159047

FEDERAL ON-SCENE COORDINATOR'S AFTER ACTION REPORT for SLOAN GLASS SITE CULLODEN, CABELL COUNTY, WEST VIRGINIA 26 NOVEMBER 1996 to 25 MARCH 1997

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III WHEELING, WEST VIRGINIA

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REGION III **PROJECT # 417**
CERCLA REMOVAL ACTION **FACT SHEET**

SITE:	Sloan Glass Site
SIZE:	approximately 2 to 3 acres
LOCATION:	Culloden, Cabell County, West Virginia
APPROVAL DATE:	22 November 1996
PROJECT DATES:	26 November 1996 - 25 March 1997
DESCRIPTION:	The Sloan Glass Site is a defunct glass plant located just off of Charlie's Creek Road in Culloden, Cabell County.West Virginia. The Sloan Glass Company began operation in 1964 and was in the business of making crystal lamp fixtures. Prior to 1964, the glass plant was owned and operated by the A.F. Bischoff Company. Bischoff started the operation in the mid 1940's and made various items from colored glass. On 24 September 1996, the West Virginia Department of Environmental Protection (WVDEP) conducted a site assessment at the plant. A large amount of loose powders, bags, and containers including approximately 50 drums of various sizes were discovered inside the building. Because Sloan Glass was in bankruptcy and the WVDEP did not have the resources to perform the necessary cleanup operations, the WVDEP requested that the U.S. Environmental Protection Agency (EPA) perform an emergency site assessment. On 25 October 1996, the Roy F. Weston, Inc. (WESTON®),Site Assessment Technical Assistance (SATA) team performed a site assessment and on 26 November, the EPA began the removal based on the findings of the assessment.
NATIONAL PRIORITIES LIST STATUS:	off
SITE ID CODE:	A19
HAZARDOUS MATERIALS:	acids, corrosive solids, metals, oxidizers, flammable liquids
QUANTITIES REMOVED:	500 pounds of flammable liquids, 12,500 pounds of hazardous waste solid (lead, arsenic), 11,500 pounds of oxidizing solids, 3,000 pounds of waste hydrofluoric acid and sulfuric acid mixture, 500 pounds of ammonium hydrogen fluoride, 500 pounds of fluoride salts, 2 cubic yards of nonhazardous asbestos-containing waste material, and 8 cubic yards of nonhazardous personal protective equipment (PPE), trash, plastic, and debris.

Federal On-Scene Coordinator's After Action Report
Sloan Glass Site

REMOVAL CONTRACTOR:	Earth Tech Remediation Services located in Richmond, Virginia
DISPOSAL LOCATIONS	Michigan Disposal Inc., Belleville, Michigan Michigan Recovery Systems, Inc., Romulus, Michigan City Environmental, Inc., Detroit, Michigan American Landfill, Inc., Waynesburg, Ohio.
PROJECT CEILING:	$200,000
PROJECT COSTS:	$155,670
COMMENTS:	The overall success of this project was the result of good coordination between federal, state, and local authorities whose cooperation and participation effected a timely and efficient response.

D. Matlock

Dennis Matlock, OSC

FOREWORD

The On-Scene Coordinator (OSC), as mandated by the National Oil and Hazardous Substances Pollution Contingency Plan, 40 CFR Part 300 (NCP 1994), is required to provide a coordinated federal response capability at the scene of an unplanned or sudden release of oil or hazardous substance that poses a threat to the public welfare or the environment. In addition, the provisions of Section 104 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 1980, as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA), promote a coordinated federal, state, and local response to mitigate situations at hazardous waste sites that pose an imminent and substantial threat to public health and/or the environment.

Conditions at the Sloan Glass Site presented an imminent and substantial risk of harm to human health and the environment due to the uncontrolled release of a hazardous substance to the environment, thereby providing a legal basis for federal response activities. The provisions of the NCP, Section 300.415, were implemented by the U.S. Environmental Protection Agency, Region III, Wheeling, West Virginia.

The OSC would like to extend thanks to all of the agencies and individuals who provided valuable assistance and expertise to ensure the successful completion of this cleanup effort.

Dennis Matlock
On-Scene Coordinator
U.S. EPA Region III
Wheeling, West Virginia

Federal On-Scene Coordinator's After Action Report
Sloan Glass Site

I. PURPOSE

The purpose of this After Action Report is to provide the National Response Team and the Region III Regional Response Team with a document detailing each phase of the Sloan Glass Site removal action including an analysis of how successfully the removal progressed.

II. SUMMARY OF INCIDENT

The Sloan Glass Site is estimated to be two to three acres in size situated in a residential area of Culloden, Cabell County, West Virginia (Appendix A - Site Location Maps). The site is comprised of a building covering approximately 35,000 square feet, a small hut, a small house used for an office, and several metal framed structures with no walls or ceilings. The building housed most of the chemicals on site. The site is bordered on the north by a small cemetery, trailer park, and a T-shirt plant. The site is bordered on the south by a CSX railway that runs parallel to the site. The site is bordered on the west by a field and on the east by the plant parking lot.

The West Virginia Department of Environmental Protection (WVDEP) conducted a site assessment at the plant on 24 September 1996 (Appendix B - Site Inspection Report). A large amount of loose powders, bags, and containers including approximately 50 drums of various sizes were discovered inside the building. A pallet supporting six boxes of ammonium hydrogen fluoride powder was also discovered inside the building. WVDEP collected ten samples from inside and outside of the building. Analytical results revealed that some of the materials inside the building contained elevated levels of arsenic, barium, and chromium. During the inspection, WVDEP discovered evidence that people had been inside the building. Hand prints were found inside a bin of arsenic and a pentagram had been drawn on the floor. Before departing the site, WVDEP staged two drums of what was believed to be hydrofluoric acid and several containers of metals into a locked cage inside the building (Area #1). Each of the entrances to the building were closed and locked if possible. Because of the large number of chemicals on site and the fact that Sloan Glass was in bankruptcy, WVDEP requested that the EPA perform an emergency site assessment.

On 25 October 1996, the U.S. Environmental Protection Agency (EPA) and the Roy F. Weston, Inc. (WESTON®), Site Assessment Technical Assistance (SATA) team mobilized to the site and met with representatives of WVDEP. The EPA On-Scene Coordinator (OSC) and SATA conducted a level B entry into the building to perform air monitoring and collect an inventory of chemical containers. In a room at the southern end of the building (Area #2), a large quantity of powders were discovered on the floor adjacent to numerous plastic containers with hand-written labels. Some of the containers were labeled as fluorspar, feldspar, sand, antimony, SSF, borax, lithium carbonate, zinc oxide, sodium nitrate, soda ash, and sodium sulfate. Also adjacent to the powder on the floor were two concrete hoppers of what appeared to be sand. In a large room at the northeast section of the building (Area #5), several pallets supporting six bags of fire clay, twelve bags of refractory castable, two bags of Unipave B mortar, and sixteen bags of calcined alumina were discovered. In addition to these bulk materials, many other chemicals were inventoried by SATA. Before departing the site, SATA members inspected each of the entrances to the building to ensure that site access was restricted.

On 30 October 1996, as directed by the OSC, SATA remobilized to the site to continue chemical inventorying and characterization. During this second assessment, it was determined that approximately 58 containers including drums were staged in various places inside the building and approximately 60 cubic yards of powder was piled on the floor in Area #2. Following chemical inventorying activities, SATA confirmed through hazard categorization that the acid in the locked cage was hydrofluoric acid. It was also confirmed that the ammonium hydrogen fluoride powder contained the fluoride ion. When mixed with water, ammonium hydrogen fluoride powder turns to hydrofluoric acid. Before departing the site, SATA collected a composite sample of the powder in Area #2 and sent the sample to a laboratory for Target Analyte List (TAL) metals and pH analysis. The analytical results revealed elevated levels of arsenic and sodium and a pH of approximately 10. SATA also identified two areas of low level radiation inside the building. The radiation levels ranged from 30 to 100 micro Rem/hour. Because of the newly discovered arsenic and the continued concern of site access and public awareness, the OSC issued Special Bulletin A on 22 November 1996 for $200,000 to initiate a removal action at the site.

On 26 November 1996, the OSC and SATA met with one Earth Tech Remediation Services (Earth Tech) Response Manager and one Earth Tech Response Manager in training. SATA and the Earth Tech personnel then conducted a walk-through assessment of the building to familiarize the Earth Tech Response Managers with the quantities and types of chemicals present and to determine an appropriate staging area for the chemicals. During the assessment, a vat containing a greenish liquid was discovered in Area #5. It was believed that the greenish liquid was hydrofluoric acid used to etch the glass.

On 5 December 1996, Earth Tech personnel and SATA began removal activities at the site. During the initial week of the removal, Earth Tech acquired the command post, electricity, and phones and began the process of clearing a staging area in Area #5. Earth Tech also set up the decon area, posted "Hazardous Area" signs on all sides of the building, and established evacuation routes from inside the building. SATA utilized a beta/gamma meter and a micro R meter and conducted a thorough radiation survey of the building. It was subsequently determined that the radiation was naturally occuring and was coming from refractory brick and refractory mortar. It was also determined that the radiation levels were not high enough to warrant concern. SATA collected one composite sample from each of the two hoppers of what appeared to be sand. The samples were sent to a laboratory for TAL metals and pH analysis. The analytical results revealed that the material in both of the hoppers was not hazardous and was probably sand.

On 14 December 1996, Earth Tech had staged all of the bulk materials and drums in Area #5. A total of 166 drums/containers/bulk materials were staged in Area #5. Earth Tech also had staged 98 empty metal 55-gallon drums and numerous other empty metal and fiber containers outside to be crushed. On 18 December 1996, Earth Tech had de-headed and crushed all of the empty drums and containers. The greenish vat liquid was containerized into three 55-gallon poly drums and the vat itself was cleaned and disassembled. The liquid had a pH of approximately one. All of the powder on the floor from Area #1, Area #2, and the hut was swept and HEPA vacuumed. The material was containerized into three 55-gallon drums. Because the sandy material in the two hoppers did not pose a threat to people or the environment, it was left in the hoppers. On 19 December 1996, Earth Tech and SATA demobilized for the holiday break.

On 7 January 1997, Earth Tech and SATA remobilized to the site and continued removal operations. On 17 January 1997, a small container crushing operation was completed inside the building. By 21 January 1997, Earth Tech and SATA had hazard categorized all 166 of the chemical containers. Earth Tech also had completed test bulking and had established each of the twelve waste streams. Each of the chemicals were bulked into their final shipping containers and sampled for disposal analysis. The twelve waste streams established were combustible solids, peroxides (liquid), inorganic solids, nonhazardous glass, organic solids, oxidizers (solid), hydrofluoric acid, vat drums (solid), vat drums (liquid), hazardous glass, hazardous trash, and decon water. By the OSC's request, four additional waste streams (potassium bichromate, ammonium hydrogen fluoride, frosting mix, and asbestos-containing material to make the total number of waste streams sixteen. Earth Tech had discovered additional powder under a conveyor belt in Area #5. SATA collected a sample of the material and sent it to a laboratory for TAL metals, cyanide, and pH analysis. The analytical results revealed that the material was not hazardous. Because the material was not hazardous, the material was not containerized for disposal. By 24 January 1997, all of the disposal samples had been packaged and sent off to the laboratory. Disposal samples were not needed for the last four waste streams.

On 24 March 1997, Earth Tech and SATA mobilized to the site and prepared all drummed wastes for disposal. The following day, 69 drums, eight cubic yards of PPE/trash, and two cubic yards of asbestos-containing waste material were loaded onto a tractor-trailer for transportation to the appropriate disposal facility (Appendix E - Manifests). During loading activities, SATA collected four biased surface soil samples for RCRA metals analysis. The analytical results were all below EPA's 1997 residential emergency removal guidelines. The analytical results are summarized in Table 1.

Table 1
Post Removal Sampling on 25 March 1997

Sample ID/Location	Concentrations (mg/kg or PPM)							
	As	Ba	Cd	Cr	Pb	Hg	Se	Ag
SG005/Parking Area Ditch	19.2	53.0	10.1J	3.9	28.3J	0.02	1.3B	------
SG006/Beside Office	12.4	47.5	9.0J	8.3	14.1J	0.03	0.87B	------
SG007/Bank by Hut	7.0	99.2	1.4J	14.5	27.5J	0.05	0.76B	------
SG008/Bank by Building	144	369	53.2J	19.2	90.1J	0.03	13.3	------
SG009/Duplicate of SG008	156	300	36.6J	16.7	69.1J	0.04	11.4	------

Data Qualifiers: B - Blank contamination; J - Approximate

Because the analytical results for each of the soil samples were below residential cleanup levels, the OSC deemed that soil removal at the site would not be necessary. During the week of 7 April 1997, the command post was demobilized from the site. A copy of the analytical data was sent to WVDEP and all current information was relayed to the EPA Office of Regional Council and EPA Removal Enforcement and Oil Section. No further EPA activities are anticipated at the site. The real estate and assets were left in the care of the bankruptcy trustee for sale.

III. ANALYSIS OF ISSUES

Site hazard categorization activities proceeded very quickly considering the weather conditions. Temperatures were routinely in the single digits with wind chills well below zero. Earth Tech had set up the hazard categorization area in the hut adjacent to the building. To provide a warmer working area, heavy poly sheeting was hung around the hazard categorization area to act as walls. Two heaters were also set up inside the area for additional warmth. This proved very effective in providing a warmer atmosphere and allowed the Earth Tech chemist and SATA to work for long periods of time.

Because the radiation sources were naturally occuring and the levels were too low to warrant concern, the OSC decided not to incur the cost of disposing of the sources. The first source was refractory stone located along the west wall of the building (Area #3). The second source was refractory mortar located in the southeast corner of Area #5.

During the beginning of the removal action, a resident from the adjacent trailer park complained that many of the pot holes in the access road leading up to the plant were being caused by Earth Tech trucks and equipment. The complaint was unwarranted due to the fact that the pot holes existed before the removal action began. Because of the complaint, SATA was directed by the OSC to photo document the condition of the access road prior to mobilizing heavy equipment to the site. The resident is in charge of maintaining the access road and wanted the EPA to help finance maintenance of the road.

IV. ROSTER OF AGENCIES

AGENCY	CONTACT	BRIEF DESCRIPTION OF DUTIES
U.S. EPA - Region III 401 Methodist Building Wheeling, WV 26003 (304) 234-0284	Dennis Matlock	Federal On-Scene Coordinator; coordinated site activities to the conclusion of the project.
West Virginia Department of Environmental Protection 1356 Hansford Street Charleston, WV 25301-1401 (304) 558-2745	Thomas Blake	Provided OSC with pertinent site background information. Updated on site activities by OSC.
Roy F. Weston, Inc. 141 Waddles Run Road Wheeling, WV 26003 (304) 243-0800	Dave Keyes	Provided technical support to OSC including photographic documentation, site safety, and contractor monitoring.
Earth Tech Remediation Services 2229 Tomlynn Street Richmond, VA 23230 (804) 358-5858	Dave Bofinger	Cleanup contractor responsible for providing personnel and equipment.

IV. ROSTER OF AGENCIES - CONTINUED

AGENCY	CONTACT	BRIEF DESCRIPTION OF DUTIES
Michigan Disposal Inc. 49350 N. I-94 Service Drive Belleville, MI 48111 (800) 592-5489		Disposal facility for hazardous solids, non hazardous solids, oxidizing solids, and non hazardous liquids.
Michigan Recovery Systems 36345 Van Borm Road Romulus, MI 48174 (800) 521-0998		Disposal facility for flammable liquids.
City Environmental, Inc. 1923 Frederick Detroit, MI 48211 (313) 923-0080		Disposal facility for oxidizing solids, hydrofluoric and sulfuric acid mixtures, ammonium hydrogendifluoride, and corrosive solids.
American Landfill, Inc. 7916 Chapel Street S. E. Waynesburg, Ohio (330) 866-3265		Disposal facility for PPE, trash, plastic and debris, asbestos-containing waste material.

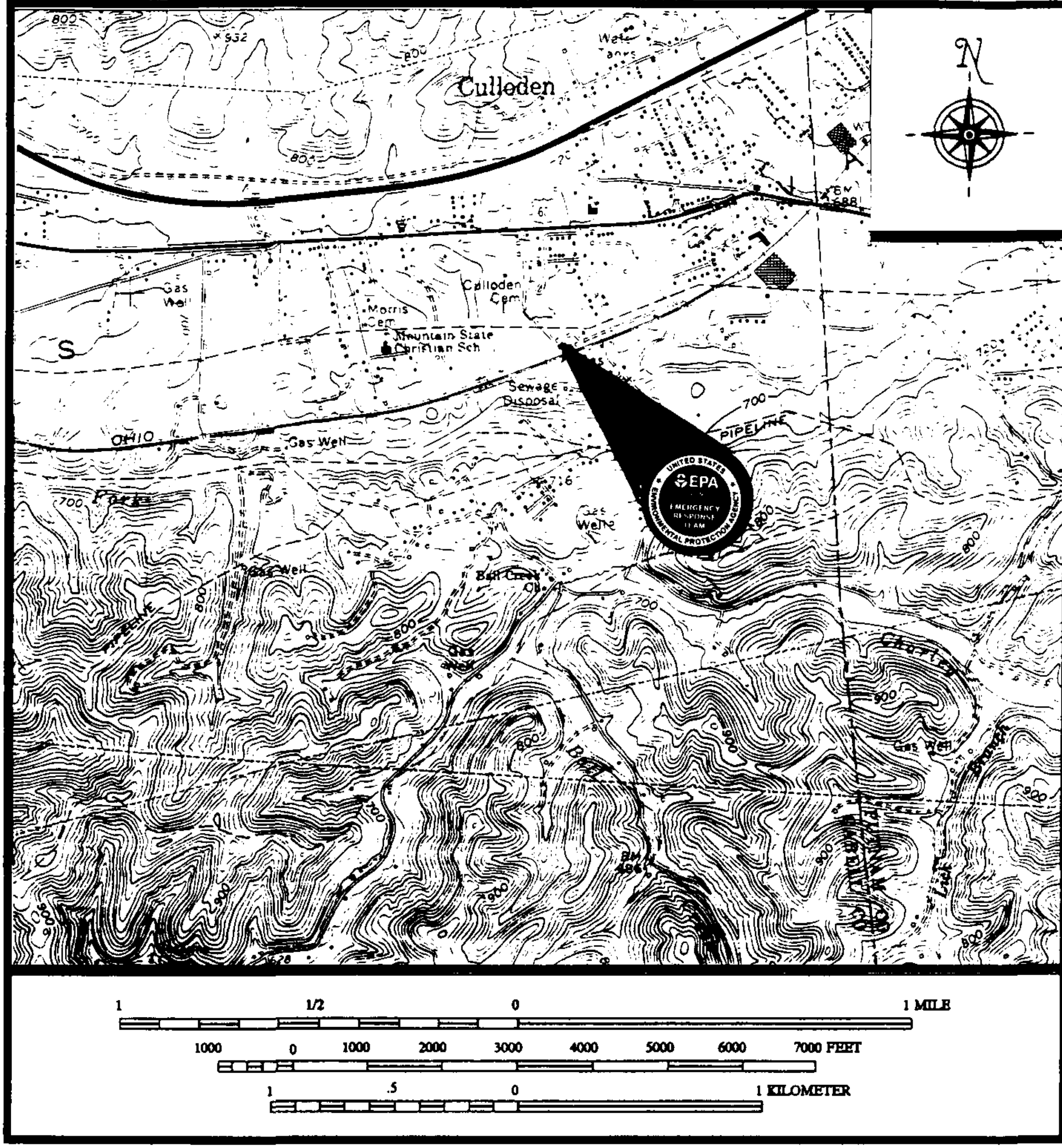
APPENDIX A
SITE LOCATION MAPS

WESTON FEDERAL PROGRAMS DIVISION

REGION III SITE ASSESSMENT TECHNICAL ASSISTANCE

TDD Number: 9701-54

PCS Number: 3054

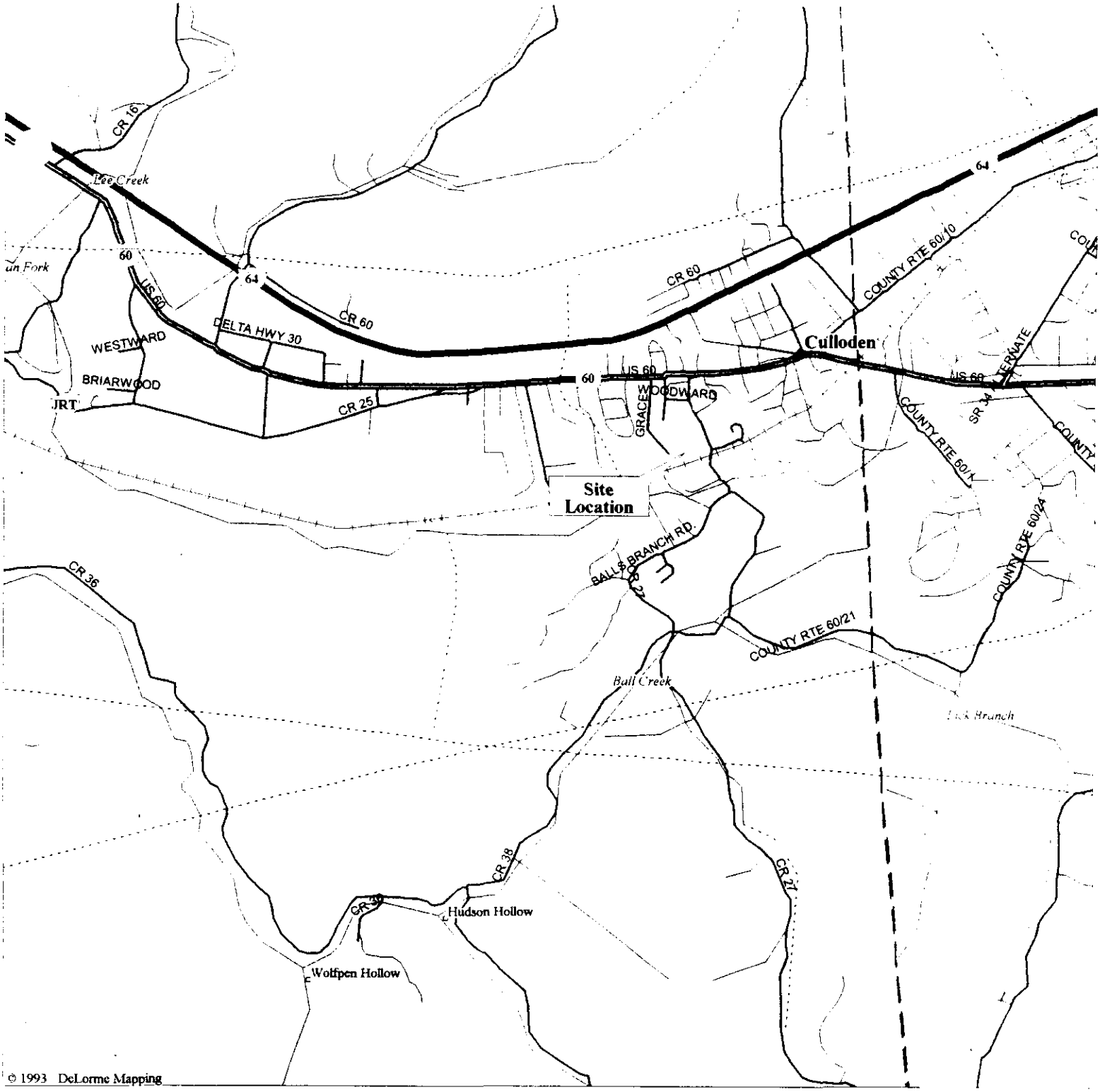


SITE TOPOGRAPHIC MAP

Hurricane Quadrangle

Sloan Glass Site

Culloden, Cabell County, West Virginia



LEGEND

- Town, Small City
- Interstate, Turnpike
- US Highway
- County Boundary
- Population Center
- Street, Road
- Major Street/Road
- Interstate Highway
- US Highway
- Railroad
- RR Underpassing
- River
- Intermittent River
- Utility (powerline)
- Open Water

Scale 1:31,250 (at center)

2000 Feet

1000 Meters

Site Location Map
Mag 14.00
Tue May 13 14:07:27 1997

AR100015

APPENDIX B
SITE INSPECTION REPORT

DIVISION OF ENVIRONMENTAL PROTECTION
1356 Hansford Street
Charleston, WV 25301-1401

LAIDLEY ELI MC COY, PH.D.
DIRECTOR

October 18, 1995

Mr. Charles Kleeman, Chief
Removal Response Section (3HW31)
USEPA Region III
841 Chestnut Building
Philadelphia, Pennsylvania 19107

Re: Request for Emergency Removal at the Sloan Glass, Inc. Site
Site Identification # 5G 96-035

Dear Mr Kleeman

As per recent conversations between you and Tom Blake of my staff, the West Virginia Division of Environmental Protection (DEP) is formally requesting that the EPA Region III Removal Response Section perform an emergency removal action at the Sloan Glass, Inc. Site, located on Charlie's Creek Road in Culloden, Cabell County, West Virginia. Initial assessment by the DEP Office of Waste Management found a large amount of chemicals abandoned in the facility, some containerized and some in large piles. A limited number of samples taken of the material in the building indicate that some of the material contains high levels of arsenic, chromium, and barium, and samples taken outside the building indicate elevated levels of arsenic, barium, cadmium, chromium, and lead in the glass cullet that covers the area in front of the facility and the access road. (See Attached DRAFT Inspection Report and Data Summary.) Additionally, a pallet containing six containers of ammonium hydrogen fluoride and one container labeled as an organic peroxide were observed just inside the door of the building. There are a large amount of loose powders, containers, and bags in the building that are unknowns at this time which will have to be identified, as well as what we believe is asbestos

The site is an estimated two to three acres in size with the building covering approximately 35,000 square feet The site is located in a heavily populated residential area and is reported to be a hangout for children and teenagers. Evidence in the building indicates that unauthorized persons have been inside and it was reported that police have responded to two vandalism calls. Site access is unrestricted and there is evidence of off-site migration of contaminants. There are several residences adjacent to the facility and a portion of the cullet covered access road is heavily utilized by the public

Because of the potential hazards posed by this site to the surrounding populations and the environment, immediate removal actions are necessary. However, the company is in bankruptcy and at this time, there are no Potential Responsible Parties (PRPs) available to perform the necessary actions and DEP does not have the funding or personnel available at this time to handle a site of this magnitude or complexity.

Thank you for your assistance in this matter, and if you need any further information, please contact me at (304-558-2745)

Sincerely,

Pamela D. Hayes
Assistant Chief
Office of Waste Management
Site Investigation and Response Section

Attachments

PDH/TWB/mlc

cc: B. F. Smith, Chief, WVDEP - OWM
Brian Farkas, PIO, WVDEP - PIO
H. Michael Dorsey, Asst. Chief, WVDEP - OWM - CME
Jessica Welsh, PIO, WVDEP - OWM - PIO

DRAFT

DIVISION OF ENVIRONMENTAL PROTECTION

GASTON CAPERTON
GOVERNOR

Office of Waste Management

LAIDLEY ELI MCCOY, PhD
DIRECTOR

LARGE QUANTITY GENERATOR--COMPLIANCE EVALUATION INSPECTION

The regulations for this inspection are the WV Hazardous Waste Management Act (22-18) & 40 CFR 260-265.
These regulations apply to facilities generating >1000kg/month of Hazardous Waste (HW).

COMPANY: Sloan Glass, Inc. EPA ID#: Non-Notifier

MAILING ADDRESS: PO Box 182 LOCATION: 0.3 miles off of Rt. 60 on Charlie's Creek Road

Culloden, West Virginia COUNTY: Cabell PHONE: 304/ 743-9101

COMPANY CONTACT: Charles T. Sloan TITLE: President ADV. OF AUTHORITY:(Y/N)

DATE INSPECTED: September 24, 1996 INSPECTORS:(1) Henry Haas DATE PREPARED: 09-25-96

TIME OF INSPECTION: 1050 hours (2) Dave Cunningham PREPARED BY: Henry Haas

VIOLATIONS:(Y/N) ACTION TAKEN: Enforcement FACILITY DESCRIPTION: Glass Manufacturing

(NOV/Adm.Enf/Ref/Other)

Hazardous Waste Codes	Waste Description	Disposal	Company / Method
D004, D006, D007, D008, D010	Arsenic, Cadmium, Chromium, Lead, Selenium	Still on-site; no removal of any waste cullet has occurred or the removal of waste product. The site is abandoned and is on the bankruptcy auction block. This site **demands** immediate attention.	

COMMENTS: Even though some of the waste cullet was pre-RCRA past analysis shows that a threat to human health and the environment is present at the site. I recommend immediate action to facilitate the clean-up of the site. There are no records for review at the facility since the operation appears to have been closed as late as October of 1995, this according to some furnace log found in a break room. There is no evidence to suggest that Sloan Glass, Inc. ever shipped off-site any hazardous waste.

Testing of the facility from the spent acid / sludge to the cullet piles (which were both old and new) revealed that a threat to human health does exist at this facility. The results also reveal a migration of hazardous wastes / constituents off-site. Children have access to this site and during the initial and subsequent inspections showed that persons were inside the facility and playing in the wastes and vandalizing the facility. This was evident from the first inspection that someone was using their hands in the arsenic bin (and other waste chemicals) and during the follow up inspection someone had drawn a pentagram on the floor. Access to this site should be restricted until clean up is complete. All of the raw materials in the facility look like colored sand or white sand and there area around the facility is a highly populated residential area, for this reason site restriction is mandator. (See the attached results and table on the test results.)

IMMEDIATE RECOMMENDATIONS: Secure the site allowing no access and place a liner along the access road to the facility to minimize the health risk involved with the constant travel along the cullet road.

WASTE MINIMIZATION: The facility is closed and in bankruptcy court. The waste minimization efforts such as source reduction are not available at this time.

Is facility in compliance with all applicable universal waste regulations? (40 CFR Part 273) No

There are a couple of batteries from equipment around the facility.

Is facility in compliance with all applicable waste oil regulations? (40 CFR Part 279) No

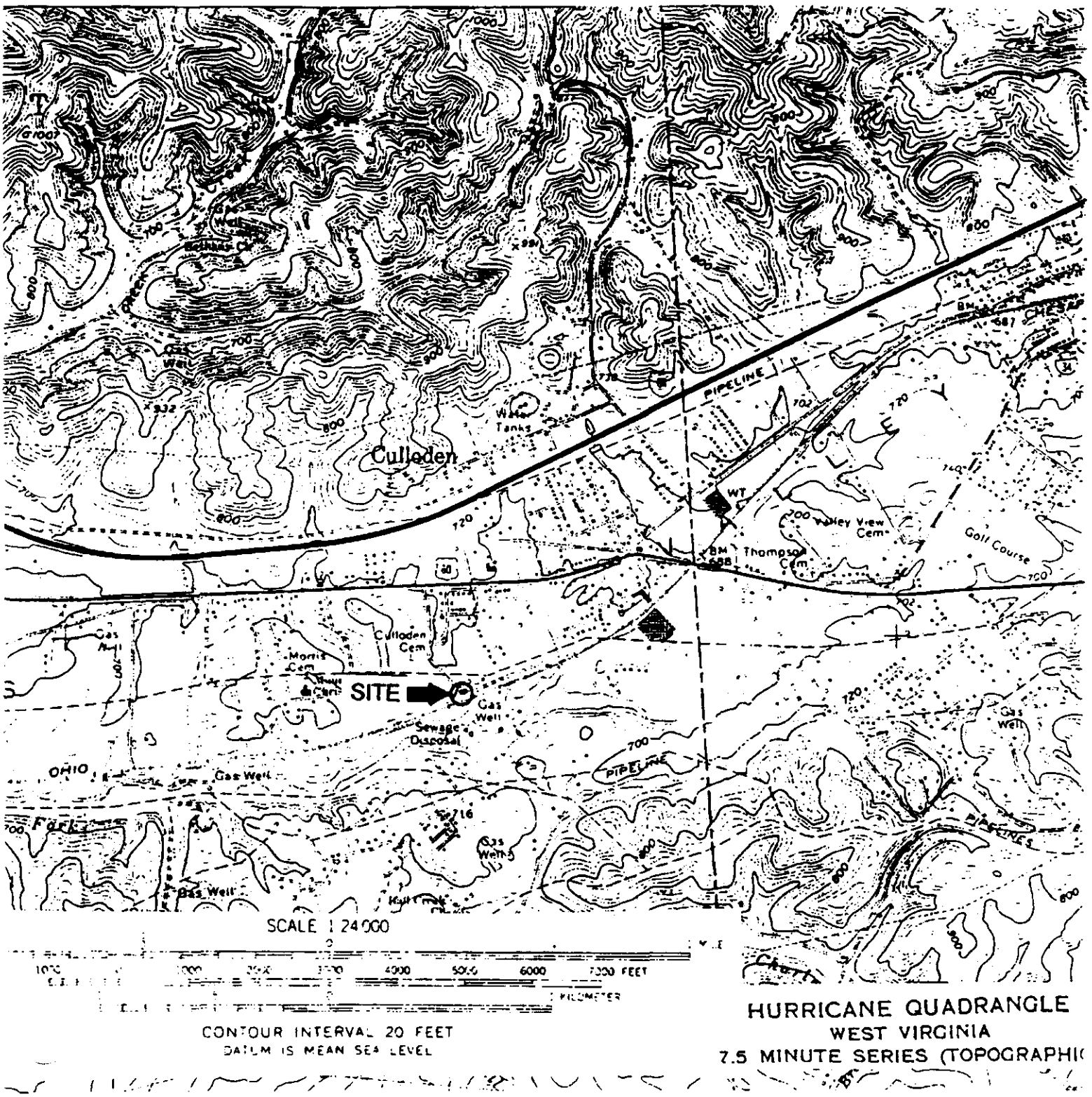
There is some spillage of cutting oils in the tool room.

40 CFR Part		YES	NO	N/A
262.11	Has facility made a HW determination for all waste streams?		X	
262.12	Has facility notified for all HW streams?		X	
262.10	Is facility treating, disposing, or storing HW >90 days?	X		
262.20(a)	Is UHW Manifest OMB control #2050-0039 on EPA Form 8700-22 used?			X
262.20(a)	Are all manifests properly completed?			X
262 Subpart	Before offering HW for transport off-site, does generator...			X
262.30	Package in proper containers?			
262.31	Label with DOT sticker or placard?			
262.32	Mark with HW sticker or placard?			
262.33	Does generator offer initial transporter appropriate placards?			X
262.34	Accumulation Time:	-	-	-
262.34(a)	Is all HW within 90 days shipped off-site or placed in permitted or interim-status area on-site?		X	
262.34(a)(1)	Are all containers closed, in good condition and compatible with their contents?		X	
" "	Are container areas inspected at least weekly?		X	
" "	Are containers holding ignitable or reactive wastes located at least 50 ft from facility property line?		X	
262.34(a)(2)	Is accumulation start date clearly marked and visible on each container?		X	
262.34(a)(3)	Is each on-site HW container & tank labeled "Hazardous Waste"?		X	
262.34(a)(4)	Is aisle space sufficient (minimum 1 container width)?		X	
265 Subpart	Preparedness & Prevention:	-	-	-
" "	Has generator installed...			
" "	Instructive communications or alarm system for facility personnel?		X	
" "	Device at generation points for summoning local emergency response organization?		X	
" "	Fire control equip. & adequate suppression chemicals or water?		X	
" "	Is facility maintained & operated to minimize risk of fire/explosion/release of HW?		X	
" "	Has facility made arrangements with local emergency response agencies/hospitals/contractors?		X	
265 Subpart	Contingency Plan:	-	-	-
" "	Does the contingency plan contain...			
" "	Detailed emergency procedures facility personnel will implement in response to fire/explosion/release of HW?			
"	Detailed description of arrangements with local emergency organizations?			
" "	Updated names, addresses & phone #'s of emergency coordinator(s) on 24 hr basis?			
" "	A listing of appropriate emergency equipment and evacuation plan?			
" "	Has the plan or update been submitted to local emergency response organizations and does facility maintain a copy on-			
" "	Are the provisions of the plan carried out immediately whenever a fire/explosion/release of HW occurs?			
" "	Are facility emergency coordinators familiar with their applicable responsibilities in the event of an emergency?			
265.16	Training:	-	-	-
265.16(d)(1)	Are records of names & job titles maintained for personnel involved in HW management?			
265.16(d)(2)	Written position description for above personnel?			
265.16(d)(3)	Written description of training for above personnel?			
265.16(a)(3)	Does training include (where applicable)...			
265.16(a)(3)i	Procedures for using, inspecting, repairing, and replacing facility emergency and monitoring equipment?			
265.16(a)(3)ii	Key parameters for automatic waste feed cut-off systems?			
265.16(a)(3)iii	Location and use of communications or alarm systems?			
265.16(a)(3)iv	Response to fires, explosions, spills, and groundwater contamination incidents?			
265.16(a)(3)v	Procedures prior to and during shutdown of operations?			
265.16(c)	Have facility personnel completed an annual review of initial training?			
265.16(d)(4)	Does facility maintain records documenting the required training has been completed by above personnel?			
262.34(c)	Satellite Area Accumulation:	-	-	-
265 Subpart I	Are all satellite containers closed, in good condition, and compatible with contents?		X	
262.34(c)(1)ii	Are all satellite containers marked with the words "Hazardous Waste" or other words identifying the contents?		X	
262.34(c)(2)	For excess amounts of HW is generator complying with 262.34(a) within 3 days of start of excess accumulation?		X	
262.34(c)(2)	For excess amounts of HW is each container marked with date of start of excess accumulation and properly labelled?		X	
262 Subpart	Record Keeping & Reporting:	-	-	-
"	Does generator maintain on-site ...			
262.40(a)	Copies of all signed manifests for a minimum of 3 years from date of initial transport ?			
262.40(b)	Copies of each annual or biennial report for a minimum of 3 years from report due date?			
262.40(c)	Copies of all test results and waste determinations for a minimum of 3 years from last date transported off-site?			
262.42	Does generator follow appropriate reporting procedures for manifest exceptions and discrepancies?			

SLOAN GLASS PLANT SITE

SITE ID NO. 5G96 - 035

SITE LOCATION MAP



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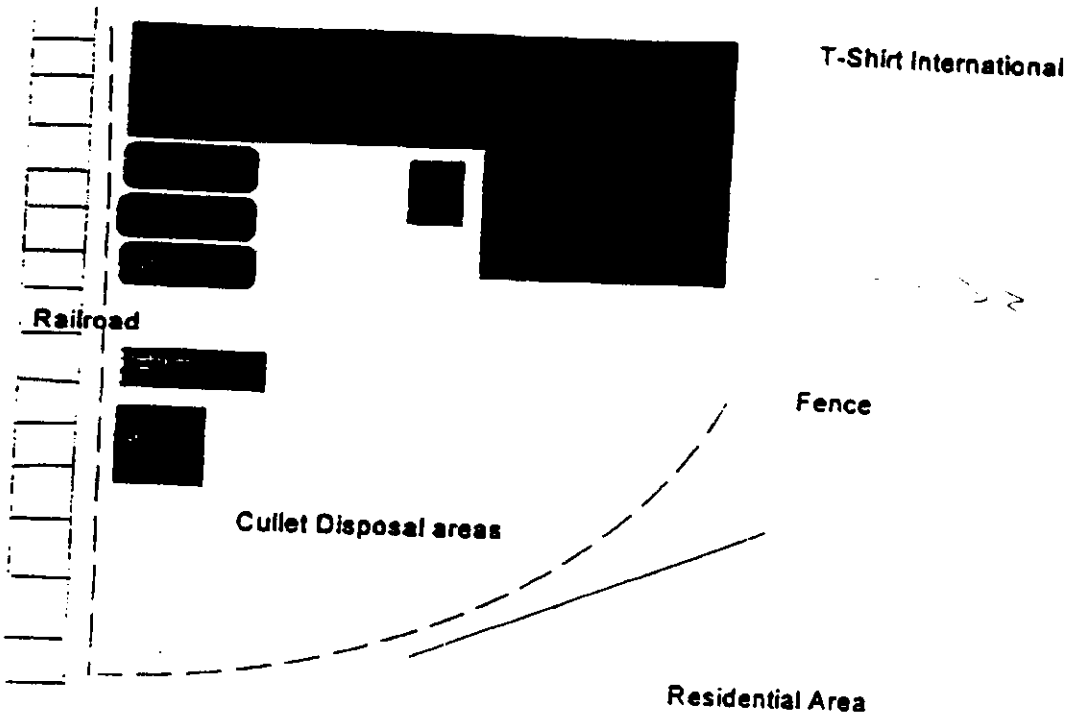
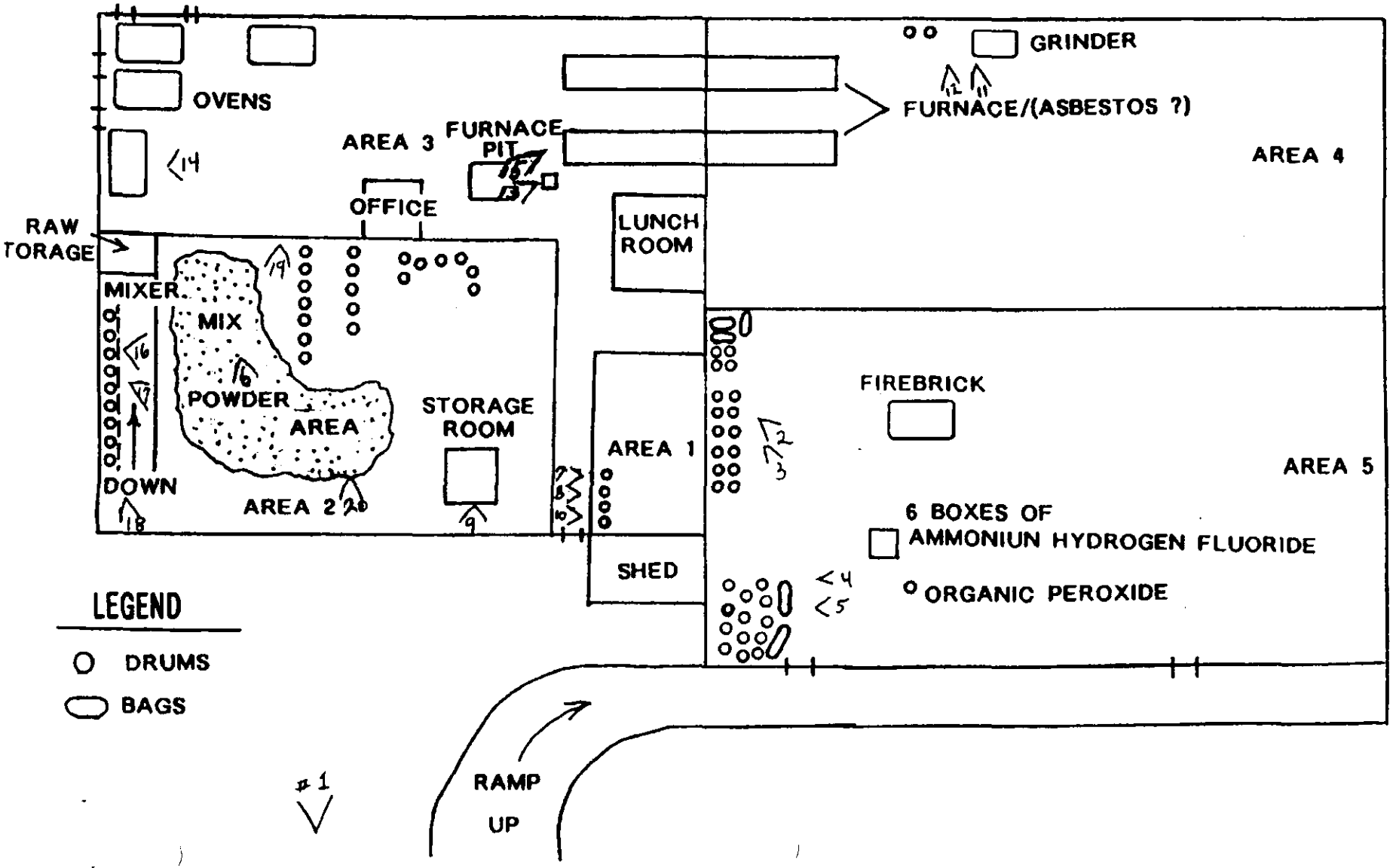

T-Shirt International
Railroad
Fence
Cullet Disposal areas
Residential Area

SITE LAYOUT MAP
SLOAN GLASS
CABELL COUNTY, WV
5G-96-035

PHOTO LOCATIONS



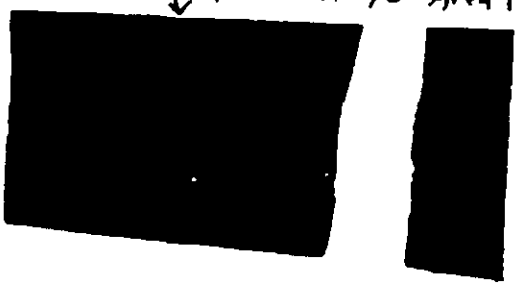
5G96-035 SLOAN GLASS PLANT
Photo #1 - Main Entrance

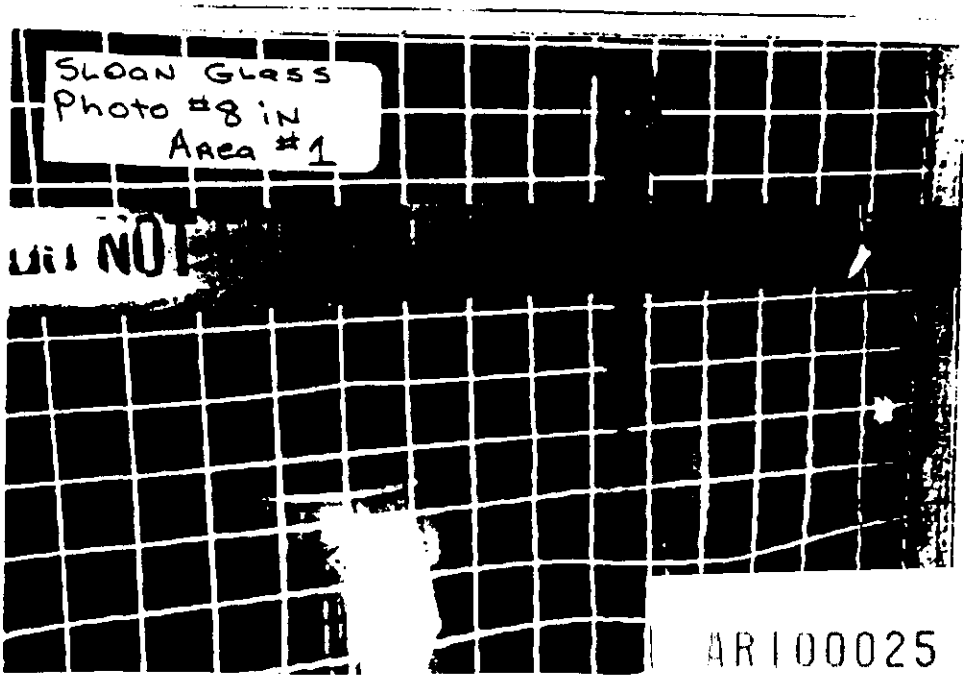
↑ #4 - Area 5

#5 - Area 5

AR100024

↓ Photo # 10 - Area 1





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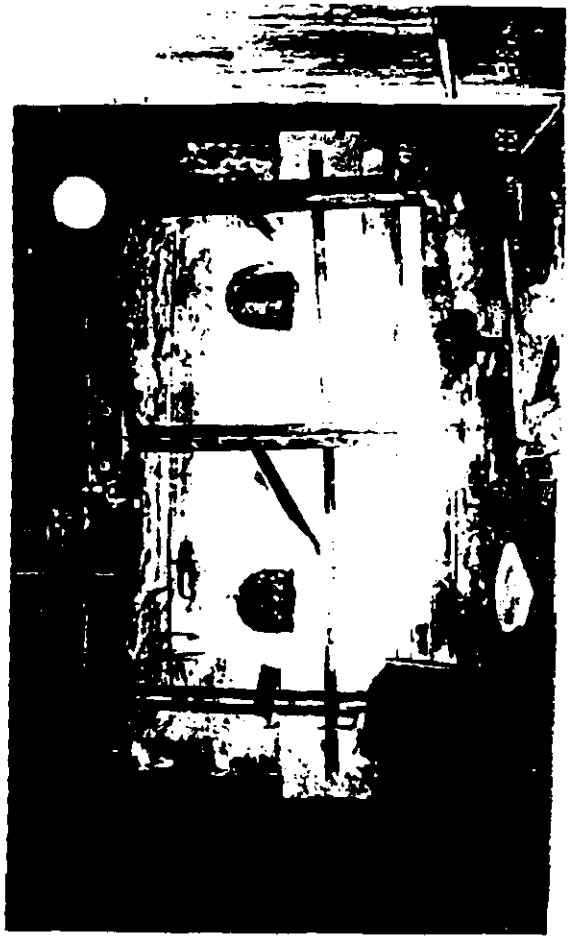


Photo # 14 — Area 3

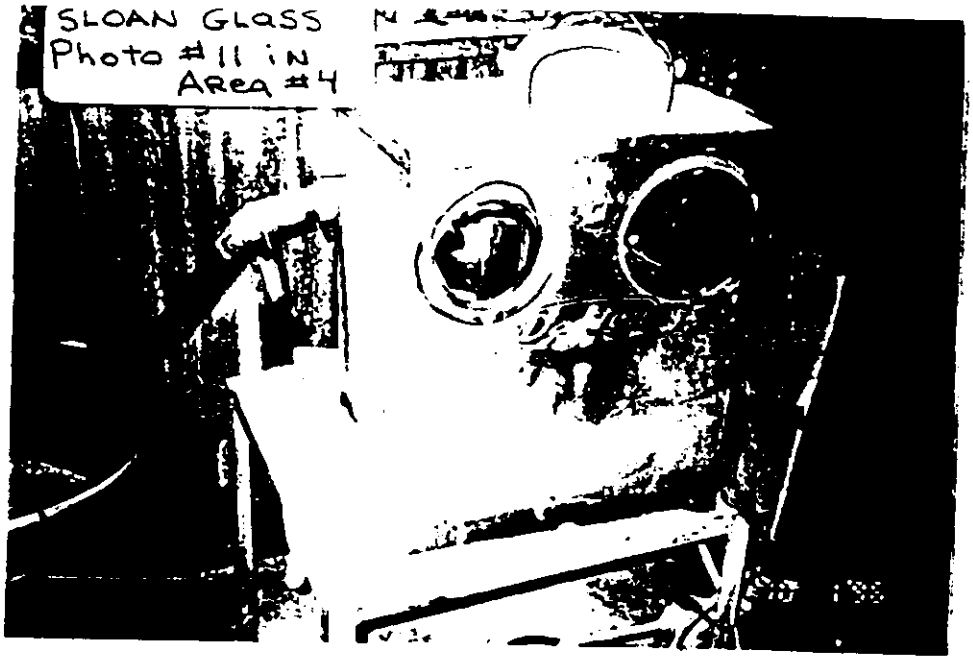
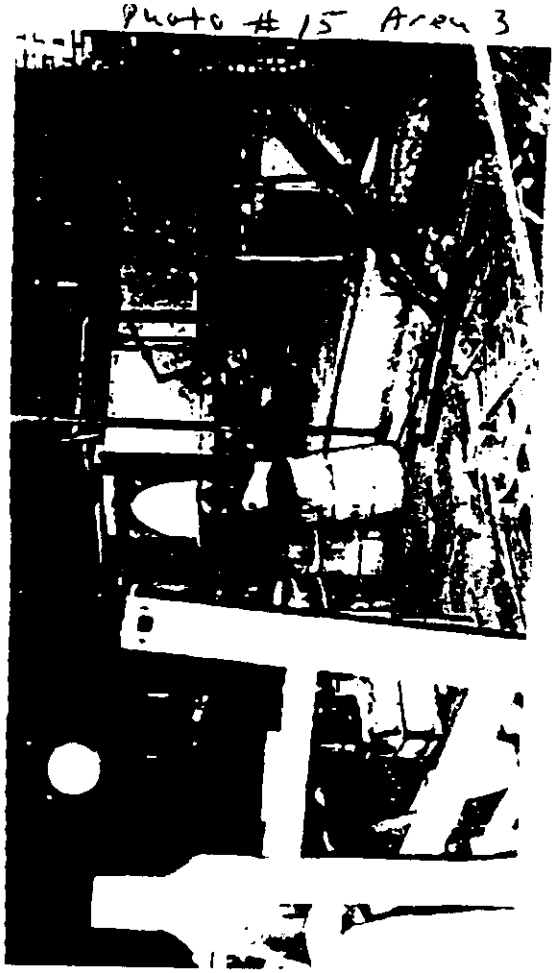


Photo # 15 Area 3



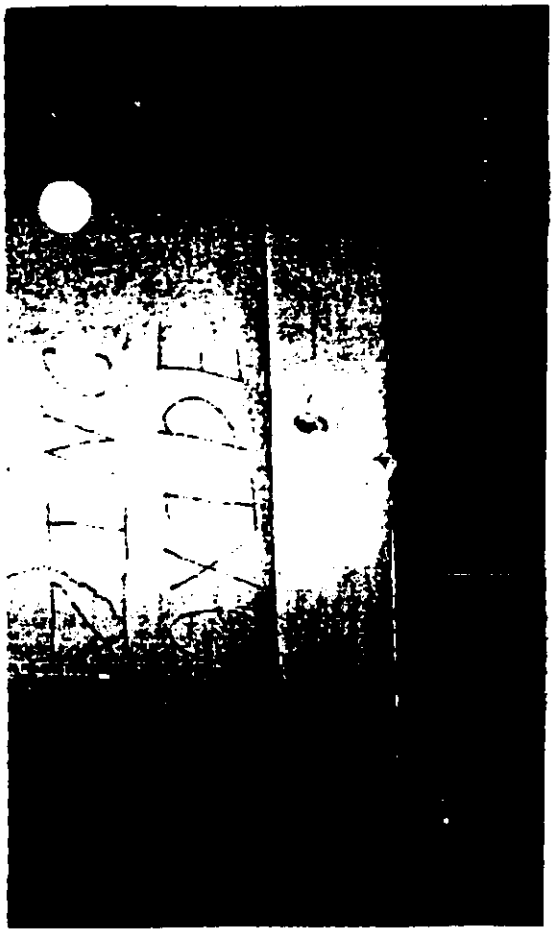


Photo # 19 - Area 2

Photo # 20 - Area 2

SAMPLE	LOCATION: 01; The first sludge / spent acid container	Totals (ppm)	TCLP (ppm)
pH FIELD / LAB	0.0 / 5.79		
ARSENIC		7.7	N/A**
BARIUM		71	N/A
CADMIUM		0.12	N/A
CHROMIUM		0.062	N/A
LEAD		2.4	N/A
SELENIUM		ND*	N/A
SILVER		2.1	N/A
MERCURY		0.046	N/A
SAMPLE	LOCATION: 02; The second sludge / spent acid container	Totals (ppm)	TCLP (ppm)
pH FIELD / LAB	0.0 / 4.96		
ARSENIC		7.3	N/A
BARIUM		1.9	N/A
CADMIUM		0.092	N/A
CHROMIUM		0.25	N/A
LEAD		4.1	N/A
SELENIUM		0.25	N/A
SILVER		2.3	N/A
MERCURY		0.49	N/A
SAMPLE	LOCATION: 03; The third sludge / spent acid container	Totals (ppm)	TCLP (ppm)
pH FIELD / LAB	0.0 / 2.97		
ARSENIC		6.8	N/A
BARIUM		130	N/A
CADMIUM		0.017	N/A
CHROMIUM		0.37	N/A
LEAD		2.9	N/A
SELENIUM		0.41	N/A
SILVER		2.8	N/A
MERCURY		0.022	N/A
SAMPLE	LOCATION: 04; Outside batch mix rm - labeled Potassium Bichromate	Totals (ppm)	TCLP (ppm)
ARSENIC		***	14
BARIUM		***	0.17
CADMIUM		***	0.21
CHROMIUM		***	320
LEAD		***	1.4
SELENIUM		***	ND
SILVER		***	0.70
MERCURY		***	ND
SAMPLE	LOCATION: 05; Inside batch mix / storage rm: Labeled Arsenic	Totals (ppm)	TCLP (ppm)
ARSENIC		***	>8,000
BARIUM		***	0.76
CADMIUM		***	ND
CHROMIUM		***	ND

APPENDIX C
SPECIAL BULLETIN A

SPECIAL BULLETIN A
Sloan Glass, Inc. Site
P.O. Box 182
Charlie's Creek Road
Culloden, Cabell County, West Virginia 25510

TO: Regional Response Center, U.S. EPA Region III
DATE: 22, November 1996
FROM: Dennis Matlock, OSC EPA Region III
Removal Response Section (3HW31)
THRU: Abraham Ferdas, Associate Director
Office of Superfund (3HW02)
THRU: Dennis P. Carney, Chief
Superfund Removal Branch (3HW30)
THRU: Charlie Kleeman, Section Chief
Removal Response Section (3HW31)
SUBJECT: Notification of $200,000 Activation at the SLoan Glass Inc. Site, Culloden, Cabell County, West Virginia.

I. SITUATION

On Tuesday, October 22, 1996, EPA Region III was formally notified and requested by the West Virginia Division of Environmental Protection (WVDEP) to perform an emergency assessment/removal at the Sloan Glass, Inc. Site, located on Charlie's Creek Road in Culloden, Cabell County, West Virginia. On 24, September 1996, the WVDEP Office of Waste Management found a large amount of chemicals abandoned in the facility, some containerized and some in large piles. Samples taken by DEP from some of the wastes indicate that some of the material contains high levels of arsenic, chromium, and barium, and samples taken outside the building indicate elevated levels of arsenic, barium, cadmium, chromium, and lead in the glass cullet that covers the area in front of the facility and the access road. Several drums/containers/vats of hydrofluoric acid was confirmed.

OSC Matlock contacted Tom Blake of, WVDEP and arranged for meeting/site assessment at the Sloan property on Friday, October 25, 1996. During the initial EPA site assessment the following was noted/observed:

* A screened in area of the building which contained the drums of hydrofluric acid.
* A pallet containing six containers of ammonium hydrogen fluoride
* One container labeled as an organic peroxide
* Large amount of loose powders, containers, and bags in the building that are unknowns at this time.
* Possible asbestos.
* Loose powders confirmed to contain arsenic.

Delegation of Authority 14-1-A authorizes the OSC to approve emergency CERCLA funding in the amount of $200,000 for the initiation of removal/stabilization actions. The EPA OSC has

been provided site access by the Bankruptcy Trustee for Mr. Sloan, the current site owner to conduct necessary actions required at this Site.

II. BACKGROUND

The Sloan Glass, Inc. Site was in the business of making crystal lamp fixtures and had been in operation since 1964. Prior to 1964, the glass plant was owned and operated by the A.F. Bischoff Company. Bischoff started operation in the mid-1940's and was in the business of making various items from colored glass. The Site is an estimated two to three acres in size with the building covering approximately 35,000 square feet. The Site is located in a heavily populated residential area and is reported to be a hangout for children and teenagers. Evidence in the building indicates unauthorized access in the building. Site access is poorly restricted and there is evidence of offsite migration of contaminants.

According to information provided by the WVDEP, Sloan Glass is presently in bankruptcy and at this time, there are no Potential Responsible Parties (PRPs) available to perform the necessary cleanup actions and the WVDEP does not have the funding or personnel available at this time to handle a site of this magnitude or complexity. All available information gathered by the OSC and the WVDEP has been given to the EPA Enforcement Section for review.

III. Threats to public Health or Welfare or the Environment

Section 300.415 of the NCP lists the factors to be considered in determining the appropriateness of a Removal Action. Paragraph (b) (2) i, ii, iii, iv, and vii of Section 300.415 directly apply as follows to the conditions of the Sloan Glass Site:

300.415 (b) (2) **(i)** **"Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances or pollutants or contaminants"**

Based upon the site's proximity to local residents, the confirmed presence of hazardous substances (most importantly the HF drums) and unknown substances poses a substantial health threat to anyone venturing on or near the Sloan Glass Site.

300.415 (b) (2) **(ii)** **"Actual or potential contamination of drinking water supplies or sensitive ecosystems"**

The Site is within a quarter of a mile of the Indian Fork Creek. Any runoff, groundwater, or migrating contaminants could flow off-site and potentially threaten other areas in this residential area.

300.415 (b) (2) (iii) **"Hazardous substances or pollutants or contaminants in drums, barrels, tanks or other bulk storage containers that may pose a threat of release"**

Many containers including drums and bags are located throughout the building. Several of these are falling apart with their contents spilling out onto the floor. Evidence of people inside the building was found including hand prints inside the bin of arsenic.

300.415 (b) (2) (iv) **"High levels of hazardous substances or pollutants or contaminants in the soils largely at or near the surfaces, that may migrate."**

Surface soil samples collected by the WVDEP from outside of the building revealed elevated levels of metals in the soil. One composite sample collected from an area beside the glass plant office revealed 480 ppm of arsenic.

300.4155 (b) (2) (vii) **"The availability of other appropriate Federal, State response mechanisms to respond to the release."**

The WVDEP has formally requested, by letter, EPA assistance in mitigating the hazards posed by this site.

IV. PROPOSED ACTIONS AND ESTIMATED COSTS

Due to increased WVDEP concern and EPA analytical data confirming the presence of hazardous materials, the OSC determined that a potential threat to human health and the environment exists at the Sloan Glass, Inc. Site. The OSC has tasked ERCS to secure site access and to stabilize/stage/remove all hazardous wastes and contaminated materials. Upon completion of sampling for disposal, suitable T&D will be conducted. Additional funding may be necessary to complete T&D.
The estimated costs for this Removal Activation are as follows:

ERCS	$	145,000
SATA	$	40,000
EPA	$	15,000
Total	$	200,000

Because the conditions at the Sloan Glass, Inc. Site meet the conditions set forth in Section 300.415 of the National Oil and Hazardous Substances Pollution Contingency Plan for an immediate Removal, the OSC has initiated funding for this Removal Action.

Dennis Matlock, OSC
U.S. EPA, Region III
Wheeling, WV

APPENDIX D
POLREPS

No Incident = Notification

POLREP #01
SLOAN GLASS SITE
CHARLIE'S CREEK ROAD
CULLODEN, CABELL COUNTY, WEST VIRGINIA 25510
ATTENTION: CHARLIE KLEEMAN
EVENT: REMOVAL ASSESSMENT

I. SITUATION (FRIDAY, 25 OCTOBER, 1996)

A. ON TUESDAY, OCTOBER 22, 1996, EPA REGION III WAS FORMALLY NOTIFIED AND REQUESTED BY THE WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION (WVDEP) TO PERFORM AN EMERGENCY REMOVAL ASSESSMENT AT THE SLOAN GLASS SITE. THE SLOAN GLASS SITE IS A DEFUNCT GLASS PLANT LOCATED JUST OFF OF CHARLIE'S CREEK ROAD IN CULLODEN, CABELL COUNTY, WEST VIRGINIA. THE SITE IS AN ESTIMATED TWO TO THREE ACRES IN SIZE WITH MOST OF THE CHEMICALS HOUSED IN A BUILDING COVERING APPROXIMATELY 35,000 SQUARE FEET. ACCORDING TO THE WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION (WVDEP), THE COMPANY IS BANKRUPT AND THERE ARE NO POTENTIAL RESPONSIBLE PARTIES (PRPs) AVAILABLE TO CONDUCT THE NECESSARY ACTIONS.

B. WVDEP CONDUCTED A SITE ASSESSMENT INCLUDING SAMPLING ACTIVITIES ON 24 SEPTEMBER 1996. A LARGE AMOUNT OF IDENTIFIED LOOSE POWDERS, BAGS, AND CONTAINERS INCLUDING APPROXIMATELY 50 DRUMS OF VARIOUS SIZES WERE DISCOVERED INSIDE THE BUILDING. ALSO DISCOVERED INSIDE THE BUILDING WERE SIX PACKAGES OF AMMONIUM HYDROGEN FLUORIDE AND ONE OPEN CONTAINER LABELED AS AN ORGANIC PEROXIDE. TEN SAMPLES COLLECTED BY WVDEP REVEALED THAT SOME OF THE MATERIALS CONTAINED ELEVATED LEVELS OF ARSENIC, LEAD, AND BARIUM. BECAUSE OF THE REPORTED LARGE QUANTITY OF CHEMICALS AT THE SITE, WVDEP REQUESTED THAT THE FEDERAL EPA PERFORM AN EMERGENCY SITE ASSESSMENT.

C. PERSONNEL ON SCENE: OSC-1, WVDEP-5, SATA-3, CABELL-HUNTINGTON HEALTH DEPARTMENT-1

D. WEATHER ON SCENE: OVERCAST WITH TEMP.'S IN THE LOW 60'S.

II. ACTIONS TAKEN:

A. ON 25 OCTOBER 1996, THE EPA ON-SCENE COORDINATOR (OSC) DENNIS MATLOCK AND THREE MEMBERS OF SATA ARRIVED AT THE SITE AND MET WITH FIVE REPRESENTATIVES OF WVDEP. ADDITIONALLY, KAREN HALL-DUNDAS WITH THE CABELL-HUNTINGTON HEALTH DEPARTMENT WAS ONSITE. HALL-DUNDAS CONFIRMED THAT THE HEALTH DEPARTMENT COULD PROVIDE LEAD TESTING TO NEARBY RESIDENTS. IT WAS DISCOVERED THAT WVDEP HAD PREVIOUSLY BULKED SOME HYDROFLUORIC ACID INTO ONE 55 GALLON DRUM AND STAGED IT INTO A LOCKED CAGE INSIDE THE BUILDING. ONE DRUM OF ARSENIC WAS ALSO STAGED INSIDE THE LOCKED CAGE.

B. THE OSC AND SATA DONNED LEVEL B PERSONAL PROTECTIVE EQUIPMENT (PPE) AND ENTERED THE BUILDING TO CONDUCT AIR MONITORING AND CHEMICAL INVENTORYING. A LARGE PILE OF POWDER WAS DISCOVERED INSIDE THE BUILDING. ADJACENT TO THE PILES WERE SEVERAL SMALL DRUMS LABELED AS FLUORSPAR, FELDSPAR, SAND, ANTIMONY, SSF, BORAX, LITHIUM CARBONATE, ZINC OXIDE, SODIUM NITRATE, SODA ASH, AND SODIUM SULFATE. A SMALL CONTAINER OF SELENIUM METAL WAS ALSO DISCOVERED. MANY OTHER CHEMICALS WERE INVENTORIED BY SATA DURING THE ASSESSMENT.

C. WVDEP HAD CLOSED AND LOCKED EACH OF THE ENTRANCES TO THE BUILDING AND WRAPPED DANGER TAPE AROUND THE FRONT OF THE FACILITY. SATA NOTICED ONE OF THE ROLLING DOORS AT THE REAR OF THE BUILDING WAS STILL BARELY OPEN. WHAT LOOKED TO BE A NEW WIRE FENCE HAD BEEN ERECTED AT THE REAR OF THE BUILDING.

III. FUTURE ACTIONS:

A. FURTHER CHEMICAL/WASTE CHARACTERIZATION.

B. OSC TO COORDINATE ALL SITE ACTIVITIES WITH THE WVDEP.

C. OSC TO GENERATE ACTION MEMO FOR REMOVAL ACTION BASED UPON THE KNOWN THREATS AT THIS SITE.

D. OSC TO PURSUE PRP INFORMATION WITH EPA ENFORCEMENT SECTION.

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DENNIS MATLOCK, OSC
U.S. EPA REGION III
WHEELING, WV

POLREP #02
SLOAN GLASS SITE
CHARLIE'S CREEK ROAD
CULLODEN, CABELL COUNTY, WEST VIRGINIA 25510
ATTENTION: CHARLIE KLEEMAN
EVENT: REMOVAL ASSESSMENT

I. SITUATION (WEDNESDAY, 30 OCTOBER, 1996)

A. ON TUESDAY, OCTOBER 22, 1996, EPA REGION III WAS FORMALLY NOTIFIED AND REQUESTED BY THE WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION (WVDEP) TO PERFORM AN EMERGENCY REMOVAL ASSESSMENT AT THE SLOAN GLASS SITE. THE SLOAN GLASS SITE IS A DEFUNCT GLASS PLANT LOCATED JUST OFF OF CHARLIE'S CREEK ROAD IN CULLODEN, CABELL COUNTY, WEST VIRGINIA. THE SITE IS AN ESTIMATED TWO TO THREE ACRES IN SIZE WITH MOST OF THE CHEMICALS HOUSED IN A BUILDING COVERING APPROXIMATELY 35,000 SQUARE FEET. ACCORDING TO WVDEP, THE COMPANY IS BANKRUPT AND THERE ARE NO POTENTIAL RESPONSIBLE PARTIES (PRPs) AVAILABLE TO CONDUCT THE NECESSARY ACTIONS. THE BUILDING IS WITHIN A RESIDENTIAL AREA WITH THE NEAREST HOME A COUPLE HUNDRED FEET AWAY.

B. WVDEP CONDUCTED A SITE ASSESSMENT INCLUDING SAMPLING ACTIVITIES ON 24 SEPTEMBER 1996. A LARGE AMOUNT OF IDENTIFIED LOOSE POWDERS, BAGS, AND CONTAINERS INCLUDING APPROXIMATELY 50 DRUMS OF VARIOUS SIZES WERE DISCOVERED INSIDE THE BUILDING. ALSO DISCOVERED INSIDE THE BUILDING WERE SIX PACKAGES OF AMMONIUM HYDROGEN FLUORIDE AND ONE OPEN CONTAINER LABELED AS AN ORGANIC PEROXIDE. TEN SAMPLES COLLECTED BY WVDEP REVEALED THAT SOME OF THE MATERIALS CONTAINED ELEVATED LEVELS OF ARSENIC, LEAD, AND BARIUM. BECAUSE OF THE REPORTED LARGE QUANTITY OF CHEMICALS AT THE SITE, WVDEP REQUESTED THAT THE FEDERAL EPA PERFORM AN EMERGENCY SITE ASSESSMENT.

C. ON 25 OCTOBER 1996, THE EPA ON-SCENE COORDINATOR (OSC) DENNIS MATLOCK AND THREE MEMBERS OF SATA CONDUCTED A REMOVAL ASSESSMENT AT THE SITE. AS PART OF THE ASSESSMENT, SATA CONDUCTED CHEMICAL INVENTORYING. IT WAS DISCOVERED THAT THE WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION (WVDEP) HAD PREVIOUSLY BULKED HYDROFLUORIC ACID INTO TWO POLY DRUMS AND STAGED THEM IN A LOCKED CAGE INSIDE THE BUILDING. WVDEP HAD ALSO STAGED VARIOUS METALS INCLUDING ARSENIC IN THE LOCKED CAGE. IT WAS DISCOVERED THAT ACCESS TO INSIDE THE BUILDING WAS MORE RESTRICTED THAN WAS REPORTED. HOWEVER CHEMICAL HAZARDS DID EXIST.

D. PERSONNEL ON SCENE: OSC-1, WVDEP-3, SATA-2

E. WEATHER ON SCENE: MOSTLY SUNNY WITH TEMP.'S IN THE UPPER 60'S.

II. ACTIONS TAKEN:

A. ON 30 OCTOBER 1996, THE OSC AND TWO MEMBERS OF SATA ARRIVED AT THE SITE TO CONTINUE CHEMICAL INVENTORYING AND CHARACTERIZATION. CONCLUDING THE ASSESSMENT, IT WAS DETERMINED THAT APPROXIMATELY 58 CONTAINERS INCLUDING DRUMS WERE STAGED IN VARIOUS LOCATIONS INSIDE THE BUILDING. IT WAS ESTIMATED THAT APPROXIMATELY 60 CUBIC YARDS OF LOOSE UNKNOWN POWDER IS PILED ON THE FLOOR OF THE BUILDING. IN ADDITION TO THE CONTAINERS AND THE POWDER PILES, FOUR PALLETS OF BAGGED MATERIALS AND ONE PALLET OF AMMONIUM HYDROGEN FLUORIDE WERE IDENTIFIED INSIDE THE BUILDING.

B. MEMBERS OF SATA CONDUCTED HAZARD CATEGORIZATION ACTIVITIES ON WHAT WAS BELIEVED TO BE HYDROFLUORIC ACID, A POWDER LABELED AS AN ORGANIC PEROXIDE, AND THE BOXED POWDERS LABELED AS AMMONIUM HYDROGEN FLUORIDE. THE ACID TESTED POSITIVE FOR THE FLUORIDE ION CONFIRMING THAT IT WAS HYDROFLUORIC ACID. THE pH WAS 1.0 - 1.5. THE AMMONIUM HYDROGEN FLUORIDE POWDER ALSO TESTED POSITIVE FOR THE FLUORIDE ION BUT HAD A SLIGHTLY HIGHER pH. THE POWDER LABELED AS AN ORGANIC PEROXIDE TESTED POSITIVE FOR A WEAK PEROXIDE. A COMPOSITE OF THE PILES OF POWDER ON THE FLOOR WERE ALSO HAZARD CATEGORIZED. THE POWDER TESTED NEGATIVE FOR WATER REACTIVITY, OXIDIZER, PEROXIDE, SULFIDE, CYANIDE, IGNITABILITY, ORGANICS, AND CHLORINE. THE POWDER WAS FOUND TO CONTAIN SODIUM AND HAD A pH OF 11 AND WILL BE SENT TO A LAB FOR METALS ANALYSIS.

III. FUTURE ACTIONS:

A. OSC TO COORDINATE ALL SITE ACTIVITIES WITH THE WVDEP.

B. OSC TO GENERATE ACTION MEMO FOR REMOVAL ACTION BASED UPON THE KNOWN THREATS AT THIS SITE.

C. OSC TO PURSUE PRP INFORMATION WITH EPA ENFORCEMENT SECTION.

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DENNIS MATLOCK, OSC
U.S. EPA REGION III
WHEELING, WV

POLREP #03
SLOAN GLASS SITE
CHARLIE'S CREEK ROAD
CULLODEN, CABELL COUNTY, WEST VIRGINIA 25510
ATTENTION: CHARLIE KLEEMAN
EVENT: REMOVAL SITE ACTIVATION (11/22/96)

I. SITUATION (WEDNESDAY, 27 NOVEMBER, 1996)
   A. ON 30 OCTOBER 1996, A SECOND REMOVAL ASSESSMENT WAS CONDUCTED BY SATA AT THE SLOAN GLASS SITE IN CULLODEN, CABELL COUNTY, WEST VIRGINIA. CHEMICAL INVENTORYING AND HAZARD CATEGORIZATION ACTIVITIES WERE CONTINUED. A COMPOSITE SAMPLE OF THE LOOSE POWDER PILES ON THE FLOOR OF THE WAREHOUSE WAS COLLECTED AND ANALYZED FOR TAL METALS AND pH. THE ANALYTICAL RESULTS REVEALED THAT ELEVATED LEVELS OF ARSENIC EXISTED IN THE POWDER PILES. BECAUSE OF THE NEWLY DISCOVERED ARSENIC AND THE CONTINUED CONCERN OF SITE ACCESS AND PUBLIC AWARENESS, THE OSC ISSUED A SPECIAL BULLETIN A IN THE AMOUNT OF $200,000 FOR A REMOVAL ACTIVATION AT THE SITE. THE OSC AND SATA MOBED DOWN TO THE SITE AND MET WITH EARTH TECH RESPONSE MANAGER RODNEY SWEENY AND JUNIOR RESPONSE MANAGER DAVID BOFINGER FOR A SITE TOUR ON MONDAY, NOVEMBER 25, 1996.
   B. PERSONNEL ON SCENE: OSC-1, SATA-1, ERCS-2
   C. WEATHER ON SCENE: MOSTLY CLOUDY AND COLD WITH TEMP.'S IN THE LOWER 30'S.

II. ACTIONS TAKEN: (TUESDAY, 26 NOVEMBER, 1996)
   A. ON 26 NOVEMBER 1996, THE OSC AND SATA ARRIVED ON SITE AND MET SWEENY AND BOFINGER. SATA AND THE TWO ERCS PERSONNEL DONNED LEVEL C PPE AND ENTERED THE WAREHOUSE TO CONDUCT A WALK THROUGH ASSESSMENT OF THE LOOSE POWDERS, CONTAINERS, AND BAGS. ALL OF THE CHEMICALS WERE LOCATED IN THE SAME AREAS AS SEEN DURING THE PREVIOUS ASSESSMENT. A POSSIBLE PLATING VAT WAS DISCOVERED CONTAINING APPROXIMATELY 40-50 GALLONS OF A GREENISH LIQUID. WHAT APPEARED TO BE EITHER COTTON OR ASBESTOS WAS FOUND INSIDE THE KNEELING OVENS. ERCS AND SATA PERSONNEL EXITED THE WAREHOUSE AT 1430 HOURS CONCLUDING THE SITE TOUR. THE CHEMICAL STORAGE CAGE INSIDE THE WAREHOUSE AND THE WAREHOUSE DOOR LEADING TO THE OUTSIDE WERE EACH RE-LOCKED.

III. FUTURE ACTIONS:
   A. OSC TO COORDINATE ALL SITE ACTIVITIES WITH THE WVDEP.
   B. OSC TO COORDINATE SITE MOBILIZATION AND INITIATION ACTIVITIES WITH THE ERCS RESPONSE MANAGER.
   C. OSC TO PURSUE PRP INFORMATION WITH EPA ENFORCEMENT SECTION.

DENNIS MATLOCK, OSC
U.S. EPA REGION III
WHEELING, WV

POLREP #04
SLOAN GLASS SITE
CHARLIE'S CREEK ROAD
CULLODEN, CABELL COUNTY, WEST VIRGINIA 25510
ATTENTION: CHARLIE KLEEMAN
EVENT: REMOVAL ACTION

I. SITUATION (MONDAY, 9 DECEMBER, 1996)

A. BECAUSE THE CONDITIONS AT THE SLOAN GLASS INC., SITE MET THE CONDITIONS SET FORTH IN SECTION 300.415 OF THE NATIONAL OIL AND HAZARDOUS SUBSTANCES POLLUTION CONTINGENCY PLAN FOR AN IMMEDIATE REMOVAL, ON 22 NOVEMBER 1996, THE OSC UTILIZED HIS DELEGATED AUTHORITY TO APPROVE EMERGENCY FUNDS (SEE SPECIAL BULLETIN "A") FOR THE INITIATION OF REMOVAL/STABILIZATION ACTIONS. IMMEDIATE ACTION WAS PROMPTED BY THE DISCOVERY OF ELEVATED LEVELS OF ARSENIC IN PILES OF POWDER IN THE BUILDING ALONG WITH INCREASED RESIDENTIAL CONCERNS. ON 26 NOVEMBER, THE OSC AND SATA MOBED TO THE SITE AND MET WITH ERCS PERSONNEL TO DISCUSS SITE LOGISTICS. PER OSC REQUEST SATA AND ERCS DONNED LEVEL C PPE AND CONDUCTED A SITE WALK-THRU TO FAMILIARIZE THE ERCS RESPONSE MANAGER WITH THE TYPES AND QUANTITIES OF CHEMICALS INSIDE THE BUILDING.

B. PERSONNEL ON SCENE: OSC-1, SATA-1, ERCS-2

C. WEATHER ON SCENE: MOSTLY CLOUDY AND COLD WITH TEMP.'S IN THE LOWER 30'S.

D. ESTIMATED COSTS TO DATE (COB MONDAY DEC 9)

	CURRENT	CEILING
EPA (DIRECT)	$ 500.00	$ 5,000.00
EPA (INDIRECT)	$1,500.00	$10,000.00
SATA	$1,800.00	$40,000.00
ERCS	$5,000.00	$145,000.00
OTHER		
UNALLOCATED		
	$8,300.00	$200,000.00

II. ACTIONS TAKEN: (12/05/96 - 12/09/96)

A. ERCS MOBILIZED TO THE SITE ON 04 DECEMBER TO BEGIN REMOVAL ACTIVITIES. THE COMMAND TRAILER WAS DELIVERED TO THE SITE ON THE SAME DAY. SATA MOBILIZED TO THE SITE ON 05 DECEMBER. PER OSC REQUEST, SATA UTILIZED BOTH A MICRO R METER AND BETA/GAMMA METER TO CONDUCT A RADIATION SURVEY INSIDE THE BUILDING AT TWO AREAS WHERE SATA HAD PREVIOUSLY DISCOVERED LOW LEVELS OF RADIATION. IT WAS DETERMINED THAT THE SOURCES OF THE RADIATION WERE NATURALLY OCCURING IN REFRACTORY BRICK AND REFRACTORY MORTAR. THE LEVELS OF RADIATION RANGED FROM 30 TO 100 MICROMETERS PER HOUR.

B. DURING THE WEEK OF DECEMBER 2, ERCS OBTAINED ELECTRICITY AND PHONES FOR THE COMMAND TRAILER AND SET UP THE DECON AREA. ON 09 DECEMBER, ERCS BEGAN CLEARING A DRUM STAGING AREA INSIDE THE BUILDING. SITE

"HAZARDOUS AREA" SIGNS WERE POSTED ON ALL SIDES OF THE BUILDING AND EVACUATION ROUTES WERE SET UP.

III. FUTURE ACTIONS:

A. OSC TO COORDINATE ALL SITE ACTIVITIES WITH THE WVDEP.
B. ERCS TO COMPLETE CLEARING AREA FOR DRUM STAGING.
C. ERCS TO STAGE ALL HAZARDOUS WASTE CONTAINERS/DRUMS.
D. SATA TO SAMPLE/CHARACTERIZE BUILDING POWDERS.
E. ADDITIONAL SURFACE SOIL SAMPLES TO BE TAKEN TO IDENTIFY POSSIBLE OFFSITE CONTAMINANT MIGRATION.

_____
DENNIS MATLOCK, OSC
U.S. EPA REGION III
WHEELING, WV

)LREP #5
SLOAN GLASS SITE
CHARLIE'S CREEK ROAD
CULLODEN, CABELL COUNTY, WEST VIRGINIA 25510
EVENT: REMOVAL ACTION

I. SITUATION: (1800 HOURS, TUESDAY, 10 DECEMBER 1996)

A. ON 04 DECEMBER 1996, ERCS MOBILIZED TO THE SITE TO BEGIN REMOVAL ACTIVITIES. THE COMMAND POST WAS DELIVERED TO THE SITE AND ELECTRICITY AND PHONES WERE HOOKED UP. THE DECON AREA WAS SET UP AND EVACUATION ROUTES INSIDE THE BUILDING WERE ESTABLISHED. ON 09 DECEMBER 1996, THE PROCESS OF MOVING DRUMS AND CONTAINERS TO THE STAGING AREA WAS INITIATED. ON THIS DAY, 22 BAGS (APPROXIMATELY 2,065 POUNDS) OF FIRE CLAY AND REFRACTORY MORTAR, 16 BAGS (APPROXIMATELY 1,600 POUNDS) OF CALCINED ALUMINA, AND 100 BAGS (APPROXIMATELY 5,000 POUNDS) OF ZINC WAS STAGED INSIDE THE BUILDING. TWENTY SIX ADDITIONAL CONTAINERS WERE ALSO STAGED INCLUDING ONE DRUM OF A FROSTING MIXTURE.

B. PERSONNEL: OSC-1, SATA-1, ERCS-4

C. WEATHER: PARTLY CLOUDY AND WARMER WITH TEMPERATURES IN THE 50'S.

D. ESTIMATED COSTS TO DATE: (COB TUESDAY, 10 DECEMBER 1996)

	CURRENT	CEILING
EPA (DIRECT)	$ 259	$ 5,000
EPA (INDIRECT)	$ 512	$ 10,000
SATA	$ 2,383	$ 40,000
ERCS	$ 15,389	$ 145,000
OTHER	$	$
UNALLOCATED	$	$
	$ 18,543	$ 200,000

II. ACTIONS TAKEN:

A. ERCS CONTINUED MOVING BULKED MATERIALS AND CONTAINERS INTO THE STAGING AREA. FORTY ADDITIONAL CONTAINERS WERE MOVED TO THE STAGING AREA OF WHICH 10 WERE LESS THAN 5 GALLONS IN SIZE. ONE BAG OF A CREENISH POWDER WAS SWEPT FROM THE FLOOR AND STAGED. APPROXIMATELY 20 EMPTY DRUMS WERE STAGED IN A SEPARATE AREA.

B. THE OSC UPDATED BOTH TOM BLAKE WITH THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP) AND THE EPA ORC CONCERNING SITE STATUS. THE OSC ALSO CONTACTED THE TRUSTEE FOR THE BANKRUPT SLOAN GLASS SITE. THE OSC WILL RECEIVE ALL INFORMATION REGARDING CURRENT/FUTURE BANKRUPTCY STATUS AND WILL BE INFORMED OF ALL PROPOSED AUCTION PLANS FOR PROPERTY/REAL ESTATE.

III. FUTURE ACTIONS:

A. COMPLETE MOVING ALL CONTAINERS/BULKED MATERIALS TO THE STAGING AREA.

B. BULK PILES OF POWDER FROM THE FLOOR INTO DRUMS OR CUBIC YARD BOXES FOR DISPOSAL.

C. SAMPLE CONTAINERS AND BULKED MATERIALS.
D. TRANSPORTATION AND DISPOSAL OF MATERIALS
E. EXCAVATION AND BACKFILL OF CONTAMINATED SOIL IF NECESSARY.

DENNIS MATLOCK, OSC
U.S. EPA REGION III
WHEELING, WV

POLREP #6
SLOAN GLASS SITE
CHARLIE'S CREEK ROAD
CULLODEN, CABELL COUNTY, WEST VIRGINIA 25510
EVENT: REMOVAL ACTION

I. SITUATION: (1800 HOURS, WEDNESDAY, 11 DECEMBER 1996)

A. ON 04 DECEMBER 1996, ERCS MOBILIZED TO THE SITE TO BEGIN REMOVAL ACTIVITIES. THE COMMAND POST WAS DELIVERED TO THE SITE AND ELECTRICITY AND PHONES WERE HOOKED UP. THE DECON AREA WAS SET UP AND EVACUATION ROUTES INSIDE THE BUILDING WERE ESTABLISHED. ON 09 DECEMBER 1996, THE PROCESS OF MOVING DRUMS AND CONTAINERS TO THE STAGING AREA WAS INITIATED. ON THIS DAY, 22 BAGS (APPROXIMATELY 2,065 POUNDS) OF FIRE CLAY AND REFRACTORY MORTAR, 16 BAGS (APPROXIMATELY 1,600 POUNDS) OF CALCINED ALUMINA, AND 100 BAGS (APPROXIMATELY 5,000 POUNDS) OF ZINC WAS STAGED INSIDE THE BUILDING. TWENTY SIX ADDITIONAL CONTAINERS WERE ALSO STAGED INCLUDING ONE DRUM OF A FROSTING MIXTURE. THE FOLLOWING DAY, FORTY ADDITIONAL CONTAINERS OF WHICH 10 WERE LESS THAN 5 GALLONS IN SIZE WERE MOVED TO THE STAGING AREA.

B. PERSONNEL: SATA-1, ERCS-4

C. WEATHER: PARTLY CLOUDY WITH TEMPERATURES IN THE 50'S.

D. ESTIMATED COSTS TO DATE: (COB TUESDAY, 10 DECEMBER 1996)

	CURRENT	CEILING
EPA (DIRECT)	$ 259	$ 5,000
EPA (INDIRECT)	$ 512	$ 10,000
SATA	$ 2,759	$ 40,000
ERCS	$ 17,109	$ 145,000
OTHER	$	$
UNALLOCATED	$	$
	$ 20,639	$ 200,000

II. ACTIONS TAKEN:

A. ERCS CONTINUED MOVING BULKED MATERIALS AND CONTAINERS INTO THE STAGING AREA. THREE 55 GALLON OVERPACK DRUMS WERE FILLED WITH WHAT LOOKED TO BE FIRE CLAY. FOUR ADDITIONAL FIBER DRUMS, TWO METAL DRUMS, NUMEROUS GLASS JARS, AND A PROPANE CYLINDER WERE COLLECTED AND MOVED TO THE STAGING AREA. AS A SAFETY PRECAUTION, EACH OF THE TWO EVACUATION DOORS WERE MARKED WITH FLUORESCENT SPRAY PAINT.

B. IN ONE SECTION OF THE BUILDING, TWO CONCRETE DIKES CONTAIN WHAT LOOKS TO BE APPROXIMATELY 75 CUBIC YARDS OF SAND. SATA COLLECTED ONE COMPOSITE SAMPLE FROM EACH OF THE DIKES AND SHIPPED THEM OFF TO A LAB FOR TARGET ANALYTE LIST METALS (TAL) AND PH ANALYSIS.

III. FUTURE ACTIONS:

A. COMPLETE MOVING ALL CONTAINERS/BULKED MATERIALS TO THE STAGING AREA.

B. BULK PILES OF POWDER FROM THE FLOOR INTO DRUMS OR CUBIC YARD BOXES FOR DISPOSAL.
C. SAMPLE CONTAINERS AND BULKED MATERIALS.
D. TRANSPORTATION AND DISPOSAL OF MATERIALS
E. EXCAVATION AND BACKFILL OF CONTAMINATED SOIL IF NECESSARY.

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DENNIS MATLOCK, OSC
U.S. EPA REGION III
WHEELING, WV

POLREP #7
LOAN GLASS SITE
CHARLIE'S CREEK ROAD
CULLODEN, CABELL COUNTY, WEST VIRGINIA 25510
EVENT: REMOVAL ACTION

I. SITUATION: (1700 HOURS, THURSDAY, 12 DECEMBER 1996)
A. ERCS HAS CONTINUED TO MOVE CONTAINERS AND BULKED MATERIALS TO THE STAGING AREA INSIDE THE BUILDING. THIS PROCESS IS APPROXIMATELY 90% COMPLETE.
B. PERSONNEL: OSC - 1, SATA - 1, ERCS - 6
C. WEATHER: CLOUDY WITH PERIODS OF RAIN; TEMPERATURES IN THE UPPER 50'S.
D. ESTIMATED COSTS TO DATE: (COB THURSDAY, 12 DECEMBER 1996)

	CURRENT	CEILING
EPA (DIRECT)	$ 519	$ 5,000
EPA (INDIRECT)	$ 1,024	$ 10,000
SATA	$ 3,183	$ 40,000
ERCS (COB 12/11/96)	$ 17,109	$ 145,000
OTHER	$	$
UNALLOCATED	$	$
	$ 21,835	$ 200,000

II. ACTIONS TAKEN:
A. ERCS HAS CONTINUED THE PROCESS OF STAGING CHEMICALS. EIGHT 55 GALLON OVERPACK DRUMS WERE FILLED WITH POWDER COLLECTED FROM THE "POWDER ROOM" (AREA #2). THESE DRUMS WERE MOVED TO THE STAGING AREA (AREA #5) INSIDE THE BUILDING. THREE AND A HALF 55 GALLON DRUMS WERE FILLED WITH BULK PRODUCT COLLECTED FROM ALONG A WALL IN AREA #5 AND STAGED. TWO DRUMS OF HYDROFLUORIC ACID AND SIX ADDITIONAL DRUMS WERE ALSO STAGED.

III. FUTURE ACTIONS:
A. COMPLETE STAGING ALL CONTAINERS/BULKED SOLIDS IN AREA #5.
B. BULK PILES OF POWDER FROM THE FLOOR INTO DRUMS OR CUBIC YARD BOXES FOR DISPOSAL.
C. HAZARD CATEGORIZE CHEMICALS AND ESTABLISH WASTE STREAMS.
D. BULK COMPATIBILITIES AND SAMPLE FOR DISPOSAL.
E. TRANSPORTATION AND DISPOSAL OF MATERIALS.
F. COLLECT SURFACE SOIL SAMPLES FROM SUSPECTED AREAS OF CONTAMINATION.
G. EXCAVATION AND BACKFILL OF CONTAMINATED SOIL IF NECESSARY.

DENNIS MATLOCK, OSC
U.S. EPA REGION III
WHEELING, WV

'LREP #8
ULOAN GLASS SITE
CHARLIE'S CREEK ROAD
CULLODEN, CABELL COUNTY, WEST VIRGINIA 25510
EVENT: REMOVAL ACTION

I. SITUATION: (1700 HOURS, FRIDAY, 13 DECEMBER 1996)
A. ERCS HAS CONTINUED TO MOVE CONTAINERS AND BULKED MATERIALS TO THE STAGING AREA (AREA #5) INSIDE THE BUILDING. THIS PROCESS IS APPROXIMATELY 95% COMPLETE.
B. PERSONNEL: SATA - 1, ERCS - 5
C. WEATHER: CLOUDY WITH TEMPERATURES IN THE MID 40'S.
D. ESTIMATED COSTS TO DATE: (COB FRIDAY, 13 DECEMBER 1996)

	CURRENT	CEILING
EPA (DIRECT)	$ 519	$ 5,000
EPA (INDIRECT)	$ 1,024	$ 10,000
SATA	$ 3,559	$ 40,000
ERCS (COB 12/11/96)	$ 17,109	$ 145,000
OTHER	$	$
UNALLOCATED	$	$
	$ 22,211	$ 200,000

II. ACTIONS TAKEN:
A. ERCS CONTINUED BULKING AND STAGING OPERATIONS INSIDE THE BUILDING. FIVE 55 GALLON OVERPACK DRUMS AND TWO 85 GALLON OVERPACK DRUMS WERE FILLED WITH POWDER PRODUCT COLLECTED FROM THE "POWDER ROOM" (AREA #2). ERCS DISCOVERED TEN ADDITIONAL SMALL CONTAINERS IN THE "CAGED AREA" (AREA #1) AND STAGED THEM IN AREA #5. TWO TYPES OF BULK MATERIAL FROM THE FLOOR WAS PLACED IN DRUM LINERS AND ONE HALF OF A 55 GALLON OVERPACK DRUM WAS FILLED WITH BULK PRODUCT FOUND IN AREA #5.
B. CHARLIE MORRIS, A GENERAL ENVIRONMENTAL INSPECTOR WITH WVDEP ARRIVED AT THE SITE TO RECEIVE AN UPDATE OF SITE ACTIVITIES. PERTINENT INFORMATION WAS PROVIDED TO HIM.

III. FUTURE ACTIVITIES:
A. COMPLETE STAGING ALL CONTAINERS/BULKED SOLIDS IN AREA #5.
B. BULK PILES OF POWDER FROM THE FLOOR INTO DRUMS OR CUBIC YARD BOXES FOR DISPOSAL.
C. HAZARD CATEGORIZE CHEMICALS AND ESTABLISH WASTE STREAMS.
D. BULK COMPATIBILITIES AND SAMPLE FOR DISPOSAL.
E. TRANSPORTATION AND DISPOSAL OF MATERIALS.
F. COLLECT SURFACE SOIL SAMPLES FROM SUSPECTED AREAS OF CONTAMINATION.
G. EXCAVATION AND BACKFILL OF CONTAMINATED SOIL IF NECESSARY.

NNIS MATLOCK, OSC
U.S. EPA REGION III
WHEELING, WV

LREP #9
GLOAN GLASS SITE
CHARLIE'S CREEK ROAD
CULLODEN, CABELL COUNTY, WEST VIRGINIA 25510
EVENT: REMOVAL ACTION

I. SITUATION: (1600 HOURS, SATURDAY, 14 DECEMBER 1996)

A. ERCS HAS CONTINUED TO MOVE CONTAINERS AND BULKED MATERIALS TO THE STAGING AREA (AREA #5) INSIDE THE BUILDING.

B. PERSONNEL: SATA - 1, ERCS - 4

C. WEATHER: CLOUDY WITH TERMPERATURES IN THE MID 40'S.

D. ESTIMATED COSTS TO DATE: (COB SATURDAY, 14 DECEMBER 1996)

	CURRENT	CEILING
EPA (DIRECT)	$ 519	$ 5,000
EPA (INDIRECT)	$ 1,024	$ 10,000
SATA	$ 4,002	$ 40,000
ERCS	$ 23,378	$ 145,000
OTHER	$	$
UNALLOCATED	$	$
	$ 28,923	$ 200,000

II. ACTIONS TAKEN:

A. ON THIS DAY, ERCS COMPLETED THE PROCESS OF MOVING CONTAINERS AND BULK MATERIALS TO THE STAGING AREA. TWENTY-FIVE TRASH CONTAINERS WERE RESTAGED FROM AREA #5 TO AREA #4 AND ONE DRUM OF GLASS WAS STAGED IN AREA #5. SEVERAL SMALL CONTAINERS WERE MOVED TO A PRE-DETERMINED HAZARD CATEGORIZATION LOCATION INSIDE THE BUILDING. TWO AND ONE HALF 85 GALLON OVERPACK DRUMS WERE FILLED WITH POWDER COLLECTED FROM THE FLOOR OF AREA #2. OUTSIDE OF THE BUILDING, 111 EMPTY METAL 55 GALLON DRUMS, SEVEN EMPTY FIBER DRUMS, AND SEVERAL EMPTY SMALL CONTAINERS WERE STAGED AWAITING TO BE CRUSHED. IN ADDITION TO THIS, FIVE DRUMS OF GLASS, ONE DRUM OF TRASH, AND FOUR DRUMS OF RAINWATER WERE STAGED OUTSIDE WITH THE EMPTY CONTAINERS. SATA CONDUCTED PH TESTS ON EACH OF THE FOUR DRUMS OF RAINWATER. EACH OF THE TESTS RECORDED A PH OF APPROXIMATELY SIX.

III. FUTURE ACTIVITIES:

A. CONDUCT CRUSHING OPERATIONS OF THE EMPTY DRUMS.

B. HAZARD CATEGORIZE CHEMICALS AND ESTABLISH WASTE STREAMS.

C. BULK COMPATIBILITIES AND SAMPLE FOR DISPOSAL.

D. TRANSPORTATION AND DISPOSAL OF MATERIALS.

E. COLLECT SURFACE SOIL SAMPLES FROM SUSPECTED AREAS OF CONTAMINATION.

F. EXCAVATION AND BACKFILL OF CONTAMINATED SOIL IF NECESSARY.

NNIS MATLOCK, OSC
U.S. EPA REGION III
WHEELING, WV 26003

)LREP #10
SLOAN GLASS SITE
CHARLIE'S CREEK ROAD
CULLODEN, CABELL COUNTY, WEST VIRGINIA 25510
EVENT: REMOVAL ACTION

I. SITUATION: (1700 HOURS, MONDAY, 16 DECEMBER 1996)
   A. ERCS BEGAN CUTTING AND CRUSHING EMPTY, 55-GALLON METAL DRUMS UTILIZING A PARTNER SAW AND BACKHOE.
   B. PERSONNEL ON SITE: SATA - 2, ERCS - 6
   C. WEATHER: CLOUDY WITH SCATTERED RAIN SHOWERS; TEMPERATURES IN THE LOW 40S.
   D. ESTIMATED COSTS TO DATE: (C.O.B., MONDAY, 16 DECEMBER 1996)

	CURRENT	CEILING
EPA (DIRECT)	$ 519	$ 5,000
EPA (INDIRECT)	$ 1,024	$ 10,000
SATA	$ 4,644	$ 40,000
ERCS	$ 26,232	$ 145,000
OTHER	$	$
UNALLOCATED	$	$
	$ 32,419	$ 200,000

ERCS ARE AT 18.09% OF CEILING. SATA IS AT 11.61% OF CEILING.

II. ACTIONS TAKEN:
   A. ERCS UTILIZED A PARTNER SAW AND BACKHOE TO CUT AND CRUSH 98 EMPTY, 55-GALLON METAL DRUMS AND TWO EMPTY, 25-GALLON METAL DRUMS.
   B. ERCS UNLOADED AND STAGED A DELIVERY OF 12 55-GALLON METAL DRUMS.

III. FUTURE ACTIONS:
   A. CONTINUED CUTTING AND CRUSHING OF EMPTY METAL CONTAINERS.
   B. DISASSEMBLING AND CONTAINMENT OF A SMALL VAT OF LIQUID (PH OF 1) AND CRYSTALLIZED LIQUID LOCATED IN AREA #5 OF THE BUILDING.
   C. HAZARD CATEGORIZATION OF CHEMICALS AND ESTABLISHMENT OF WASTE STREAMS.
   D. BULKING OF COMPATIBILITIES AND SAMPLING FOR DISPOSAL.
   E. TRANSPORTATION AND DISPOSAL OF MATERIALS.
   F. COLLECTION OF SURFACE SOIL SAMPLES FROM SUSPECTED AREAS OF CONTAMINATION.
   G. EXCAVATION AND BACKFILLING OF CONTAMINATED SOIL IF NECESSARY.

DENNIS MATLOCK, OSC
U.S. EPA REGION III
WHEELING, WV 26003

SITREP #11
MORGAN GLASS SITE
CHARLIE'S CREEK ROAD
CULLODEN, CABELL COUNTY, WEST VIRGINIA 25510
EVENT: REMOVAL ACTION

I. SITUATION: (1700 HOURS, TUESDAY, 17 DECEMBER 1996)

A. ERCS CONTINUED CUTTING AND CRUSHING EMPTY CONTAINERS UTILIZING A PARTNER SAW AND BACKHOE.

B. PERSONNEL ON SITE: SATA - 1, ERCS - 6

C. WEATHER: CLOUDY WITH SCATTERED RAIN SHOWERS; TEMPERATURES IN THE MID 50S.

D. ESTIMATED COSTS TO DATE: (C.O.B., TUESDAY, 17 DECEMBER 1996)

	CURRENT	CEILING
EPA (DIRECT)	$ 519	$ 5,000
EPA (INDIRECT)	$ 1,024	$ 10,000
SATA	$ 4,980	$ 40,000
ERCS	$ 31,568	$ 145,000
OTHER	$	$
UNALLOCATED	$	$
	$ 38,091	$ 200,000

ERCS ARE AT 21.77% OF CEILING. SATA IS AT 12.45% OF CEILING.

II. ACTIONS TAKEN:

A. ERCS UTILIZED A PARTNER SAW AND BACKHOE TO CUT AND CRUSH THE FOLLOWING EMPTY CONTAINERS:

62 55-GALLON METAL DRUMS
2 25-GALLON METAL DRUMS
3 10-GALLON METAL DRUMS
4 5-GALLON METAL PAILS
14 5-GALLON PLASTIC PAILS
20 FIBER DRUMS OF VARIOUS SIZES
4 20-GALLON PLASTIC TRASH CANS
4 PLASTIC BINS OF VARIOUS SIZES
9 1-GALLON METAL CANS
ERCS ALSO BAGGED SMALL CONTAINERS IN DRUM LINERS.

B. ERCS UNLOADED AND STAGED A DELIVERY OF A 12-PACK OF ON-LINE BREATHING AIR CYLINDERS. THIS BREATHING AIR SUPPLY IS TO BE UTILIZED DURING THE DISASSEMBLY, CLEANUP, AND CONTAINMENT OF A SMALL VAT LOCATED IN AREA #5 OF THE BUILDING.

III. FUTURE ACTIONS:

A. CONTINUED CUTTING AND CRUSHING OF EMPTY CONTAINERS.

B. DISASSEMBLY, CLEANUP, AND CONTAINMENT OF A SMALL VAT OF LIQUID (PH OF 1) AND CRYSTALLIZED LIQUID LOCATED IN AREA #5 OF THE BUILDING.

C. HAZARD CATEGORIZATION OF CHEMICALS AND ESTABLISHMENT OF WASTE STREAMS.

D. BULKING OF COMPATIBILITIES AND SAMPLING FOR DISPOSAL.

E. TRANSPORTATION AND DISPOSAL OF MATERIALS.

F. COLLECTION OF SURFACE SOIL SAMPLES FROM SUSPECTED AREAS OF CONTAMINATION.

G. EXCAVATION AND BACKFILLING OF CONTAMINATED SOIL IF NECESSARY.

DENNIS MATLOCK, OSC
U.S. EPA REGION III
WHEELING, WV 26003

SITREP #12
SLOAN GLASS SITE
CHARLIE'S CREEK ROAD
CULLODEN, CABELL COUNTY, WEST VIRGINIA 25510
EVENT: REMOVAL ACTION

I. SITUATION: (1730 HOURS, WEDNESDAY, 18 DECEMBER 1996)

A. ERCS FINISHED CUTTING AND CRUSHING EMPTY CONTAINERS UTILIZING A PARTNER SAW AND BACKHOE. ALSO, ERCS DISASSEMBLED AND CLEANED THE SMALL VAT LOCATED IN AREA #5 OF THE BUILDING.

B. PERSONNEL ON SITE: SATA - 1, ERCS - 6

C. WEATHER: CLOUDY WITH SCATTERED FLURRIES; TEMPERATURES IN THE MID 30S.

D. ESTIMATED COSTS TO DATE: (C.O.B., WEDNESDAY, 18 DECEMBER 1996)

	CURRENT	CEILING
EPA (DIRECT)	$ 519	$ 5,000
EPA (INDIRECT)	$ 1,024	$ 10,000
SATA	$ 5,330	$ 40,000
ERCS	$ 37,607	$ 145,000
OTHER	$	$
UNALLOCATED	$	$
	$ 44,480	$ 200,000

ERCS ARE AT 25.94% OF CEILING. SATA IS AT 13.32% OF CEILING.

ACTIONS TAKEN:

A. ERCS UTILIZED A PARTNER SAW AND BACKHOE TO FINISH CUTTING AND CRUSHING THE FOLLOWING EMPTY CONTAINERS:
- 3 20-GALLON TRASH CANS
- 14 5-GALLON POLY CONTAINERS
- 35 1-5-GALLON METAL CONTAINERS
- 1 10-GALLON TRASH CAN
- 2 POLY TUBS
- 3 1-GALLON METAL CANS
- ERCS ALSO STACKED 134 DRUM TOPS/LIDS.

B. ERCS DISASSEMBLED AND CLEANED THE SMALL VAT LOCATED IN AREA #5 OF THE BUILDING. THE LIQUID AND SOLID CONTENTS OF THE VAT (APPROXIMATELY 140 GALLONS OF MATERIAL) WERE CONTAINED IN THREE 55-GALLON POLY DRUMS. THE CONTENTS, WHICH ARE NOW MIXED IN THE THREE DRUMS, CONSISTED OF APPROXIMATELY 70% SOLID (CRYSTAL) AND 30% LIQUID.

C. ERCS CLEANED THE BACKHOE IN PREPARATION FOR ITS DEMOBILIZATION ON 12/19/96.

D. ERCS CLEANED-UP THE BULK PRODUCT LOCATED ON THE FLOOR OF THE SOUTHERN END OF THE HUT. THE BULK PRODUCT/WASTE WAS PLACED IN ONE 55-GALLON METAL DRUM.

III. FUTURE ACTIONS:

A. FINISHING CLEANUP OF THE BULK PRODUCT ON THE FLOOR OF THE HUT.

B. HEPA VACUUMING THE FLOOR OF AREA #2.

C. DECONTAMINATION AND DEMOBILIZATION OF RENTAL EQUIPMENT AND SECURING OF THE SITE IN PREPARATION FOR THE HOLIDAY BREAK (12/21/96 THROUGH 1/5/97).

D. HAZARD CATEGORIZATION OF CHEMICALS AND ESTABLISHMENT OF WASTE STREAMS.
E. BULKING OF COMPATIBILITIES AND SAMPLING FOR DISPOSAL.
F. TRANSPORTATION AND DISPOSAL OF MATERIALS.
G. COLLECTION OF SURFACE SOIL SAMPLES FROM SUSPECTED AREAS OF CONTAMINATION.
H. EXCAVATION AND BACKFILLING OF CONTAMINATED SOIL IF NECESSARY.

DENNIS MATLOCK, OSC
U.S. EPA REGION III
WHEELING, WV 26003

`LREP #13
_OAN GLASS SITE__
CHARLIE'S CREEK ROAD
CULLODEN, CABELL COUNTY, WEST VIRGINIA 25510
EVENT: REMOVAL ACTION

I. SITUATION: (1730 HOURS, THURSDAY, 19 DECEMBER 1996)
   A. ERCS HEPA VACUUMED THE FLOORS OF THE HUT, AREA #2, AND AREA #1, AND ERCS FINISHED CLEANING UP THE AREA AROUND THE VAT IN AREA #5.
   B. PERSONNEL ON SITE: SATA - 1, ERCS - 6
   C. WEATHER: CLOUDY WITH SNOW SHOWERS; TEMPERATURES IN THE LOW 20S.
   D. ESTIMATED COSTS TO DATE: (C.O.B., THURSDAY, 19 DECEMBER 1996)

	CURRENT	CEILING
EPA (DIRECT)	$ 519	$ 5,000
EPA (INDIRECT)	$ 1,024	$ 10,000
SATA	$ 5,685	$ 40,000
ERCS (AS OF 12/18/96)	$ 37,607	$ 145,000
OTHER	$	$
UNALLOCATED	$	$
	$ 44,835	$ 200,000

ERCS ARE AT 25.94% OF CEILING. SATA IS AT 14.21% OF CEILING.

II. ACTIONS TAKEN:
   A. ERCS FINISHED CLEANING UP THE AREA AROUND THE SMALL VAT IN AREA #5.
   B. ERCS HEPA VACUUMED THE FLOOR OF THE HUT. THE WASTE FROM THE FLOOR FILLED ¼ OF A 55-GALLON METAL DRUM.
   C. ERCS HEPA VACUUMED THE FLOOR OF AREA #2. THE WASTE FROM THE FLOOR FILLED * OF A 55-GALLON METAL DRUM.
   D. ERCS SWEPT AND HEPA VACUUMED THE FLOOR OF AREA #1. THE WASTE FROM THE FLOOR FILLED ¼ OF A 55-GALLON METAL DRUM.
   E. ERCS PERFORMED GENERAL SITE MAINTENANCE, DEMOBILIZED RENTAL EQUIPMENT, AND SECURED THE SITE IN PREPARATION FOR THE HOLIDAY BREAK (12/21/96 THROUGH 1/5/97).

III. FUTURE ACTIONS:
   A. ONE ERCS CREW MEMBER IS TO CHECK ON THE SITE TWICE A WEEK DURING THE HOLIDAY BREAK.
   B. REMOBILIZATION OF PERSONNEL AND EQUIPMENT FOLLOWING THE HOLIDAY BREAK IS TO OCCUR ON MONDAY, JANUARY 6, 1996.
   C. HAZARD CATEGORIZATION OF CHEMICALS AND ESTABLISHMENT OF WASTE STREAMS.
   D. BULKING OF COMPATIBILITIES AND SAMPLING FOR DISPOSAL.
   E. TRANSPORTATION AND DISPOSAL OF MATERIALS.
   F. COLLECTION OF SURFACE SOIL SAMPLES FROM SUSPECTED AREAS OF CONTAMINATION.
   G. EXCAVATION AND BACKFILLING OF CONTAMINATED SOIL IF NECESSARY.

`NNIS MATLOCK, OSC
U.S. EPA REGION III
WHEELING, WV 26003

POLREP #14
SLOAN GLASS SITE
CHARLIE'S CREEK ROAD
CULLODEN, CABELL COUNTY, WEST VIRGINIA 25510
EVENT: REMOVAL ACTION

I. SITUATION: (1700 HOURS, TUESDAY 07 JANUARY 1997)
   A. ERCS BEGAN SETTING UP FOR SAMPLING ACTIVITIES INSIDE THE BUILDING.
   B. PERSONNEL ON SITE: OSC - 1, SATA - 1, ERCS - 6
   C. WEATHER: SUNNY TO PARTLY COUDY AND COLD WITH TEMPERATURES IN THE UPPER 20'S TO LOWER 30'S.
   D. ESTIMATED COSTS TO DATE: (C.O.B., TUESDAY, 07 JANUARY 1997)

	CURRENT	CEILING
EPA (DIRECT)	$ 740	$ 5,000
EPA (INDIRECT)	$ 1,376	$ 10,000
SATA	$ 7,265	$ 40,000
ERCS (AS OF 12/20/96)	$ 39,362	$ 145,000
OTHER	$	$
UNALLOCATED	$	$
	$ 48,743	$ 200,000

ERCS ARE AT 27.15% OF CEILING. SATA IS AT 18.16% OF CEILING.

II. ACTIONS TAKEN:
   A. SATA AND ERCS REMOBILIZED TO THE SITE ON 06 JANUARY 1997 TO CONTINUE REMOVAL OPERATIONS.
   B. ON 07 JANUARY 1997, ERCS BEGAN SETTING UP FOR WASTE SAMPLING AND HAZARD CATEGORIZATION ACTIVITIES ONSITE. ERCS PERSONNEL PICKED UP A RENTAL GENERATOR AND REFILLED A WATER DRUM FOR THE EMERGENCY SHOWER. BECAUSE OF VERY COLD TEMPERATURES, IT WAS DECIDED TO CONSTRUCT A POLY ENCLOSURE AND UTILIZE A SPACE HEATER FOR THE HAZARD CATEGORIZATION AREA. THE CHEMIST REVIEWED THE MSDS' ONSITE AND CHECKED OUT THE HAZ CAT KIT. AN ADDITIONAL FIVE DRUMS OF GLASS CULLET WERE RECOVERED AND STAGED WITH OTHER DRUMS OF GLASS.

III. FUTURE ACTIONS:
   A. COMPLETE CONSTRUCTION OF THE POLY ENCLOSURE AND ADDITIONAL ACTIVITIES FOR SAMPLING AND HAZARD CATEGORIZATION OPERATIONS.
   B. HAZARD CATEGORIZATION OF CHEMICALS AND ESTABLISHMENT OF WASTE STREAMS.
   C. BULKING OF COMPATIBLES AND SAMPLING FOR DISPOSAL.
   D. TRANSPORTATION AND DISPOSAL OF MATERIALS.
   E. COLLECTION OF SURFACE SOIL SAMPLES FROM SUSPECTED AREAS OF CONTAMINATION.
   F. EXCAVATION AND BACKFILLING OF CONTAMINATED SOIL IF NECESSARY.

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WHEELING, WV 26003

MARJORIE EASTON, OSC
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POLREP #15
SLOAN GLASS SITE
CHARLIE'S CREEK ROAD
CULLODEN, CABELL COUNTY, WEST VIRGINIA 25510
EVENT: REMOVAL ACTION

I. SITUATION: (1730 HOURS, WEDNESDAY 08 JANUARY 1997)
A. ERCS CONTINUED TO SET UP FOR SAMPLING ACTIVITIES INSIDE THE BUILDING.
B. PERSONNEL ON SITE: OSC - 1, SATA - 1, ERCS - 7
C. WEATHER: SUNNY TO PARTLY COUDY AND COLD WITH TEMPERATURES IN THE UPPER 20'S TO LOWER 30'S.
D. ESTIMATED COSTS TO DATE: (C.O.B., WEDNESDAY, 08 JANUARY 1997)

	CURRENT	CEILING
EPA (DIRECT)	$ 1,103	$ 5,000
EPA (INDIRECT)	$ 2,016	$ 10,000
SATA	$ 7,647	$ 40,000
ERCS	$ 49,244	$ 145,000
OTHER	$	$
UNALLOCATED	$	$
	$ 60,010	$ 200,000

ERCS ARE AT 34% OF CEILING. SATA IS AT 19.12% OF CEILING.

II. ACTIONS TAKEN:
A. ERCS CONTINUED SETTING UP FOR SAMPLING ACTIVITIES INSIDE THE BUILDING. SOME OF THESE ACTIVITIES INCLUDED UNLOADING SUPPLIES, CLEANING UP AROUND THE CONTAMINATION REDUCTION ZONE, COVERING AIR LINES WITH HOSE COVERS, AND SETTING UP THREE AIR LINES FOR SAMPLING. A TOTAL OF 161 CHEMICAL CONTAINERS WERE CHRONOLOGICALLY NUMBERED AND NUMBERED JARS WERE PLACED BY EACH OF THE CONTAINERS. IN ADDITION TO THIS, ERCS SET UP A SPILL STATION IN AREA #5. THREE DRUMS OF GLASS CULLET WERE MOVED FROM INSIDE THE BUILDING AND STAGED WITH OTHER DRUMS OF GLASS LOCATED OUTSIDE THE BUILDING.

III. FUTURE ACTIONS:
A. BEGIN SAMPLING AND HAZARD CATEGORIZATION ACTIVITIES.
B. ESTABLISHMENT OF WASTE STREAMS.
C. BULKING OF COMPATIBLES AND SAMPLING FOR DISPOSAL.
D. TRANSPORTATION AND DISPOSAL OF MATERIALS.
E. COLLECTION OF SURFACE SOIL SAMPLES FROM SUSPECTED AREAS OF CONTAMINATION.
F. EXCAVATION AND BACKFILLING OF CONTAMINATED SOIL IF NECESSARY.

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)LREP #16
LOAN GLASS SITE
CHARLIE'S CREEK ROAD
CULLODEN, CABELL COUNTY, WEST VIRGINIA 25510
EVENT: REMOVAL ACTION

I. SITUATION: (1730 HOURS, THURSDAY, 09 JANUARY 1997)
A. ERCS BEGAN WASTE SAMPLING AND HAZARD CATEGORIZATION ACTIVITIES INSIDE THE BUILDING.
B. PERSONNEL ON SITE: OSC - 1, SATA - 2, ERCS - 7
C. WEATHER: CLOUDY WITH LIGHT RAIN SHOWERS AND FREEZING RAIN; TEMPERATURES IN THE LOW TO MID 30S.
D. ESTIMATED COSTS TO DATE: (C.O.B., THURSDAY, 09 JANUARY 1997)

	CURRENT	CEILING
EPA (DIRECT)	$ 1,467	$ 5,000
EPA (INDIRECT)	$ 2,656	$ 10,000
SATA	$ 8,300	$ 40,000
ERCS	$ 52,447	$ 145,000
OTHER	$	$
UNALLOCATED	$	$
	$ 64,870	$ 200,000

ERCS ARE AT 36.17% OF CEILING. SATA IS AT 20.75% OF CEILING.

II. ACTIONS TAKEN:
A. ERCS LOGGED AND SAMPLED THE CONTENTS OF 72 DRUMS. ALSO, ERCS PERFORMED HAZARD CATEGORIZATION ACTIVITIES ON EIGHT DRUM SAMPLES.
B. ERCS REMOVED ASBESTOS-CONTAINING MATERIAL (ACM) FROM A DRUM AND DOUBLE-BAGGED IT FOR DISPOSAL. THE EMPTY DRUM WAS RINSED, DELABELLED, AND STAGED OUTSIDE OF THE BUILDING.
C. SATA COLLECTED ONE WASTE SAMPLE FROM THE FLOOR AREA UNDER THE CONVEYOR BELT.
D. AS DIRECTED BY THE OSC, THE AMMONIUM HYDROGEN FLUORIDE, FROSTING MIX, AND HYDROFLUORIC ACID MATERIALS ARE TO BE ESTABLISHED AS SEPARATE WASTE STREAMS WITH DISPOSAL SAMPLES OBTAINED FROM EACH STREAM RESPECTIVELY.

III. FUTURE ACTIONS:
A. CONTINUATION OF WASTE SAMPLING AND HAZARD CATEGORIZATION ACTIVITIES.
B. ESTABLISHMENT OF WASTE STREAMS.
C. BULKING OF COMPATIBLES AND SAMPLING FOR DISPOSAL.
D. TRANSPORTATION AND DISPOSAL OF MATERIALS.
E. COLLECTION OF SURFACE SOIL SAMPLES FROM SUSPECTED AREAS OF CONTAMINATION.
F. EXCAVATION AND BACKFILLING OF CONTAMINATED SOIL IF NECESSARY.

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LREP #17
LOAN GLASS SITE
CHARLIE'S CREEK ROAD
CULLODEN, CABELL COUNTY, WEST VIRGINIA 25510
EVENT: REMOVAL ACTION

I. SITUATION: (1730 HOURS, FRIDAY, 10 JANUARY 1997)
A. ERCS CONTINUED HAZARD CATEGORIZATION ACTIVITIES AND WASTE SAMPLING INSIDE THE BUILDING.
B. PERSONNEL ON SITE: OSC - 1, SATA - 2, ERCS - 7
C. WEATHER: CLOUDY WITH LIGHT SNOW SHOWERS; TEMPERATURES IN THE UPPER 20S.
D. ESTIMATED COSTS TO DATE: (C.O.B., FRIDAY, 10 JANUARY 1997)

	CURRENT	CEILING
EPA (DIRECT)	$ 1,830	$ 5,000
EPA (INDIRECT)	$ 3,296	$ 10,000
SATA	$ 9,064	$ 40,000
ERCS	$ 56,133	$ 145,000
OTHER	$	$
UNALLOCATED	$	$
	$ 70,323	$ 200,000

ERCS ARE AT 38.71% OF CEILING. SATA IS AT 22.66% OF CEILING.

II. ACTIONS TAKEN:
A. ERCS LOGGED AND SAMPLED THE CONTENTS OF 82 DRUMS. ALSO, ERCS PERFORMED HAZARD CATEGORIZATION ACTIVITIES ON 21 DRUM SAMPLES.

III. FUTURE ACTIONS:
A. THE AMMONIUM HYDROGEN FLUORIDE, FROSTING MIX, HYDROFLUORIC ACID, AND THE ACID RESIDUE FROM THE VAT ARE TO BE SAMPLED FOR DISPOSAL AS SEPARATE WASTE STREAMS BY THE ERCS RM TOMORROW.
B. CONTINUATION OF WASTE SAMPLING AND HAZARD CATEGORIZATION ACTIVITIES.
C. ESTABLISHMENT OF WASTE STREAMS.
D. BULKING OF COMPATIBLES AND SAMPLING FOR DISPOSAL.
E. TRANSPORTATION AND DISPOSAL OF MATERIALS.
F. COLLECTION OF SURFACE SOIL SAMPLES FROM SUSPECTED AREAS OF CONTAMINATION.
G. EXCAVATION AND BACKFILLING OF CONTAMINATED SOIL IF NECESSARY.

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SITREP #18
SLOAN GLASS SITE
CHARLIE'S CREEK ROAD
CULLODEN, CABELL COUNTY, WEST VIRGINIA 25510
EVENT: REMOVAL ACTION

I. SITUATION: (1600 HOURS, SATURDAY, 11 JANUARY 1997)
   A. ERCS CONTINUED HAZARD CATEGORIZATION ACTIVITIES AND WASTE SAMPLING INSIDE THE BUILDING.
   B. PERSONNEL ON SITE: OSC - 1, SATA - 2, ERCS - 4
   C. WEATHER: CLOUDY WITH SCATTERED SNOW FLURRIES; TEMPERATURES IN THE MID TEENS.
   D. ESTIMATED COSTS TO DATE: (C.O.B., SATURDAY, 11 JANUARY 1997)

	CURRENT	CEILING
EPA (DIRECT)	$ 2,085	$ 5,000
EPA (INDIRECT)	$ 3,808	$ 10,000
SATA	$ 9,669	$ 40,000
ERCS	$ 57,698	$ 145,000
OTHER	$	$
UNALLOCATED	$	$
	$ 73,260	$ 200,000

ERCS ARE AT 39.79% OF CEILING. SATA IS AT 24.17% OF CEILING.

II. ACTIONS TAKEN:
   A. ERCS LOGGED AND DISPOSAL SAMPLED THE CONTENTS OF EIGHT DRUMS WHICH CONTAINED THE FOLLOWING CONTENTS: AMMONIUM HYDROGEN FLUORIDE (DRUM #160), FROSTING MIX (DRUM #25), HYDROFLUORIC ACID (DRUMS #158 AND #159), AND THE SOLID AND LIQUID RESIDUE FROM THE ACID VAT (DRUMS #155-157 AND #161). THIS BRINGS THE TOTAL NUMBER OF DRUMS SAMPLED TO 161 DRUMS.
   B. ERCS PERFORMED HAZARD CATEGORIZATION ACTIVITIES ON 26 DRUM SAMPLES. THIS BRINGS THE TOTAL NUMBER OF DRUM SAMPLES WHICH HAVE BEEN HAZARD CATEGORIZED TO 55 SAMPLES.

III. FUTURE ACTIONS:
   A. HAND-SORTING AND DISPOSAL OF NON-HAZARDOUS SOLID WASTE AND DEBRIS.
   B. CONTINUATION OF HAZARD CATEGORIZATION ACTIVITIES.
   C. ESTABLISHMENT OF WASTE STREAMS.
   D. BULKING OF COMPATIBLES AND SAMPLING FOR DISPOSAL.
   E. TRANSPORTATION AND DISPOSAL OF MATERIALS.
   F. COLLECTION OF SURFACE SOIL SAMPLES FROM SUSPECTED AREAS OF CONTAMINATION.
   G. EXCAVATION AND BACKFILLING OF CONTAMINATED SOIL IF NECESSARY.

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SITREP #19
CULLODEN GLASS SITE
CHARLIE'S CREEK ROAD
CULLODEN, CABELL COUNTY, WEST VIRGINIA 25510
EVENT: REMOVAL ACTION

I. SITUATION: (1730 HOURS, MONDAY, 13 JANUARY 1997)
   A. ERCS CONTINUED HAZARD CATEGORIZATION ACTIVITIES AND SEPARATED AND DISPOSED NON-HAZARDOUS SOLID WASTE AND DEBRIS CONTAINED IN DRUMS INSIDE THE BUILDING.
   B. PERSONNEL ON SITE: SATA - 2, ERCS - 8
   C. WEATHER: PARTLY CLOUDY WITH TEMPERATURES IN THE LOW 20S.
   D. ESTIMATED COSTS TO DATE: (C.O.B., MONDAY, 13 JANUARY 1997)

	CURRENT	CEILING
EPA (DIRECT)	$ 2,085	$ 5,000
EPA (INDIRECT)	$ 3,808	$ 10,000
SATA	$ 10,559	$ 40,000
ERCS	$ 60,222	$ 145,000
OTHER	$	$
UNALLOCATED	$	$
	$ 76,674	$ 200,000

ERCS ARE AT 41.53% OF CEILING. SATA IS AT 26.4% OF CEILING.

II. ACTIONS TAKEN:
   A. ERCS HAND-SORTED DRUMS OF SOLID WASTE AND DEBRIS AND SEPARATED THE NON-HAZARDOUS WASTE/DEBRIS FOR DISPOSAL. GLASS PIECES FROM THESE DRUMS WERE PLACED WITH THE GLASS STAGED IN DRUMS IN THE HUT AREA. ERCS ISOLATED ONE DRUM WHICH CONTAINED ASBESTOS-CONTAINING MATERIAL (ACM).
   B. ERCS PERFORMED HAZARD CATEGORIZATION ACTIVITIES ON 25 DRUM SAMPLES. THIS BRINGS THE TOTAL NUMBER OF DRUM SAMPLES WHICH HAVE BEEN HAZARD CATEGORIZED TO 80 SAMPLES.

III. FUTURE ACTIONS:
   A. CLEANUP OF WASTE LOCATED UNDER THE CONVEYOR IN AREA #5.
   B. CONTINUATION OF HAZARD CATEGORIZATION ACTIVITIES.
   C. ESTABLISHMENT OF WASTE STREAMS.
   D. BULKING OF COMPATIBLES AND SAMPLING FOR DISPOSAL.
   E. TRANSPORTATION AND DISPOSAL OF MATERIALS.
   F. COLLECTION OF SURFACE SOIL SAMPLES FROM SUSPECTED AREAS OF CONTAMINATION.
   G. EXCAVATION AND BACKFILLING OF CONTAMINATED SOIL IF NECESSARY.

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LREP #20
JAN GLASS SITE
CHARLIE'S CREEK ROAD
CULLODEN, CABELL COUNTY, WEST VIRGINIA 25510
EVENT: REMOVAL ACTION

I. SITUATION: (1730 HOURS, TUESDAY, 14 JANUARY 1997)
   A. ERCS CONTINUED HAZARD CATEGORIZATION ACTIVITIES, CONTINUED WASTE SAMPLING, CONTINUED SEGREGATING NON-HAZARDOUS AND HAZARDOUS WASTE/DEBRIS, AND BEGAN CLEANUP OF THE PRODUCT WASTE LOCATED UNDER THE CONVEYOR IN AREA #5 OF THE BUILDING.
   B. PERSONNEL ON SITE: SATA - 2, ERCS - 8
   C. WEATHER: SUNNY WITH TEMPERATURES IN THE LOW 40S.
   D. ESTIMATED COSTS TO DATE: (C.O.B., TUESDAY, 14 JANUARY 1997)

	CURRENT	CEILING
EPA (DIRECT)	$ 2,085	$ 5,000
EPA (INDIRECT)	$ 3,808	$ 10,000
SATA	$ 11,323	$ 40,000
ERCS	$ 62,962	$ 145,000
OTHER	$	$
UNALLOCATED	$	$
	$ 80,178	$ 200,000

ERCS ARE AT 43.42% OF CEILING. SATA IS AT 28.31% OF CEILING.

II. ACTIONS TAKEN:
   A. ERCS BEGAN TO CLEANUP THE SOLID PRODUCT WASTE LOCATED IN A DEPRESSION UNDER THE CONVEYOR IN AREA #5 OF THE BUILDING.
   B. ERCS FINISHED SEGREGATING THE DRUMS OF SOLID WASTE AND DEBRIS AND ISOLATED THE NON-HAZARDOUS WASTE/DEBRIS FROM THE HAZARDOUS WASTE.
   C. ERCS BEGAN INSPECTING AND SORTING SMALL CONTAINERS (MOSTLY HOUSEHOLD PRODUCTS) FOUND IN THE BUILDING. A 1-GALLON PLASTIC PAIL CONTAINING REFRACTORY CEMENT WAS MONITORED BY SATA FOR RADIATION LEVELS. THE RADIATION LEVELS WERE NOT ABOVE BACKGROUND LEVELS.
   D. ERCS COLLECTED TWO DRUM SAMPLES (#162 AND #163) FOR HAZARD CATEGORIZATION. THE SAMPLES WERE OBTAINED FROM SUSPECTED HAZARDOUS MATERIALS SEPARATED FROM THE DRUMS CONTAINING SOLID WASTE AND DEBRIS.
   E. ERCS PERFORMED HAZARD CATEGORIZATION ACTIVITIES ON 51 DRUM SAMPLES. THIS BRINGS THE TOTAL NUMBER OF DRUM SAMPLES WHICH HAVE BEEN HAZARD CATEGORIZED TO 131 SAMPLES.

III. FUTURE ACTIONS:
   A. CONTINUATION OF CLEANUP OF PRODUCT WASTE LOCATED UNDER THE CONVEYOR IN AREA #5.
   B. CONTAINMENT OF ASBESTOS-CONTAINING MATERIAL (ACM) IN ASBESTOS BAGS FOR DISPOSAL.
   C. CONTINUATION OF HAZARD CATEGORIZATION ACTIVITIES.
   D. ESTABLISHMENT OF WASTE STREAMS.
   E. BULKING OF COMPATIBLES AND SAMPLING FOR DISPOSAL.

F. TRANSPORTATION AND DISPOSAL OF MATERIALS.
G. COLLECTION OF SURFACE SOIL SAMPLES FROM SUSPECTED AREAS OF CONTAMINATION IF NECESSARY.
H. EXCAVATION AND BACKFILLING OF CONTAMINATED SOIL IF NECESSARY.

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OLREP #21
LOAN GLASS SITE
CHARLIE'S CREEK ROAD
CULLODEN, CABELL COUNTY, WEST VIRGINIA 25510
EVENT: REMOVAL ACTION

I. SITUATION: (1730 HOURS, WEDNESDAY, 15 JANUARY 1997)
   A. ERCS CONTINUED CLEANUP OF THE PRODUCT WASTE LOCATED UNDER THE CONVEYOR IN AREA #5 AND TENTATIVELY COMPLETED HAZARD CATEGORIZATION ACTIVITIES.
   B. PERSONNEL ON SITE: SATA - 2, ERCS - 8
   C. WEATHER: PARTLY CLOUDY WITH TEMPERATURES IN THE LOW 40S.
   D. ESTIMATED COSTS TO DATE: (C.O.B., WEDNESDAY, 15 JANUARY 1997)

	CURRENT	CEILING
EPA (DIRECT)	$ 2,085	$ 5,000
EPA (INDIRECT)	$ 3,808	$ 10,000
SATA	$ 12,087	$ 40,000
ERCS	$ 65,894	$ 145,000
OTHER	$	$
UNALLOCATED	$	$
	$ 80,178	$ 200,000

ERCS ARE AT 45.44% OF CEILING. SATA IS AT 30.22% OF CEILING.

II. ACTIONS TAKEN:
   A. ERCS CONTINUED THE PROCESS OF CLEANING UP THE SOLID PRODUCT WASTE LOCATED IN A DEPRESSION UNDER THE CONVEYOR IN AREA #5 OF THE BUILDING.
   B. ERCS TENTATIVELY COMPLETED HAZARD CATEGORIZATION ACTIVITIES. AS OF THIS DAY, A TOTAL OF 156 SAMPLES HAVE BEEN HAZARD CATEGORIZED. ERCS ALSO BEGAN THE PROCESS OF ESTABLISHING THE WASTE STREAMS.
   C. ERCS RE-BAGGED SUSPECTED ASBESTOS CONTAINING MATERIAL (ACM) INTO TEN ASBESTOS BAGS TOTALING 125 POUNDS.

III. FUTURE ACTIONS:
   A. CONTINUATION OF CLEANUP OF PRODUCT WASTE LOCATED UNDER THE CONVEYOR IN AREA #5.
   B. ESTABLISHMENT OF WASTE STREAMS.
   C. BULKING OF COMPATIBLES AND SAMPLING FOR DISPOSAL.
   D. TRANSPORTATION AND DISPOSAL OF MATERIALS.
   E. COLLECTION OF SURFACE SOIL SAMPLES FROM SUSPECTED AREAS OF CONTAMINATION IF NECESSARY.
   F. EXCAVATION AND BACKFILLING OF CONTAMINATED SOIL IF NECESSARY.

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SITREP #22
SLOAN GLASS SITE
CHARLIE'S CREEK ROAD
CULLODEN, CABELL COUNTY, WEST VIRGINIA 25510
EVENT: REMOVAL ACTION

I. SITUATION: (1730 HOURS, THURSDAY, 16 JANUARY 1997)
   A. ERCS COMPLETED CLEANUP OF THE PRODUCT WASTE LOCATED UNDER THE CONVEYOR IN AREA #5 AND BEGAN ESTABLISHING WASTE STREAMS.
   B. PERSONNEL ON SITE: SATA - 2, ERCS - 7
   C. WEATHER: PARTLY CLOUDY WITH TEMPERATURES IN THE LOW 30'S.
   D. ESTIMATED COSTS TO DATE: (C.O.B., THURSDAY, 16 JANUARY 1997)

	CURRENT	CEILING
EPA (DIRECT)	$ 2,085	$ 5,000
EPA (INDIRECT)	$ 3,808	$ 10,000
SATA	$ 12,851	$ 40,000
ERCS	$ 70,692	$ 145,000
OTHER	$	$
UNALLOCATED	$	$
	$ 89,436	$ 200,000

ERCS ARE AT 48.75% OF CEILING. SATA IS AT 32.13% OF CEILING.

II. ACTIONS TAKEN:
   A. ERCS COMPLETED THE PROCESS OF CLEANING UP THE CHEMICAL WASTE UNDER THE CONVEYOR IN AREA #5.
   B. THE ERCS CHEMIST BEGAN THE PROCESS OF ESTABLISHING WASTE STREAMS.

III. FUTURE ACTIONS:
   A. CONTINUATION OF ESTABLISHMENT OF WASTE STREAMS.
   B. BEGIN TEST BULKING.
   C. BULKING OF COMPATIBLES AND SAMPLING FOR DISPOSAL.
   D. TRANSPORTATION AND DISPOSAL OF MATERIALS.
   E. COLLECTION OF SURFACE SOIL SAMPLES FROM SUSPECTED AREAS OF CONTAMINATION IF NECESSARY.
   F. EXCAVATION AND BACKFILLING OF CONTAMINATED SOIL IF NECESSARY.

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SITREP #23
SLOAN GLASS SITE
CHARLIE'S CREEK ROAD
CULLODEN, CABELL COUNTY, WEST VIRGINIA 25510
EVENT: REMOVAL ACTION

I. SITUATION: (1730 HOURS, FRIDAY, 17 JANUARY 1997)
   A. ERCS COMPLETED ESTABLISHING WASTE STREAMS AND BEGAN THE PROCESS OF TEST BULKING.
   B. PERSONNEL ON SITE: SATA - 1, ERCS - 7
   C. WEATHER: PARTLY CLOUDY WITH TEMPERATURES IN THE LOW TEENS.
   D. ESTIMATED COSTS TO DATE: (C.O.B., FRIDAY, 17 JANUARY 1997)

	CURRENT	CEILING
EPA (DIRECT)	$ 2,085	$ 5,000
EPA (INDIRECT)	$ 3,808	$ 10,000
SATA	$ 13,723	$ 40,000
ERCS	$ 74,498	$ 145,000
OTHER	$	$
UNALLOCATED	$	$
	$ 94,114	$ 200,000

ERCS ARE AT 51.38% OF CEILING. SATA IS AT 34.31% OF CEILING.

II. ACTIONS TAKEN:
   A. ERCS COMPLETED THE PROCESS OF ESTABLISHING WASTE STREAMS. A TOTAL OF 17 TENTATIVE DIFFERENT WASTE STREAMS WERE ESTABLISHED AND TEST BULKS WERE SUCCESSFULLY COMPLETED FOR GROUP #7 (ORGANIC SOLIDS - ACIDS AND BASES) AND THREE OF FIVE SUBGROUPS IN GROUP #8 (OXIDIZERS - ACIDS AND BASES).
   B. ERCS COMPLETED THE SMALL CONTAINER CRUSH ONSITE.

III. FUTURE ACTIONS:
   A. CONTINUATION OF TEST BULKING.
   B. BULKING OF COMPATIBLES AND SAMPLING FOR DISPOSAL.
   C. TRANSPORTATION AND DISPOSAL OF MATERIALS.
   D. COLLECTION OF SURFACE SOIL SAMPLES FROM SUSPECTED AREAS OF CONTAMINATION IF NECESSARY.
   E. EXCAVATION AND BACKFILLING OF CONTAMINATED SOIL IF NECESSARY.

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LREP #24
LOAN GLASS SITE
CHARLIE'S CREEK ROAD
CULLODEN, CABELL COUNTY, WEST VIRGINIA 25510
EVENT: REMOVAL ACTION

I. SITUATION: (1700 HOURS, SATURDAY, 18 JANUARY 1997)
   A. ERCS COMPLETED TEST BULKING AND BEGAN BULKING WASTE STREAMS.
   B. PERSONNEL ON SITE: SATA - 1, ERCS - 7
   C. WEATHER: PARTLY CLOUDY WITH TEMPERATURES IN THE LOW TEENS.
   D. ESTIMATED COSTS TO DATE: (C.O.B., SATURDAY, 18 JANUARY 1997)

	CURRENT	CEILING
EPA (DIRECT)	$ 2,085	$ 5,000
EPA (INDIRECT)	$ 3,808	$ 10,000
SATA	$ 14,057	$ 40,000
ERCS	$ 76,868	$ 145,000
OTHER	$	$
UNALLOCATED	$	$
	$ 96,818	$ 200,000

ERCS ARE AT 53.01% OF CEILING. SATA IS AT 35.14% OF CEILING.

II. ACTIONS TAKEN:
   A. ERCS COMPLETED TEST BULKING THE SAMPLES AND ONE ADDITIONAL WASTE STREAM (COMBUSTIBLE INORGANICS) WAS ADDED TO THE LIST TO BRING THE TOTAL NUMBER OF WASTE STREAMS TO 18. WASTE STREAM NUMBERS 1 (COMBUSTIBLE ORGANICS), 2 (PEROXIDES - SOLIDS), 3 (PEROXIDES - LIQUIDS), 4 (CHLORINATED), 6 (NONHAZARDOUS - SAND AND GLASS), AND 7 (ORGANIC SOLIDS) WERE BULKED INTO THEIR FINAL SHIPPING CONTAINERS. ERCS ALSO OBTAINED DISPOSAL SAMPLES FROM EACH OF THESE WASTE STREAMS.

III. FUTURE ACTIONS:
   A. CONTINUATION OF BULKING OF COMPATIBLES AND SAMPLING FOR DISPOSAL.
   B. TRANSPORTATION AND DISPOSAL OF MATERIALS.
   C. COLLECTION OF SURFACE SOIL SAMPLES FROM SUSPECTED AREAS OF CONTAMINATION IF NECESSARY.
   D. EXCAVATION AND BACKFILLING OF CONTAMINATED SOIL IF NECESSARY.

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LREP #25
SLOAN GLASS SITE
CHARLIE'S CREEK ROAD
CULLODEN, CABELL COUNTY, WEST VIRGINIA 25510
EVENT: REMOVAL ACTION

I. SITUATION: (1730 HOURS, MONDAY, 20 JANUARY 1997)
   A. ERCS CONTINUED BULKING WASTE STREAMS.
   B. PERSONNEL ON SITE: SATA - 1, ERCS - 7
   C. WEATHER: MOSTLY SUNNY WITH TEMPERATURES IN THE MID 40'S.
   D. ESTIMATED COSTS TO DATE: (C.O.B., MONDAY, 20 JANUARY 1997)

	CURRENT	CEILING
EPA (DIRECT)	$ 2,085	$ 5,000
EPA (INDIRECT)	$ 3,808	$ 10,000
SATA	$ 14,502	$ 40,000
ERCS	$ 79,571	$ 145,000
OTHER	$	$
UNALLOCATED	$	$
	$ 99,966	$ 200,000

ERCS ARE AT 55% OF CEILING. SATA IS AT 36.26% OF CEILING.

II. ACTIONS TAKEN:
   A. ERCS CONTINUED BULKING WASTE STREAMS AND COLLECTING DISPOSAL SAMPLES. WASTE STREAM NUMBERS 8 (OXIDIZERS) AND 18 (COMBUSTIBLE ORGANICS) WERE COMPLETED. ERCS ALSO COMPLETED BULKING MOST OF WASTE STREAM NUMBER 5 (INORGANIC SOLIDS). EACH OF THESE WASTE STREAMS WERE BULKED INTO THEIR FINAL SHIPPING CONTAINERS AND DISPOSAL SAMPLES WERE COLLECTED FOR EACH OF THESE WASTE STREAMS.

III. FUTURE ACTIONS:
   A. CONTINUATION OF BULKING OF COMPATIBLES AND SAMPLING FOR DISPOSAL.
   B. TRANSPORTATION AND DISPOSAL OF MATERIALS.
   C. COLLECTION OF SURFACE SOIL SAMPLES FROM SUSPECTED AREAS OF CONTAMINATION IF NECESSARY.
   D. EXCAVATION AND BACKFILLING OF CONTAMINATED SOIL IF NECESSARY.

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U.S. EPA REGION III
WHEELING, WV 26003

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WHEELING, WV 26003

)LREP #26
SLOAN GLASS SITE
CHARLIE'S CREEK ROAD
CULLODEN, CABELL COUNTY, WEST VIRGINIA 25510
EVENT: REMOVAL ACTION

I. SITUATION: (1730 HOURS, TUESDAY 21 JANUARY 1997)
   A. ERCS COMPLETED BULKING WASTE STREAMS.
   B. PERSONNEL ON SITE: SATA - 1, ERCS - 7
   C. WEATHER: MOSTLY SUNNY WITH TEMPERATURES IN THE LOWER 50'S.
   D. ESTIMATED COSTS TO DATE: (C.O.B., TUESDAY, 21 JANUARY 1997)

	CURRENT	CEILING
EPA (DIRECT)	$ 2,085	$ 5,000
EPA (INDIRECT)	$ 3,808	$ 10,000
SATA	$ 14,884	$ 40,000
ERCS	$ 85,614	$ 145,000
OTHER	$	$
UNALLOCATED	$	$
	$ 106,391	$ 200,000

ERCS ARE AT 59.04% OF CEILING. SATA IS AT 37.21% OF CEILING.

II. ACTIONS TAKEN:
   A. ERCS COMPLETED BULKING THE REMAINING WASTE STREAMS INTO THEIR FINAL SHIPPING CONTAINRS. THE EIGHTEEN TENTATIVE WASTE STREAMS WHICH HAD PREVIOUSLY BEEN ESTABLISHED WERE CONDENSED INTO TWELVE WASTE STREAMS. THE OSC DECIDED TO ALSO DISPOSE OF FOURTEEN 100 POUND BAGS OF NONHAZARDOUS ALUMINUM OXIDE. ERCS IS PRESENTLY WAITING TO HERE FROM THE LANDFILL IF THE ALUMINUM OXIDE WILL HAVE TO BE OVERPACKED IN DRUMS OR SIMPLY THROWN INTO THE BFI DUMPSTER.

III. FUTURE ACTIONS:
   A. TRANSPORTATION AND DISPOSAL OF MATERIALS.
   B. COLLECTION OF SURFACE SOIL SAMPLES FROM SUSPECTED AREAS OF CONTAMINATION IF NECESSARY.
   C. EXCAVATION AND BACKFILLING OF CONTAMINATED SOIL IF NECESSARY.

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)LREP #27
LOAN GLASS SITE
CHARLIE'S CREEK ROAD
CULLODEN, CABELL COUNTY, WEST VIRGINIA 25510
EVENT: REMOVAL ACTION

I. SITUATION: (1730 HOURS, WEDNESDAY 22 JANUARY 1997)
   A. ERCS CONTINUED PREPARING DISPOSAL SAMPLES FOR SHIPMENT.
   B. PERSONNEL ON SITE: SATA - 1, ERCS - 7
   C. WEATHER: CLOUDY WITH PERIODS OF RAIN AND TEMP.'S IN THE 40'S.
   D. ESTIMATED COSTS TO DATE: (C.O.B., WEDNESDAY, 22 JANUARY 1997)

	CURRENT	CEILING
EPA (DIRECT)	$ 2,085	$ 5,000
EPA (INDIRECT)	$ 3,808	$ 10,000
SATA	$ 16,187	$ 40,000
ERCS	$ 88,672	$ 145,000
OTHER	$	$
UNALLOCATED	$	$
	$ 110,752	$ 200,000

ERCS ARE AT 61.15% OF CEILING. SATA IS AT 40.47% OF CEILING.

II. ACTIONS TAKEN:
   A. ERCS CONTINUED PREPARING THE DISPOSAL SAMPLES FOR SHIPMENT TO THE LABORATORY.
   B. ERCS BEGAN CUTTING UP REMAINING EMPTY METAL AND FIBER DRUMS AND STAGING THEM WITH THE OTHER CRUSHED EMPTY DRUMS.
   C. THE HAZARD CATEGORIZATION AREA WAS DISMANTLED.
   D. ERCS BEGAN PULLING THEIR EQUIPMENT OUT OF THE BUILDING AND DECONTAMINATING IT.
   E. IT WAS CONFIRMED BY THE LANDFILL THAT IT WOULD BE ACCEPTABLE TO PLACE THE 14 X 100 LB. BAGS OF NONHAZARDOUS ALUMINUM OXIDE INTO THE BFI DUMPSTER. THE BAGS WERE THEN TRANSFERRED INTO THE DUMPSTER.
   F. ALONG WITH THE 12 WASTE STREAMS ALREADY ESTABLISHED, THE FOLLOWING KNOWN CHEMICALS WILL BE DISPOSED OF SEPARATELY FROM THE WASTE STREAMS: POTASSIUM BICHROMATE (ONE 55 G METAL DRUM), AMMONIUM HYDROGEN FLUORIDE (ONE 55 G METAL DRUM), FROSTING MIX (ONE 85 G METAL DRUM, AND ASBESTOS (10 BAGS TOTALING 125 POUNDS).

III. FUTURE ACTIONS:
   A. TRANSPORTATION AND DISPOSAL OF MATERIALS.
   B. COLLECTION OF SURFACE SOIL SAMPLES FROM SUSPECTED AREAS OF CONTAMINATION IF NECESSARY.
   C. EXCAVATION AND BACKFILLING OF CONTAMINATED SOIL IF NECESSARY.

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LREP #28
LOAN GLASS SITE
CHARLIE'S CREEK ROAD
CULLODEN, CABELL COUNTY, WEST VIRGINIA 25510
EVENT: REMOVAL ACTION

I. SITUATION: (1230 HOURS, FRIDAY 24 JANUARY 1997)

A. ERCS COMPLETED PREPARING DISPOSAL SAMPLES FOR SHIPMENT AND SENT THEM OFF TO A LABORATORY FOR DISPOSAL ANALYSIS.

B. PERSONNEL ON SITE: SATA - 1, ERCS - 2

C. WEATHER: CLOUDY WITH TEMP.'S IN THE 40'S.

D. ESTIMATED COSTS TO DATE: (C.O.B., FRIDAY, 24 JANUARY 1997)

	CURRENT	CEILING
EPA (DIRECT)	$ 2,085	$ 5,000
EPA (INDIRECT)	$ 3,808	$ 10,000
SATA	$ 16,846	$ 40,000
ERCS (01/22/97)	$ 88,672	$ 145,000
OTHER	$	$
UNALLOCATED	$	$
	$ 111,411	$ 200,000

ERCS ARE AT 61.15% OF CEILING. SATA IS AT 42.12% OF CEILING.

II. ACTIONS TAKEN:

A. ON 23 JANUARY 1997, ERCS CONTINUED PREPARING DISPOSAL SAMPLES FOR SHIPMENT. THIRTEEN DISPOSAL GROUPS (41 SAMPLES) WERE SHIPPED OFF TO A LABORATORY FOR ANALYSIS. ERCS ALSO CUT UP A FEW REMAINING EMPTY DRUMS AND COMLETED STAGING THE OVERPACKED DRUMS INSIDE THE BUILDING FOR TRANSPORATION AND DISPOSAL. ON THIS DAY, ERCS DEMOBED THE FOLLOWING RENTAL EQUIPMENT: DUMPSTER, BREATHING AIR CYLINDERS, GENERATOR, PARTNER SAW, COPIER, OFFICE FURNITURE, AND WATER COOLER.

B. ON THE MORNING OF 24 JANUARY 1997, ERCS PACKED UP THE HYDROFLUORIC ACID DISPOSAL SAMPLES IN DOT EXEMPT UN BOXES AND SHIPPED THEM OFF TO THE LABORATORY FOR DISPOSAL ANALYSIS. THIS COMPLETED ALL DISPOSAL SAMPLE SHIPPING ACTIVITY. AT APPROXIMATELY 1300 HOURS, ERCS PERSONNEL AND SATA DEMOBED FROM THE SITE TO AWAIT DISPOSAL ANALYSIS. IN ALL, SIXTEEN WASTE STREAMS WERE ESTABLISHED AND DISPOSAL SAMPLES WERE COLLECTED FROM TWELVE OF THEM. DISPOSAL SAMPLES WERE NOT NEEDED FOR THE REMAINING FOUR WASTE STREAMS.

III. FUTURE ACTIONS:

A. TRANSPORTATION AND DISPOSAL OF MATERIALS.

B. COLLECTION OF SURFACE SOIL SAMPLES FROM SUSPECTED AREAS OF CONTAMINATION IF NECESSARY.

C. EXCAVATION AND BACKFILLING OF CONTAMINATED SOIL IF NECESSARY.

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Polrep #29
Sloan Glass Site
Charlie's Creek Road
Culloden, Cabell County, West Virginia 25510
Event: Removal Action

I. Situation (0900 hours, Friday, March 21, 1997)
   A. Ercs has received disposal analysis for wastes to be shipped offsite. OSC has reviewed all paperwork required for proper disposal.
   B. Estimated Costs to Date: (COB March 1, 1997)

	Current	Ceiling
EPA (Direct)	$ 2,085	$ 5,000
EPA (Indirect)	$ 3,808	$ 10,000
SATA	$ 18,000	$ 25,000
ERCS (1/22/97)	$ 88,672	$160,000
Unallocated	$	$
	$112,565	$200,000

   Note: $15,000 from the SATA ceiling was shifted to ERCS ceiling. SATA ceiling is now at $25,000 and ERCS ceiling is at $160,000.

II. Actions Taken
   A. On January 24, 1997, ERCS packaged the hydrofluoric acid disposal samples in DOT exempt UN boxes and shipped them off to the laboratory for disposal analysis. All personnel demobed the site this date awaiting disposal approval. In all, sixteen waste streams were established and disposal samples were collected from twelve of them. Disposal samples were not needed for the remaining four waste streams.

III. Future Plans
   A. OSC, SATA and ERCS to mobe to site Monday, March 24, 1997 to prepare all wastes for disposal.
   B. Transportation and disposal of packaged/drummed waste materials to occurr on Tuesday, March 25, 1997.
   C. Collection of surface soil samples from suspect areas of possible metals contamination during the week of March 24, 1997.

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U.S. EPA Region III
Wheeling, WV 26003

Marjorie Easton, OSC
U.S. EPA Region III
Wheeling, WV 26003

Polrep #30
Sloan Glass Site
Charlie's Creek Road
Culloden, Cabell County, West Virginia 25510
Event: Removal Action

I. Situation (0900 hours, Friday, March 28, 1997)

A. ERCS has received disposal analysis for wastes to be shipped offsite. OSC has reviewed all paperwork required for proper disposal. T&D complete.

B. Estimated Costs to Date: (COB March 1, 1997)

	Current	Ceiling
EPA (Direct)	$ 2,085	$ 5,000
EPA (Indirect)	$ 3,808	$ 10,000
SATA	$ 18,000	$ 25,000
ERCS (1/22/97)	$ 88,672	$160,000
Unallocated	$	$
	$112,565	$200,000

Note: $15,000 from the SATA ceiling was shifted to ERCS ceiling. SATA ceiling is now at $25,000 and ERCS ceiling is at $160,000.

C. On January 24, 1997, ERCS packaged the hydrofluoric acid disposal samples in DOT exempt UN boxes and shipped them off to the laboratory for disposal analysis. All personnel demobed the site this date awaiting disposal approval. In all, sixteen waste streams were established and disposal samples were collected from twelve of them. Disposal samples were not needed for the remaining four waste streams.

II. Actions Taken

A. On Monday, March 24, ERCS and SATA mobed to site to label and prepare all drummed wastes for disposal.

B. On Tuesday, March 25, OSC Matlock mobed to site to complete the transportation and disposal of all remaining site wastes. Sixty-nine (69) drums and ten (10) cubic yards of expended PPE were loaded and shipped off this date to an approved disposal facility.

C. Per OSC direction SATA members collected four (4) surface soil samples to determine any additional metals contamination.

D. The site building was secured upon demobe.

E. OSC to make additional attempts to notify WVDEP of site status.

III. Future Plans

A. ERCS to demobe command post from site on Tuesday, April 1, 1997.

B. OSC to receive certificates of disposal.

C. OSC to receive and review surface soil analytical.

C. OSC to continue coordination with WVDEP.

D. OSC to continue to relay information/data to EPA Eforcement Section and EPA ORC.
E. Prepare after action report.

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U.S. EPA Region III
Wheeling, Wv 26003

Marjorie Easton, OSC
U.S. EPA Region III
Wheeling, Wv 26003

Polrep #31
Sloan Glass Site
Charlie's Creek Road
Culloden, Cabell County, West Virginia 25510
Event: Removal Action

I. Situation (1200 hours, Wednesday, April 23, 1997)
   A. The OSC has received all disposal certificates for wastes shipped offsite.
   B. Estimated Costs to Date: (COB April 1, 1997)

	Current	Ceiling
EPA (Direct)	$ 2,085	$ 5,000
EPA (Indirect)	$ 3,808	$ 10,000
SATA	$ 18,000	$ 25,000
ERCS (1/22/97)	$123,626	$160,000
Unallocated	$	$
	$147,519	$200,000

   Note: $15,000 from the SATA ceiling was shifted to ERCS ceiling. SATA ceiling is now at $25,000 and ERCS ceiling is at $160,000.
   C. On Monday, March 24, ERCS and SATA mobed to site to label and prepare all drummed wastes for disposal.
   D. On Tuesday, March 25, OSC Matlock mobed to site to complete the transportation and disposal of all remaining site wastes. Sixty-nine (69) drums and ten (10) cubic yards of expended PPE were loaded and shipped off this date to an approved disposal facility. Per OSC direction SATA members collected four (4) surface soil samples to determine any additional metals contamination.
   E. The site building was secured upon demobe.

II. Actions Taken
   A. Soil sampling results received. No levels that would warrant further removal action were detected.
   B. OSC has notified WVDEP of cuurrent site status. EPA soil sampling results to be sent to WVDEP.
   C. Command post demobed from site week of April 7, 1997.
   D. OSC relayed all current information to EPA ORC and EPA Enforcement.

III. Future Plans
   A. OSC to continue coordination with WVDEP.
   B. OSC to continue to relay information/data to EPA Enforcement Section and EPA ORC.
   C. OSC to send recent EPA analytical results to WVDEP.
   D. Prepare after action report.
   E. Upon transfer of all data to appropriate officials final polrep will document site closure.

Dennis Matlock, OSC
U.S. EPA Region III
Wheeling, WV 26003

Polrep #32 and Final
Sloan Glass Site
Charlie's Creek Road
Culloden, Cabell County, West Virginia 25510
Attn: RRC
Event: Removal Action Closure

I. Situation (1200 hours, June 2, 1997)

A. The transportation and disposal of all wastes was completed on Tuesday, March 25, 1997. Work to mitigate/stabilize the chemical hazards, arsenic powders, chromium, barium, cadmium, lead, ammonium hydrogen fluoride, hydroflouric acids, organic peroxides, and large quantities of unknowns was performed as outlined in the action memo (Special Bulletin A).

B. The OSC has received all disposal certificates for wastes shipped offsite.

C. Estimated Costs: (COB May 1, 1997)

	Current	Ceiling
EPA (Direct)	$ 2,085	$ 5,000
EPA (Indirect)	$ 3,808	$ 10,000
SATA	$ 18,151	$ 25,000
ERCS (1/22/97)	$131,626	$160,000
Unallocated	$	$
	$155,670	$200,000

D. On Tuesday, March 25, OSC Matlock mobed to site to complete the transportation and disposal of all remaining site wastes. Sixty-nine (69) drums and ten (10) cubic yards of expended PPE were loaded and shipped off this date to an approved disposal facility. Per OSC direction SATA members collected four (4) surface soil samples to determine any additional metals contamination. Results from these samples do not indicate any need for further removal activity.

E. The site building was secured upon final demobe.

II. Actions Taken

A. Soil sampling results received. No levels that would warrant further removal action were detected.

B. OSC has notified WVDEP of cuurrent site status. EPA soil sampling results sent to WVDEP.

C. OSC relayed all current information to EPA ORC and EPA Enforcement.

III. Future Plans

A. OSC to continue to forward all information/data to EPA Enforcement Section and EPA ORC.

B. Prepare after action report.

C. No additional EPA Removal Activity planned.

Dennis Matlock, OSC
U.S. EPA Region III
Wheeling, Wv 26003

APPENDIX E
MANIFESTS

DNR WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties, under Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: WVP000006638 | Manifest Document No.:
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: U.S. EPA Region III c/o Majore Easton, 303 Methodist Building, Wheeling, WV 26003
4. Generator's Phone (304) 234-0251

A. State Manifest Document Number: MI 4640770
B. State Generator's ID: Charlie Creek Rd, Culloden, WV

5. Transporter 1 Company Name: Buffalo Fuel Corp
6. US EPA ID Number: NYD051809952
C. State Transporter's ID
D. Transporter's Phone 800-677-8002

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address: Michigan Recovery Systems Inc., 36345 Van Born Road, Romulus, MI 48174
10. US EPA ID Number: MID060975844
G. State Facility's ID
H. Facility's Phone 800-321-0998

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, Waste Flammable Liquid, n.o.s. (Paint and Lacquer Thinner) 3, UN1993, PGII (D001)	X	[illegible]	DM	[illegible]	K	D001 N/H
b.						
c.						
d.						

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APR 1 - 1997

J. Additional Descriptions for Materials Listed Above
A) Approval # [illegible], ERG#128, also contains petroleum distillates.
CH0185-P01004

K. Handling Codes for Wastes Listed Above
A) X
a/ 1 b/ 1 c/ 1 d/ 1

15. Special Handling Instructions and Additional Information
Send C of D to CEO, Inc., 5803 Rolling Rd, Suite 213, Springfield, VA 22152
In case of emergency call 1-7.. 22X SPIL

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Date (Month Day Year)
Dennis Matlock	D Matlock o.c. for USEPA	03 25 97

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
Dave Carber	Dave Carber	03 2[illegible] 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
Jennifer Phillips	[signature]	03 26 97

GENERATOR / TRANSPORTER / FACILITY

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICH AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)
AR100076
PR 5110 Rev. 5/95

GENERATOR 2nd COPY

MICHIGAN RECOVERY SYSTEMS, INC.
Land Disposal Restriction Notification Form

Generator: U.S. EPA Region III EPA ID #: WVP000006638 Manifest # M1464077G

List the waste codes and check the appropriate box for the waste described on each line of the manifest referenced above:
a. D001 (X) Non-Wastewater ( ) Wastewater c. _____ ( ) Non-Wastewater ( ) Wastewat
b. _____ ( ) Non-Wastewater ( ) Wastewater d. _____ ( ) Non-Wastewater ( ) Wastewat

All treatment standards or prohibition levels exceeded by the waste are checked below, with the applicable hazardous waste treatment standards from 268.40 "Treatment Standards for Hazardous Waste":

Check Manifest Line Item # if Present							
11a.	11b.	11c.	11d.	Constituents of Concern	CAS #	Wastewater mg/l or Technology Code	Non-Wastewater mg/l or Technology Code
				1. Listed Hazardous Wastes F001,F002,F003,F004, F005-Solvents wastes that contain any of one or more of the following spent solvents:			
				Acetone	67-94-1	0.28	160
				Benzene	71-43-2	0.14	10
				n-Butyl alcohol	71-36-3	5.6	2.6
				Carbon disulfide	75-15-0	3.8	NA
				Carbon tetrachloride	56-23-5	0.057	6.0
				Chlorobenzene	108-90-7	0.057	6.0
				o-Cresol	95-48-7	0.11	5.6
				m-Cresol	108-39-4	0.77	5.6
				p-cresol	106-44-5	0.77	5.6
				Cresol-mixed isomers	1318-77-3	0.88	11.2
				Cyclohexanone	108-94-1	0.36	NA
				o-Dichlorobenzene	95-50-1	0.088	6.0
				Ethyl acetate	141-07-6	0.34	33
				Ethyl benzene	100-41-4	0.057	10
				Ethyl ether	60-29-7	0.12	160
				Isobutyl alcohol	78-83-1	5.6	170
				Methanol	67-56-1	5.6	NA
				Methylene chloride	75-09-2	0.089	30
				Methyl ethyl ketone	78-93-3	0.28	36
				Methyl isobutyl ketone	108-10-1	0.14	33
				Nitrobenzene	98-95-3	0.068	14
				Pyridine	110-86-1	0.014	16
				Tetrachloroethylene	127-18-4	0.056	6.0
				Toluene	108-88-3	0.080	10
				1,1,1-Trichloroethane	71-55-6	0.054	6.0
				1,1,2-Trichloroethane	79-00-5	0.054	6.0
				1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	0.057	30
				Trichloroethylene	79-01-6	0.054	6.0
				Trichloromonofluoro-methane	75-69-4	0.020	30
				Xylene-mixed isomers	1330-20-7	0.32	30
				F003 and/or F005 solvent wastes that contain any combination of one or more of the following three solvents as the only listed F001-F005 solvents:			
				Carbon disulfide	75-15-0	3.8	4.8 mg/l TCLP
				Cyclohexanone	108-94-1	0.36	0.75 mg/l TCLP
				Methanol.	67-56-1	5.6	0.75 mg/l TCLP
				F005 solvent waste containing 2-Nitropropane as the only listed F001-5 solvent:			
				2-Nitropropane	79-46-9	WETOX or CHOXD fb CARBN; or INCIN	INCIN
				F005 solvent waste containing 2-Ethoxyethanol as the only listed F001-5 solvent.			
				2-Ethoxyethanol	110-80-5	BIODG or INCIN	INCIN

AR100077

11a. 11b. 11c. 11d Other Listed Wastes: Enter the waste code, subcategory, and applicable treatment standard and applicable prohibition levels for listed wastes not previously specified:

				Waste Code	If applicable Subcategory	Treatment Standard and/or prohibition levels

2. California List Waste This shipment contains hazardous waste subject to additional RCRA Section 3004(d) California List waste treatment standards.

				Liquid waste with PCB's >50 ppm
				Liquid waste that contain halogenated organic compounds (HCC) in total concentrations ≥ 1,000 mg/l or 1000 mg/kg (nonliquids).(INCINERATION) (HOCs found in 40 CFR 268.32, Appendix III)
				Nickel (liquid waste)>134 ppm
				Thallium (liquid waste) >130 ppm

3. Hazardous Waste Characteristics

				No additional hazardous waste characteristics are exhibited by this waste which would require treatment beyond the standards described above.
				Treatment standards for the additional hazardous waste characteristics exhibited by this waste are indicated below.

Check Manifest Line Item #: if Present 11b.	11c.	11d.	Constituents of Concern	CAS #	Wastewater mg/l or Technology Code	Non-Wastewater mg/l or Technology Code
X			D001-Ignitable Hi TOC(≥10%TOC)		N/A	RORGS or CMBST
			D001-Ignitable Liquids except Hi TOC managed in non-CWA or equivalent/ non-Class 1 SDWA systems		DEACT & meet 268.48** or RORGS or CMBST	DEACT & meet 268.48** or RORGS or CMBST
			D001-Ignitable Liquids except Hi TOC managed in CWA or equivalent/Class 1 SDWA systems		DEACT	DEACT
			D002-Corrosive managed in non-CWA or equivalent/non-Class1 SDWA systems		DEACT & meet 268.48**	DEACT & meet 268.48**
			D002-Corrosive managed in CWA or equivalent/Class1 SDWA systems		DEACT	DEACT
			D004-Arsenic	7440-38-2	5.0	5.0 mg/l EP or TCLP
			D005-Barium	7440-39-3	100	100.0 mg/l TCLP
			D006-Cadmium	7440-43-9	1.0	1.0 mg/l TCLP
			D007-Chromium (Total)	7440-47-3	5.0	5.0 mg/l TCLP
			D008-Lead	7439-92-1	5.0	5.0 mg/l EP or TCLP
			D009-Mercury (High mercury organic subcategory)	7439-97-6	N/A	IMERC or RMERC
			D009-Mercury (High mercury inorganic subcategory)	7439-97-6	N/A	RMERC
			D009-Mercury (Low mercury subcategory)	7439-97-6	N/A	0.2 mg/l TCLP
			D009-Mercury All wastewaters	7439-97-6	0.2	N/A
			D010-Selenium	7782-49-2	1.0	5.7 mg/l TCLP
			D011-Silver	7440-22-4	5.0	5.0 mg/l TCLP

** electing this subcategory include the Underlying Hazardous Constituents form.

3. Hazardous Waste Characteristics (con't)

For non-wastewater waste streams that have any of the hazardous waste characteristics on this page checked, include the Underlying Hazardous Constituents Form with this LDR form.

Check Manifest Line Item # if Present							
11a.	11b.	11c.	11d.	Constituents of Concern	CAS #	Wastewater mg/l or Technology Code	Non-Wastewater mg/l or Technology Code
___	___	___	___	D012-Endrin	72-20-8	BIODG or INCIN	0.13 & meet 268.48
				Endrin Aldehyde	7428-93-4	BIODG or INCIN	0.13 & meet 268.48
___	___	___	___	D013-Lindane			
				alpha-BHC	319-84-6	CARBN or INCIN	0.066 & meet 268.48
				beta-BHC	319-85-7	CARBN or INCIN	0.066 & meet 268.48
				delta-BHC	319-86-8	CARBN or INCIN	0.066 & meet 268.48
				gamma-BHC (Lindane)	319-85-7	CARBN or INCIN	0.066 & meet 268.48
___	___	___	___	D014-Methoxychlor	72-43-5	WETOX or INCIN	0.18 & meet 268.48
___	___	___	___	D015-Toxaphene	8001-35-2	BIODG or INCIN	2.6 & meet 268.48
___	___	___	___	D016-2,4-D	94-76-7	CHOXD, BIODR or INCIN	10.0 & meet 268.48
___	___	___	___	D017-2,4,5-TP	93-72-1	CHOXD or INCIN	7.9 & meet 268.48
___	___	___	___	D018-Benzene	71-43-2	0.14	10.0 & meet 268.48
___	___	___	___	D019-Carbon Tetrachloride	56-23-5	0.057	6.0 & meet 268.48
___	___	___	___	D020-Chlordane	57-74-9	0.0033	0.26 & meet 268.48
___	___	___	___	D021-Chlorobenzene	108-90-7	0.057	6.0 & meet 268.48
___	___	___	___	D022-Chloroform	67-66-3	0.046	6.0 & meet 268.48
___	___	___	___	D023-o-Cresol	95-48-7	0.11	5.6 & meet 268.48
___	___	___	___	D024-m-Cresol	108-39-4	0.77	5.6 & meet 268.48
___	___	___	___	D025-p-Cresol	106-44-5	0.77	5.6 & meet 268.48
___	___	___	___	D026-Total Cresol	1319-77-3	0.88	11.2 & meet 268.48
___	___	___	___	D027-p-Dichlorobenzene	106-46-7	0.090	6.0 & meet 268.48
___	___	___	___	D028-1,2-Dichloroethane	107-06-2	0.21	6.0 & meet 268.48
___	___	___	___	D029-1,1-Dichloroethylene	75-35-4	0.025	6.0 & meet 268.48
___	___	___	___	D030-2,4-Dinitrotoluene	121-14-2	0.32	140.0 & meet 268.48
___	___	___	___	D031-Heptachlor	76-44-8	0.0012	0.066 & meet 268.48
				Heptachlor epoxide	1024-57-3	0.016	0.066 & meet 268.48
___	___	___	___	D032-Hexachlorobenzene	118-74-1	0.055	10.0 & meet 268.48
___	___	___	___	D033-Hexachlorobutadiene	87-68-3	0.055	5.6 & meet 268.48
___	___	___	___	D034-Hexachloroethane	67-72-1	0.055	30.0 & meet 268.48
___	___	___	___	D035-Methyl ethyl ketone	78-93-3	0.28	36.0 & meet 268.48
___	___	___	___	D036-Nitrobenzene	98-95-3	0.068	14.0 & meet 268.48
___	___	___	___	D037-Pentachlorophenol	87-86-5	0.089	7.4 & meet 268.48
___	___	___	___	D038-Pyridine	110-86-1	0.014	16.0 & meet 268.48
___	___	___	___	D039-Tetrachloroethylene	127-18-4	0.056	6.0 & meet 268.48
___	___	___	___	D040-Trichloroethylene	79-01-6	0.054	6.0 & meet 268.48
___	___	___	___	D041-2,4,5-Trichlorophenol	95-95-4	0.018	7.4 & meet 268.48
___	___	___	___	D042-2,4,6-Trichlorophenol	88-06-2	0.035	7.4 & meet 268.48
___	___	___	___	D043-Vinyl Chloride	75-01-4	0.27	6.0 & meet 268.48

I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

Company Name: US EPA

Authorized Signature: D. Matlock OSC Date: 3-25-97

AR100079

MICHIGAN RECOVERY SYSTEMS, INC.
Underlying Hazardous Constituents Form

Manifest Doc.#: M14640770 Line Item: 11A MRSI Approval Number: 0313970

Circle those regulated constituents which can reasonably be expected to be present, at the point of generation of the hazardous waste described above, at a concentration above the specified treatment standard:

Acenaphthylene
Acenaphthene
Acetone
Acetonitrile
Acetophenone
2-Acetylaminofluorene
Acrolein
Acrylamide
Acrylonitrile
Aldrin
4-Aminobiphenyl
Aniline
Anthracene
Aramite
alpha-BHC
beta-BHC
delta-BHC
gamma-BHC
Benzene
Benz(a)anthracene
Benzal chloride
Benzo(b)fluoranthene
Benzo(k)fluoranthene
Benzo(g,h,i)perylene
Benzo(a)pyrene
Bromodichloromethane
Methyl bromide
4-Bromophenyl phenyl ether
n-Butyl alcohol
Butyl benzyl phthalate
2-*sec*-Butyl-4,6-dinitrophenol
Carbon disulfide
Carbon tetrachloride
Chlordane
p-Chloroaniline
Chlorobenzene
Chlorobenzilate
2-Chloro-1,3-butadiene
Chlorodibromomethane
Chloroethane
bis(2-Chloroethoxy) methane
bis(2-Chloroethyl) ether
Chloroform
bis(2-Chloroisopropyl) ether
p-Chloro-*m*-cresol
2-Chloroethyl vinyl ether
Chloromethane
2-Chloronaphthalene
2-Chlorophenol
3-Chloropropylene
Chrysene
o-Cresol
m-Cresol
p-Cresol
Cyclohexanone
1,2-Dibromo-3-Chloropropane
Ethylene dibromide
Dibromomethane
2,4,-D
o,p'-DDD
p,p'-DDD
o,p'-DDE
p,p'-DDE
o,p'-DDT
p,p'-DDT
Dibenz(a,h) anthracene
Dibenz(a,e)pyrene
m-Dichlorobenzene
o-Dichlorobenzene
p-Dichlorobenzene
Dichlorodifluoromethane
1,1-Dichloroethane
1,2-Dichloroethane
1,1-Dichloroethylene
trans-1,2-Dichloroethylene
2,4-Dichlorophenol
2,6-Dichlorophenol
1,2-Dichloropropane
cis-1,3-Dichloropropylene
trans-1,3-Dichloropropylene
Dieldrin
Diethyl phthalate
2,4-Dimethyl phenol
Dimethyl phthalate
Di-*n*-butyl phthalate
1,4-Dinitrobenzene
4,6-Dinitro-*o*-cresol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
Di-*n*-octyl phthalate
p-Dimethylaminoazobenzene
Di-*n*-propylnitrosamine
1,4-Dioxane
Diphenylamine
Diphenylnitrosamine
1,2-Diphenyl hydrazine
Disulfoton
Endosulfan I
Endosulfan II
Endosulfan sulfate
Endrin
Endrin aldehyde
Ethyl acetate
Ethyl cyanide
Ethyl benzene
Ethyl ether
bis(2-Ethylhexyl)phthalate
Ethyl methacrylate
Ethylene oxide
Famphur
Fluoranthene
Fluorene
Heptachlor
Heptachlor epoxide
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
HxCDDs
HxCDFs
Hexachloroethane
Hexachloropropylene
Indeno(1,2,3-c,d) pyrene
Iodomethane
Isobutyl alcohol
Isodrin
Isosafrole
Kepone
Methacrylonitrile
Methanol
Methapyrilene
Methoxychlor
3-Methylcholanthrene
4,4-Methylene bis-
Methylene chloride
Methyl ethyl ketone
Methyl isobutyl ketone
Methyl methacrylate
Methyl methansulfonate
Methyl parathion
Naphthalene
2-Naphthylamine
o-Nitroaniline
p-Nitroaniline
Nitrobenzene
5-Nitro-*o*-toluidine
o-Nitrophenol
p-Nitrophenol
N-Nitrosodiethylamide
N-Nitrosodimethylamine
N-Nitrosodi-*n*-butylamine
N-Nitrosomethylethylamine
N-Nitromorpholine
N-Nitrosopiperidine
N-Nitrosopyrrolidine
Parathion
Total PCBs
Pentachlorobenzene
PeCDDs
PeCDFs
Pentachloroethane
Pentachloronitrobenzene
Pentachlorophenol
Phenacetin
Phenanthrene
Phenol
Phorate
Phthalic acid
Phthalic anhydride
Pronamide
Pyrene
Pyridine
Safrole
Silvex
2,4,5-T
1,2,4,5-Tetrachlorobenzene
TCDDs
TCDFs
1,1,1,2-Tetrachloroethane
1,1,2,2-Tetrachloroethane
Tetrachloroethylene
2,3,4,6-Tetrachlorophenol
Toluene
Toxaphene
Bromoform
1,2,4-Trichlorobenzene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethylene
Trichloromonofluoromethane
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
1,2,3-Trichloropropane
1,1,2-Trichloro-1,2,2-trifluoroetha
tris-(2,3-Dibromopropyl)phosphat
Vinyl chloride
Xylenes-mixed isomers
Antimony
Arsenic
Barium
Cadmium
Chromium (total)
Cyanides (total)
Cyanides (Amenable)
Fluoride
Lead
Mercury
Nickel
Selenium
Silver
Sulfide
Thallium
Vanadium

SURCHARGE EXEMPTION CERTIFICATION

49350 N. I-94 Service Drive Belleville MI 48111 Phone: (800) 592-5489 Fax: (800) 592-5329

Please check one: ☒ Michigan Disposal Waste Treatment Plant ☐ Wayne Disposal, Inc.

This is a certification pursuant to Section 11108(3) of Act 451 of 1994 (the Hazardous Waste Management Act) that the hazardous waste identified herein is exempt from the surcharge provided in the Act.

WASTE TYPE: Paint & Thinner

WASTE DESCRIPTION: Waste Flammable Liquid, n.o.s.

QUANTITY AND UNITS: 1 dm

MANIFEST NUMBER: MI 4640770

This shipment is exempt from the surcharge because the waste is:

_____ Ash from incineration of hazardous and nonhazardous waste.

_____ Hazardous waste exempted by MDEQ rule making action.

✓ Hazardous waste removed from a contaminated site listed pursuant to Section 6 of Act 307 or hazardous waste that is removed as part of a site clean-up activity at the expense of the state or federal government.

_____ Solidified hazardous waste produced by a solidification facility in Michigan and licensed under Act 64

_____ Hazardous waste generated by a one time closure or site cleanup activity in Michigan authorized by the Director of the MDEQ.

_____ Solids from an aggressive biological treatment facility

_____ Emission control dust or sludge from the primary production of steel in electrical furnaces.

Signature D. Matlock Company Name US EPA

Printed Name Dennis Matlock Date 7-25-97

DNR WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties, under Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: WVP000006638 Manifest Document No.:
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: c/o Mafore Easton
U.S. EPA Region III
303 Methodist Bldg., Wheeling, WV 26003
4. Generator's Phone (304) 234-0251

A. State Manifest Document Number: MI 4640771
B. State Generator's ID: Charlie Creek Rd, Culloden WV

5. Transporter 1 Company Name: Buffalo Fuel Corp
6. US EPA ID Number: NYD051809952
C. State Transporter's ID:
D. Transporter's Phone: 800-677-8002

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address:
Michigan Disposal Inc.
49350 N. I-94 Service Dr.
Belleville, MI 48111
10. US EPA ID Number: MID000724831
G. State Facility's ID:
H. Facility's Phone: 800-992-[illegible]

HM	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. X	RQ, Hazardous Waste, Solid, n.o.s. (Lead, Arsenic) 9, NA3077, PGIII (D004, D006, D008, 001D, 003D)					D004
b. X	Oxidizing Solid, n.o.s. (Magnesium Dioxide, Aluminum Oxide) 5.1, UN1479, PGIII					
c.	NonRCRA Material, Liquid, Non Hazardous (Decon Water)					029L
d.	NonRCRA Material, Solid, Non Hazardous (Sodium Sulfate, Iron Oxide and debris)					

J. Additional Descriptions for Materials Listed Above
clinCRA
A) App# 031297HY, ERG#171, also contains cadmium, copper, &Zn.
B) App# 031397HO, ERG#140, clinF&G
C) App# 031397HR, clinL
D) App# 031397HS, clinD&E
CHO185-P01003

K. Handling Codes for Wastes Listed Above
A-D) X
a/ 1
b/ 1
c/ 1
d/ 1

15. Special Handling Instructions and Additional Information
In case of emergency call 1 800 228 [illegible]
Mail C of D to CHO, Inc. 5803 Rolling RD, Suite 213, Springfield, VA 22152

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Dennis Matlock
Signature: Matlock OSC for U.S. EPA
Date (Month Day Year): 03 25 97

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Dave Barber
Signature: Dave Barber
Date (Month Day Year): 03 25 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date (Month Day Year):

19. Discrepancy Indication Space
APR 7 - 1997

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [illegible]
Signature:
Date (Month Day Year): 03 26 97

GENERATOR / TRANSPORTER / FACILITY

AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE ... MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICH 1-800-424-8802 24 HOURS PER DAY. ALL SPILLS ... CENTE.

EPA Form 8700-22 (Rev. 9/88)

AR100082

PR 5110 Rev. 5/95

GENERATOR 2nd COPY

SURCHARGE EXEMPTION CERTIFICATION

49350 N. I-94 Service Drive Belleville MI 48111 Phone: (800) 592-5489 Fax: (800) 592-5329

Please check one: ☒ Michigan Disposal Waste Treatment Plant ☐ Wayne Disposal, Inc.

This is a certification pursuant to Section 11108(3) of Act 451 of 1994 (the Hazardous Waste Management Act) that the hazardous waste identified herein is exempt from the surcharge provided in the Act.

WASTE TYPE: Decon Water

WASTE DESCRIPTION: Non RCRA

QUANTITY AND UNITS: 1 dm

MANIFEST NUMBER: MI 4640771 IIC

This shipment is exempt from the surcharge because the waste is:

_____ Ash from incineration of hazardous and nonhazardous waste.

_____ Hazardous waste exempted by MDEQ rule making action.

__X__ Hazardous waste removed from a contaminated site listed pursuant to Section 6 of Act 307 or hazardous waste that is removed as part of a site clean-up activity at the expense of the state or federal government.

_____ Solidified hazardous waste produced by a solidification facility in Michigan and licensed under Act 64.

_____ Hazardous waste generated by a one time closure or site cleanup activity in Michigan authorized by the Director of the MDEQ.

_____ Solids from an aggressive biological treatment facility

_____ Emission control dust or sludge from the primary production of steel in electrical furnaces.

Signature D. Matlock Company Name U.S. EPA

Printed Name Dennis Matlock Date 3-25-97

SURCHARGE EXEMPTION CERTIFICATION

49350 N. I-94 Service Drive Belleville MI 48111 Phone: (800) 592-5489 Fax: (800) 592-5329

Please check one: ☒ Michigan Disposal Waste Treatment Plant ☐ Wayne Disposal, Inc.

This is a certification pursuant to Section 11108(3) of Act 451 of 1994 (the Hazardous Waste Management Act) that the hazardous waste identified herein is exempt from the surcharge provided in the Act.

WASTE TYPE: Oxidizing Solid

WASTE DESCRIPTION: Magnesium Dioxide, Aluminum Oxide

QUANTITY AND UNITS: 282 dms

MANIFEST NUMBER: MI 4407711 11B

This shipment is exempt from the surcharge because the waste is:

_____ Ash from incineration of hazardous and nonhazardous waste.

_____ Hazardous waste exempted by MDEQ rule making action.

✓ Hazardous waste removed from a contaminated site listed pursuant to Section 6 of Act 307 or hazardous waste that is removed as part of a site clean-up activity at the expense of the state or federal government.

_____ Solidified hazardous waste produced by a solidification facility in Michigan and licensed under Act 64

_____ Hazardous waste generated by a one time closure or site cleanup activity in Michigan authorized by the Director of the MDEQ.

_____ Solids from an aggressive biological treatment facility

_____ Emission control dust or sludge from the primary production of steel in electrical furnaces.

Signature D. Matlock Company Name U.S. EPA

Printed Name Dennis Matlock Date 3-25-97

SURCHARGE EXEMPTION CERTIFICATION

49350 N. I-94 Service Drive Belleville MI 48111 Phone: (800) 592-5489 Fax: (800) 592-5329

Please check one: ☒ Michigan Disposal Waste Treatment Plant ☐ Wayne Disposal, Inc.

This is a certification pursuant to Section 11108(3) of Act 451 of 1994 (the Hazardous Waste Management Act) that the hazardous waste identified herein is exempt from the surcharge provided in the Act.

WASTE TYPE: Non. Haz

WASTE DESCRIPTION: Sodium Sulfate, Iron Oxide & debris

QUANTITY AND UNITS: 10 yds

MANIFEST NUMBER: MI 4640771 IID

This shipment is exempt from the surcharge because the waste is:

_____ Ash from incineration of hazardous and nonhazardous waste.

_____ Hazardous waste exempted by MDEQ rule making action.

_X_ Hazardous waste removed from a contaminated site listed pursuant to Section 6 of Act 307 or hazardous waste that is removed as part of a site clean-up activity at the expense of the state or federal government.

_____ Solidified hazardous waste produced by a solidification facility in Michigan and licensed under Act 64

_____ Hazardous waste generated by a one time closure or site cleanup activity in Michigan authorized by the Director of the MDEQ.

_____ Solids from an aggressive biological treatment facility

_____ Emission control dust or sludge from the primary production of steel in electrical furnaces.

Signature D. Matlock Company Name US EPA Region III

Printed Name Dennis Matlock Date 3-25-97

SURCHARGE EXEMPTION CERTIFICATION

49350 N. I-94 Service Drive Belleville MI 48111 Phone: (800) 592-5489 Fax: (800) 592-5329

Please check one: ☒ Michigan Disposal Waste Treatment Plant ☐ Wayne Disposal, Inc.

This is a certification pursuant to Section 11108(3) of Act 451 of 1994 (the Hazardous Waste Management Act) that the hazardous waste identified herein is exempt from the surcharge provided in the Act.

WASTE TYPE: Lead Contaminated

WASTE DESCRIPTION: Hazardous Waste Solid

QUANTITY AND UNITS: 25 drums

MANIFEST NUMBER: MI 4640771

This shipment is exempt from the surcharge because the waste is:

_____ Ash from incineration of hazardous and nonhazardous waste.

_____ Hazardous waste exempted by MDEQ rule making action.

__✓__ Hazardous waste removed from a contaminated site listed pursuant to Section 6 of Act 307 or hazardous waste that is removed as part of a site clean-up activity at the expense of the state or federal government.

_____ Solidified hazardous waste produced by a solidification facility in Michigan and licensed under Act 64

_____ Hazardous waste generated by a one time closure or site cleanup activity in Michigan authorized by the Director of the MDEQ.

_____ Solids from an aggressive biological treatment facility

_____ Emission control dust or sludge from the primary production of steel in electrical furnaces.

Signature Dennis Matlock Company Name U.S. EPA

Printed Name Dennis Matlock Date 3-25-97

LAND DISPOSAL RESTRICTIONS
NOTIFICATION AND CERTIFICATION FORM

49350 N. I-94 Service Drive Belleville MI 48111 Phone: (800) 592-5489 Fax: (800) 592-5329

Generator Name US EPA Region III Manifest Doc. No. 01003

Generator USEPA ID No. WVP 000006638 State Manifest No. MI 4640771

INSTRUCTIONS

- In Column 1, identify the manifest line item number.
- In Column 2, identify all USEPA hazardous waste codes that apply to this waste shipment in the spaces provided below.
- In Column 3, identify the appropriate Treatability group, Non-Wastewater (NWW), or Wastewater (WW) for each waste code.
- In Column 4, enter the appropriate Subcategory, if applicable, and also enter "Debris" if the waste is debris that will be treated using one of the alternative treatment technologies provided by 268.45.
- In Column 5, reference the appropriate paragraph(s) from Page 2 of this form.
- In Column 6, enter the Reference Number(s) from Table 1 for all regulated constituents associated with F001-F005, F039, D001, D002, and D012-D043. If the waste is a debris, enter the Reference Number(s) from Table 1 of the contaminants subject to treatment. If the waste is a California List waste, complete the boxes below appropriately and identify (in Column 6) the Reference Number(s) of the appropriate California List constituent(s) found in Table 2.

1. MANIF. LINE ITEM #	2. HAZARDOUS WASTE CODE(S)	3. NWW or WW	4. SUBCATEGORY	5. HOW MUST THE WASTE BE MANAGED?	6. REFERENCE NUMBER(S)
11.A	D004, D006 D008, 001D 003D	NWW		A	
11 B	NR	NWW			
11 C	NR	NWW			
11 D	NR	NWW			

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

Generator Signature Dennis Matlock Title OSC

Printed Name Dennis Matlock Date 3-25-97

AR100087

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties, under Sections 324.11151 or 324.12116 MCL.

DNR WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: WVP000006638 Manifest Document No.: 00002
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: c/o Majore Easton
U.S. EPA Region III
303 Methodist Bldg., Wheeling, WV 26003
4. Generator's Phone (304) 234-0251

A. State Manifest Document Number: MI 4640781
B. State Generator's ID: Charlie Creek Rd, Culloden WV

5. Transporter 1 Company Name: Buffalo Fuel Corp
6. US EPA ID Number: NYD051809952
C. State Transporter's ID
D. Transporter's Phone 800-677-8002

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address:
City Environmental, Inc.
1923 Frederick
Detriot, MI 48211
10. US EPA ID Number: MID980991566
G. State Facility's ID
H. Facility's Phone 313-923-0080

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, Waste Oxidizing Solid, n.o.s. (Potassium Dichromate) 5.1, UN1479, PGIII (D001, D007)					P	D001
b. Ammonium Hydrogendifluoride, solid 8, UN1727, PGII					P	
c. Corrosive Solid, Acidic, Inorganic, n.o.s. (fluoride salts) 8, UN3260, PGIII					P	
d.						

J. Additional Descriptions for Materials Listed Above
A) Approval# , ERG#140, add'tl code D007 clinM
B) Approval# , ERG#154, clinM
C) Approval# , ERG#154, clinO

K. Handling Codes for Wastes Listed Above
a/ | b/ | c/ | d/

15. Special Handling Instructions and Additional Information
Please mail C of D to CEO, Inc., 5803 Rolling Rd, Suite 213, Springfield, VA 22152
In case of emergency call

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Thomas Matlock | Signature: T Matlock OSC for U.S. EPA | Date: 03 25 97

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Dave Barber | Signature: Dave Barber | Date: 03 25 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: John Leonard | Signature | Date: 03 26 97

GENERATOR / TRANSPORTER / FACILITY

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICH AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

AR100088

EPA Form 8700-22 (Rev. 9/88) PR 5110 Rev. 5/95

GENERATOR 2nd COPY

DNR . .E MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties, under Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-98

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. W V P 0 0 0 0 0 6 5 3 3 — Manifest Document No. [illegible]

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
U.S. EPA - Region III
303 Methodist Bldg., Wheeling, WV 26003
c/o Marcre Easton

4. Generator's Phone (304) 234-0251

A. State Manifest Document Number: MI 4640777

B. State Generator's ID: Charlie Creek Rd. Callaway WV

5. Transporter 1 Company Name: Buffalo Fuel Corp.

6. US EPA ID Number: N Y D 0 5 1 8 0 9 9 5 2

C. State Transporter's ID

D. Transporter's Phone: 800-677-6000

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
City Environmental, Inc.
1923 Frederick
Detriot, MI 48211

10. US EPA ID Number: M I D 9 8 0 9 9 1 5 6 6

G. State Facility's ID

H. Facility's Phone: 313-929-0000

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a. RQ, Waste Hydrofluoric Acid and Sulfuric Acid Mixture, 8, UN1786, PGII (D002)	001	DM	01500	P	D002	
b. RQ, Waste Hydrofluoric Acid and Sulfuric Acid Mixture, 8, UN1786, PGII (D002)	001	DM	00500	P	D002	
c.						
d.						

J. Additional Descriptions for Materials Listed Above
A) Approval# [illegible] ,ERG#157, cl1a H & J
B) Approval# [illegible] ,ERG#157, cl1a I
CBO885-P01005

K. Handling Codes for Wastes Listed Above: A-B)E

a/ 1
b/ 1
c/ 1
d/ 1

15. Special Handling Instructions and Additional Information
Please send C of D to CEO, Inc.
In case of emergency call [illegible] 5803 Rolling Rd., Suite 213, Springfield, VA2215

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name: Dennis M. Hock — Signature: [signature] — Date: Month 03 Day 25 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Dave Barber — Signature: [signature] — Date: Month 03 Day 25 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: John Conard — Signature: [signature] — Date: Month 03 Day 26 Year 97

ALL SI AUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICH AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER, 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 9/88)

GR100089

PR 5110 Rev. 5/95

GENERATOR 2nd COPY

CITY

HFL

—NOTIFICATION—

UNDERLYING HAZARDOUS CONSTITUENTS

MI 4640777 /11B — MANIFEST NO.

1970320003 — APPROVAL NO.

Circle those constituents reasonably to be expected in the waste at the point of generation.
You must identify whether wastewater or nonwastewater.

UNIVERSAL TREATMENT STANDARDS

Constituent	Waste-water total composition (mg/L)	Nonwaste water total composition (mg/kg)
Acenaphthylene	0.059	3.4
Acenaphthene	0.059	3.4
Acetone	0.28	160
Acetonitrile	5.6	1.8
Acetophenone	0.010	9.7
2-Acetylaminofluorene	0.059	140
Acrolein	0.29	NA
Acrylamide	19	23
Acrylonitrile	0.24	84
Aldrin	0.021	0.066
4-Aminobipheny	10.13	NA
Aniline	0.81	14
Anthracene	0.059	3.4
Aramite	0.36	NA
alpha-BHC	0.00014	0.066
beta-BHC	0.00014	0.066
delta-BHC	0.023	0.066
gamma-BHC	0.0017	0.066
Benzene	0.14	10
Benz(a)anthracene	0.059	3.4
Benzal chloride	0.055	6.0
Benzo(b)fluoranthene (difficult to distinguish from benzo(k)fluoranthene)	0.11	6.8
Benzo(k)fluoranthene (difficult to distinguish from benzo(b)fluoranthene)	0.11	6.8
Benzo(g,h,i)perylene	0.0055	1.8
Benzo(a)pyrene	0.061	3.4
Bromodichloromethane	0.35	15
Methyl bromide (Bromomethane)	0.11	15
4-Bromophenyl phenyl ether	0.055	15
n-Butyl alcohol	5.6	2.6
Butyl benzyl phthalate	0.017	28
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	0.066	2.5
Carbon disulfide	3.8	4.8 mg/l TCLP
Carbon tetrachloride	0.057	6.0
Chlordane (alpha and gamma isomers)	0.0033	0.26
p-Chloroaniline	0.46	16
Chlorobenzene	0.057	6.0

Constituent	Waste-water total composition (mg/L)	Nonwaste water total composition (mg/kg)
Chlorobenzilate	0.10	NA
2-Chloro-1,3-butadiene	0.057	0.28
Chlorodibromomethane	0.057	15
Chloroethane	0.27	6.0
bis(2-Chloroethoxy)methane	0.036	7.2
bis(2-Chloroethyl)ether	0.033	6.0
Chloroform	0.046	6.0
bis(2-Chloroisopropyl)ether	0.055	7.2
p-Chloro-m-cresol	0.018	14
2-Chloroethyl vinyl ether	0.062	NA
Chloromethane (Methyl chloride)	0.19	30
2-Chloronaphthalene	0.055	5.6
2-Chlorophenol	0.044	5.7
3-Chloropropylene	0.036	30
Chrysene	0.059	3.4
o-Cresol	0.11	5.6
m-Cresol (difficult to distinguish from p-cresol)	0.77	5.6
p-Cresol (difficult to distinguish from m-cresol)	0.77	5.6
Cyclohexanone	0.36	0.75 mg/l TCLP
1,2-Dibromo-3-chloropropane	0.11	15
Ethylene dibromide (1,2-Dibromoethane)	0.028	15
Dibromomethane	0.11	15
2,4-D (2,4-Dichlorophenoxyacetic acid)	0.72	10
o.p.'-DDD	0.023	0.087
p.p.'-DDD	0.023	0.087
o.p.'-DDE	0.031	0.087
p.p.'-DDE	0.031	0.087
o.p.'-DDT	0.0039	0.087
o.p.'-DDT	0.0039	0.087
Dibenz(a,h)anthracene	0.055	8.2
Dibenz(a,e)pyrene	0.061	NA
m-Dichlorobenzene	0.036	6.0
o-Dichlorobenzene	0.088	6.0
p-Dichlorobenzene	0.090	6.0
Dichlorodifluoromethane	0.23	7.2
1,1-Dichloroethane	0.059	6.0

FORM B

UNIVERSAL TREATMENT STANDARDS (continued)

Constituent	Wastewater total composition (mg/L)	Nonwastewater total composition (mg/kg)
Phthalic anhydride	0.055	28
Pronamide	0.093	1.5
Pyrene	0.067	8.2
Pyridine	0.014	16
Safrole	0.081	22
Silvex (2,4,5-TP)	0.72	7.9
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	0.72	7.9
1,2,4,5-Tetrachlorobenzene	0.055	14
TCDDs (All Tetrachlorodibenzo-p-dioxins)	0.000063	0.001
TCDFs (All Tetrachlorodibenzofurans)	0.000063	0.001
1,1,1,2-Tetrachloroethane	0.057	6.0
1,1,2,2-Tetrachloroethane	0.057	6.0
Tetrachloroethylene	0.056	6.0
2,3,4,6-Tetrachlorophenol	0.030	7.4
Toluene	0.080	10
Toxaphene	0.0095	2.6
Bromoform (Tribromomethane)	0.63	15
1,2,4-Trichlorobenzene	0.055	19
1,1,1-Trichloroethane	0.054	6.0
1,1,2-Trichloroethane	0.054	6.0
Trichloroethylene	0.054	6.0
Trichloromonofluoromethane	0.020	30
2,4,5-Trichlorophenol	0.18	7.4
2,4,6-Trichlorophenol	0.035	7.4
1,2,3-Trichloropropane	0.85	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.057	30
tris-(2,3-Dibromopropyl) phosphate	0.11	0.10
Vinyl chloride	0.27	6.0
Xylenes-mixed isomers (sum of o-,m-, and p-xylene concentrations)	0.32	30
Antimony	1.9	2.1 mg/l TCLP
Arsenic	1.4	5.0 mg/l TCLP
Barium	1.2	7.6 mg/l TCLP
Beryllium	0.82	0.014 mg/l TCLP
Cadmium	0.69	0.19 mg/l TCLP
Chromium (Total)	2.77	0.86 mg/l TCLP
Cyanides (Total)[a]	1.2	590
Cyanides (Amenable)[a]	0.86	30
Fluoride	35	NA
Lead	0.69	0.37 mg/l TCLP
Mercury - Nonwastewater from Retort	NA	0.20 mg/l TCLP
Mercury - All Others	0.15	0.025 mg/l TCLP
Nickel	3.98	5.0 mg/l TCLP
Selenium	0.82	0.16 mg/l TCLP
Silver	0.43	0.30 mg/l TCLP
Sulfide	14	NA
Thallium	1.4	0.078 mg/l TCLP
Vanadium	4.3	0.23 mg/l TCLP
Zinc[a]	2.61	5.3 mg/l TCLP

☒ None of the above hazardous constituents are reasonably to be expected in the waste listed in Form A.

Wastewaters are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS), with the following exceptions:

(1) *F001, F002, F003, F004, F005, wastewaters* are solvent-water mixtures that contain less than 1% by weight TOC or less than 1% by weight total F001, F002, F003, F004, F005 solvent constituents listed in § 268.41, Table CCWE.

(2) *K011, K013, K014 wastewaters* contain less than 5% by weight TOC and less than 1% by weight TSS, as generated.

(3) *K103 and K104 wastewaters* contain less than 4% by weight TOC and less than 1% by weight TSS.

[a]Both Cyanides (Total) and Cyanides (Amenable) for nonwastewaters are to be analyzed using Method 9010 or 9012, found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA Publication SW-846, as incorporated by reference in 40 CFR 260.11, with a sample size of 10 grams and a distillation time of one hour and 15 minutes.

D. Matlock OSC for USEPA — Signature

3-25-97 — Date

FORM B

CITY

City Environmental, Inc.
1923 Frederick Street
Detroit, MI 48211
(313) 923-0080
(313) 923-0217 (FAX)

<NOTICE>

FROM GENERATOR FOR WASTES THAT DO NOT MEET LAND DISPOSAL TREATMENT STANDARDS

The wastes identified on manifest number MI 4640777 and bearing the EPA Hazardous Waste Number(s) D002 are subject to the land disposal restrictions of 40 CFR Part 268. The wastes do not meet the treatment standards specified in Part 268 Subpart D or do not meet the prohibitions specified in 268.32 or RCRA section 3004(d). The treatment standards or prohibition levels applicable to each waste are identified below:

(Check all boxes that apply.)

- ☐ This shipment includes F001-F005 spent solvents, as identified on the attached sheet. (3)
- ☐ This shipment includes F039 multi-source leachate, as identified on the attached sheet(s). (4)
- ☒ This shipment includes D001 (5) and/or D002 wastes prohibited under §268.37, as identified below. (1)
- ☐ This shipment includes RCRA Section 3004(d) California list wastes, as identified on the attached sheet. (2)
- ☐ This shipment includes one or more TC metals D004-D011 identified below.
- ☐ This shipment includes one or more TC organics D012-D043 identified below. (1)

Hazardous Waste No.	Subcategory(6)	Treatability group(7)	CFR reference for treatment standard	Five-letter code(s)
D002		NWW	268.40	DEACT

(1) Must include form B (UTS)
(2) Must include form C (California list)
(3) Must include form D (F001-F005)
(4) Must include form E (F039)
(5) Subcategory for D001 reference by letter A & B.
(A) Ignitable wastes based on 40 CFR 261.21 (except for 261.21 (a) (1) high TOC subcategory, managed in Non-CWA / Non-CWA equivalent / Non Class I SDWA Systems. L 10% to C.
(B) Ignitable wastes base on 40 CFR 261.21 (except for 261.21 (a) (1) high TOC subcategory), managed in CWA / CWA equivalent / Class I SDWA Systems. L 10% to C.
(6) Subcategory (if any) can be determined from 40 CFR 268, subpart D.
(7) Treatability group is either "wastewater" or "nonwastewater."

D Mattock OSC for US EPA

Authorized Signature

FORM A

SURCHARGE EXEMPTION CERTIFICATION

This certification is pursuant to Section 324.11108(4) of Michigan's Natural Resources and Environmental Protection Act, 1994 PA 451 (Act 451).

WASTE TYPE: Acidic
WASTE DESCRIPTION: Hydrofluoric & Sulfuric Acid
QUANTITY AND UNITS: 6[illegible] lbs
MANIFEST NUMBER: MI 4640777

The following hazardous waste is exempt from the fees provided for in this section:

__ **Ash that results from the incineration of hazardous waste or the incineration of solid waste as defined in part 115.**

__ **Hazardous waste exempted by rule because of its character or the treatment it has received.**

X **Hazardous waste that is removed from a site of environmental contamination that is included in a list submitted to the legislature pursuant to section 20105, or hazardous waste that is removed as part of a site cleanup activity at the expense of the state or federal government.**

__ **Solidified hazardous waste produced by a solidification facility licensed pursuant to section 11123 and destined for land disposal.**

__ **Hazardous waste generated pursuant to a 1-time closure or site cleanup activity in this state if the closure or cleanup activity has been authorized in writing by the department. Hazardous waste resulting from the cleanup of inadvertent releases which occur after March 30, 1988 is not exempt from the fee.**

__ **Primary and secondary wastewater treatment solids from a wastewater treatment plant that includes an aggressive biological treatment facility as defined in section 3005(j)(12)(B) of subtitle C of the solid waste disposal act, 42 U.S.C. 6925.**

__ **Emission control dust or sludge from the primary production of steel in electric furnaces.**

3-25-97
Date

D Matlock OSC for USEPA
Signature

AMERICAN LANDFILL, INC. MAHONING LANDFILL, INC.

EAST LIVERPOOL LANDFILL, INC.

SUBSIDIARIES OF AMERICAN WASTE SERVICES, INC.

ONE AMERICAN WAY • WARREN, OHIO • 44484-5555 • (216) 856-8800

** PLEASE NOTE AREA CODE CHANGE (330) 898-8800 EFFECTIVE MARCH 9, 1996

NON-HAZARDOUS WASTE MANIFEST DOCUMENT NO. 378089

THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME	ADDRESS	WASTE I.D. NUMBER
USEPA REGION III SLOAN GLASS	CHARLIE CREEK ROAD	19320
	CULLODEN, WV 25510	P.O. NUMBER
	CITY STATE ZIP	

NAME OR DESCRIPTION OF WASTE(S) SHIPPED
PERSONAL PROTECTIVE EQUIP, TRASH, PLASTIC & DEBRIS

COMMENTS 8 CUBIC YARD BOXES

IN CASE OF AN EMERGENCY OR SPILL, CONTACT	NAME	PHONE NO.	24 HR. EMERGENCY NO.
	JOHN TIMMER	(330) 533-9841	(216) 467-2885
	MARJORIE EASTON	(304) 234-0251	(304) 234-0251

Hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR'S SIGNATURE D. Matlakos for US. EPA DATE 3-25-97

THIS SECTION TO BE COMPLETED BY THE HAULER/TRANSPORTER:

COMPANY NAME	ADDRESS	PHONE NO.
BUFFALO FUEL CORP	1470 Allen Ave Niagara Falls NY	1(809) 672-8002

VEHICLE I.D. NO.	STATE	BOX NUMBER-IN	BOX NUMBER-OUT	JOB NO.
PW 1240	NY	B022		

Hereby certify that the above described waste(s) were accepted for transportation at the producer's site for delivery to the waste facility. Both as listed hereupon.

PRINT DRIVER'S NAME Dave Barber DRIVER'S SIGNATURE Dave Barber DATE 3-25-97

THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL FACILITY:

FACILITY NAME	ADDRESS	PHONE NO.
AMERICAN LANDFILL, INC.	7916 CHAPEL STREET S.E. WAYNESBURG, OH 44688	(330) 866-3265

COMMENTS

Hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE DATE

QUANTITY TO BE DETERMINED AT DISPOSAL FACILITY

GENERATOR - COPY 1

SEE LANDFILL RULES AND REGULATIONS ON BACK

GENERATOR: Copies 1 & 6 AWS INVOICING DEPT: Copies 2 & 3 DISPOSAL FACILITY: Copy 4 HAULER: Copy 5

AR100094

PRESS FIRMLY YOU ARE MAKING 6 COPIES

AMERICAN LANDFILL, INC. **MAHONING LANDFILL, INC.**

EAST LIVERPOOL LANDFILL, INC.

SUBSIDIARIES OF AMERICAN WASTE SERVICES, INC.

ONE AMERICAN WAY • WARREN, OHIO • 44484-5555 • (216) 856-8800
** PLEASE NOTE AREA CODE CHANGE (330) 856-8800 EFFECTIVE MARCH 9,1996

NON-HAZARDOUS WASTE MANIFEST

DOCUMENT NO. 378088

THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME	ADDRESS	WASTE I.D. NUMBER
USEPA REGION III SLOAN GLASS	CHARLIE CREEK ROAD	19309
	CULLODEN, WV 25510 (CITY / STATE / ZIP)	P.O. NUMBER

NAME OR DESCRIPTION OF WASTE(S) SHIPPED
ASBESTOS CONTAINING WASTE MATERIAL

COMMENTS 2 CUBIC YARD BOXES

	NAME	PHONE NO.	24 HR. EMERGENCY NO.
IN CASE OF AN EMERGENCY OR SPILL, CONTACT	JOHN TIMMER	(330) 533-9841	(216) 467-2885
	MARJORIE EASTON	(304) 234-0251	(304) 234-0251

I hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR'S SIGNATURE D. Matlock ose for U.S EPA

DATE 3-25-97

THIS SECTION TO BE COMPLETED BY THE HAULER/TRANSPORTER:

COMPANY NAME	ADDRESS	PHONE NO.
Buffalo Fuel Corp.	1470 Allen Ave Niagra Falls	( ) -

VEHICLE I.D. NO.	STATE	BOX NUMBER-IN	BOX NUMBER-OUT	JOB NO.
PW 1240-NY	NY	8022		

I Hereby certify that the above described waste(s) were accepted for transportation at the producer's site for delivery to the waste facility. Both as listed hereupon.

PRINT DRIVER'S NAME Dave Barber

DRIVER'S SIGNATURE Dave Barber

DATE 3/25/97

THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL FACILITY:

FACILITY NAME	ADDRESS	PHONE NO.
AMERICAN LANDFILL, INC.	7916 CHAPEL STREET S.E. WAYNESBURG, OH 44688	(330) 866-3265

COMMENTS

I Hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

DATE

QUANTITY TO BE DETERMINED AT DISPOSAL FACILITY

GENERATOR - COPY 1

SEE LANDFILL RULES AND REGULATIONS ON BACK

GENERATOR: Copies 1 & 6 AWS INVOICING DEPT: Copies 2 & 3 DISPOSAL FACILITY: Copy 4 HAULER: Copy 5

AR100095

REGULATED ASBESTOS MATERIAL: EPA WASTE SHIPMENT RECORD
R.Q., Asbestos, 9, NA2212, PG. III

GENERATOR

1. Work site name and mailing address
SLOAN GLASS
US EPA Region III
Charlie Creek Road
Culloden WV 25510

Owner's name
US EPA Region III

Owner's telephone number
304-234-0251

2. Operator's name and address
US EPA Region III
303 Methodist Building
Wheeling WV, 26003

Operator's telephone number
304-234-0251

3. Waste disposal site (WDS) name, mailing address, and physical site location
EAST Liverpool LANDFILL, Inc
One American Way
WARREN OH 44484

WDS phone number
216-856-8800

4. Name and address of responsible agency (Local, District or EPA Office where notification was sent)
US EPA Region III
303 Methodist Building
Wheeling WV 26003

5. Description of materials	6. Containers Number	6. Containers Type	7. Total quantity cubic meters or cubic yards
RQ, Asbestos, 9, NA2212 PG III	[redacted]		
Asbestos		Cubic Yd Box	

8. Special handling instructions and additional information
In Emergency call 1800 228-SPIL ERG- 171

9. OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Printed/typed Name	Title	Signature	Date (M/DD/YY)
Dennis Matlock	OSC	D Matlock for U.S. EPA	3-25-97

TRANSPORTER

10. Transporter 1 (Acknowledgement of receipt of materials)
Address and telephone no.

Printed/typed Name	Title	Signature	Date (M/DD/YY)
Buffalo Fuel Corp.	Driver	Dave Barber	

11. Transporter 2 (Acknowledgement of receipt of materials)
Address and telephone no.

Printed/typed Name	Title	Signature	Date (M/DD/YY)

WASTE SITE

12. Discrepancy indication space

13. Waste disposal site owner or operator. Certification of receipt of asbestos materials covered by this manifest except as noted in item

Printed/typed Name	Title	Signature	Date (M/DD/YY)

PMS/ASBESTOS

OhioEPA Waste Shipment Record Revised 12/1/90 in accordance with 40 CFR 61.149(e)

AR100096

Mr. John Wakin
American Landfill, Inc.
One American Way
Warren, OH 44484-5555

Dear sir,

As the representative for the EPA Region III on the Sloan Glass Site in Colluden, WV, Earth Tech, Inc., (ETI) has determined that the permit status of American Landfill, Inc., located in Region V at 7916 Chapol Street, SE, Waynesburg, OH 44688 (Ohio EPA Facility #76-00-08) authorizes receipt of the wastes (listed below) for landfill disposal. The wastes being shipped are:

1. Personal Protective Equipment (PPE), trash, plastic, debris
2. Asbestos

All waste being shipped are nonhazardous according to RCRA regulations. Earth Tech contacted the Ohio Division of Emergency Remedial Response to inform them of this shipment. Any additional questions or requests for information should be forwarded to Michael Kinder, Earth Tech, at (804) 358-5858.

Signatures:

EARTH TECH Representative:

Name: Michael Kinder Signature: _____ Date: 3/24/97

EPA Representative:

Name: Dennis Matlock Signature: D Matlock Date: 3/25/97

APPENDIX F
PHOTOS

DATE: 25 October 1996

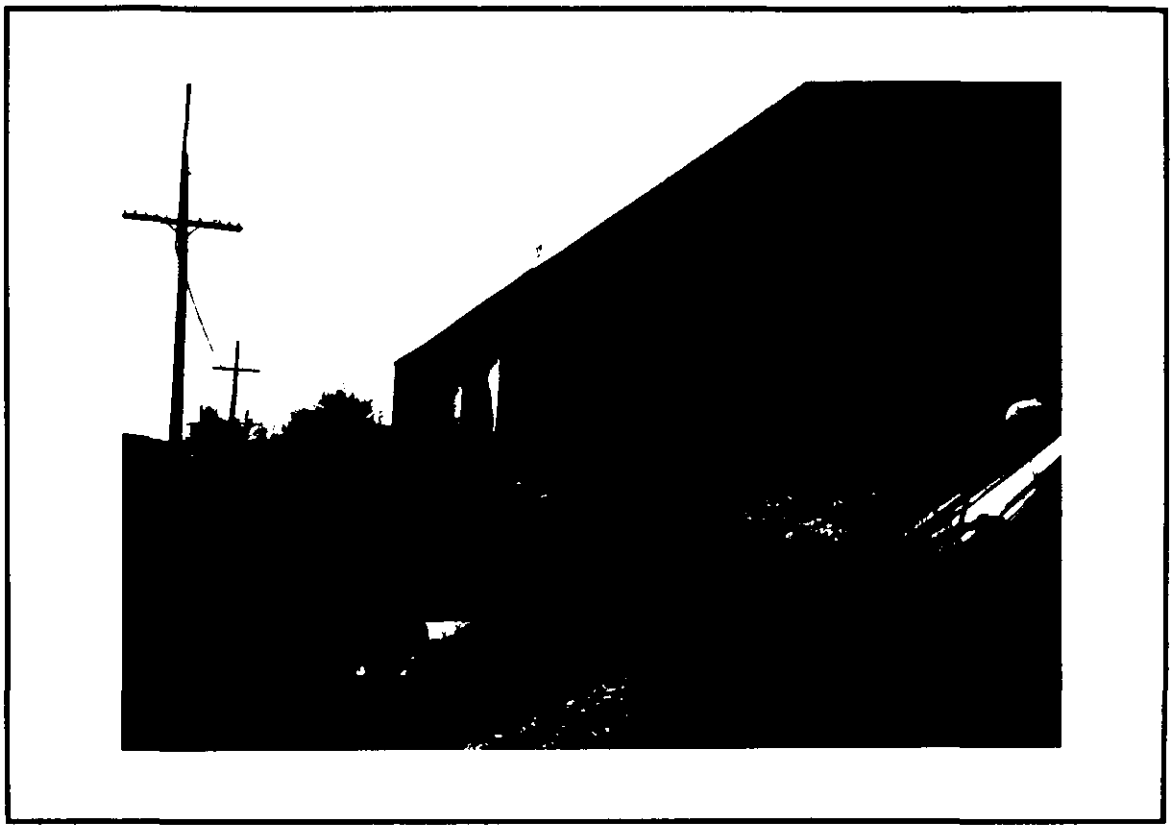
PHOTO BY: Region III SATA

DESCRIPTION: Photo shows the entrance to the site.

DATE: 25 October 1996

PHOTO BY: Region III SATA

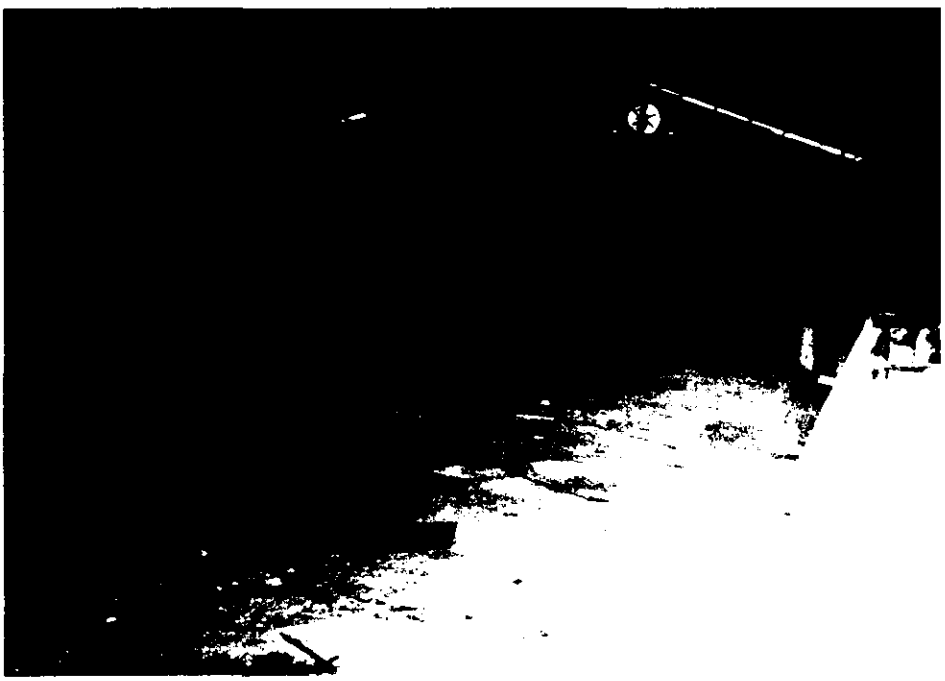
DESCRIPTION: Photo shows a cemetery and several residences close to the site.



DATE: 25 October 1996

PHOTO BY: Region III SATA

DESCRIPTION: Photo shows a discharge pipe leading away from the building.



DATE: 25 October 1996

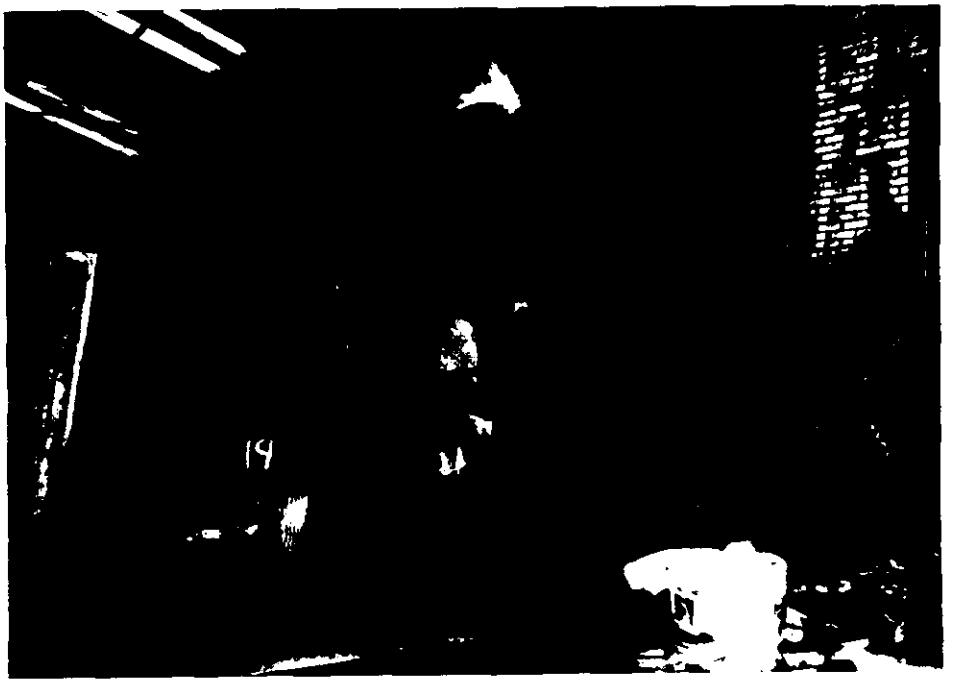
PHOTO BY: Region III SATA

DESCRIPTION: Photo shows a room inside the building where several drums and loose powder are located.

DATE: 25 October 1996

PHOTO BY: Region III SATA

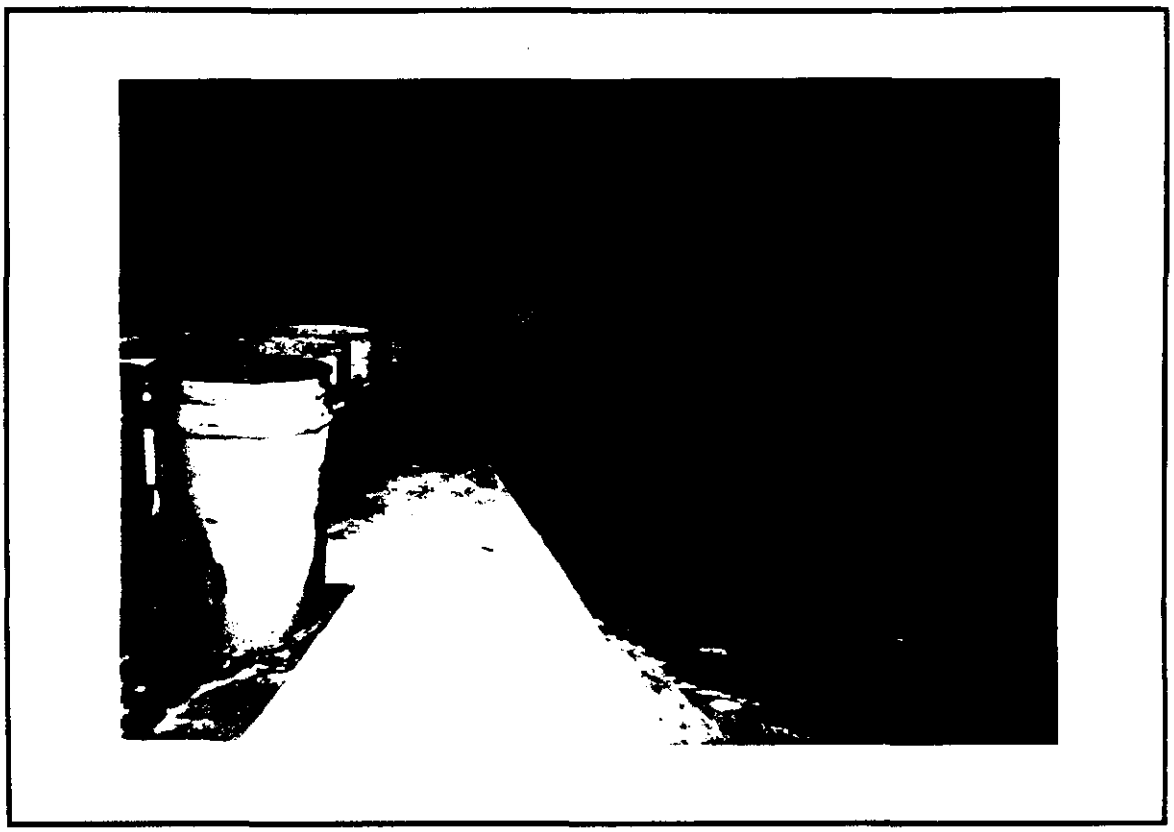
DESCRIPTION: Photo shows piles of powder on the floor inside the building.



DATE: 25 October 1996

PHOTO BY: Region III SATA

DESCRIPTION: Photo shows kneeling ovens used to temper the glass.



DATE: 25 October 1996

PHOTO BY: Region III SATA

DESCRIPTION: Photo shows a mixer and several empty drums off to the side.

DATE: 25 October 1996

PHOTO BY: Region III SATA

DESCRIPTION: Photo shows a locked cage where two poly drums of hydrofluoric acid and several metals are stored.

DATE: 25 October 1996

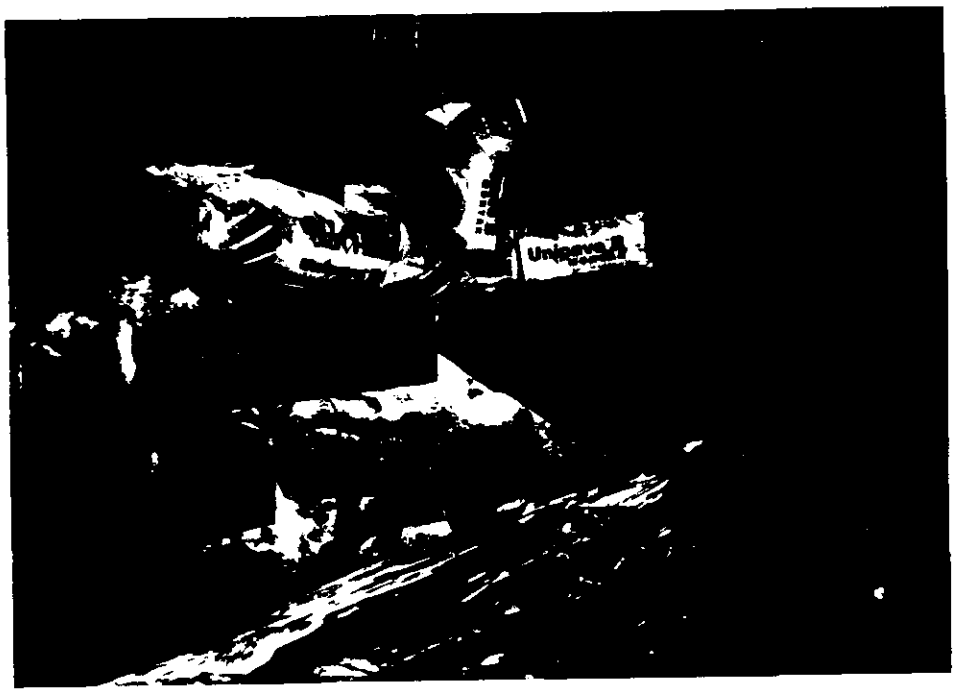
PHOTO BY: Region III SATA

DESCRIPTION: Photo shows various fiber board drums. One drum is labeled as lithium chloride and another drum is labeled as "frosting mixture".

DATE: 25 October 1996

PHOTO BY: Region III SATA

DESCRIPTION: Photo shows the boxed containers of the ammonium hydrogen fluoride powder.



DATE: 25 October 1996

PHOTO BY: Region III SATA

DESCRIPTION: Photo shows several bags labeled as calcined alumina and mortar.

DATE: 25 October 1996

PHOTO BY: Region III SATA

DESCRIPTION: Photo shows three containers of chemicals located in a storage room. Two of these containers are labeled as black nickel oxide and letharge.

DATE: 30 October 1996

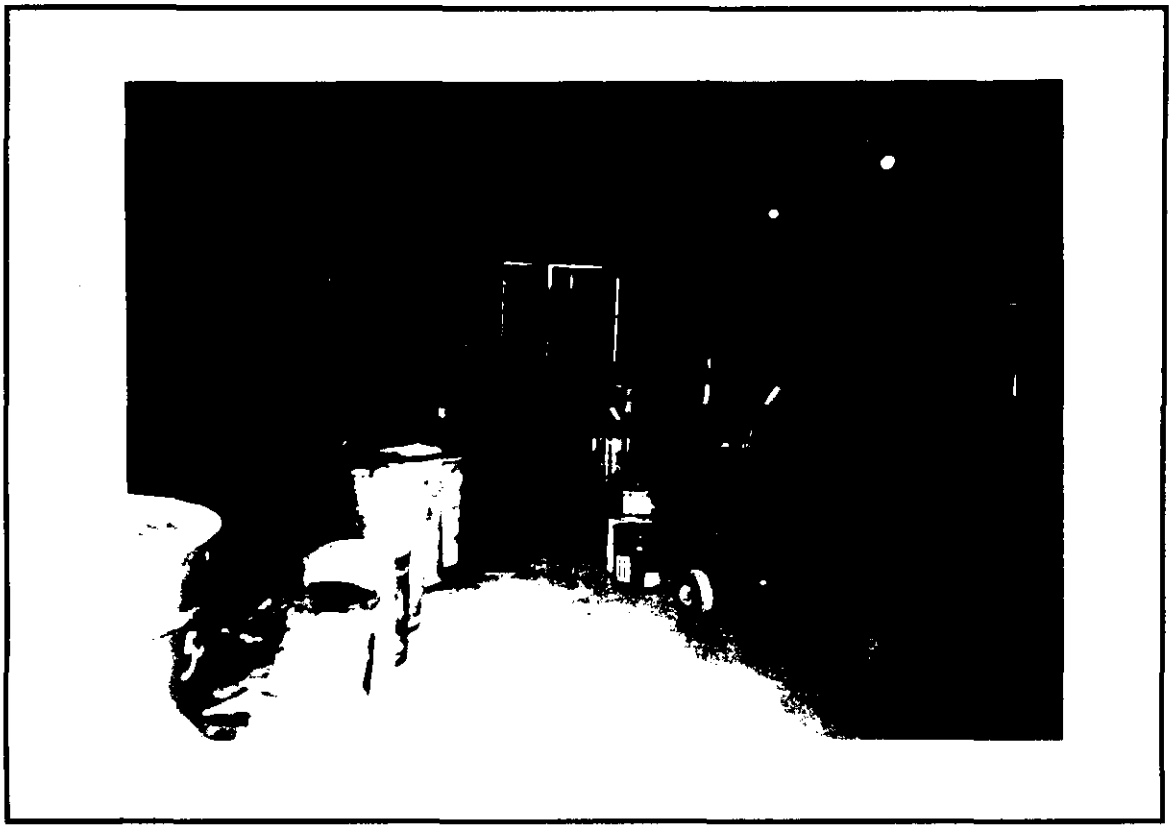
PHOTO BY: Region III SATA

DESCRIPTION: Photo shows SATA member conducting hazard categorization activities on hydrofluoric acid contained in a 55-gallon poly drum.

DATE: 10 December 1996

PHOTO BY: Region III SATA

DESCRIPTION: Photo shows rusting empty drums piled outside of the building.



DATE: 10 December 1996

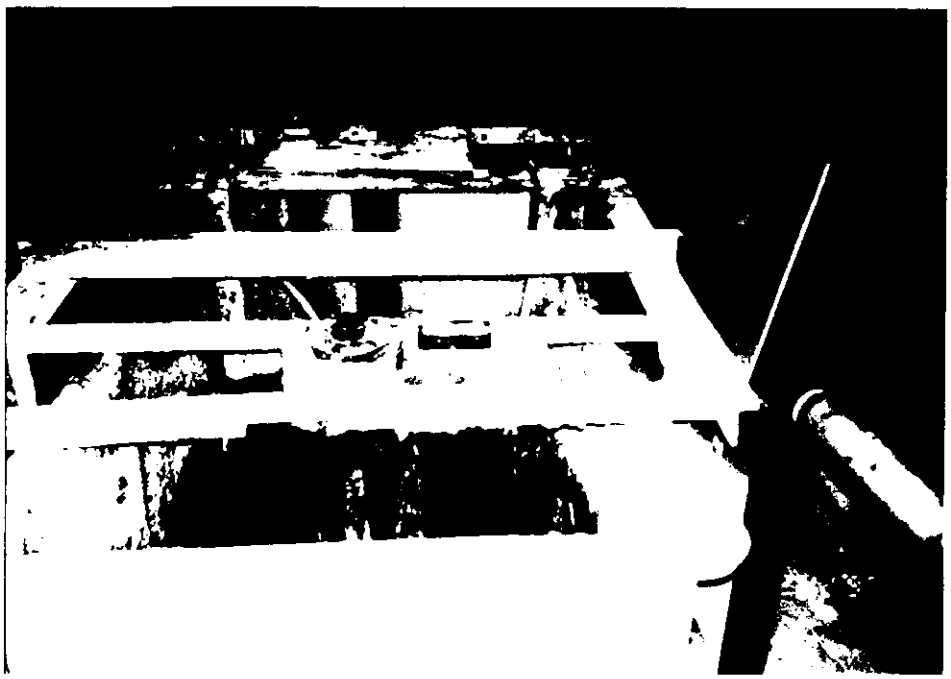
PHOTO BY: Region III SATA

DESCRIPTION: Photo shows all of the chemical containers found onsite staged in Area #5.

DATE: 10 December 1996

PHOTO BY: Region III SATA

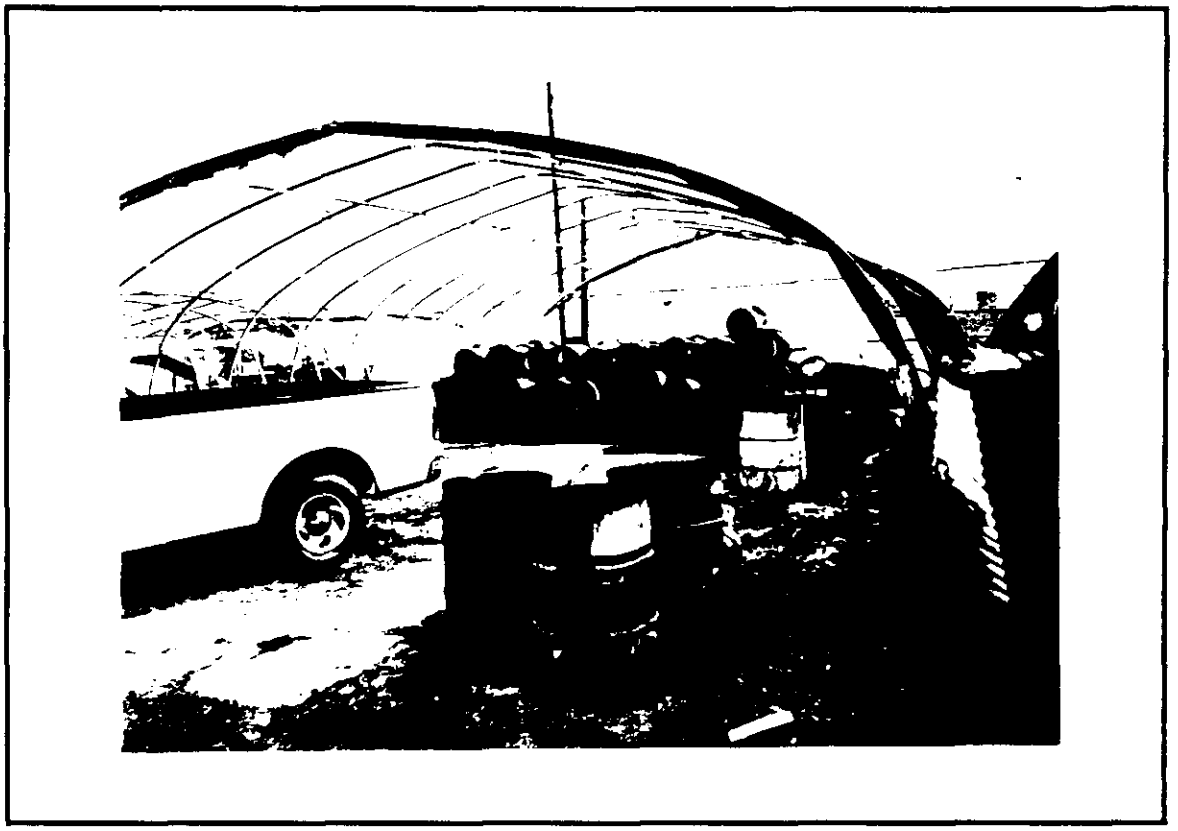
DESCRIPTION: Photo shows two small metal containers of refractory mortar emitting low levels of radiation staged in a corner of the building.



DATE: 12 December 1996

PHOTO BY: Region III SATA

DESCRIPTION: Photo shows acid vat located inside the building.



DATE: 14 December 1996

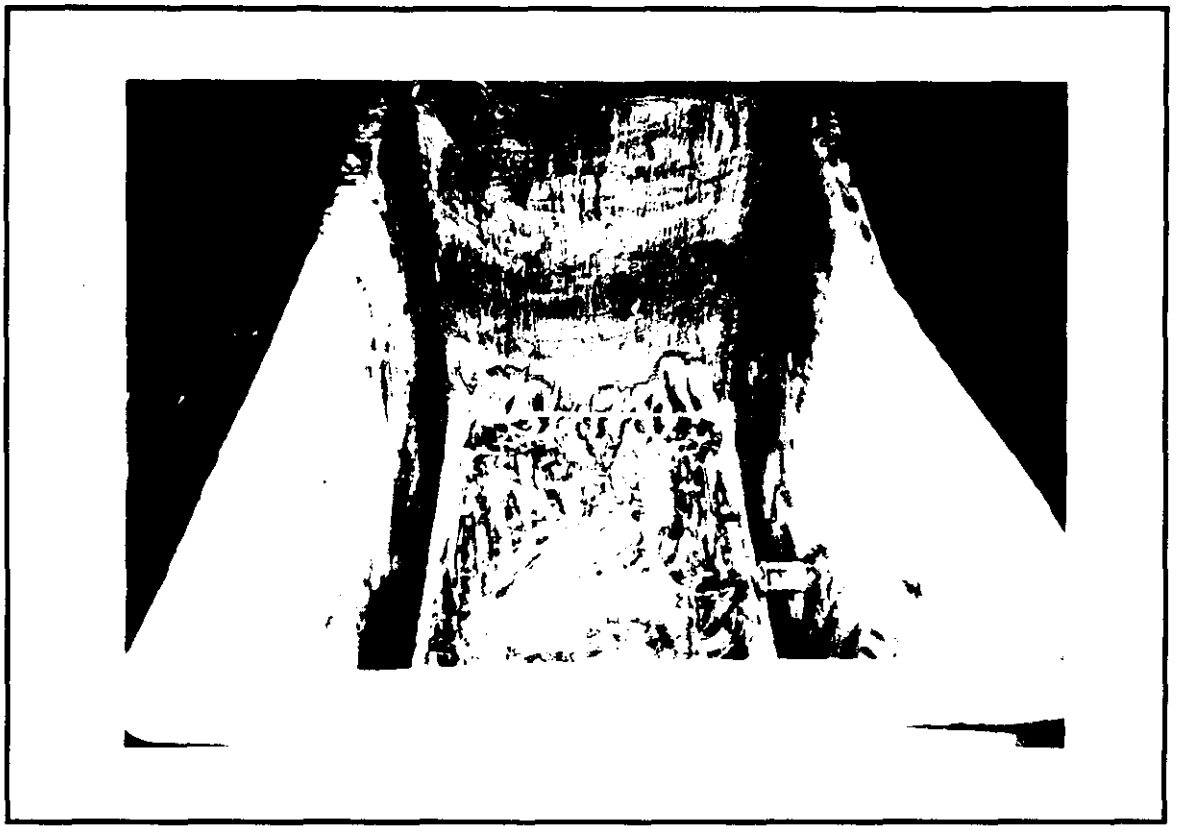
PHOTO BY: Region III SATA

DESCRIPTION: Photo shows staged empty drums.

DATE: 16 December 1996

PHOTO BY: Region III SATA

DESCRIPTION: Photo shows a backhoe crushing the empty drum.



DATE: 19 December 1996

PHOTO BY: Region III SATA

DESCRIPTION: Photo shows cleaned out acid vat.

DATE: 09 January 1997

PHOTO BY: Region III SATA

DESCRIPTION: Photo shows the staged chemicals located in Area #5. ERCS personnel prepare to sample the containaers for hazard categorization.

DATE: 10 January 1997

PHOTO BY: Region III SATA

DESCRIPTION: Photo shows SATA and an ERCS chemist conducting hazard categorization activities.

DATE: 23 January 1997

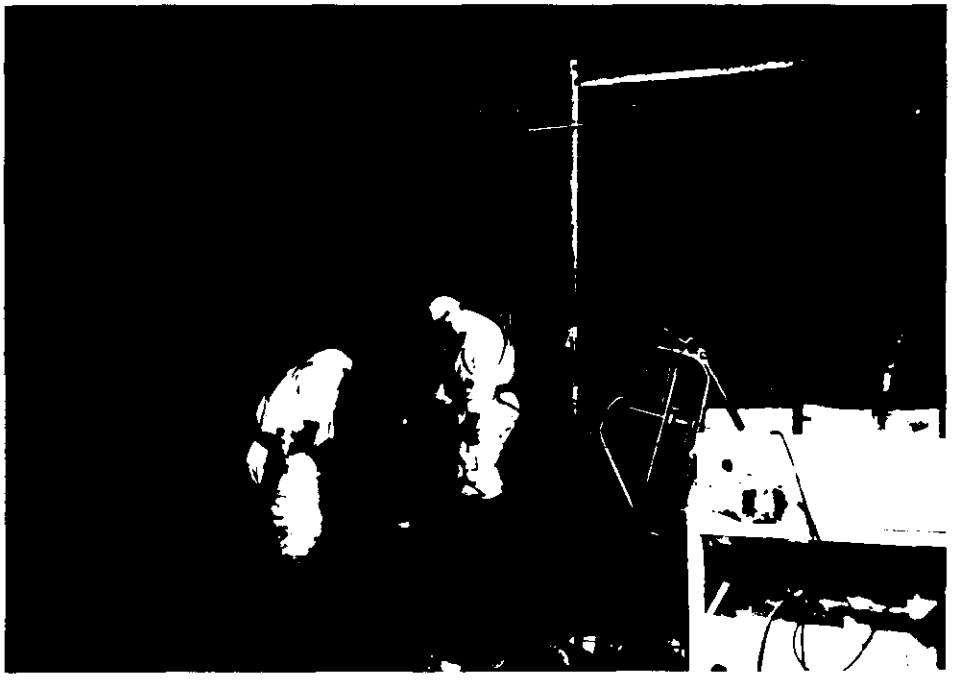
PHOTO BY: Region III SATA

DESCRIPTION: Photo shows all of the cut up metal and fiber drums staged outside of the building.

DATE: 18 January 1997

PHOTO BY: Region III SATA

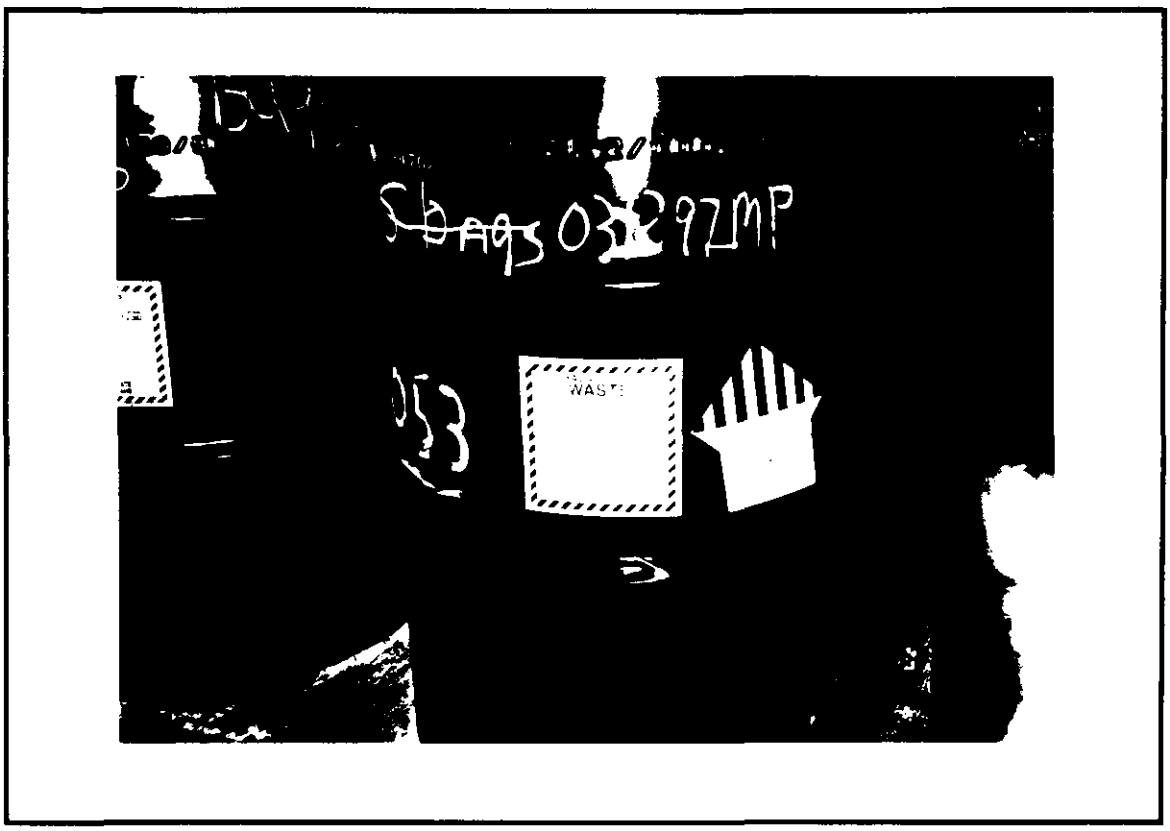
DESCRIPTION: Photo shows ERCS personnel overpacking chemicals into their final shipping containers.



DATE: 17 January 1997

PHOTO BY: Region III SATA

DESCRIPTION: Photo shows ERCS personnel conducting the small container crush.



DATE: 25 March 1997

PHOTO BY: Region III SATA

DESCRIPTION: Photo shows the hazardous waste labeling on the overpack drums.

DATE: 25 March 1997

PHOTO BY: Region III SATA

DESCRIPTION: Photo shows ERCS loading the overpack drums into the tractor trailer for transportation and disposal.

DATE: 25 March 1997

PHOTO BY: Region III SATA

DESCRIPTION: Photo shows cubic yard boxes containing PPE and trash.

DATE: 25 March 1997

PHOTO BY: Region III SATA

DESCRIPTION: Photo shows SATA collecting a surface soil sample adjacent to the building.