# PRELIMINARY RCRA FACILITY ASSESSMENT CORNING INCORPORATED FALLBROOK PLANT

Work Assignment: R02040 (Ref. No.: 1-635-393)

Prepared for:
U.S. Environmental Protection Agency

Contract: 68-W9-0003



## formerly Alliance Technologies Corporation

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December 3, 1993

TRC Environmental Control of the Pro-

Mr. Paul Counterman, P.E. Chief, Bureau of Western Hazardous Waste Programs Division of Hazardous Waste Remediation New York State Department of Environmental Conservation 50 Wolf Road Albany, NY 12233

Reference:

Contract No. 68-W9-0003, TES-6

Work Assignment No. R02040

Preliminary RCRA Facility Assessment SULLS MEDULATION

New York State (Ref. 1-635-393)

Subject:

Deliverable: Preliminary RCRA Facility Assessment for Corning Incorporated - Falibrook Plant - EPA ID No. NYD000824425

Dear Mr. Counterman:

At the request of the U.S. Environmental Protection Agency, enclosed for your review is one copy of the Preliminary RCRA Facility Assessment Report for the above referenced facility. Comments and additional information should be submitted to Mr. John G. Nevius, U.S. EPA Work Assignment Manager. Due to contractual requirements between EPA and TRC, it is requested that your review be submitted by January 15, 1994. Any efforts by NYSDEC to meet this date would be greatly appreciated.

Mr. Nevius' address is as follows:

Mr. John G. Nevius Work Assignment Manager U.S. Environmental Protection Agency Air and Waste Management Branch (2AWM-HWF-Room 1037)26 Federal Plaza New York, NY 10278

Questions concerning this submission should be directed to Mr. Nevius at (212) 246-9578.

Very truly yours,

Michael F. Clark, P.E.

John G. Nevius/EPA Work Assignment Manager (w/o) Douglas Sullivan/TRC TES-6 Regional Manager (w/o) Dixon Rollins/Region 8-Hazardous Substance Engineer (w) TES ZPMO

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## PRELIMINARY RCRA FACILITY ASSESSMENT CORNING INCORPORATED FALLBROOK PLANT CORNING, NEW YORK

#### Prepared for

U.S. ENVIRONMENTAL PROTECTION AGENCY
Air and Waste Management Division
26 Federal Plaza
New York, New York 10278

Work Assignment No.: R02040

EPA Region:

EPA Site/Facility I.D. No.: NYD000824425

Contract No.: 68-W9-0003 (TES-6)

TRC Document No.: NY-R40.R29

TRC Project No.: 1-635-393-3-2000-0

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Date Prepared: November 29, 1993

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#### 1.0 INTRODUCTION

TRC Environmental Corporation (TRC - formerly Alliance Technologies Corporation) was requested by the U.S. Environmental Protection Agency (EPA) under EPA Contract No. 68-W9-0003 (TES-6), Work Assignment No. R02040, to perform a Preliminary RCRA Facility Assessment (RFA) of the Corning Incorporated - Fallbrook Plant, Corning, New York (EPA I.D. No. NYD000824425). Tasks were performed in accordance with the Preliminary RFA Scope of Work provided by EPA on June 8, 1993, and TRC's Work Plan, dated July 14, 1993.

The purpose of the Preliminary RFA is to identify, gather information on, and evaluate the potential for releases to the environment from areas of concern (AOCs), including solid waste management units (SWMUs), hazardous waste management units (HWMUs), and areas where releases may have occurred in the past. In addition, the Preliminary RFA will provide information for EPA use in the ranking of this facility using the National Corrective Action Prioritization System (NCAPS).

Background information for this Preliminary RFA Report was obtained through file searches conducted at the New York State Department of Environmental Conservation (NYSDEC), Albany, New York, Bureau of Hazardous Waste Facility Compliance, Bureau of Wastewater Facilities Design, and the Bureau of Air Application, Review and Permitting. TRC conducted a Visual Site Inspection (VSI) on September 29, 1993.

#### 2.0 FACILITY DESCRIPTION

The Fallbrook Plant is located on Tioga Avenue, in the Town of Corning, New York. The facility primarily manufactures glass tubing used in products such as television sets, lighting accessories and thermometers.

The Fallbrook Plant is located between Steuben Street on the southeast border, and Tioga Avenue, on the southwest border. It is adjacent to the Corning Vitro Corporation Pressware Plant and the Chemung River flows northeasterly along the facility's northern property border. Figure 1 presents the Site Location Map. The surrounding area is zoned industrial/commercial and is characterized as urban. Across Tioga Avenue is a library and two apartment buildings. Two schools and associated school fields are located across the river (TRC, 1993).

TRC identified eight (8) AOCs during the file review and the VSI. These areas, including their spacial location, containment features, years of use, stored and release status, are described below and are summarized in Table 1. A Corrective Action Prior to Loss of Interim Status (CAPT LOIS) Inspection was conducted in 1989. Several SWMUs were identified during this inspection (CDM, 1990). During TRC's VSI,

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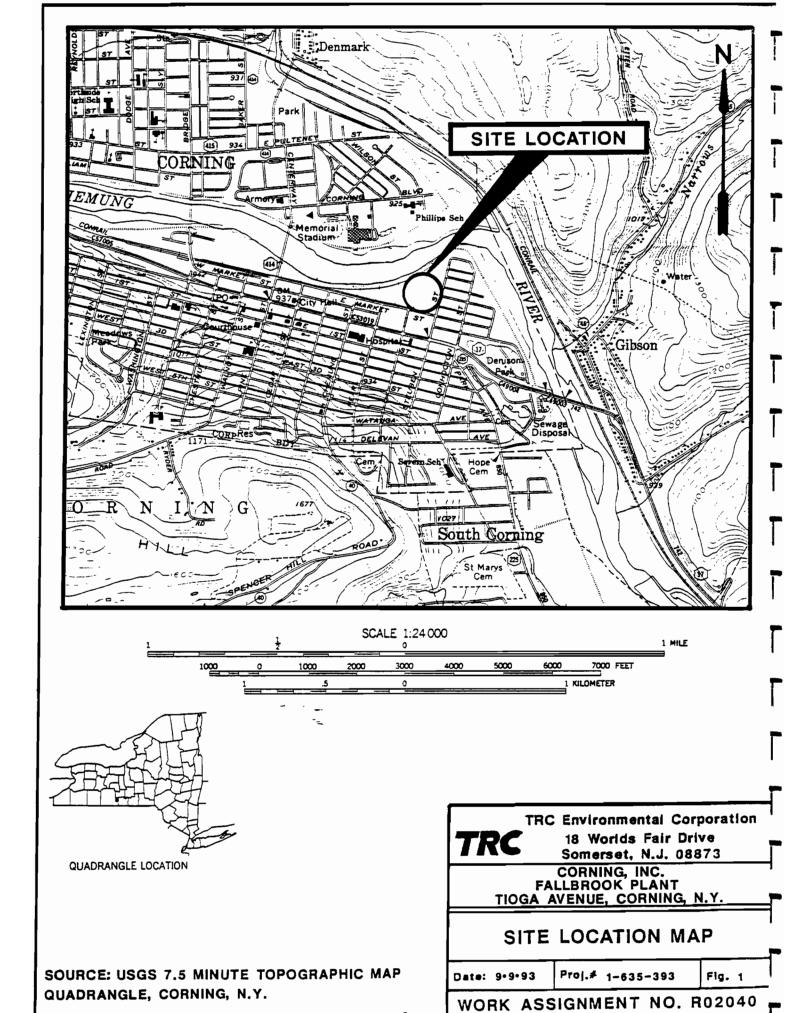


	TABLE 1. AREAS OF CONCERN								
	AOC No.	Area of Concern (AOC)	AOC Description	Operation Dates	Release Status	Reference	Medium/ Compound Detected	Off-site Migration Potential	
	1	Hazardous Materials Pen (HWMU, SWMU #1)	30' x 40' outdoor pen west of facility is bermed and surrounded by a fence.	1980-present	potential release	CDM, 1990 TRC, 1993	none	unknown; several cracks in concrete floor	
	2	Former Drum Storage Area	Asphalt pad has no containment and several cracks and holes in floor.	unknown- 1990	potential release	TRC, 1993	soils; arsenic 13-26 ppm cadmium 0.62-6.6 ppm lead 130-1800 ppm 1,1,1-TCA 16-1200 ppb	unknown; extent of soil contamination not known	
$\checkmark$	3	Former Underground Storage Tanks	3 USTs were located north of plant; area is now a concrete pad.	unknown- 1980's	potential release	TRC, 1993	none	unknown; removal not documented	
./	4	Waste Water Treatment Plant Sludge Storage Area (HWMU, SWMU #3)	Adjacent to WWTP. Roll-off-containing hazardous sludge.	1980-present	no release	CDM, 1990 TRC, 1993	none	low; wastes well contained	
V	5	Hazardous Waste Accumulation Pad (HWMU, SWMU #2)	Roll-off stored on 20' x 30' concrete pad.	1980-1990 1991-present	potential release	CDM, 1990 TRC, 1993	wipe samples; lead 1.7-8.7 mg/wipe	unknown; residual lead contamination on pad	
	6	Electrostatic Precipitators	Located in a small building adjacent to northern wall of plant.	1972-present	potential release	TRC, 1993	none	unknown	
<i>\lambda</i>	7	Baghouse Dust Collector	Located in a small building adjacent to northern wall of plant.	1992-present	potential release	TRC, 1993	none	unknown	
	8	Paint Shop Accumulation Area	Located in basement near eastern corner	unknown- present	no release	TRC, 1993	none	low; wastes well contained.	

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these SWMUs were verified. The Site Sketch (Figure 2) illustrates the relative locations of the AOCs.

AOC #1, Hazardous Materials Pen (identified as SWMU #1 in the CAPT LOIS report), is located outdoors near the property boundary, northwest of the Fallbrook Plant. The area is approximately 30 feet by 40 feet and is surrounded by a locked fence. The capacity of the pen is 144 55-gallon drums. Drums are placed on pallets and are covered by a shed roof, but are still exposed to weather since there are no walls and little overhang. The floor is concrete and has a 6 inch asphalt berm. Observations during the VSI and the CAPT LOIS inspection conducted in 1989 revealed that the floor was cracked. A metal shed inside the area stores spill control equipment. Overpack salvage drums were also stored here (TRC, 1993; CDM, 1990).

The Hazardous Materials Pen has been used since 1980 to store both virgin hazardous materials and hazardous wastes. Virgin materials stored in this area during TRC's VSI included caustic soda, muriatic acid and acetone (TRC, 1993). It was noted during the VSI that two incompatible substances, caustic soda and muriatic acid, were stored directly next to each other. Waste materials are stored for less than 90 days. No evidence of release was observed during the VSI and Corning personnel did not know of any releases (TRC, 1993).

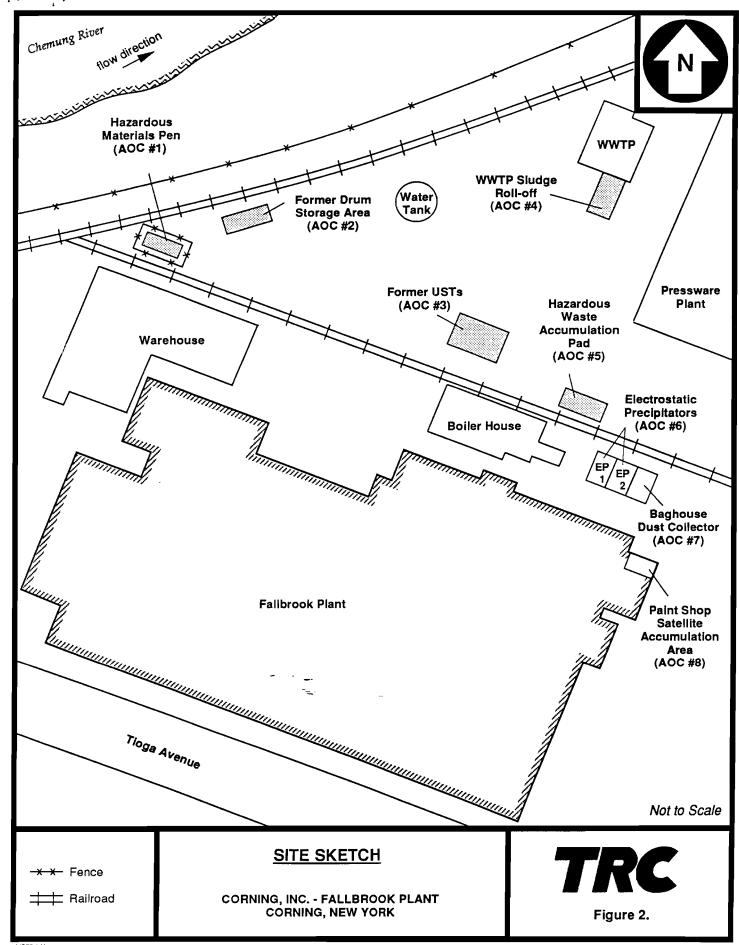
AOC #2, Former Drum Storage Area, is adjacent to the northern border of the Fallbrook Plant property. The area has not been used since 1987 and went through closure in 1990. Except for a cinderblock wall on the northern side, the drum storage area did not have any other containment features. The floor of the storage area was made of asphalt, and its integrity was reduced due to several cracks and small holes. There were no provisions for storm water drainage, therefore all storm water collected is in a low point just outside the pad. While the storage area was being used, a maximum of thirty 55-gallon drums were stored on wooden pallets, never more than two drums high (Corning, 1990). During the VSI, TRC confirmed that no hazardous wastes are presently stored in this area. No releases were documented in the available files, however, the presence of contaminants in the soils indicates that a release may have occurred.

AOC #3 includes three former underground storage tanks (USTs), which were located just north of the Fallbrook Plant. The three tanks were removed in the 1980s and were inspected by the NYSDEC at the time of removal. A concrete pad has been constructed where the tanks were once located. Other information regarding the size, type, material stored and integrity was not available. No information was found regarding these tanks in the preliminary file review (TRC, 1993).

AOC #4, Wastewater Treatment Plant Sludge Storage Area (identified as SWMU #3 in the CAPT LOIS report), is a covered roll-off hopper located adjacent to the waste water treatment plant (WWTP). This sludge storage area has been active since 1980.

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All facility wastewater flows through floor drains in the manufacturing plant to the WWTP. Little information was available regarding the layout of the floor drain system. Waste waters treated by the WWTP are contaminated with lead from diamond cutting operations. Therefore, sludge generated from the waste water treatment process is considered hazardous due to its lead content.

The waste water treatment plant was built in two phases. Plant #1 was constructed in the 1970s and Plant #2 in the 1980s. All facility waste water, except sanitary and diode water, in initially treated Plant #2. Sludge then goes to Plant #1, where it is dewatered to approximately 35 percent solids using rotary vacuum filters. The dewatered sludge is then placed in the hazardous waste roll-off. The sludge is transported off site for hazardous waste disposal. Storage is less than 90 days (CDM, 1990; TRC, 1993).

AOC #5, Hazardous Waste Accumulation Pad (identified as SWMU #2 in the CAPT LOIS report), is a concrete pad with dimensions of 20 feet by 30 feet. AOC #5 has been active since 1980 and went through the closure process in 1990. It was reopened in 1991 as a less than 90 day hazardous waste accumulation pad. A covered, roll-off hopper filled with lead contaminated hazardous waste was stored on the pad at the time of the VSI. The pad is surrounded on three sides by a ditch, approximately 12 to 15 inches deep, which prevents run-off to the concrete pad onto the surrounding area.

The fourth side of the pad is adjacent to an asphalt strip which slopes up to a concrete wall, thus eliminating the need for a fourth trench (CDM, 1990; TRC, 1993).

During TRC's VSI, wastes stored in the roll-off included lead glass sweepings and cuttings as well as contaminated bricks and other debris from repairs to the lead glass melting tanks. No releases were evident at the time of this inspection and Corning Inc. personnel did not report any spills or releases (TRC, 1993).

AOC #6 includes two Electrostatic Precipitators (EP-1 and EP-2), which are located in a building adjacent to the north-eastern wall of the main plant. The electrostatic precipitators were installed in 1972 and each abates particulate emissions from separate glass melting tanks. EP-1 services a hot glass tank that mainly produces leaded glass, while EP-2 services a non-leaded glass tank. The precipitators pelletize the captured particulates. These pellets are temporarily stored in the EP building and are then reused in the glass making process. Both electrostatic precipitators exhaust to the same stack which is regulated under a NYSDEC air permit (TRC, 1993).

AOC #7, Baghouse Dust Collector, is located in a building adjacent to the Electrostatic Precipatators. The baghouse was installed in 1992. Particulates are collected in flex bags which are stored on wooden pallets in the baghouse building. The collected particulates are hazardous depending on the type of glass being made. When the dusts are considered hazardous, they are stored in the baghouse building

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until there are enough bags to fill a roll-off hopper or until 90 days, which ever comes first (TRC, 1993).

AOC #8, Paint Shop Accumulation Area, is located in the basement of the Fallbrook Plant. The area is adjacent to the outside wall, near the eastern corner of the plant. The paint shop is fully enclosed with a concrete floor. During the VSI, TRC observed a 55-gallon hazardous waste drum containing rags contaminated with paint and mineral spirits. Paint was stored in a cabinet. There was no evidence to indicate that a release had occurred (TRC, 1993).

#### 3.0 FACILITY ACTIVITY/HISTORY

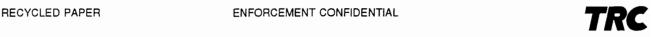
The main manufacturing building at the Fallbrook Plant was built in 1938 on the site of the Fallbrook Railyard. The present Fallbrook computer operations center was originally built as the Fallbrook Railyard office in 1893. The plant currently employs approximately 400 people.

The facility produces glass tubing used in television sets, lighting accessories and thermometers. Types of glass tubing manufactured include silica glass, lead glass and glass which contains small amounts of arsenic. The glass batch raw materials are melted in either a cold crown or hot crown vermeil tank. These tanks are lined with refractory bricks which eventually degrade and require replacement. The glass tubing is manufactured using the Vello process. Air is blown through molten glass at the bottom of the tank to form a tube. This tube of hot glass is drawn by a tractor device along the length of the plant floor. While the tubing travels towards the end of the plant floor, it passes through an annealing oven for strengthening. By the time the tubing has reached the end of the line, it is cool enough to be cut to size. The glass tubes then go through various physical finishing processes such as fire polishing or shaping. Some of the glass is ground and sold as a powder (TRC, 1993).

Hazardous wastes generated at the Fallbrook Plant include:

- waste leaded glass from cutting processes;
- tank debris including contaminated refractory bricks from tank maintenance or decommissioning;
- particulates accumulated by the air quality control devices;
- sludge contaminated by lead and other metals generated by the waste water treatment plant; and
- wastes generated by the paint shop (TRC, 1993).

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These wastes can be characterized as ignitable (D001), corrosive (D002), EP toxic (barium and lead), and arsenic oxide (P012) wastes (CDM, 1990).

In November 1980, Corning Inc. submitted a RCRA Part A Application to New York State Department of Environmental Conservation (NYSDEC) to operate as a Treatment, Storage or Disposal Facility (TSDF) (SBG, 1991).

In 1984, Corning began the process of reclassifying the Fallbrook Plant as a generator only. Revised/updated closure plans were submitted to NYSDEC in September 1984, November 1984 and October 1990. Formal approval of the closure plan was received by Corning Inc. in October, 1990 (SBG, 1991). The closure plan was implemented in early December 1990. On October 20, 1992, NYSDEC received the independent professional engineer's certification of RCRA closure for the facility. At this time, NYSDEC terminated Corning's authority to operate a as Treatment, Storage, and Disposal Facility (TSDF) at the Fallbrook Plant (NYSDEC, 1992).

Two areas of concern, AOC #2 and AOC #5 went through closure in December 1990. A discussion of closure activities and analytical results of samples taken during the closure is presented below. Analytical results for the closure samples are provided in Appendix B.

The Former Drum Storage Area (AOC #2) went through closure in December of 1990 and was officially closed in 1991. The asphalt storage area was cleaned with high pressure hot water which was vacuumed into drums. After cleaning, three wipe samples from the floor of the storage area and two asphalt chip samples were collected. Additionally, four soil samples were collected from areas where cracks in the asphalt floor were noted. Background soil sample and a rinse water sample were also collected (SBG, 1991).

Analytical results from the AOC #2 wipe samples were generally considered to be acceptable. Concentrations of metals (arsenic, cadmium and lead) in the asphalt chip samples were also acceptable since they were at or below concentrations detected in the background soil sample. All four soil samples contained quantifiable amounts of arsenic, cadmium, lead and 1,1,1-trichloroethane (1,1,1-TCA). Arsenic and cadmium concentrations ranged from 13 to 26 ppm, and 0.62 ppm to 6.6 ppm, respectively. These concentrations were not of concern since they were not significantly higher than concentrations found in natural soils. Both lead and 1,1,1-TCA were identified in all soil samples at elevated levels. The 1,1,1-TCA results ranged from 16 to 1,200 ppb while the lead results ranged from 130 to 1,800 ppm (SBG, 1991).

TCLP analyses for three of the four soil samples indicated lead leachate concentrations that were below the 5 ppm action level. The sample area that failed the TCLP lead test was determined to be a "hot spot." An area centered at the sampling location measuring eight feet by eight feet and one foot deep was subsequently excavated. A

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further sample was collected from the bottom of the excavation. TCLP analyses of this sample revealed an acceptable lead leachate concentration of 2.9 ppm (SBG, 1991).

On December 11, 1990 a post closure inspection was performed by a NYSDEC representative. The inspection form dated November 7, 1991 did not cite the elevated lead and 1,1,1-TCA contamination detected in the soils (NYSDEC, 1991).

The Hazardous Waste Pad (AOC #5) also went through the closure process in December of 1990. The pad and the trenches surrounding it were cleared of debris and washed with high pressure hot water. Three wipe samples were collected from the pad and analyzed for arsenic, barium, cadmium, chromium, lead and selenium. Wipe sample concentrations of less than 1 mg/wipe were detected for all analytes except lead which ranged from 1.7 mg/wipe to 8.7 mg/wipe. The closure report stated that the lead wipe concentrations were not of concern because the lead would be bound by the concrete matrix of the pad (SBG, 1991). Despite the relatively high lead wipe sample results, NYSDEC declared the pad clean closed.

The Fallbrook Plant discharges waste water under SPDES permit number NY0003981 which will remain in effect until 1998. This permit is shared with the adjacent Pressware Plant and allows for effluent to be discharged to the Chemung River via Outfalls 002 and 003. The waste water treatment plant discharges approximately one million gallons per day of waste water to Outfall 003. Only non-contact cooling water from the Pressware Plant is discharged to Outfall 002. Parameters tested monthly include: temperature, pH, metals, oil and grease, total suspended solids, biological oxygen demand (BOD), and 1,1,1-trichloroethane. The permit allows discharges of up to 1.2 lb/day for lead, and 0.01 lb/day for cadmium. Copper, aluminum, iron, are also tested monthly. Metals tested quarterly include magnesium, manganese, nickel, zinc and boron. The existing SPDES permit was modified in 1990 to include effluent limits for chromium and manganese (NYSDEC, 1990b). The state had filed a consent order in 1985 with the facility regarding lead exceedences on a continual basis. Although arsenic is used in processes at the plant, the SPDES permit does not require arsenic to be tested.

The Fallbrook Plant has 29 air permits with NYSDEC (Corning, 1993). Most of these permits regulate particulate emissions from the plant. As discussed above, the Fallbrook Plant has three air quality control devices; two electrostatic precipitators and one baghouse dust collector. Depending on the type of glass being made, these abatement devices remove particulates which contain lead and/or arsenic. No information regarding air permit exceedences was found during the file review.

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#### 4.0 ENVIRONMENTAL SETTING

A well exists on site for process water; however, the facility receives its drinking water from the municipal water supply. The nearest drinking water well is 300 feet from the facility although its exact location was not provided in available files. The facility is not located over a single source aquifer and the distance to the Chemung River, the nearest surface water body, is 50 feet. This water is classified as class "C", recreational. The plant does not lie within the 100 year floodplain (Corning, 1987).

The facility has always been connected to the town sewer system for the disposal of sanitary waste. All process waste water flows through floor drains to the waste water treatment plant (TRC, 1993).

#### 5.0 PRELIMINARY EVALUATION

Information regarding the eight AOCs identified through the file review and VSI is summarized in Table 1, AOC Summary. The summary checklists are provided in Appendix A, analytical results are presented in Appendix B and closure documentation is presented in Appendix C.

The Hazardous Materials Pen (AOC #1) is currently used as the hazardous waste accumulation area for the Fallbrook Plant. During the VSI, several cracks were observed in the concrete floor of the bermed pen. These cracks were also observed during the CAPT LOIS inspection during 1989. These cracks provide a potential migration pathway for released contaminants.

High levels of lead and 1,1,1-TCA were detected in soil samples collected during closure of the Former Drum Storage Area (AOC #2). An eight feet by eight feet by one foot area was subsequently excavated. TCLP lead results from a sample collected at the bottom of the excavation were determined to be acceptable and no further action was performed. However, the extent of lead and 1,1,1-TCA contamination in soils was not determined. Additionally, no ground water samples were collected at this location. Although there is no history of spills in this area, the presence of contamination in the soil cannot rule out the probability of a release.

Three USTs were removed from the location designated as AOC #3. Documentation regarding the tank removal is not available. These tanks were removed prior to the current regulation; therefore, any releases to the environment from the USTs is unknown.

A roll-off containing lead contaminated sludge is located in the Waste Water Treatment Plant Sludge Storage Area (AOC #4). The roll-off is covered and the hazardous waste appears to be well contained.

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The Hazardous Waste Pad (AOC #5) was clean closed in 1990 and reopened shortly afterwards. Although wipe samples collected during the closure provided evidence of some residual lead contamination, the pad was declared clean closed by NYSDEC. Currently, a roll-off containing hazardous lead contaminated solid waste is stored on the pad. The roll-off is covered and the wastes appear to be well contained.

One of the two electrostatic precipitators (AOC #6) services a hot glass tank that produces leaded glass. Therefore, emissions of lead contaminated particulates to the environment are possible depending on the removal efficiency of the control device.

The baghouse dust collector (AOC #7) accumulates particulates from glass melting tanks. The particulates collected are considered hazardous depending on the type of glass being manufactured. Emissions of hazardous constituents from the baghouse are possible depending on the removal efficiency.

Hazardous wastes observed at the Paint Shop Accumulation Area (AOC #8) appeared to be well contained. There were no signs of release from this AOC.

#### 6.0 SUMMARY

The Fallbrook Plant manufactures glass tubing that is used in products such as televisions, lighting fixtures and thermometers. The main raw material used in the manufacturing process is sand which may contain lead or arsenic oxide, depending on the type of glass being made. Wastes generated in the manufacturing process include waste leaded glass, contaminated tank debris, contaminated dust from air control devices, and contaminated sludge from the waste water treatment plant.

The Hazardous Materials Pen (AOC #1) is currently used as the hazardous waste accumulation area for the Fallbrook Plant. There are several cracks in the concrete floor which may provide a potential migration pathway for released contaminants.

Soil samples collected during closure of the Former Drum Storage Area (AOC #2) indicated concentrations of lead and 1,1,1-TCA that were well above background levels. An area of eight feet by eight feet by one foot deep was excavated and no further action was performed. The extent of lead and 1,1,1-TCA contamination in soils and ground water in the vicinity of AOC #2 is not known since no additional soil or ground water samples have been collected.

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#### REFERENCES

CDM, 1990. CAPT LOIS Report prepared by Versar, Inc., from Pam Hillis, CDM Federal Corporation, to Margaret Emile, U.S. EPA, December 13, 1990.

Corning, 1984. Letter from J.L. Cherill, Corning, Inc., to G.W. Heitzman, NYSDEC. re: Fallbrook Closure Plan Submittal. July 3, 1984.

Corning Inc., 1987. Certification of Answers to Request for Information Regarding Solid Waste Management Units prepared by Norman E. Garrity, Corning Inc., Sr. Vice President, for U.S. EPA, Region II, March 11, 1987.

Corning, 1990. Closure Plan for Fallbrook Plant Revised August 1990.

Corning, 1993. Letter to TRC Environmental from Karen Gross enclosing information requested during site inspection October 11, 1993.

NYSDEC, 1983. Letter from Conrad Simon, NYSDEC, to George McClaren, Corning Glassworks, re: Part B application. November 14, 1983.

NYSDEC, 1984. Letter from John L. Middlekoop, NYSDEC, to Robert Perry, Corning, Inc. re: Reclassification to a Generator Status. September 27, 1984.

NYSDEC, 1985. Letter from Paul J. D'Amato, NYSDEC, to John L. Cherill, Corning Inc., re: Consent Order of SPDES exceedances. July 3, 1985.

NYSDEC, 1990a. NYSDEC Inspection Form prepared by Darshan R. Patel, Asst. Chemical Engineer, for NYSDEC, Division of Hazardous Waste Substances Regulation, June 20, 1990.

NYSDEC, 1990b. Letter from Jane Schmidt, NYSDEC, to Joseph F. Kane, Corning Inc., re: SPDES permit modification. November 28, 1990.

NYSDEC, 1991. NYSDEC Inspection form performed by Joseph Gavin, Environmental Engineer, for NYSDEC, Division of Hazardous Waste Regulation, November 11, 1991.

NYSDEC, 1992. Letter from Salvatore J. Carlomango, NYSDEC, Bureau of Hazardous Waste Regulation, to Karen Gross Corning, Sr. Environmental Control Engineer, re: Closure of Corning Inc., Fallbrook Facility. -October 20, 1992.

NYSDEC, 1993. Letter to Ms. Karen Gross, Corning Inc., from Jane Schmitt, NYSDEC. re: SPDES permit. July 29, 1993.

Sear-Brown Group, 1991. Partial Closure Certification prepared by Sear-Brown Group for Corning Inc., June 1991.

TRC, 1993. Logbook for Visual Site Inspection. Completed by C. Fortin, TRC Environmental Corporation. September 29, 1993.

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#### APPENDIX A

### COMPLETED PRELIMINARY REVIEW CHECKLIST

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#### PRELIMINARY RCRA FACILTY ASSESSMENT

#### PRELIMINARY REVIEW CHECKLIST

#### WORK ASSIGNMENT NO. R02040

#### KEY

P PROVIDED

NP NOT PROVIDED

A ACCEPTABLE

NA NOT ACCEPTABLE

Y YES

N NO

OR OBSERVED RELEASE (DIRECT EVIDENCE)

SR SUSPECTED RELEASE (INDIRECT EVIDENCE)

POR POTENTIAL RELEASE (POSSIBLE FOR A RELEASE TO OCCUR)

NR NO RELEASE HAS OCCURRED (DIRECT EVIDENCE)

SWMU SOLID WASTE MANAGEMENT UNIT

AOC AREA OF CONCERN

RFA	COMPONENT 1: PRELIMINARY REVIEW (PR)
A.	General Manufacturing process description: P NP A NA
	Comments: Facility produces glass tubing the tellusions, lighting accessives diado and and ombies devices.  The action moves by which the listed in produced us not provided.
В.	General Facility waste generation description: P NP A NA
	comments: Hamandino wastes generated unclinde hamitable (D001), consider (D0:2) EP Texic OBarins and lead) and assence of a variety (PC:Z). The process by which the dister are all marted in mot all interest.
c.	Environmental/hydrogeologic setting description: P NP A NA
	comments: ifone undiration of this unformation no provided in an EPA Checkbot dated 3tul87. I toneur, no mapo or detailed physical alexangetion are available.
D.	SWMU identification list: P NP A NA
	Comments: unformation Oceanion FRA checking 3/11/87
E.	Was the SWMU subset of RCRA regulated units denoted?YNANA
	Comments:
F.	Were other AOC's (e.g. spills, leaks) listed? Y N A NA
	Comments:
G.	Were potential off-site exposure pathways identified? (e.g. drinking water wells, irrigated farmland, swamps) Y N A NA
	Nearest dinking water provide is within 300 ft. Ref. EPA Chellest

н.	Deta	iled SV	MU or AOC information:
	SWMU	#	or ADC Drum Dtorage Arex
	1.		ne unit located on a facility map? Y N A NA
	ilu	und 1	Active some 1980 for interact of Tool and Dooz raste. This has was clised land part of the
	2.		characteristics (e.g. design, liners, age, construction): NANA
	_land	110 7	30 c 40 A concrete peculed with sencing and having the country in surrounded by a climical beam. The
	pai	undn	t is cracked A most when the chea contains copill
	3.	Waste	characteristics (e.g. types, volumes, classification): NANA
	Pen	CAPT	Doo! a Dooz waster (ing itable and concours). Love 12/13/90 only Zahund were there continuing waster uneral equits. Comme wood cated 2-3 was the diverses.
			migration pathways: Copocity = 144-55 gallon boulelo.
		a.	Air:CRSRPoRNR
			i. Is documentation provided?YN
			ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)?YN
			Comments:
		b.	Soil: CRSRPORNR
			i. Is documentation provided?YN
			ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)?YN
		c.	comments: The construent was Crarked in this one- per 12/90. Capt loss report. There was no revidence of any opulls. Fir Ciosure Certification 6/91 december levels thead new detected in the work and consequently achon now Ground water: _CR _SR _POR _NR taken. The ison?
			i. Is documentation provided?YN were removed.
			ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)?YN
			comments: Per Clasine Centification (19) the port

	d.	Surface water:CRSRPoRNR
		i. Is documentation provided?YN
		ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)? Y N
		Comments: AND Was Barrans on the total
		San Donat Charles of the Control of
	e.	Subsurface gas:CRSRPORNR
		i. Is documentation provided?YN
		ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)?YN
		Comments:
5.	Concl	usions/Recommendations:
	a.	No conclusion or recommendation provided.
		Recommend no further action.
		Recommend a sampling visit.
		i. Was sampling performed as part of this RFA?YN
		ii. Will the sampling be conducted in a RFI?YN
		Recommend interim measures.
		Recommend a RFI.
		Comments:
	b.	Is the recommendation acceptable?YN
		Comments: Did to the street an exact an
		hand the med to be the there.
	_	Per Pontiel Closure Certification 6/91 corrective action has alread been taken at this SWMY.
	<b>-</b>	inly one confirmatory bample was taken after execution.
		<del> </del>

Detailed SWMU or ACC information:  SWMU # Z or ACC Handeled Wask Pad (Happer Warage Aw  1. Is the unit located on a facility map? Y N A NA  Comments: Official Cloud per Partial Cloud Confination Y CAT. Took dark and sealth are available to support  2. Unit characteristics (e.g. design, liners, age, construction):  Y N A NA  Comments: 20 x 30 ft A 20 kg3 napair (while well-age) for before the dark and fire page for don't before Cu latter here  3. Waste characteristics (e.g. types, volumes, classification):  Y N A NA  Comments: Dust be continueded welled. Shade in calcutto from with trationary Per Catt his 12/10 fter week 12-type fire for with trationary Per Catt his 12/10 fter week 12-type fire for with trationary Per Catt his 12/10 fter week 12-type fire for the determination (CR, SR, PoR, NR)?  1. Is documentation provided? Y N  Comments: The de have an arrange "Page week and Airing War harder Com arrange "Page war hard appear in determination (CR, SR, PoR, NR)? Y N  Comments: The de have an arrange "Page war hard arranged in determination (CR, SR, PoR, NR)? Y N  Comments: CR SR POR NR  i. Is documentation provided? Y N  Comments: CR SR POR NR  i. Is documentation provide acceptable support for the determination (CR, SR, PoR, NR)? Y N  ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)? Y N		
1. Is the unit located on a facility map? Y N A NA  Comments: Otherable, Cloud on Partial Clouds Configuration  2. Unit characteristics (e.g. design, liners, age, construction):  N A NA  Comments: 20×30++ A 20 Nd3 Normin (soul roll of the thouse that the factor that the	Detailed S	WMU or AOC information:
Comments: Officially Closed on Partial Closure Confinential CASI. Took data and results are available to import Comments: Condition  2. Unit characteristics (e.g. design, liners, age, construction):  Y N A NA  Comments: 20x30ff. A 20 Nd3 Napain (partial and for broad that the description of the design of the construction):  Y N A NA  Comments: Dust to Continuated by G Drug )  3. Waste characteristics (e.g. types, volumes, classification):  Y N A NA  Comments: Dust to Continuated whiled. Sindae to collected from the transment. Par Cont wis 12100 there were 12-types for the Arrange of the design of the continuation provide acceptable support for the determination (CR, SR, PoR, NR)?  Li Does the documentation provide acceptable support for the determination provided?  D. Soil: CR SR POR NR  i. Is documentation provided? Y N  ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)? Y N  Comments:  Comments: CR SR POR NR  i. Is documentation provided? Y N  ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)? Y N  ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)? Y N	SWMU #	or ADC Hayardons Waste Pad Citopper Waterage And
2. Unit characteristics (e.g. design, liners, age, construction):  N A NA  Comments: 20 x 30 ff. A 20 yd3 Norsin (seel reflect for the strong of the strong	1. Is t	he unit located on a facility map? Y N A NA
2. Unit characteristics (e.g. design, liners, age, construction):  Y N A NA  Comments: 20x30+1. A 20 Nd3 Norgan (boulded) in the trace characteristics (e.g. types, volumes, classification):  Y N A NA  Comments: Dust to contracted by (2 bound)  3. Waste characteristics (e.g. types, volumes, classification):  Y N A NA  Comments: Dust to contracted whiled. Sinday to collected the invariant part to the form the strategy of the contracted while the strategy of the contracted that the provided that the provided that the provided that the provided acceptable support for the determination (CR, SR, POR, NR)?  Li Does the documentation provide acceptable support for the determination of the contracted that the provided that the prov	Comments:_	Officially closed per Partial Closure Certification
Comments: 20x30ff. A 20 Not in the strong of		
3. Waste characteristics (e.g. types, volumes, classification):  Y N A NA  Comments: Dust to continuated willing. Sinday in collected from with traditional part of the trade of the stage of the trade of the determination provide acceptable support for the determination provided?  Does the documentation provide acceptable support for the determination of the trade of trade of the trade of the trade of the trade of the trade of trade o	2. Unit	
3. Waste characteristics (e.g. types, volumes, classification):  Y N A NA  Comments: Dust in Contemporal willied. Shade in callects from which the property in Julied 75 to the conductor for the determination provided?  4. Waste migration pathways:  a. Air: _CR _SR _POR _NR  i. Is documentation provided? _Y _N  Comments: Then do have an armount _Trackle in provide acceptable support for the determination (CR, SR, POR, NR)? _Y _N  Comments: Then do have an armount _Trackle in provide acceptable support for the determination provided? _Y _N  i. Is documentation provided? _Y _N  comments:CR _SR _POR _NR  i. Is documentation provide acceptable support for the determination (CR, SR, POR, NR)? _Y _N  Comments:CR _SR _POR _NR  i. Is documentation provided? _Y _N  ii. Does the documentation provided? _Y _N  ii. Does the documentation provide acceptable support for the determination (CR, SR, POR, NR)? _Y _N	while a	nd they place for direct propage are located here.
Comments: Dust no continueded whice Shade is callected from white transment. Per Cart Lis 1216 there were 12-143 feet bays of and the hopped is feeted 75 to the concurty.  4. Waste migration pathways:  a. Air: _CR _SR _POR _NR  i. Is documentation provided? _Y _N  ii. Does the documentation provide acceptable support for the determination (CR, SR, POR, NR)? _Y _N  Comments: Then do have an arbane in the feeter in provided? _Y _N  b. Soil: _CR _SR _POR _NR  i. Is documentation provided? _Y _N  ii. Does the documentation provide acceptable support for the determination (CR, SR, POR, NR)? _Y _N  Comments:		
Comments: Dust to contemped whiced. Sindle to callected from the tradement. Per Cast 1250 the week 22-type for about and the paper in galled 75 to the capacity.  4. Waste migration pathways:  a. Air:CRSRPORNR  i. Is documentation provided?YN  Comments: Then do have (m an paper in for the determination (CR, SR, POR, NR)?YN  Comments: Then do have (m an paper in for the file in paper in for the determination provided?YN  b. Soil:CRSRPORNR  i. Is documentation provided?YN  ii. Does the documentation provide acceptable support for the determination (CR, SR, POR, NR)?YN  Comments:CRSRPORNR  i. Is documentation provided?YN  ii. Joes the documentation provide acceptable support for the determination (CR, SR, POR, NR)?YN		
With the party of the transmitter of the determination provided?  4. Waste migration pathways:  a. Air:CRSRPORNR  i. Is documentation provided?YN  Comments:Then do have an an armostThe party of the determination (CR, SR, POR, NR)?YN  Comments:Then do have an armostThe party of the determination provided?YN  b. Soil:CRSRPORNR  i. Is documentation provided?YN  comments:		<u> </u>
4. Waste migration pathways:  a. Air:CRSRPORNR  i. Is documentation provided?YN  ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)?YN  Comments:Then dr house (m (m permit The file is pand Allien)	ivin treatm	ment Por CAPTICIS 1219C Harr word (2-1-vold flex book
a. Air:CRSRPORNR  i. Is documentation provided?YN  ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)?YN  Comments: Then do have an arrange "Frage had not have an arranged in support for the determination provided?YN  b. Soil:CRSRPORNR  i. Is documentation provided?YN  ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)?YN  Comments:CRSRPORVNR  i. Is documentation provided?YN  ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)?YN	$\nu$	· · ·
i. Is documentation provided?YN  ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)?YN  Comments:Then dr have (m an nemet . The did to pend address Then dr have and The did to pend address Is documentation provided?YN  i. Is documentation provided?YN  comments:	4. Wast	
ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)? Y N  Comments: Then do house on an armost the fill in send afficient in support of the determination provided? Y N  i. Is documentation provided? Y N  c. Ground water: CR SR POR NR)? Y N  ii. Is documentation provided? Y N  c. Ground water: CR SR POR NR)? Y N  ii. Is documentation provided? Y N  ii. Is documentation provided? Y N  ii. Is documentation provided? Y N  iii. Does the documentation provided? Y N	a.	Air:CRSRPORNR
the determination (CR, SR, PoR, NR)?		i. Is documentation provided?YN
b. Soil:CRSRPORVNR  i. Is documentation provided?YN  Comments:		
b. Soil:CRSRPORNR  i. Is documentation provided?YN  ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)?YN  Comments:CRSRPORNR  i. Is documentation provided?YN  ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)?YN		comments: They do have an an semit. The file is sende Alliew We heard or any release "Bass there not supped in severall years" per CAST loves 12/90.
ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)?YN  Comments:	b.	· · · · · · · · · · · · · · · · · · ·
the determination (CR, SR, PoR, NR)?YN  Comments:  c. Ground water:CRSRPoRVNR  i. Is documentation provided?YN  ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)?YN		i. Is documentation provided?YÑ
i. Is documentation provided?YN  ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)?YN		ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)?YN
c. Ground water:CRSRPORVNR  i. Is documentation provided?YN  ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)?YN		Comments:
<ul> <li>i. Is documentation provided?YN</li> <li>ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)?YN</li> </ul>		
<ul> <li>i. Is documentation provided?YN</li> <li>ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)?YN</li> </ul>	c.	Ground water: CR SR POR VNR
ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)?YN	•	
the determination (CR, SR, PoR, NR)?YN		
Comments:		Comments:

d.	Surface water:CRSRPORNR
	i. Is documentation provided?YN
	ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)?YN
	Comments:
e.	Subsurface gas:CRSRPoRNR
	i. Is documentation provided?YN
	ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)?YN
	Comments:
Conc	lusions/Recommendations:
a.	No conclusion or recommendation provided.
۵.	Recommend no further action.
	Recommend a sampling visit.
	i. Was sampling performed as part of this RFA?YN
	ii. Will the sampling be conducted in a RFI?YN
	Recommend interim measures.
	Recommend a RFI.
	Comments: Further unicompution is neighbor to make a conclusion. Environmental metting is very important.
<b>L</b>	a wine visit may be variented based in comments be
b.	Is the recommendation acceptable?YN
	comments: Clown procedure and test results one available per formal Clown Certification of 6/9
	All mipe vouples détected amounts of lead,
	Elicanum II They
	the quantificated are not sufficient for the quantities indicated are not sufficient for the quantities of first
	the guitin? There is no mention of first
	Justill is no discussion about
	action taken here.
	and and and
	time 63 points per mullion of assence detected time 63 points per mullion of assence detected time the cleaning wastes.

SWMU	1 # <u>3</u>	_ or ADC Wastewester trialment plant alunge St
1.	Is th	ne unit located on a facility map? Y N A NA
Comm	ents:_	20 cubic your wheel rull-off hepper adjacent
7,00	UTP.	
2.		characteristics (e.g. design, liners, age, construction):NANA
Comm	ents:	20 yd3 hopper covered with a top when not
w	n use	
3.		characteristics (e.g. types, volumes, classification):
		NANA
Comm	ents: h <i>licu</i> l	32 culic yards per with Studge contaminated
	-	
4.	Waste	migration pathways:
	a.	Air:CRSRPORNR
		i. Is documentation provided?YN
		ii. Does the documentation provide acceptable support fo the determination (CR, SR, PoR, NR)?YN
		Comments:
		Continencs.
	b.	Soil:CRSRPORNR
		i. Is documentation provided?YN
		ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)?YN
		Comments:
	c.	
	c.	Ground water:CRSRPORVNR
	c.	Ground water:CRSRPORVNR  i. Is documentation provided?YN
	c.	Ground water:CRSRPoRVNR

	d.	Surface water:RSRPORNR
		i. Is documentation provided?YN
		ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)?YN
		Comments: Control of the state
	_	Subsurface gas:CRSRPORNR
	e.	
		ii. Does the documentation provide acceptable support for the determination (CR, SR, PoR, NR)?YN
		Comments:
5.	Concl	usions/Recommendations:
	a.	No conclusion or recommendation provided.
		Recommend no further action.
		Recommend a sampling visit.
		i. Was sampling performed as part of this RFA?YN
		ii. Will the sampling be conducted in a RFI?YN
		Recommend interim measures.
		Recommend a RFI.
		comments: See below - A site visite may be wonented.
	b.	Is the recommendation acceptable?YN
		Comments:
	1	10.012
	itoi	of ten us the whage picked up? What Ukind as
	WCV V21	re happen up 20 yds. They generate 32 yds/week. In often up the bludge picked up? What Ukind as ufare up the to the Hoppen to the don? Is not contained? I there any parthways my mitigation by the isludge pills out (ex. voil)?
	10 d ha	reports or veridence of release have been reported are by CDM per 1990 CAPT 1015. However, there are to gaps and there is no werdence that this area so been tested. A soft visit may be warrented.
	, ,	· · · · · · · · · · · · · · · · · · ·

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There are the allowants within the file that make the rest that the received the rest that the rest		
Comments:  There can the documents within the file that make retirement to including of reach that of the properties of		retting into process discipan, site hotory (minimal)
Comments:  There can the documents within the file that make retirement to including of reach that of the properties of		With See analytical party and assurant in the status Cert
ther comments on the PR:  There can the advantants without the file that make refusement to infactions of wasterness. What he comments they permit 17/51 a letter was sent from consider they find our has a nature the resident they wither the first there is a constant into the consideration of the constant con my for character that they the note constant is not constant into the constant the constant they could be from the constant to in smaller than they could be from the constant the whenly is noted.  Therefore the whole is noted.  Therefore the constant to in contage they it breaks that Wipe watth our cut vision of a quantificities interpretation on the motions are considered that the count they of any constant considered the regularity.		Conclusions valid!
There can the documents within the file that make represent to violations of heater att. Office has a permit. 17151 a letter was sent from course less the files wind auchorist a metric time of cure initiation term titled ant against Connection to a cure initiation term titled but against Connection on its traction mumber and the Account to It in populate that they could be from the traction of a nimit to in contract.  Using Discussion of a nimit to in contract.  Using The rest that they could be interested that were resulted are not visited on quantification interpretation and the processor and consider and regulaging.		Comments:
There can the documents within the file that make represent to violations of heater att. Office has a permit. 17151 a letter was sent from course less the files wind auchorist a metric time of cure initiation term titled ant against Connection to a cure initiation term titled but against Connection on its traction mumber and the Account to It in populate that they could be from the traction of a nimit to in contract.  Using Discussion of a nimit to in contract.  Using The rest that they could be interested that were resulted are not visited on quantification interpretation and the processor and consider and regulaging.		
make required to inclasting of wastered, the second second distance of they seemed to the second distance of they seemed across to mother than the second the mother. I see the second the mother to the second to the second distance into the second	ther	comments on the PR:
Description of a night to in contract the front of the property of a night that the property of a night that the property of t		There are the documents within the file that
moblem. I steet them is a love initiation from filted and against Coming for according what the (normal Rue)  In noth case there is no least they could another  Account to it is consider that they could be from  The whole to in contract they could be from  The whole is noted.  The whole is noted.  The whole is noted.  The whole is noted to it is a more in the properties of  The the workers are first contract that the countities of  anxing common and know are negligible.	Ren	nit 612151 a letter was sent from course letter Then
In noth cases there is no lewest free number and the decements. It is consider that they could be from the street perod. They whenter be noted.  Used the perod. They whenter be noted.  Used to in contract to it to that the the the that whenter the wife results are put vision on quantificative interpretation. In the moreoverse that the quantifier of another production and decree are negligible.	no	been. 25185 thered is a cuse initration form filted
Comments It in could that they could be from the perod. The whole is noted.  Closical Discussion of a next to in contraction it brates that Wipe results are put vision of a quantification interpretection in the moreoverse time Consumers that the quantifices of anxiety comment and knew are negligible.		
Discussion of a nisulto in contragictory. It brates that wife nittle are not vision of a quantificative interpretection.  In the movement and consumes that the quantifies of anxion, common and know are negligible.		
Discussion of a result to in contractictory. It breaks that wife results are not vision on quantificative interpretection in the motivation and consumes that the quantifies of anxiety, grammen and consumers are negligible.		
in the mountain and longuages that the quantities of anxion from the order of	-	
and the mountain and love are negligible. I wontified of	Dus	cussion of a resulto in contractictory. It brains That
andres Commun and Kone are negligible.	W1,	a sinth one met vision on quantification interpretation
7 3		
Carlusin au net general, Emparter by arounder.		7 7 7
	Cin	ilubian ar not final oupported by assuration.

		· · · · · · · · · · · · · · · · · · ·
A.	Ger	meral description of VSI activities: P_NP_A_NA
	Can	property was inspected.
в.	Sit (re	es safety plan including the monioring of vapor emissions spirators, chemically resistant clothing, etc.): VP NP A NA
	<u>Ca</u>	ments:
	_	
, c.		ility inspection:
	1.	Was each SWMU noted in the PR examined? VY N  Comments: Each WMU was inspected a Hlough  Clescia pancies were noted between the PR and VSI
		Mexico pansies were neted between the PK and 15 =
	2.	Was each ACC noted in the PR examined? Y N
		Comments:
	3.	Was the entire facility traversed in order to identify additional ACCs identify additional SWMUs, complete data gaps from the PR, etc.?  Y N A NA
-	•	Comments:
		a. Were additional SWMUs and/or ACCs noted ? _Y _N
<i>:</i> ·		Coments:
	4.	Did the VSI include an inspection beyond the facility boundary?Y <_
	••	Comments:

U		
5.	siu f	1 or ACC Harardons Haterah Pen
	a. Do	cumentation of field observations in logbook: ZP _NP_A_NA
	i.	Visual evidence of unit characteristics (integrity, location):  P _NP _A _NA
		Coments: Cracks in concrete pad.
	ii.	Visual evidence of waste characteristics (e.g. labels):  P NP Not applicable
		Coments: All drums labeled.
	iii.	Visual evidence of pollutant migration pathways (e.g. erosion, run-off): P NP
		Coments: [vacks in concrete
	ıv.	Visual evidence of release (e.g. disculored soits, dead vegetation): _P _IP _Not applicable
		Comments:
•	v.	Visual cvidence of exposure potential (e.g. swamp, orinking water wells): _P _NP _Not applicable
		Coments:
	_	
		unentation of SIN / ACC characteristics and potential migration hways by photography? Y N
	Ca.:	ments:
÷		

5.	sin f	_ or Acc#3former USTs.
	a. Do	cumentation of field observations in logbook: 2 12 A NA
	i.	Visual evidence of unit characteristics (integrity, location):  P_NP_A_NA
		Concrete pad.
	ii.	Visual evidence of waste characteristics (e.g. labels):  P NP Not applicable
		Comments:
	iii.	Visual evidence of pollutant migration pathways (e.g. erosion, run-off):P \( \sum_{\text{NP}} \)
		Comments:
	17.	Visual evidence of release (e.g. discolored soits, dead vegetation):PNot applicable
		Connents:
٠		
	v.	Visual cyidence of exposure potential (e.g. swamp, orinking wate wells):PNor applicable
		Comments:
	•	
		nmentation of SAN / ACC characteristics and potential migration hways by photography? Y Y
	Ca	ments:
<u>.</u>		<u> </u>

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5.		3 or rec #4 Waste Water Treatment Plant Storage
	a. Doo	numentation of field observations in logbook: P_A_A_A
	i.	Visual evidence of unit characteristics (integrity, location):  P_NP_A_NA
		Lead containing studge from wwif
	ii.	Visual evidence of waste characteristics (e.g. labels):  NP Not applicable
		Corrects: Sludge confaminated with lead
	iii.	Visual evidence of pollutant migration pathways (e.g. erosion, run-off):PNP
		Comments:
	ıv.	Visual evidence of release (e.g. disculored soits, dead vegetation): _P _IPNot applicable
	•	Comments:
	v.	Visual evidence of exposure potential (e.g. swamp, urinking water wells): _P _Not applicable
		Coments:
	b. Do	mentation of SIU / ACC characteristics and potential migration mays by photography? Y M
	Car	ments:
:		

•	
5. SIN	1 = 2 or xx # 5 Hazardous Waste Pad
a.	Documentation of field observations in logbook: P_P_NP_A_NA
	i. Visual evidence of unit characteristics (integrity, location):  _P _NP _A _NA
	Coments: Used to store volloff containing frad unste. Find made of converte and
i	i. Visual evidence of waste characteristics (e.g. labels):  VP NP Not applicable
	debns. Leaded glan and lead contamiz
ii	i. Visual evidence of pollutant migration pathways (e.g. erosion, run-off):PNP
	wall is on the 4th side - a
1	v. Visual evidence of release (e.g. disculored soils, dead vegetation): _P _/IPNot applicable
	Compents:
•	v. Visual evidence of exposure potential (e.g. swamp, orinking water wells): _P /NP _Not applicable
	Comments:
<b>b.</b> :	Documentation of SHU / ACC characteristics and potential migration pathways by photography? Y Y
(	Comments:

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	_ or xx # 6 Electrostatic Precip, tators
a. w	cumentation of field observations in logbook: $ abla^{p}$ _ $ abla^{p}$ _ $ abla^{p}$ _ $ abla^{p}$
i.	Visual evidence of unit characteristics (integrity, location): P_NP_A_NA
•	coments: Located on north Gide of plant
ii.	Visual evidence of waste characteristics (e.g. labels): P NP Not applicable
	coments: Pelletized waste is labeled
	but to be recycled.
iii.	Visual evidence of collutant migration pathways (e.g. erosion, run-off):PNP
	Comments:
17.	Visual evidence of refease (e.g. disculored soits, dead vegetation):PNot applicable
	Comments:
•	
٧.	Visual evidence of exposure potential (e.g. swamp, orinking wa wells): _P _NOL applicable
•	Coments:
b. Duc pat	exentation of SIN $/$ ACC characteristics and potential migration hways by photography? $\underline{\underline{}}$ Y $\underline{\underline{}}$ N
• -	•
	ments:

- -1

5.	sin i	_ or ACC # 7 Baghouse Prist Collector
	a. Doo	expensation of field observations in logbook: $\sqrt{P}$ _ $NP$ _ $NA$ _ $NA$
	i.	Visual evidence of unit characteristics (integrity, location): PNPANA
·		and near north wall of plant
	ii.	Visual evidence of waste characteristics (e.g. labels):  NP Not applicable
		stored in alea.
	iii.	Visual evidence of pollutant migration pathways (e.g. erosion, run-off):PNP
		Comments:
	ıv.	Visual evidence of release (e.g. disculored soirs, dead vegetation): _P _NP _Not applicable
	٠	Connects:
	v.	Visual evidence of exposure potential (e.g. swamp, orinking wate wells): _P _NO _NO applicable
		Comments:
	path	mentation of SAN / ACC characteristics and potential migration ways by photography? Y
	C <del>a</del> :	ents:
:		

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•	or $ACC # 8 Mint Slop Hillimulation Area  Limentation of field observations in logocok: IPA IA$
i.	Visual evidence of unit characteristics (integrity, location):  P_NP_A_NA  Comments:   Located in basement of plant  12 av castern corner.
ii.	Visual evidence of waste characteristics (e.g. labels):  P NP Not applicable  Comments: All Larandons   Laste   b bleed:
iii.	Visual evidence of collutant migration pathways (e.g. erosion, run-off): P NP  Comments: Comput floor and walls provide containment
ıv.	Visual evidence of release (e.g. disculored soils, dead vegetation):PNot applicable
v.	Visual evidence of exposure potential (e.g. swamp, crinking wate wells): _P _NP _Not applicable
	mentation of SHU / ACC characteristics and potential migration ways by photography? Y N

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						ovice the	
Can	ments:	Jome	desc	repanc	ties 1	between	n The
	100 a	ree in	orea.	- 400	1 3 1100	# 2 10e	0
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ther c	annents a	n the VSI:					
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Were the results of the VSI integrated with the PR to provide

### RFA REVIEW SUMMARY

Α.	List a	all SWMUs identified (inclusive of	the PR and	VSI):
foc,	+	Hazardous Materials Pen	· •	
2	<b>+</b>	Former Drum Storage Area	•	
3	<b>*</b>	Former 115Ts	<b>*_</b>	
4	+ 3	Waste Water Treament Plant 5	judge Area	-
5	‡ <u>2</u>	Harardons Waste Pad	<b>+_</b>	
b	<b>+</b>	Electrostatic Precipitatas	<b>+</b> .	
7	<b>*</b>	Bag House Purt Wellector	<b>!_</b>	
8	ŧ	Paintshop Accumulation	Area	
	<b>+</b>		<b>!</b> .	
	<b>*</b>		*	
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	<b>+</b>	<del></del>	<u>*</u>	
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	* —	·		
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	<b>+</b>		. •—	
в.	List S	MMUs known by reviewer but not inc	cluded in th	e RFA:
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	+		ŧ	
	+		<b>4</b>	<u>-</u>
	+	<u>.</u>		
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. List A							
. * 2	Former	Drum Sk	vage Ava	<b>!_</b>	_	<u> </u>	
<u>* 3</u>	Former a	115Ts		<u> </u>			
* <u>b</u>	EPS			•			
<u>, 7</u>	BagHous	e dust l	allector				
* 8	Paint S	Steps Acc	er lata	· · · · ·			
*	<u>junt j</u>	my rec	unce wire	- · · -			
List A	Cs known by	reviewer b	ut not incl	uded in the	: RFA:		
<b>#</b>				<b>+</b>			
+			_	<b>+</b>	-	-	
				<u> </u>			
* —				<u>-</u> -			
#		<u> </u>		*			
	WMUs / ACCs v	which must !	be reevalua	ted due to	inaccuracies	in the PR	, VSI,
List S SV:	WMUs / ACCs v	which must !	be reevalua	ted due to	inaccuracies	in the PR	, VSI,
	WMUs / ACCs v	which must !	be reevalua	ted due to	inaccuracies	in the PR	, VSI,
\$V: # #				ted due to	inaccuracies	in the PR	, VSI,
\$V: # #	WMUs / ACCs v			ted due to	inaccuracies	in the PR	, VSI,
\$V: # #				ted due to	inaccuracies	in the PR	, VSI
\$V: # #				ted due to	inaccuracies	in the PR	, VSI,
\$V: # #				ted due to	inaccuracies	in the PR	, VSI,
\$V: # #				ted due to	inaccuracies	in the PR	, VSI,
\$V: # #				ted due to	inaccuracies	in the PR	, VSI,
sv: # #				ted due to	inaccuracies	in the PR	, VSI,
sv: # #				ted due to	inaccuracies	in the PR	, VSI,
5V: # #				ted due to	inaccuracies	in the PR	, VSI,
\$V: # #				ted due to	inaccuracies	in the PR	, VSI,

ist Salus / ACCs which have been assessed	
ist Silus / ACCs which have been assessed	accurately to require an RFI:
ist SITUs / ACCs which have been assessed	accurately to require an RFI:
ist SITUs / ACCs which have been assessed	accurately to require an RFI:
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J.	Does the RFA summary report integrate the findings of the PR, VSI, and SV?Y _
	Comments:
	· ·
	<del></del>
•	Any additional / miscellaneous comments on the RFA:
	<del>-</del>
-	

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# APPENDIX B ANALYTICAL DATA

NY-R40.R29 B-1

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#### 4.0 ANALYSIS AND RESULTS

#### 4.1 Hazardous Waste Hopper Storage Area

### 4.1.1 Confirmatory Samples

The approved closure plan required that all confirmatory samples be analyzed for the following parameters by the method indicated.

TABLE 1
ANALYTICAL METHODS, HAZARDOUS WASTE HOPPER STORAGE AREA

Analyte	Method
Arsenic	SW846-7061
Barium	SW846-7080
Cadmium	SW846-7131
Chromium	SW846-7191
Lead	SW846-7421
Selenium	SW846-7741

The following results were obtained from the analyses.

TABLE 2
ANALYTICAL RESULTS, HAZARDOUS WASTE HOPPER STORAGE AREA

Analyte	Wipe A	Wipe B	Wipe C
Arsenic	0.073 mg/wipe	0.4 mg/wipe	0.56 mg/wipe
Barium	0.16 mg/wipe	0.38 mg/wipe	0.14 mg/wipe
Cadmium	0.0051 mg/wipe	0.0004 mg/wipe	0.0003 mg/wipe
Chromium	0.0021 mg/wipe	0.0039 mg/wipe	0.0036 mg/wipe
Lead	1.7 mg/wipe	8.7 mg/wipe	3.0 mg/wipe
Selenium	0.0007 mg/wipe	<0.0001 mg/wipe	<0.0001 mg/wipe

All original laboratory results are presented in Appendix B.

#### 4.1.2 Disposal Related Samples

The approved closure plan stated that the collected decontamination water would be tested to determine if it was a RCRA hazardous waste. To make this determination the decontamination water was analyzed for the same parameters as the other confirmatory samples. The following results were obtained from the analysis.

TABLE 3
DISPOSAL RELATED ANALYTICAL RESULTS
HAZARDOUS WASTE HOPPER STORAGE AREA

Analysis/Analyte	Sample/Location
Arsenic mg/l	63
Barium mg/l	<0.1
Cadmium mg/l	<0.1
Chromium mg/l	<0.1
Lead mg/l	0.44
Selenium mg/l	0.10
Corrosivity	Not Tested
Ignitability	Not Tested

All original laboratory results are presented in Appendix B.

#### 4.1.3 Discussion of Results

The result of the analyses performed on the three confirmatory wipe samples are reported in milligrams per wipe. As with all wipe samples, the analytical results cannot be reduced to a unitless ratio, therefore, no quantitative interpretations can be made of these results.

All of the wipe samples showed quantifiable, but negligible, amounts of arsenic, barium, cadmium and chromium. Wipe sample A reported 0.0007 mg/wipe of selenium. Selenium was less than detectable for the other two wipe samples.

All of the wipe samples reported quantifiable amounts of lead, the actual result ranging from 1.7 mg/wipe to 8.7 mg/wipe. While these results do indicate the presence of residual lead, the quantity indicated does not appear to be sufficient to cause concern. This conclusion is based on the matrix involved, concrete, which will tightly bind up any residual lead; and the difficulty in evaluating the analytical results obtained for the wipe sampling technique.

#### 4.2 Hazardous Waste Drum Storage Pad

#### 4.2.1 Confirmatory Samples

The approved closure plan required that all confirmatory samples be analyzed for the following parameters by the method indicated.

TABLE 4

ANALYTICAL METHODS

HAZARDOUS WASTE DRUM STORAGE PAD

Analysis/Analyte	Method	
1,1,1-Trichloroethane	SW846-8010	
Arsenic	SW846-7061	
Cadmium	SW846-7131	
Lead	SW846-7421	
Ignitability	SW846-1010	
Corrosivity	SW846-1110	

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The following results were obtained from these analysis.

# TABLE 5 ANALYTICAL RESULTS HAZARDOUS WASTE DRUM STORAGE PAD

	Sample/Location					
Analysis/Analyte	Wipe A	Wipe B	Wipe C	Chip D	Soil F	Chip E
1,1,1-trichloroethane	N/A	N/A	N/A	<10 ppb	16 ppb	<10 ppb
Arsenic	0.005 mg wipe	0.015 mq wipe	0.028 mg wipe	5.9 ppm	13 ppm	6.0 ppm
Cadmium	<0.0005 mg	0.0011 mg wipe	0.0021 mq wipe	0.3 ppm	1.3 ppm	0.5 ppm
Lead, Total	0.27 mg wipe	0.93 mg wipe	1.4 mg wipe	94 ppm	380 ppm	130 ppm
Ignitability	N/A	N/A	N/A	>60°C	>60°C	>60°C
Corrosivity	6.6 SU	7.1 SU	6.9 SU	6.7 SU	8.2 ST	6.2 ST
Lead, by TCLP	N/A	N/A	N/A	N/A	2.0 ppm	N/A

#### TABLE 5 (CONT.)

	Sample/Location					
Analysis/ Analyte	Soil G	Soil H	Soil I	Rinse R	Background , soil	
1,1,1- trichlorcethane	1,200 ppb	67 ppb	320 ppb	<1 ppb	N/A	
Arsenic	19 ppm	26 ppm	15 ppm	N/A	11 ppm	
Cadmium	0.62 ppm	6.6 ppm	2.2 ppm	N/A	<0.4 ppm	
Lead, Total	1,800 ppm	1,100 ppm	350 ppm	N/A	130 ppm	
Ignitability	>60°C	>60°C	>60°C	>60°C	N/A	
Corrosivity	7.8 SU	8.3 SU	8.3 SU	N/A	N/A	
Lead by TCLP	7.7 ppm	2.8 ppm	0.5 ppm	N/A	0.2 ppm	

#### Notes

- 1) SU = Standard Units
- 2) N/A = Not Applicable

All original laboratory results are presented in Appendix B.

#### 4.2.2 Disposal Related Sampling

The approved closure plan stated that the collected decontamination water would be tested to determine if it was a RCRA hazardous waste. To make this determination the decontamination water was analyzed for the following parameters by the indicated method. The following results were obtained from these analyses.

TABLE 6
DISPOSAL RELATED ANALYTICAL METHODS AND RESULTS
HAZARDOUS WASTE DRUM STORAGE PAD

Analysis/Analyte	Method	Results
Arsenic	SW846-7061	<0.1 mg/l
Cadmium	SW846-7131	<0.1 mg/l
Lead	SW846-7421	0.1 mg/l
Ign <u>itability</u>	EPA-1010	Non-ignitable
Corrosivity	EPA-1110	Non-corrosive

All original laboratory results are presented in Appendix B.

#### 4.2.3 Discussion of Results

The results of the analyses performed on the three wipe samples are reported in milligrams per wipe. As with all wipe samples, the analytical results cannot be reduced to a unitless ratio, therefore, no quantitative interpretations can be made of these results.

All three wipe samples reported quantifiable, but negligible, amounts of arsenic and lead. Samples B and C also reported negligible amounts of cadmium, with sample A having less than detectable cadmium. Based on these results, no additional investigation or decontamination was considered necessary.

The asphalt sample analyses identified lead and arsenic in the asphalt, 94 ppm and 5.9 ppm respectively. Negligible cadmium, 0.3 ppm, was also identified. All of these levels are at or below the corresponding quantities identified in a background asphalt sample collected at the same time. Therefore, no additional investigation or decontamination is considered necessary due to the analytical results from the test performed on the asphalt.

All of the four soil samples analyzed showed quantifiable amounts of arsenic and cadmium. The levels of arsenic varied from 13 ppm to 26 ppm, as compared to the 11 ppm identified in a background sample collected at the same time. Given that the confirmatory sample levels do not significantly exceed the 11 ppm of arsenic found in the background sample, the confirmatory sample levels do not appear to be a concern.

The cadmium results varied from 0.62 ppm to 6.6 ppm. The USEPA reports an common range for cadmium in natural soils of 0.01 to 0.7 ppm (USEPA, HAZARDOUS WASTE LAND TREATMENT, SW-874, April, 1983). Given that the confirmatory sample levels for cadmium do not significantly exceed this range, the confirmatory sample levels do not appear to be a concern.

Both lead and 1,1,1-trichloroethane were identified in all four samples at elevated levels. The 1,1,1-trichloroethane results vary from 0.016 to 1.200 ppm, this analysis was not performed on the background sample. Concentrations of total lead in the soil samples ranged from 130 ppm to 1,800 ppm. These levels were sufficient to instigate additional work. This additional work is described in Section 5 of this report.

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# APPENDIX C CLOSURE DOCUMENTATION

NY-R40.R29 C-1

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New York State Department of Environmental Conservation 50 Wolf Road, Albany, New York 12233



October 20, 1992

Ms. Karen S. Gross Sr. Environmental Control Engineer Corning Incorporated HPME01025AIO Corning, NY 14831

Dear Ms. Gross:

RE: Closure of Corning Incorporated, Fallbrook Facility
EPA Identification Number: NYD000824425

This letter is to confirm the receipt of owner/operator and independent professional engineer's certification dated June, 1991, of RCRA closure for this facility. We now consider this facility officially closed. Your authority to operate as a Treatment, Storage, and Disposal Facility (TSDF) is terminated and you are released from the financial security requirements of Sections 373-2.8 and 373-3.8.

Please be advised that the United States Environmental Protection Agency has determined that the corrective action provisions of the Hazardous and Solid Waste Amendments (HSWA), Section 3008(h), apply to all TSDF's which have acquired interim status.

The New York State Department of Environmental Conservation has established a program to evaluate the corrective action measures necessary at closed and closing facilities within the State. Once the corrective action provisions of HSWA have been met by the facility or determined not to be necessary at the facility, the facility can have their interim status terminated.

Ms. Karen S. Gross October 19, 1992 Page 2

If you have any questions regarding your closure or regulatory status, please contact Stephen Malsan at (518) 457-9361.

Sincerely,

Salvatore J. Carlomagno, P.E. Chief, Waste Reduction & Program Support Section

Bur. of Western Haz. Waste Programs Division of Haz. Substances Regulation

cc: J. Gorman

J. Desai

M. O'Neil

D. Rollins - Region 8

S. Malsan

G. Belcher

SJC:scy



# INSPECTION FORM

CUMPERCIAL FOUR OTHER TSDF TC GENERATOR OTHER GENERATOR

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Note - Caly closure Trapection A com NEW YORK STATE INDUSTRIAL HAZARDOUS WASTE MANAGEMENT ACT has been a considered to the constant of the constant

Georg Relation No Process.

Prepared for:

Commissioner NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Send to: Division of Hazardous Substances Regulation Compliance Inspection Section 50 Wolf Road - Room 208 Albany, New York 12233-7252

EPA I.D. NUMBER: NYDOO0824425
COMPANY NAME (Corporate): Company Trocky Led
(Division): Fall Lack Facility
COMPANY MAILING ADDRESS: HO-ME-01-025
Coming Incorporated
City & State Conving, NY Zip Code 1483
COMPANY LOCATION ADDRESS: Trace Acence
(if different than mailing)
City & State Coming, NY Zip Code 14631
COMPANY TELEPHONE NUMBER: (207) 974-6568 Extension
FULL NAME OF COMPANY CONTACT: (Mr.) (MS.)
TITLE OF COMPANY CONTACT: Project Engineer of Env. Cuitro 1
INSPECTION DATE: 12/11 / 1990 TIME OF INSPECTION:(a.m.) 1230(p.m.)
INSPECTOR'S NAME: Foreph Form
TITLE: Environmental Engineer I
NAME:
TITLE:
REPORT PREPARED BY: Sept Gavin DATE: 11-7-91  REPORT APPROVED BY: Sufon Collins  DATE: 11-7-91

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Handler Name Conne Incorporated - Fallbrook Facility
EPA I.D. No. 5 2 0 6 2 4 4 25 Indicate: Indicate: Violations X Satisfactory NA Not Applicable APPENDIX L Closure/Post Closure Inspection 1. For all facilities. The owner or operator has closed the facility in a manner that: (1) \_\_\_\_ Minimizes the need for further maintenance -373-3.7(b)(1) (2) \_\_\_\_ Controls, minimizes or eliminates post-closure escape of hazardous waste, hazardous waste constituents, leachate, contaminated rainfall, or waste decomposition products to the groundwater, or surface waters, or to the atmosphere -373-3.7(b)(2)B. \_\_\_\_ The owner or operator has completed closure in accordance with the approved closure plan - 373-3.7(d)(2) and Within 180 days after receiving the final volume of waste -373-3.7 (d)(2) C. \_\_\_\_ All facility equipment and structures have been properly disposed of, or decontaminated by removing all hazardous waste and residues - 373-3.7(e) D. \_\_\_\_ The owner or operator has submitted, to the Commissioner, certification both by the owner or operator and by an independent, registered professional engineer that the facility has been closed in accordance with the specifications in the approved closure plan - 373-3.7(f)

2. For Disposal Facilities Only-

A. \_\_\_\_ The owner or operator of a disposal facility has submitted his post-closure plan to the Commissioner at least 180 days before the date he expects to begin closure - 373-3.7(h)(3)

NA

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X	Violations		X Satisfacto NA Not Applic	-	
	operator of a Clerk and to t location and d	after closure is completed disposal facility has submi he Commissioner a survey pl imensions of landfill cells pect to permanently surveye	tted to the Cou at indicating t or other dispo	he sal	<u>NA</u>
	to the County	perator has submitted to th Clerk a record of the type, astes disposed of within ea 373-3.7(i)	location and qu	uantity	NA
3.	located has re property - or examined during any potential has been used restricted under the facility of the facility.	he property on which a dispendence of a notation on the decome some other instrument who title search - that will bourchaser of the property the manage hazardous waste, are paragraph 373-3.7(g)(3).	ed to the facility in the is normally inperpetuity not nat: (1) the land (2) its use 373-3.7(j)	ity cify and is	NA
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## PART III

Comments, Conclusions and Recommendations Section

Facility Name Common Facility Name
EPA I.D. No. NyDELCESTY
Date of Inspection 12/11/45
General Comments and Conclusions (cite appropriate State regulations in violation and attach additional sheets and other information as required)
Inspector was inne on the impertor
colur
NoTE: P.E. CERTIFICATION RECEIVED 8/91
<u> </u>

3/91

Recommendations EPA I.D. No. NYDDDDD824425
No violations found. Thank you letter should be issued.
A warning letter should be issued.
A strong warning letter should be issued.
A complaint should be issued and a fine levied.
Copy of this report has not been given to the handler( inspector submit two copies to C.O. and C.O. will send with reply)
Copy of this report has been given to the handler (inspector submit one copy to C.O.)
Other (please explain)*
Follow up by ACO-Closure Section
BartIII to avon BECI on 1/15-91
Tacelety copy to CO on 11-14-91
Sample(s) have been taken.
Comments on sample results:

<sup>\*</sup>Do not refer cases directly to the BECI unit. All BECI referrals will be made by the Central Office.

#### Certification Statement

We, The Sear-Brown Group and Corning Incorporated, do hereby certify that the hazardous waste management units located at Corning Incorporated's Fallbrook facility and identified in the attached partial closure certification document have been closed in accordance with the specifications in the approved closure plan addressing these units, except where specifically noted.

The Sear-Brown Group

John W. Hayden, B.E., Ph.D.

Vice President

Civil and Environmental Divisions



Jule 24 1991

Corning Incorporated

Karen S. Gross

Sr. Environmental Control Engineer

7 Aug 91