



TA05

Department of Energy
Albuquerque Operations
Los Alamos Area Office
Los Alamos, New Mexico 87544



JAN 16 1991

VIA HAND DELIVERY

Ms. Kathleen Sisneros, Bureau Chief
Hazardous and Radioactive Waste Bureau
Environmental Improvement Division
Harold Runnels Building
1190 St. Francis Drive
Santa Fe, New Mexico 87503

Dear Ms. Sisneros:

Reference is made to the Resource Conservation and Recovery Act (RCRA) Operating Permit #NM089001515-1. The State of New Mexico issued a hazardous waste permit jointly to the Department of Energy (DOE) and the University of California (UC) on November 8, 1989 for operation of treatment and storage units at the Los Alamos National Laboratory. Attachment I of the permit mandates solid waste stream characterization and submittal of requested information to the Environmental Improvement Division (EID) on a quarterly basis.

In accordance with Permit Attachment I and a letter from the EID to Harry T. Seasons, Jr., dated December 12, 1990, the DOE and UC have enclosed for submittal the required summary reports for the first four quarters covering Technical Areas (TAs) 0-15, 60, 61, and 69. Technical Areas that are no longer in existence (i.e., TAs 1, 4, 7, 10, 12, and 13) are not included in these summary reports. In addition, TA-6 is not included because there is no waste generated in this area.

I have also enclosed a map delineating newly designated TAs (i.e., those in the 60 and 70 series) as requested by yourself and Dr. Elizabeth Gordon.

If further assistance is needed in this matter, please contact Dr. Paul Schumann of my staff at 665-5027.

Sincerely,

Jerry L. Bellows
Area Manager

LESH:1SF-028

Enclosures



2799

Ms. K. Sisneros

2

cc w/o enclosure:

A. Tiedman, ADO, LANL, MS-A120

T. Gunderson, HSE-DO, LANL, MS-K491

K. Hargis, HSE-8, (HSE-8:91-39-1), LANL, MS-K490

J. Themelis, EHD, AL

R. Mitzelfelt, EID

A. Davis, US EPA, Region 6

B. Gallagher, US EPA Region 6

83-B



Project No. 301215
January, 1991

Final Report

Summary of Solid Waste Streams

TA-5, TA-6, TA-8, TA-69

*Los Alamos National Laboratory
Los Alamos, New Mexico 87545*

SOLID WASTE STREAM CHARACTERIZATION LOS ALAMOS NATIONAL LABORATORY

This document has been prepared in response to the requirements of the Hazardous Waste Facility Permit (Permit) Number NM0890010515-1 for Los Alamos National Laboratory (Laboratory). In compliance with the Permit, this document presents a listing of all solid waste streams within designated Technical Areas (TAs). The information presented here is for TAs 5, 6, 8, and 69. Material for TA-7 is not included here because it is no longer active. Also TA-6 is not indicated here because there was no waste generated from this area. The area comprising TA-69 was formerly undesignated and has been included because of its proximity to TA-6.

Solid waste streams were characterized in each TA within the Laboratory through interviews with Laboratory personnel in each building and process area. The Laboratory personnel were questioned regarding the activities in the area and their "knowledge of process", to assist in the identification of all solid waste streams generated from these areas. The waste streams included nonhazardous, hazardous and radioactive wastes.

Log numbers were assigned to each individual solid waste stream based on a unique room number within each building surveyed, and this report is assembled by TA and building number.

This compilation of solid waste streams is based on information contained on the original waste stream survey reports and presented in the following reference section which can be reviewed in TA-59, Building 1, Room 156. Several assumptions and definitions were necessary in order to distill the very detailed information available on the original waste stream survey sheets into the more general format of the forms included in this report. These assumptions and definitions are explained below.

In the information presented here, each separate waste stream is represented by a separate row identified by a log number, and all possible columns describing the waste were checked. In the summary totals for the areas listed above, 182 waste streams were identified of which 18 were hazardous.

SOLID WASTE DESCRIPTION

Machine Shop: Scrap metals, wood, or other materials from machining, waste mechanical parts, discarded tools, or other refuse from machinery room or other maintenance areas.

Laboratory Refuse: Waste glassware, equipment, hardware, electronic components or other apparatus from a laboratory.

Paper Trash: Refuse which may include plastic, styrofoam, aluminum cans, food items, etc.

Chemical: Solvents, petroleum products, cutting fluids, lubricants, paints, photographic wastes, high explosives, general chemical wastes and dry chemical compounds.

Sanitary: Sewage, waste water, wash water, condensate, water and other liquids draining into sinks, floor drains or outfalls, or run-off from precipitation.

Construction Debris: Scrap lumber, building materials, insulation or other refuse associated with construction or remodeling of the physical plant.

HAZARDOUS WASTE

Listed: Those wastes defined to be hazardous in accordance with 40 CFR 261, Subpart D.

Characteristic: Those wastes found to exhibit hazardous characteristics, i.e., corrosive, reactive, ignitable, or toxic, in accordance with 40 CFR 261, Subpart C.

OTHER

Ni/Tl: Nickel/Thallium. Wastes containing these elements were identified separately because of the landban as addressed in the Hazardous and Solid Waste Amendments of 1984.

Radioactive: Contaminated or potentially contaminated material of any kind as well as waste with detectable radioactivity. "Mixed Waste" is defined as a hazardous waste (as noted above) that is radioactive, and is checked in both fields.

Omissions: Buildings and rooms in which no waste is generated are omitted from this summary. Also omitted are items that are recycled, sent to salvage, or sinks and floor drains that normally have no flow.

REFERENCES

International Technology Corporation, 1990. "Waste Stream Characterization Report, Technical Area 5, Preliminary Report, Los Alamos National Laboratory, Los Alamos, New Mexico."

International Technology Corporation, 1990. "Waste Stream Characterization Report, Technical Area 6, Revised Preliminary Report, Los Alamos National Laboratory, Los Alamos, New Mexico."

International Technology Corporation, 1990. "Waste Stream Characterization Report, Technical Area 8, Preliminary Report, Los Alamos National Laboratory, Los Alamos, New Mexico."

International Technology Corporation, 1990. "Waste Stream Characterization Report, Technical Area 69, Revised Preliminary Report, Los Alamos National Laboratory, Los Alamos, New Mexico."

TA-8 BUILDING 21 LOG #	SOLID WASTE DESCRIPTION*						HAZARDOUS		OTHER	
	MACHINE SHOP	LABORATORY REFUSE	PAPER TRASH	CHEMICAL	SANITARY	CONSTRUCTION DEBRIS	LISTED	CHARACTERISTIC	N/TL	RADIOACTIVE
B3 ENT-1			X							
B3-1			X							
B3A-1			X							
B3B-1					X					
B4-1			X							
B5-1					X					
B5-2					X					
B5-3			X							
B7-2	X			X						
B7-3	X									
B8-1					X					
B8-2			X							
B9-1					X					
B9-2			X							
B10-1			X							
B11-1			X							
B13-2			X							
B14-1					X					
B14-2			X							
CB2					X					

*This waste is non-hazardous unless the Hazardous column is checked.

TA-8 BUILDING 21 LOG #	SOLID WASTE DESCRIPTION*						HAZARDOUS		OTHER	
	MACHINE SHOP	LABORATORY REFUSE	PAPER TRASH	CHEMICAL	SANITARY	CONSTRUCTION DEBRIS	LISTED	CHARACTERISTIC	N/TL	RADIOACTIVE
C100-1					X					
102-1			X							
102-2					X					
102-3			X							
103-1			X							
107-1			X							
107A-1			X							
107B-1			X							
109-1					X					
109-2					X					
110-1					X					
110-2					X					
110-3			X							
110-4					X					
111-1			X							
112-1					X					
112-2					X					
112-3					X					
112-4			X							
113-1			X							

*This waste is non-hazardous unless the Hazardous column is checked.

TA-8 BUILDING 21 LOG #	SOLID WASTE DESCRIPTION*						HAZARDOUS		OTHER	
	MACHINE SHOP	LABORATORY REFUSE	PAPER TRASH	CHEMICAL	SANITARY	CONSTRUCTION DEBRIS	LISTED	CHARACTERISTIC	NWTI	RADIOACTIVE
114-1			X							
115-1			X							
116-1			X							
117-1			X							
118-1			X							
118A-1			X							
119-1			X							
120-1			X							
121-1			X							
121-2					X					
122-1			X							
124-1					X					
124-2					X					
124-3			X							
124-4				X				X		
125-1					X					
125-2			X							
125-3				X				X		
125-4		X						X		
126-1					X					

*This waste is non-hazardous unless the Hazardous column is checked.

TA-8 BUILDING 21 LOG #	SOLID WASTE DESCRIPTION*						HAZARDOUS		OTHER	
	MACHINE SHOP	LABORATORY REFUSE	PAPER TRASH	CHEMICAL	SANITARY	CONSTRUCTION DEBRIS	LISTED	CHARACTERISTIC	N/TL	RADIOACTIVE
126-2					X					
126-3			X							
127-1					X					
127-2					X					
127-3					X					
127-4					X					
127-5			X							
128-1								X		
129-1					X					
129-2				X						
129-3					X					
130-1			X							
131-1					X					
142-1					X					
142-2			X							
143-1				X						
143-2			X							
144-1			X							

*This waste is non-hazardous unless the Hazardous column is checked.

TA-8 BUILDING 22 LOG #	SOLID WASTE DESCRIPTION*						HAZARDOUS		OTHER	
	MACHINE SHOP	LABORATORY REFUSE	PAPER TRASH	CHEMICAL	SANITARY	CONSTRUCTION DEBRIS	LISTED	CHARACTERISTIC	N/RTI	RADIOACTIVE
BS-1					X					
BS-2					X					
HL-1			X							
HL-2					X					
HL-3					X					
OUT-W				X				X		
UTL-1					X					
VT-1								X		
1A-1										X
1A-2			X							
1B-1			X							
IC-1					X					
1F-1					X					
1F-2					X					
1G-1								X		X
1G-2			X							
1G-3							X			
1K-1								X		
1K-2					X					
1K-3				X				X		

*This waste is non-hazardous unless the Hazardous column is checked.

TA-8 BUILDING 22 LOG #	SOLID WASTE DESCRIPTION*						HAZARDOUS		OTHER	
	MACHINE SHOP	LABORATORY REFUSE	PAPER TRASH	CHEMICAL	SANITARY	CONSTRUCTION DEBRIS	LISTED	CHARACTERISTIC	N/TL	RADIOACTIVE
1K-4								X		
1M-1			X							
1N-1					X					
1N-2			X							
1P-1			X							
1S-1					X					
1T-1					X					
1T-2			X							
1U-1		X								X
1U-2					X					
1U-3					X					
1U-4				X						
1U-5			X							
1V-1					X					
1X-1					X					
1X-2					X					
1X-3				X				X		
1X-4			X							
1Y-1			X							
1Z-1			X							

*This waste is non-hazardous unless the Hazardous column is checked.

TA-8 BUILDING 70 LOG #	SOLID WASTE DESCRIPTION*						HAZARDOUS		OTHER	
	MACHINE SHOP	LABORATORY REFUSE	PAPER TRASH	CHEMICAL	SANITARY	CONSTRUCTION DEBRIS	LISTED	CHARACTERISTIC	NVTI	RADIOACTIVE
OUT E-1				X				X		
101A-1			X							
101-1			X							
102-1					X					
102-2					X					
102-4			X							
103-2			X							
104-1				X			X	X		
104-2					X					
104-5			X							
106-1					X					
106-2			X							
108-1			X				x	X		
108-2					X					
108-3					X					
108-4			X							
108-C-1			X							
108D-1			X							
108E-1			X							
108E-X2			X							

* This waste is non-hazardous unless the Hazardous column is checked.

TA-8 BUILDING 70 LOG #	SOLID WASTE DESCRIPTION*						HAZARDOUS		OTHER	
	MACHINE SHOP	LABORATORY REFUSE	PAPER TRASH	CHEMICAL	SANITARY	CONSTRUCTION DEBRIS	LISTED	CHARACTERISTIC	N/TL	RADIOACTIVE
110-1					X					
111-1					X					
111-2			X							
116-1			X							
117-1			X							
117-2					X					
117-3			X							
117-4					X					
118-1			X							
119-1					X					
119-X2		X						X		

* This waste is non-hazardous unless the Hazardous column is checked.

TA-8 BUILDING AW-23 LOG #	SOLID WASTE DESCRIPTION*						HAZARDOUS		OTHER	
	MACHINE SHOP	LABORATORY REFUSE	PAPER TRASH	CHEMICAL	SANITARY	CONSTRUCTION DEBRIS	LISTED	CHARACTERISTIC	N/TI	RADIOACTIVE
1-B-1			X							
1-E-1					X					
1-G-1					X					
1-G-2			X							
1H-1					X					
1H-2					X					
1H-3			X							
1H-4					X					

* This waste is non-hazardous unless the Hazardous column is checked.

TA-69 BUILDING 2 LOG #	SOLID WASTE DESCRIPTION*						HAZARDOUS		OTHER	
	MACHINE SHOP	LABORATORY REFUSE	PAPER TRASH	CHEMICAL	SANITARY	CONSTRUCTION DEBRIS	LISTED	CHARACTERISTIC	Ni/TI	RADIOACTIVE
100-1					X					
102-1					X					
102-2			X							
104-1					X					
105-1			X							
106-1					X					
106-2			X							
107-1			X							
111-1			X							

* This waste is non-hazardous unless the Hazardous column is checked.

