZ	1	0.056975	MIL-C-43157	/1///
9340449	STD	RAYON CLOTH	Mil						MIL-C-43157	/1///
	STD	THREAD POLYESTER	B						MIL-T-63072	/1///
	STD	THREAD SILK (ALT)	B						MIL-T-13505	/1///
	STD	FIBROIN (SILK) (N/A) (100%)	Cmpd						VENDOR ITEM	
	STD	VINYL CHLORIDE NEUTRAL	B							
	STD	POLYVINYL ACETATE-PO (9003-22-9) (100%)	Cmpd						VENDOR ITEM	
	STD	VINYL ACETATE POLYMER	B							
	STD	POLYVINYL ACETATE-PO (9003-22-9) (100%)	Cmpd							
	STD	LINER	P		3.0000	OZ	1	0.187500	QQ-L-201	/B///
	STD	PB ALLOY	Mil						QQ-L-201	/B///
9340449	STD	LEAD (7439-92-1) (99.5%)	Cmpd						VENDOR ITEM	
	STD	BISMUTH (7440-69-9) (0.03%)	Cmpd						VENDOR ITEM	
	STD	VINYL ACETATE POLYMER	B							
	STD	POLYVINYL ACETATE-PO (9003-22-9) (100%)	Cmpd							
	STD	VINYL CHLORIDE NEUTRAL	B						VENDOR ITEM	

### DAC - MIDAS Detailed Structure For An Item

Nomenclature : CHG PROP 155MM M119A2  
 NSN : 1320010936856      DODIC: D533  
 Draw #: 9333954      Rev:  
 Status: OFFICIAL

Reported Weight : 22.6190 Unit : LB  
 Reported Weight (Obs): 22.6190  
 Calculated Weight (Obs): 22.8895      101.20 %

Drawing #	Std./Alt.	Nomenclature (Material)	Type	Material Code	Reported Weight	Unit	Factor	Factored Weight (Lb)	Specification	TGCS
					22.889544					



### DAC - MIDAS Detailed Structure For An Item (less bulk items)

Nomenclature: CHG PROP 155MM M119A2		Reported Weight: 22.6190 Unit: LB	
NSN: 1320010936856	DODIC: DS33	Reported Weight (lbs): 22.6190	
Draw #: 933954	Rev:	Calculated Weight (lbs): 22.8895	101.20 %
Status: OFFICIAL			

Drawing #	Std./Alt.	Nomenclature (Material)	Type	Material Code	Reported Weight	Unit	Factor	Factored Weight (Lb)	Specification	TGCS
933954	STD	CHG PROP 155MM M119A2	M		22.6190	LB	1		MIL-C-63405	//3//
934042	STD	STRAP	P	1			1		MIL-C-40070	//3//
934043	STD	ACRYLIC RAYON CLOTH	Mil	1			1		MIL-C-40070	//3//
934044	STD	CHG LOADING ASSY	C				1			
934045	STD	END CHG/FLASH REDUCER/BASE IGN ASSY	C				1			
934045	STD	BASE IGN LOADING ASSY	C				1			
934045	STD	BASE IGN ASSY	C				1			
934045-1	STD	END BASE IGN	P	1	0.1381	OZ	1	0.008631	MIL-C-43157	//3//
	STD	RAYON CLOTH	Mil	1			1		MIL-C-43157	//3//
	STD	CBI IGN PWDR	P	X	4.0000	OZ	1	0.250000	MIL-P-60356	//1//
	STD	CBI IGN PWDR	Mil	X			1		MIL-N-244	//1C//
	STD	NC (9004-70-0) (98.2%)	Cmpd				1		MIL-D-98	
	STD	DIPHENYLAMINE (122-39-4) (1.5%)	Cmpd				1		MIL-G-155	//3 OR 4//
	STD	GRAPHITE (7782-42-5) (0.2%)	Cmpd				1		MIL-P-156	//2//
	STD	K NITRATE (7757-79-1) (0.1%)	Cmpd				1		MIL-N-244	//2//
	ALT	CBI IGN PWDR (ALT)	P	X	4.0000	OZ	1		MIL-P-60356	//2//
	STD	CBI IGN PWDR	Mil	X			1		MIL-N-244	//1C//
	STD	NC (9004-70-0) (98.2%)	Cmpd				1		MIL-D-98	
	STD	DIPHENYLAMINE (122-39-4) (1.5%)	Cmpd				1		MIL-C-43157	//2//
	STD	END BASE IGN	P	1	0.1381	OZ	1	0.008631	MIL-C-43157	//2//
	STD	RAYON CLOTH	Mil	1			1		MIL-C-43157	//2//
	STD	CBI IGN PWDR	P	X	4.0000	OZ	1	0.250000	MIL-P-60356	//1//
	STD	CBI IGN PWDR	Mil	X			1		MIL-N-244	//1C//
	STD	NC (9004-70-0) (98.2%)	Cmpd				1		MIL-D-98	
	STD	DIPHENYLAMINE (122-39-4) (1.5%)	Cmpd				1		MIL-G-155	//3 OR 4//
	STD	GRAPHITE (7782-42-5) (0.2%)	Cmpd				1		MIL-P-156	//2//
	STD	K NITRATE (7757-79-1) (0.1%)	Cmpd				1		MIL-N-244	//2//
	ALT	CBI IGN PWDR (ALT)	P	X	4.0000	OZ	1		MIL-P-60356	//1C//
	STD	CBI IGN PWDR	Mil	X			1		MIL-N-244	//1C//
	STD	NC (9004-70-0) (98.2%)	Cmpd				1		MIL-D-98	
	STD	DIPHENYLAMINE (122-39-4) (1.5%)	Cmpd				1		MIL-G-155	//3 OR 4//
	STD	GRAPHITE (7782-42-5) (0.2%)	Cmpd				1		MIL-P-60356	//2//
	STD	SPOT ASSY	C				1		MIL-G-155	//3 OR 4//

### DAC - MIDAS Detailed Structure For An Item (less bulk items)

Nomenclature: CHG PROP 155MM M119A2  
 NSN : 1320010936856  
 Draw# : 9333954  
 Status: OFFICIAL

Reported Weight: 22.6190 Unit: LB  
 Reported Weight (lbs): 22.6190  
 Calculated Weight (lbs): 22.8895  
 101.20 %

Drawing #	Sid/Alt	Nomenclature (Material)	Type	Material Code	Reported Weight	Unit	Factor	Factored Weight (Lb)	Specification	TGCS
9340455	STD	END SPOT	P	I	0.0320	OZ	2	0.004000	MIL-C-41357	I/2/I
	STD	VISCOSE RAYON CLOTH	Mil	I					MIL-C-41357	I/2/I
	ALT	END SPOT (ALT)	P	I	0.0320	OZ	1		MIL-C-41357	I/3/I
9340455	STD	VISCOSE RAYON CLOTH	Mil	I					MIL-C-41357	I/3/I
	STD	BLACK PWD/DR CL 1	P	X	0.5000	OZ	1	0.031250	MIL-P-223	I/1/I
	STD	BLACK PWD/DR CL 1	Mil	X					MIL-P-223	I/1/I
	STD	K NITRATE (7757-79-1) (74%)	Cmpd						MIL-P-156	I/1/I
	STD	CHARCOAL (16291-96-6) (15.6%)	Cmpd						JAN-C-178	I/1/I
	STD	S (7704-34-9) (10.4%)	Cmpd						MIL-S-14929	I/1/I
9340445	STD	END CHG & FLASH REDUCER LOADING ASSY	C							
	STD	FND CHG	P	I	0.1281	OZ	1	0.008006	MIL-C-43157	I/2/I
9340450	STD	RAYON CLOTH	Mil	I					MIL-C-43157	I/2/I
	STD	PROP M6	P	X	335.0000	OZ	1	20.937500	MIL-P-63404	I/2/I
	STD	PROP M6*	Mil	X					MIL-P-63404	I/2/I
	STD	NC (9904-70-0) (85.3%)	Cmpd						MIL-N-244	I/1/C/I
	STD	DINITROTOLUENE (25321-14-6) (9.8%)	Cmpd						MIL-D-204	I/1/C/I
	STD	DIBUTYLPHTHALATE (84-74-2) (2.94%)	Cmpd						MIL-D-218	I/1/C/I
	STD	K SULFATE (7778-80-5) (0.98%)	Cmpd						MIL-P-193	I/1/I
	STD	DIPHENYLAMINE (122-39-4) (0.98%)	Cmpd						MIL-P-193	I/1/I
9340446	STD	FLASH REDUCER LOADING ASSY	C							
	STD	K SULFATE	P	X	16.0000	OZ	1	1.000000	MIL-P-193	I/2/I
	STD	K SULFATE	Mil	X					MIL-P-193	I/2/I
	STD	K SULFATE (7778-80-5) (100%)	Cmpd						MIL-P-193	I/2/I
9340447	STD	BODY & LINER ASSY	C							
	STD	BODY	P	I	2.3528	OZ	1	0.147050	MIL-C-43157	I/3/I
9340448	STD	RAYON CLOTH	Mil	I					MIL-C-43157	I/3/I
	STD	LAMINATED RAYON CLOTH	P	I	0.9116	OZ	1	0.056975	MIL-C-43157	I/1/I
9340449	STD	RAYON CLOTH	Mil	I					MIL-C-43157	I/1/I
	STD	LINER	P	I					QQ-L-201	I/1/I
	STD	PB ALLOY	Mil	I					QQ-L-201	I/1/I
	STD	LEAD (7439-92-1) (99.5%)	Cmpd		3.0000	OZ	1	0.187500	QQ-L-201	I/1/I
	STD	BISMUTH (7440-69-9) (0.03%)	Cmpd						QQ-L-201	I/1/I

### DAC - MIDAS PEP Structure in An Item

Nomenclature: CHG PROP 155MM M119A2  
 NSN : 1320010936856 DODIC: D533  
 Draw #: 9333954 Rev:  
 Status: OFFICIAL

Reported Weight: 22.6190 Unit: LB  
 Reported Weight (lb): 22.6190  
 Calculated Weight (lb): 22.8895 101.20 %

Drawing #	Std./Alt.	Nomenclature (Material)	Type	Reported Weight	Unit	Factor	Calculated Factor	Factored Weight (lb)	Specification	TGCS
STD		CBI IGN PWDR	P	4.0000	OZ	1.00	1	0.250000	MIL-P-60356	1/IIII
STD		CBI IGN PWDR	MII						MIL-P-60356	1/IIII
STD		NC (9004-70-0) (98.2%)	Cmpd						MIL-N-244	1/ICIII
STD		DIPHENYLAMINE (122-39-4) (1.5%)	Cmpd						MIL-D-98	1/3 OR 4/II
STD		GRAPHITE (7782-42-5) (0.2%)	Cmpd						MIL-G-155	1/II/II
STD		K NITRATE (7757-79-1) (0.1%)	Cmpd						MIL-P-156	1/IIII
STD		CBI IGN PWDR	P	4.0000	OZ	1.00	1	0.250000	MIL-P-60356	1/IIII
STD		CBI IGN PWDR	MII						MIL-N-244	1/ICIII
STD		NC (9004-70-0) (98.2%)	Cmpd						MIL-D-98	1/3 OR 4/II
STD		DIPHENYLAMINE (122-39-4) (1.5%)	Cmpd						MIL-G-155	1/II/II
STD		GRAPHITE (7782-42-5) (0.2%)	Cmpd						MIL-P-156	1/II/II
STD		K NITRATE (7757-79-1) (0.1%)	Cmpd						MIL-P-223	1/II/II
STD		BLACK PWDR CL 1	P	0.5000	OZ	1.00	1	0.031250	MIL-P-156	1/II/II
STD		BLACK PWDR CL 1	MII						MIL-P-223	1/II/II
STD		K NITRATE (7757-79-1) (74%)	Cmpd						MIL-P-156	1/II/II
STD		CHARCOAL (16291-96-6) (15.6%)	Cmpd						JAN-C-178	1/II/II
STD		S (7704-34-9) (10.4%)	Cmpd						MIL-S-14929	1/II/II
STD		PROP M6	P	335.0000	OZ	1.00	1	20.937500	MIL-P-63404	1/ICIII
STD		PROP M6*	MII						MIL-N-244	1/ICIII
STD		NC (9004-70-0) (85.3%)	Cmpd						MIL-D-204	1/ICIII
STD		DINITROTOLUENE (25321-14-6) (9.8%)	Cmpd						MIL-D-204	1/ICIII
STD		DIBUTYLPHTHALATE (84-74-2) (2.94%)	Cmpd						MIL-D-218	1/ICIII
STD		K SULFATE (7778-80-5) (0.98%)	Cmpd						MIL-P-193	1/II/II
STD		DIPHENYLAMINE (122-39-4) (0.98%)	Cmpd						MIL-D-98	1/II/II
STD		K SULFATE	P	16.0000	OZ	1.00	1	1.000000	MIL-P-193	1/II/II
STD		K SULFATE	MII						MIL-P-193	1/II/II
STD		K SULFATE (7778-80-5) (100%)	Cmpd						MIL-P-193	1/II/II

22.468750

### DAC - MIDAS Primary Components and Parts For An Item

Nomenclature: CHG PROP 155MM M119A2  
 NSN : 1320010936856  
 Draw #: 9333954  
 Status : OFFICIAL  
 DODIC: D533  
 Rev:   
 Family: PCBM

Reported Weight: 22.6190 Unit: LB  
 Reported Weight (lbs): 22.6190  
 Calculated Weight (lbs): 22.8895 101.20 %

Primary	Parts	Std./Alt.	Nomenclature (Material)	Material Code	Reported Weight	Unit	Factored Weight (Lb)	Factor
		STD	STRAP	I	0.00		0.00	1.00
Primary	Components	Std./Alt.	Nomenclature (Material)	Material Code	Reported Weight	Unit	Factored Weight (Lb)	Factor
		STD	CHG LOADING ASSY		0.00			1.00

**Attachment G – Safety Data Sheet (SDS) for Lead and M6 Propellant**

HERCULES INCORPORATED -- PROPELLANT,EXPLOSIVE,SOLID,M6+2F/76MM --  
1376-00N010938

=====  
Product Identification  
=====

Product ID:PROPELLANT,EXPLOSIVE,SOLID,M6+2F/76MM  
MSDS Date:01/09/1986  
FSC:1376  
NIIN:00N010938  
MSDS Number: BHVKT  
=== Responsible Party ===  
Company Name:HERCULES INCORPORATED  
Address:RADFORD ARMY AMMUNITION PLANT  
City:RADFORD  
State:VA  
ZIP:24141  
Info Phone Num:703-639-7294  
Emergency Phone Num:703-639-7294  
CAGE:2D295

=== Contractor Identification ===  
Company Name:HERCULES INC  
Address:RADFORD ARMY AMMUNITION PLANT  
Box:City:RADFORD  
State:VA  
ZIP:24141  
Country:US  
Phone:703-639-7294  
CAGE:2D881  
Company Name:HERCULES INCORPORATED  
Address:84 5TH AVE  
City:NEW YORK  
State:NY  
ZIP:10011-7603  
Country:US  
CAGE:2D295

=====  
Composition/Information on Ingredients  
=====

Ingred Name:DIBUTYL PHTHALATE (SARA III)  
CAS:84-74-2  
RTECS #:TI0875000  
Fraction by Wt: 3.00%  
Other REC Limits:N/K  
OSHA PEL:5 MG/M3  
ACGIH TLV:5 MG/M3; 9192  
EPA Rpt Qty:10 LBS  
DOT Rpt Qty:10 LBS

Ingred Name:DIPHENYLAMINE  
CAS:122-39-4  
RTECS #:JJ7800000  
Fraction by Wt: 1.00%  
Other REC Limits:N/K  
OSHA PEL:10 MG/M3  
ACGIH TLV:10 MG/M3; 9192

Ingred Name:POTASSIUM SULFATE

CAS:7778-80-5  
RTECS #:TT5900000  
Fraction by Wt: 2.00%  
Other REC Limits:N/K  
OSHA PEL:N/K  
ACGIH TLV:N/K

Ingred Name:NITROCELLULOSE (FLAMMABLE SOLID)  
Fraction by Wt: 87.00%  
Other REC Limits:N/K  
OSHA PEL:N/K  
ACGIH TLV:N/K

Ingred Name:DINITROTOLUENE (SARA III)  
CAS:25321-14-6  
RTECS #:XT1300000  
Fraction by Wt: 10.00%  
Other REC Limits:N/K  
OSHA PEL:S;A2;0.15 MG/M3;9293  
ACGIH TLV:S, 1.5 MG/M3  
EPA Rpt Qty:10 LBS  
DOT Rpt Qty:10 LBS

=====  
===== Hazards Identification =====

LD50 LC50 Mixture:N/K  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:SEE SIGNS AND SYMPTOMS OF  
OVEREXPOSURE.  
Explanation of Carcinogenicity:NONE  
Effects of Overexposure:EYES:N/K .SKIN:TOXIC,AVOID SKIN  
CONTACT.INGESTION:TOXIC,AVOID INGESTION.INHALATION:TOXIC,AVOID  
INHALATION.  
Medical Cond Aggravated by Exposure:N/K

=====  
===== First Aid Measures =====

First Aid:EYES:IN CASE OF CONTACT,IMMEDIATELY FLUSH WITH PLENTY OF LOW  
PRESSURE WATER FOR AT LEAST 15 MINUTES.REMOVE ANY CONTACT LENSES TO  
ASSURE THOROUGH FLUSHING.CALL A PHYSICIAN.SKIN:WASH WITH SOAP AND  
RUNNING WATER.INGESTION:CONTACT MD IMMEDIATELY .INHALATION:REMOVE  
TO FRESH AIR.TREAT ANY IRRITATION SYMPTOMATICALLY.CALL A PHYSICIAN.

=====  
===== Fire Fighting Measures =====

Extinguishing Media:SELF-OXIDIZING,DELUGE W/ H\*20.MAY NOT BE ABLE TO  
EXTING MATL BEFORE IT IS CONSUMED UNLESS LRG QTY USED IN SHORT  
TIME.  
Fire Fighting Procedures:USE NIOSH/MSHA APPROVED SCBA AND FULL  
PROTECTIVE EQUIPMENT .EVACUATE THE AREA.  
Unusual Fire/Explosion Hazard:EASILY IGNITED,HIGHLY COMBUSTIBLE;PROTECT  
FROM FIRE,SPARKS & EXTREME HEAT.AUTOIGNITION  
TEMP:383F,195C.HAZARDOUS DECOMPOSITION PRODUCTS:OXIDES OF CARBON.

=====  
===== Accidental Release Measures =====

Spill Release Procedures:CLEAN UP SPILLS IMMEDIATELY USING A SOFT BRISTLE BRUSH AND A CONDUCTIVE RUBBER OR PLASTIC SHOVEL.USE CAUTION,MATERIAL SENSITIVE TO IMPACT,FRICTION AND ELECTROSTATIC DISCHARGE.

Neutralizing Agent:N/K

=====  
Handling and Storage  
=====

Handling and Storage Precautions:AVOID PRLNG TEMP ABOVE 50C,125F.REC:21C,75F;50% HUMIDITY.STOR MUST CONFORM TO LOCAL,STATE,FEDERAL REGS (OSHA 29CFR1910.109;BATF 27CFR55 SUBPART K).

Other Precautions:WARNING,FLAMMABLE SOLID.KEEP AWAY FROM HEAT,SPARKS AND OPEN FLAME.KEEP CONTAINERS CLOSED.USE WITH ADEQUATE VENTILATION.

=====  
Exposure Controls/Personal Protection  
=====

Respiratory Protection:NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN .

Ventilation:LOCAL AND GENERAL VENTILATION NECESSARY TO KEEP AIR CONCENTRATION BELOW TLV .

Protective Gloves:COTTON OR LEATHER.

Eye Protection:SAFETY GLASSES

Other Protective Equipment:FLAMEPROOF COVERALLS AND CONDUCTIVE SHOES.

Work Hygienic Practices:N/K

Supplemental Safety and Health

ROUTES OF ENTRY:INGEST/SKIN/INHAL .

=====  
Physical/Chemical Properties  
=====

Melt/Freeze Pt:M.P/F.P Text:N/K

Decomp Temp:Decomp Text:N/K

Vapor Pres:NEGLIGIBLE

Spec Gravity:1.4955,WATER=1

Evaporation Rate & Reference:<1 (BUTYL ACETATE=1)

Solubility in Water:NEGLIGIBLE

Appearance and Odor:HARD CYLINDER,PERFORATED,SMOOTH,GREENISH YELLOW COLOR.ODORLESS.

=====  
Stability and Reactivity Data  
=====

Stability Indicator/Materials to Avoid:YES

OXIDES OF NITROGEN AND CARBON.

Stability Condition to Avoid:AVOID OPEN FLAME,SPARKS AND HEAT.

Hazardous Decomposition Products:OXIDES OF CARBON.

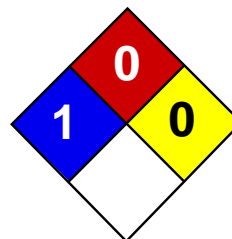
=====  
Disposal Considerations  
=====

Waste Disposal Methods:DISPOSAL MUST BE IN ACCORDANCE WITH FEDERAL,STATE AND LOCAL REGULATIONS .BURN IN OPEN BURNING GROUND IN ACCORDANCE WITH REGULATIONS.MAY ALSO BE BURNED IN AN INCINERATOR APPROVED FOR EXPLOSIVES.

Disclaimer (provided with this information by the compiling agencies):  
This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever,



expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.



Health	1
Fire	0
Reactivity	0
Personal Protection	E

## Material Safety Data Sheet

### Lead MSDS

#### Section 1: Chemical Product and Company Identification

**Product Name:** Lead

**Catalog Codes:** SLL1291, SLL1669, SLL1081, SLL1459, SLL1834

**CAS#:** 7439-92-1

**RTECS:** OF7525000

**TSCA:** TSCA 8(b) inventory: Lead

**CI#:** Not available.

**Synonym:** Lead Metal, granular; Lead Metal, foil; Lead Metal, sheet; Lead Metal, shot

**Chemical Name:** Lead

**Chemical Formula:** Pb

**Contact Information:**

**Sciencelab.com, Inc.**

14025 Smith Rd.

Houston, Texas 77396

US Sales: **1-800-901-7247**

International Sales: **1-281-441-4400**

Order Online: [ScienceLab.com](http://ScienceLab.com)

**CHEMTREC (24HR Emergency Telephone), call:**

1-800-424-9300

**International CHEMTREC, call:** 1-703-527-3887

**For non-emergency assistance, call:** 1-281-441-4400

#### Section 2: Composition and Information on Ingredients

**Composition:**

Name	CAS #	% by Weight
Lead	7439-92-1	100

**Toxicological Data on Ingredients:** Lead LD50: Not available. LC50: Not available.

#### Section 3: Hazards Identification

**Potential Acute Health Effects:** Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

**Potential Chronic Health Effects:**

Slightly hazardous in case of skin contact (permeator). CARCINOGENIC EFFECTS: Classified A3 (Proven for animal.) by ACGIH, 2B (Possible for human.) by IARC. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to blood, kidneys, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.

#### Section 4: First Aid Measures

**Eye Contact:**

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

**Skin Contact:** Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

**Serious Skin Contact:** Not available.

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Serious Inhalation:** Not available.

**Ingestion:**

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

**Serious Ingestion:** Not available.

## Section 5: Fire and Explosion Data

**Flammability of the Product:** May be combustible at high temperature.

**Auto-Ignition Temperature:** Not available.

**Flash Points:** Not available.

**Flammable Limits:** Not available.

**Products of Combustion:** Some metallic oxides.

**Fire Hazards in Presence of Various Substances:** Non-flammable in presence of open flames and sparks, of shocks, of heat.

**Explosion Hazards in Presence of Various Substances:**

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

**Fire Fighting Media and Instructions:**

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards:** When heated to decomposition it emits highly toxic fumes of lead.

**Special Remarks on Explosion Hazards:** Not available.

## Section 6: Accidental Release Measures

**Small Spill:**

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Large Spill:**

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

## Section 7: Handling and Storage

**Precautions:**

Keep locked up.. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable

protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

**Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area.

## Section 8: Exposure Controls/Personal Protection

### Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protection:** Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

### Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

### Exposure Limits:

TWA: 0.05 (mg/m<sup>3</sup>) from ACGIH (TLV) [United States] TWA: 0.05 (mg/m<sup>3</sup>) from OSHA (PEL) [United States] TWA: 0.03 (mg/m<sup>3</sup>) from NIOSH [United States] TWA: 0.05 (mg/m<sup>3</sup>) [Canada] Consult local authorities for acceptable exposure limits.

## Section 9: Physical and Chemical Properties

**Physical state and appearance:** Solid. (Metal solid.)

**Odor:** Not available.

**Taste:** Not available.

**Molecular Weight:** 207.21 g/mole

**Color:** Bluish-white. Silvery. Gray

**pH (1% soln/water):** Not applicable.

**Boiling Point:** 1740°C (3164°F)

**Melting Point:** 327.43°C (621.4°F)

**Critical Temperature:** Not available.

**Specific Gravity:** 11.3 (Water = 1)

**Vapor Pressure:** Not applicable.

**Vapor Density:** Not available.

**Volatility:** Not available.

**Odor Threshold:** Not available.

**Water/Oil Dist. Coeff.:** Not available.

**Ionicity (in Water):** Not available.

**Dispersion Properties:** Not available.

**Solubility:** Insoluble in cold water.

## Section 10: Stability and Reactivity Data

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Incompatible materials, excess heat

**Incompatibility with various substances:** Reactive with oxidizing agents.

**Corrosivity:** Non-corrosive in presence of glass.

**Special Remarks on Reactivity:**

Can react vigorously with oxidizing materials. Incompatible with sodium carbide, chlorine trifluoride, trioxane + hydrogen peroxide, ammonium nitrate, sodium azide, disodium acetylide, sodium acetylide, hot concentrated nitric acid, hot concentrated hydrochloric acid, hot concentrated sulfuric acid, zirconium.

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** Will not occur.

## Section 11: Toxicological Information

**Routes of Entry:** Absorbed through skin. Inhalation. Ingestion.

**Toxicity to Animals:**

LD50: Not available. LC50: Not available.

**Chronic Effects on Humans:**

CARCINOGENIC EFFECTS: Classified A3 (Proven for animal.) by ACGIH, 2B (Possible for human.) by IARC. May cause damage to the following organs: blood, kidneys, central nervous system (CNS).

**Other Toxic Effects on Humans:** Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** Not available.

**Special Remarks on other Toxic Effects on Humans:**

Acute Potential: Skin: Lead metal granules or dust: May cause skin irritation by mechanical action. Lead metal foil, shot or sheets: Not likely to cause skin irritation Eyes: Lead metal granules or dust: Can irritate eyes by mechanical action. Lead metal foil, shot or sheets: No hazard. Will not cause eye irritation. Inhalation: In an industrial setting, exposure to lead mainly occurs from inhalation of dust or fumes. Lead dust or fumes: Can irritate the upper respiratory tract (nose, throat) as well as the bronchi and lungs by mechanical action. Lead dust can be absorbed through the respiratory system. However, inhaled lead does not accumulate in the lungs. All of an inhaled dose is eventually absorbed or transferred to the gastrointestinal tract. Inhalation effects of exposure to fumes or dust of inorganic lead may not develop quickly. Symptoms may include metallic taste, chest pain, decreased physical fitness, fatigue, sleep disturbance, headache, irritability, reduces memory, mood and personality changes, aching bones and muscles, constipation, abdominal pains, decreasing appetite. Inhalation of large amounts may lead to ataxia, delirium, convulsions/seizures, coma, and death. Lead metal foil, shot, or sheets: Not an inhalation hazard unless metal is heated. If metal is heated, fumes will be released. Inhalation of these fumes may cause "fume metal fever", which is characterized by flu-like symptoms. Symptoms may include metallic taste, fever, nausea, vomiting, chills, cough, weakness, chest pain, generalized muscle pain/aches, and increased white blood cell count. Ingestion: Lead metal granules or dust: The symptoms of lead poisoning include abdominal pain or cramps (lead colic), spasms, nausea, vomiting, headache, muscle weakness, hallucinations, distorted perceptions, "lead line" on the gums, metallic taste, loss of appetite, insomnia, dizziness and other symptoms similar to that of inhalation. Acute poisoning may result in high lead levels in the blood and urine, shock, coma and death in extreme cases. Lead metal foil, shot or sheets: Not an ingestion hazard for usual industrial handling.

## Section 12: Ecological Information

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The products of degradation are less toxic than the product itself.

**Special Remarks on the Products of Biodegradation:** Not available.

**Section 13: Disposal Considerations****Waste Disposal:**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

**Section 14: Transport Information**

**DOT Classification:** Not a DOT controlled material (United States).

**Identification:** Not applicable.

**Special Provisions for Transport:** Not applicable.

**Section 15: Other Regulatory Information****Federal and State Regulations:**

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Lead California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (female) which would require a warning under the statute: Lead California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (male) which would require a warning under the statute: Lead California prop. 65 (no significant risk level): Lead: 0.0005 mg/day (value) California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Lead California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Lead Connecticut hazardous material survey.: Lead Illinois toxic substances disclosure to employee act: Lead Illinois chemical safety act: Lead New York release reporting list: Lead Rhode Island RTK hazardous substances: Lead Pennsylvania RTK: Lead

**Other Regulations:**

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

**Other Classifications:**

**WHMIS (Canada):** CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

**DSCL (EEC):**

R20/22- Harmful by inhalation and if swallowed. R33- Danger of cumulative effects. R61- May cause harm to the unborn child. R62- Possible risk of impaired fertility. S36/37- Wear suitable protective clothing and gloves. S44- If you feel unwell, seek medical advice (show the label when possible). S53- Avoid exposure - obtain special instructions before use.

**HMIS (U.S.A.):**

**Health Hazard:** 1

**Fire Hazard:** 0

**Reactivity:** 0

**Personal Protection:** E

**National Fire Protection Association (U.S.A.):**

**Health:** 1

**Flammability:** 0

**Reactivity:** 0

**Specific hazard:**

**Protective Equipment:**

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Safety glasses.

## Section 16: Other Information

**References:** Not available.

**Other Special Considerations:** Not available.

**Created:** 10/10/2005 08:21 PM

**Last Updated:** 05/21/2013 12:00 PM

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall ScienceLab.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if ScienceLab.com has been advised of the possibility of such damages.*

## **Attachment H – LDR Notification and Example Manifest**





# LAND DISPOSAL RESTRICTION (LDR) NOTIFICATION AND CERTIFICATION FORM (PHASE IV)

Generator Name: Louisiana State Military Department

Profile Number: LA955059

Manifest Number: \_\_\_\_\_

Ref. #	2. US EPA HAZARDOUS WASTE CODE(S)	3. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION (If not applicable, simply check NONE)		4. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1.	D008		X	A
2.				
3.				
4.				

- Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE:  Non-Wastewater  Wastewater  
For hazardous debris meeting the definition of debris and subject to the alternate treatment standards in 268.45, check here:
- In **column 2**, identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261.
  - To list additional waste code(s) use Land Disposal Notification/Certification Supplemental Form (CWM-2005-D) and check here:
- In **column 3**, for each waste code, identify the subcategory if one applies, or check NONE if the waste code has no subcategory.
- In **column 4**, enter the letter from the list below (A. – D.) that describes how the waste must be managed to comply with the land disposal restriction regulations in 40 CFR 268. Please note that if you enter B.1, B.3, B.6 or D, you are certifying that the waste meets all the Land Disposal Restrictions and may be landfilled without further treatment. If you enter B.4, you are certifying that the waste has been decharacterized, but still requires treatment for UHCs. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed on this form. Where these regulatory citations differ, your form will be deemed to refer to those state citations as well as 40 CFR.)
- Constituents of concern for waste codes F001-F005 and F039 and underlying hazardous constituents (UHCs) for D001-D043, must be identified unless the treatment facility will monitor for all constituents. **If any of these codes apply, check appropriate box below:**
  - To identify constituents of concern for F001-F005, F039 and UHCs, use the Identification of Constituents of Concern Form (CWM-2007) and check here:
  - If UHCs are applicable, but none are present at the point of generation, check here:
  - If incineration facility will monitor for all constituents of concern (except dioxins), check here:

### MANAGEMENT METHODS

#### A RESTRICTED WASTE REQUIRES TREATMENT

This waste must be treated to the applicable treatment standards set forth in 40 CFR 268.40.

#### B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS

"I certify under penalty of law that I personally have examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process had been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR 268.40 without impermissible dilution of the prohibited waste. I am aware there are significant penalties for submitting a false certification including the possibility of fine and imprisonment."

#### B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS

"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the non-wastewater organic constituents have been treated by combustion units as specified in 268.42 Table 1. I have been unable to detect the non-wastewater organic constituents despite having used best faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

#### B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS

"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 or 268.49, to remove the hazardous characteristic. This de-characterized waste contains underlying hazardous constituents that require further treatment to meet treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

#### B.6 RESTRICTED DEBRIS TREATED TO ALTERNATE PERFORMANCE STANDARDS

"I certify under penalty of law that the debris has been treated in accordance with the requirements of 40CFR 268.45. I am aware that there are significant penalties for making a false certification, including the possibility of fine and imprisonment."

#### C. RESTRICTED WASTE SUBJECT TO A VARIANCE

This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column (4) above.

#### D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT

"I certify under penalty of law I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and LAC 33: V. 2223-2233. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

I hereby certify that all information submitted in this and all associated documents is complete and accurate to the best of my knowledge and information.

Name: (Print) Mark A. Howard

Title: Managing Member

Signature: \_\_\_\_\_

Date: 3/3/18

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

OWMS

Form Approved, OMB No. 2050-0029

**UNIFORM HAZARDOUS WASTE MANIFEST**

1. Generator ID Number  
**LA8000083469**

2. Page 1 of **1**

3. Emergency Response Phone  
**(800)424-9300**

4. Manifest Tracking Number  
**017558654 JJK**

5. Generator's Name and Mailing Address  
**LOUISIANA STATE MILITARY DEPT  
200 LOUISIANA BOULEVARD  
MINDEN LA 71055  
(318)382-4139**

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

**CHEMICAL WASTE MANAGEMENT  
7170 JOHN BRANNON RD.  
SULPHUR LA 70665**

U.S. EPA ID Number

**LAD000777201**

Facility's Phone  
**(337)583-2169**

9a. HM 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))

10. Containers  
No. Type

11. Total Quantity

12. Unit Wt./Vol.

13. Waste Codes

1. **RQ, NA3077, HAZARDOUS WASTE, SOLID, NOS, 0, III, (D008)**

**LA955059**

**D008**

14. Special Handling Instructions and Additional Information

**ERG#171  
IN CASE OF EMERGENCY CONTACT CHEMTREC 800-424-9300 (WM CONTRACT #CCN24117)  
DISCREPANCIES CONTACT: \_\_\_\_\_ ( )**

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name

Signature

Month Day Year

16. International Shipments  Import to U.S.  Export from U.S.

Port of entry/exit:  
Date leaving U.S.:

Transporter signature (for exports only)

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Transporter 2 Printed/Typed Name

Signature

Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space  Quantity  Type  Residue  Partial Rejection  Full Rejection

Manifest Reference Number

18b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator)

Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. **H132**

2.

3.

4.

20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a

Printed/Typed Name

Signature

Month Day Year

167-BLO-0-6-10496

PUBLISHED BY J. J. KELLER & ASSOCIATES, INC., NEENAH, WI 54956 • (800) 327-4888 • Publisher of the Official Status

5854278

## **Attachment I – Third Party Authorization**



### THIRD PARTY SIGNATURE AUTHORIZATION for Special Waste Disposal

Date: 3/13/2018  
 This Authorization is only valid for 3 years  
 from the above date.

To Whom It May Concern:


Please be advised that the following company/individual has been appointed to work as our agent for purposes of managing waste materials that we may generate.

Name of Authorized Agent Charles Hudson	Title Site Manager
Name of Company H2Bravo	Telephone Number 985.607.5902

The above broker/individual is authorized to act as our authorized agent for the following purposes:

- Complete and sign Special Waste Profile.
- Complete and sign Special Waste Profile-Recertification.
- Authorize amendments to Special Waste Profile.
- Sign contracts to dispose and/or transport material.
- Sign certifications necessary to comply with landfill requirements.
- Sign manifests to initiate shipment to disposal facilities.

Our authorized agent will notify us prior to any action stated above, and will provide us with copies of any documents bearing our name.

Name of Company Louisiana Military Department	Mailing Address 200 Louisiana Ave, Minden, LA 71055
Generator Contact (Print Name) Winston Matejowsky	Title Project Coordinator
Signature 	Telephone Number 318.382.4139

**Attachment J – Health and Safety Plan  
(Included as separate file)**