SITE INSPECTION REPORT FOR
CORNING GLASS-ZIRCOA PRODUCTS SITE
SOLON, OH
OHD097947097
F05-8706-179
FOH0184SI
June 30, 1987

US EPA RECORDS CENTER REGION 5
424595

ecology and environment, inc.
111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415
International Specialists in the Environment

MEMORANDUM

DATE: June 26, 1987
TO: File
FROM: Pat Petrella
SUBJECT: Ohio/F05-8706-179/F0H0184SI
Solon/Corning Glass-Zircoa Products
OHD097947097

The Corning Glass-Zircoa Products facility is located in an industrial development just west of the city of Solon. It is bordered by railroad tracks on the north and east and by an unnamed tributary of Tinker Creek on the west. Since 1950, this plant has been used by various owners to manufacture zirconium-based refractory products. Corning purchased the plant in 1970. Prior owners include Diamond Shamrock, Pickens Mather, and Zirconium Corp. of America. This site was tasked to FIT in the form of a preliminary assessment submitted to U.S. EPA by OEPA.

On June 16, 1987, FIT inspected the Corning facility. Activities included an on-site inspection and interview with plant representatives. Waste streams and treatment identified as part of the interview includes a noncontact cooling water discharge to an on-site lagoon and eventually to an NPDES regulated outfall. The lagoon is lined with a compacted clay liner. The outfall is monitored for suspended solids, total dissolved solids (TDS), pH, and phosphorous. To maintain TDS requirements, an augmentation well was installed to provide dilution at the outfall. Process waste streams are neutralized and filtered through in-ground filter beds, having a leachate collection system to

recycled paper

recycle the water to the plant for reuse. Some of the recycled water is discharged, following filtration, through the NPDES outfall. Sludge generated in the filterbeds is gelitanous in consistency. The sludge is hauled off-site for disposal by Inland Refuse Co. of Cleveland. Recent leachate analyses of the sludge have shown elevated levels of some heavy metals but well within RCRA criteria for EP toxic hazardous wastes. All air sources are permitted, where necessary. Except for a small portion of the site at the rear of the plant, the property is fenced. Hydrochloric and hydrofluoric acid is stored on-site. Although no berms are present around the storage area, site topography and its close proximity to the lagoon serves as containment for spills. The facility does use small quantities of solvents for cleaning purposes in maintenance areas.

As the result of adequate containment and limited generation of hazardous wastes, it appear the site poses a minimal threat to groundwater in the area. Some residents use groundwater for drinking although most use lake water supplied by the Cleveland Municipal system. The closest well is less than 2,000 feet away.

The fact that part of the site is open poses a direct contact threat since injury could occur as the result of coming in contact with sludges in the filter bed or chemical stored on-site.

The work plan was followed as written.

95L:1W

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
OH	D097947097

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
CORNING GLASS - ZIRCOA PROD.	31501 SOLON RD.

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
SOLON	OH	44139	CUYAHOGA	035	20

09 COORDINATES LATITUDE	LONGITUDE	10 TYPE OF OWNERSHIP (Check one)
41°23'19.0"	081°27'21.0"	■ A. PRIVATE ☐ B. FEDERAL ____ ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER ____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
6/17/87 (MONTH DAY YEAR)	■ ACTIVE ☐ INACTIVE	1930's / PRESENT (BEGINNING YEAR / ENDING YEAR) ____ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ■ B. EPA CONTRACTOR ECOLOGY & ENVIRONMENT (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR ____ (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR ____ (Name of firm) ☐ G. OTHER ____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO
PAT PETRELLA	CHEM. ENGINEER	E&E	(312) 663-9415

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO
DIRK KAISER	GEOLOGIST	E&E	(312) 663-9415
DAVID HEIDLAUF	GEOLOGIST	CC JOHNSON	(312) 621-3944
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
BLAKE MANUEL	SR. ENV. CONTROL EN	31501 SOLON RD SOLON OH 44139	(216) 248-0500
Garth Austin	Superint. GRAIN PLANT	" " "	(") " "
Robert Bayliff	PLT Superint.	" " "	(") " "
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
■ PERMISSION ☐ WARRANT	9:00 AM	WARM, CLEAR, SUNNY ~82°F

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
DON JOSIF	U.S. EPA	(312) 886-4393

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
PAT PETRELLA	FIT-USEPA	E&E	312/663-9415	6/3/87 (MONTH DAY YEAR)

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
OH	D097947097

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A SOLID
- ☐ B POWDER, FINES
- ■ C SLUDGE
- ☐ D OTHER _____ (Specify)
- ☐ E SLURRY
- ■ F. LIQUID
- ☐ G GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____
CUBIC YARDS sludge ~ 15
NO OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

- ■ A TOXIC
- ☐ B CORROSIVE
- ☐ C RADIOACTIVE
- ■ D PERSISTENT
- ☐ E SOLUBLE
- ☐ F INFECTIOUS
- ☐ G FLAMMABLE
- ☐ H IGNITABLE
- ☐ I HIGHLY VOLATILE
- ☐ J EXPLOSIVE
- ☐ K REACTIVE
- ☐ L INCOMPATIBLE
- ☐ M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	~444	cu.yd.	
OLW	OILY WASTE			
SOL	SOLVENTS	Small amount used in Maint. operations		
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	unknown	unknown	In sludges.

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
MES	Misc. Heavy Metals in sludges in insoluble form; ie Barium		offsite Disposal. Sludge tested for EP TOXIC under RCRA and found within specs. It has been noted & estimated that ~444 cu yd of sludge was removed over the past 15 yrs to an offsite LF.		

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS	HF		FDS		
FDS	HCL		FDS		
FDS	Zirconium Sand		FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Interview, SI E&E
State + USEPA Files.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
OH	D097947097

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Since the lagoon is lined with a compacted clay liner and the filter beds have a leachate system, the threat to groundwater is minimal from hazardous constituents.

01 ■ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: - 0 - 04 NARRATIVE DESCRIPTION

Only potential is if NPDES outfall requirements maybe violated or an uncontrolled acid spill occurs. The onsite lagoon, discharging to an unnamed creek, is used as containment for HF + HCL storage.

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

NA - Sources of concern permitted + no historical evidence.

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

None, Fire Marshall doesn't consider site a problem.

01 ■ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~11,000 04 NARRATIVE DESCRIPTION

Site is accessible from the back where fence was down. Lagoon and filter beds uncovered and no protection from falling in.

01 ☐ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres) 04 NARRATIVE DESCRIPTION

None likely or documented.

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

None likely or documented.

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

None likely or documented.

01 ■ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~16,000 04 NARRATIVE DESCRIPTION

See Section E.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
OH	D097947097

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None likely or documented.

01 ■ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE _____) ■ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include names(s) of species)

Small animals could come in contact w/ sludges in filter bed and lagoon. Sludge is gelatinous & like "quick sand"

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None likely or documented.

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

None likely or documented.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None likely or documented.

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None likely or documented.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None likely or documented

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

None documented or observed.

III. TOTAL POPULATION POTENTIALLY AFFECTED: ~11,000

IV. COMMENTS

None

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

SI, Interview, E&E.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
OH	D097947097

II. PERMIT INFORMATION SEE LIST ATTACHED AFTER SNARL SHEET.

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
■ A. SURFACE IMPOUNDMENT	~ 15	cu. yd.
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply) NA
- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER (Specify)

05 OTHER
- ■ A. BUILDINGS ON SITE: 2

06 AREA OF SITE: ~ 1 (Acres)

07 COMMENTS
NONE

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)
■ A. ADEQUATE, SECURE ☐ B. MODERATE ☐ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC. Lagoon has a compacted clay liner + filter beds use leachate collection for recycle.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ■ NO
02 COMMENTS

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

SI, Interview
State + USEPA Files

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
OH	D097947097

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check all applicable)	SURFACE	WELL	02 STATUS	ENDANGERED	AFFECTED	MONITORED	03 DISTANCE TO SITE
COMMUNITY	A. ■	B. ☐		A. ☐	B. ☐	C. ☐	A. >3 (mi)
NON-COMMUNITY	C. ☐	D. ■		D. ☐	E. ☐	F. ☐	B. ~750' (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ■ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER ~1000

03 DISTANCE TO NEAREST DRINKING WATER WELL ~750' (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
18 (ft)	NORTH	18 (ft)	~20,000 (gpd)	☐ YES ■ NO

09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings)

THE WELLS IN THE AREA ARE FOR RESIDENTIAL USE. AVERAGE WELL DEPTH FOR THE AREA IS ~100' IN SAND & GRAVEL. MUNICIPAL WATER IS AVAILABLE AT A COST TO THE HOMEOWNERS. AROUND 1700 PEOPLE COULD BE AFFECTED BY GROUNDWATER CONTAMINATION.

10 RECHARGE AREA	COMMENTS	11 DISCHARGE AREA	COMMENTS
■ YES ☐ NO	BELIEVED TO BE A RECHARGE AREA FOR TINKERS CREEK	☐ YES ■ NO	

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

■ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
UNNAMED CREEK TO THE WEST OF THE SITE, LEADS TO TINKERS CREEK	☐	~100' (mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. ~11,000 NO OF PERSONS	B. ~15,000 NO OF PERSONS	C. ~25,000 NO OF PERSONS

02 DISTANCE TO NEAREST POPULATION ~750' (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE ~900-1100

04 DISTANCE TO NEAREST OFF-SITE BUILDING ~150' (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g. rural, village, dense suburban, urban area)

SITE IS ON THE NORTH WEST CORNER OF THE VILLAGE OF SOLON (POP. 14,341). TO THE NORTH, SOUTH AND WEST OF SITE FOR APPROXIMITLY 1.2 MILES IN RADIUS IS AN INDUSTRIAL PARK.

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
OH	D097947097

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

■ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☐ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ■ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
~100 (ft)	UNKNOWN (ft)	4.5-6.0

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
5 (in)	2.2 (in)	0-1 %	WEST	0-1 %

09 FLOOD POTENTIAL

SITE IS IN UNK. YEAR FLOODPLAIN

10 N/A ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. N/A (mi)

OTHER: B. N/A (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

N/A (mi)

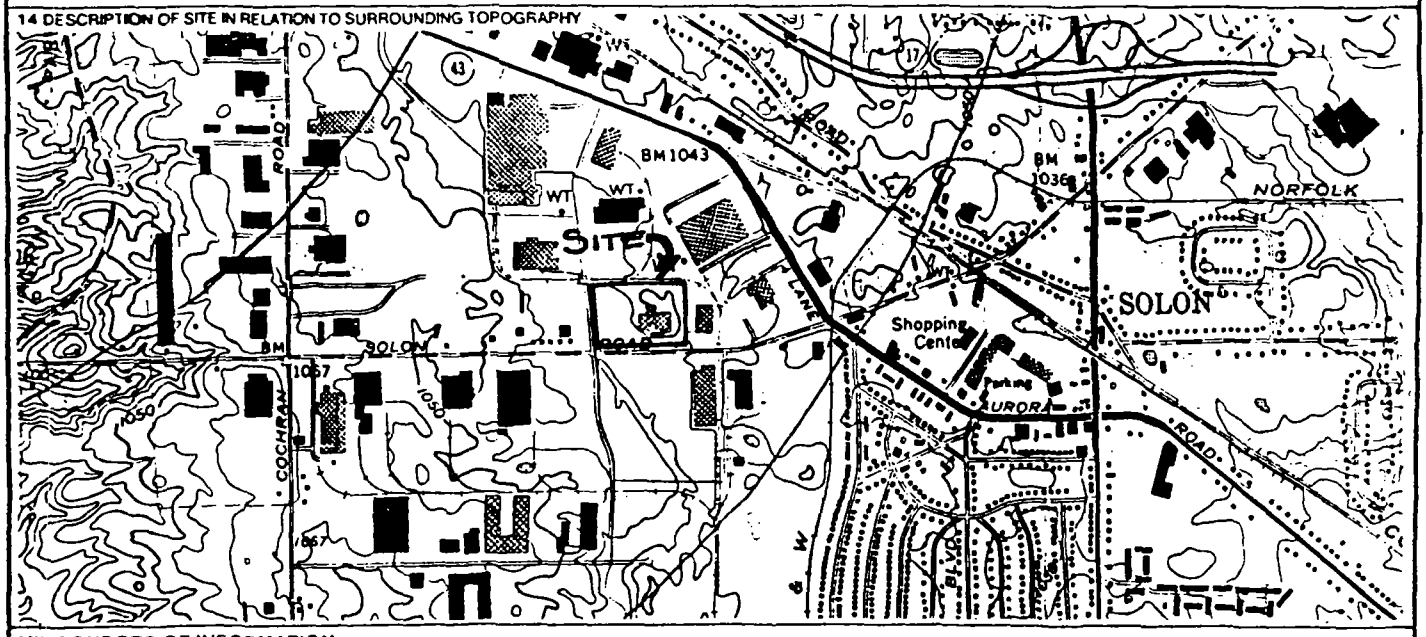
ENDANGERED SPECIES: N/A

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS, NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A. ~1000' (mi)	B. ~1000' (mi)	C. N/A (mi)	D. N/A (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY



VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

U.S.G.S. TOPOGRAPHIC MAP 7½'

WELL LOGS IN SOLON TOWNSHIP

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
OH	D097947097

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER		NONE	
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
HNU	Nothing > bkgd
RADMINI	" " "

IV. PHOTOGRAPHS AND MAPS

01 TYPE ■ GROUND ☐ AERIAL

02 IN CUSTODY OF ECOLOGY & ENVIRONMENT, INC. (Name of organization or individual)

03 MAPS ■ YES ☐ NO

04 LOCATION OF MAPS Ecology & Environment FIT files

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

None

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

SI, E+E, 1987

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
OH	D097947097

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
Corning Glass - Zircoa Prod	UNKNOWN	31501 Solon Rd	..	Solon	OH	44139

PARENT COMPANY (If applicable)

08 NAME	09 D+B NUMBER	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	12 CITY	13 STATE	14 ZIP CODE
Corning Glass - Zircoa Prod	UNKNOWN		..			

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
Zircoa Corp. of America	UNK	Same as Current owner	..	Solon.	OH	
Diamond Shamrock	UNK.	Same as Current owner	..			

IV. REALTY OWNER(S) (If applicable, list most recent first)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
NONE						

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

SI, E+E, 1987

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
OH	D097947097

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY / 06 STATE	07 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER
12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE
14 CITY / 15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME: Same as Previous owners	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY / 06 STATE	07 ZIP CODE
08 YEARS OF OPERATION: UNK.	09 NAME OF OWNER DURING THIS PERIOD: Same as OPERATOR

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME: UNK.	11 D+B NUMBER
12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE
14 CITY / 15 STATE	16 ZIP CODE

01 NAME: Same as Previous owners.	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY / 06 STATE	07 ZIP CODE
08 YEARS OF OPERATION: UNK.	09 NAME OF OWNER DURING THIS PERIOD: Same as OPERATOR

10 NAME: UNK.	11 D+B NUMBER
12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE
14 CITY / 15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY / 06 STATE	07 ZIP CODE
08 YEARS OF OPERATION: UNK.	09 NAME OF OWNER DURING THIS PERIOD: Same as OPERATOR

10 NAME: UNK.	11 D+B NUMBER
12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE
14 CITY / 15 STATE	16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

SI INTERVIEW, E&E, 1987
USEPA + STATE files

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
OH	D097947097

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
Sameos Current owner	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
NA			

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
INLAND Refuse	UNK.		

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
6075 Richmond Rd	"		

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
Solon	OH	44139			

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

SI INTERVIEW, E&E, 1987

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
OH	D097947097

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED 04 DESCRIPTION NA	02 DATE	03 AGENCY
01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION NA	02 DATE	03 AGENCY
01 ☐ C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION NA	02 DATE	03 AGENCY
01 ☐ D. SPILLED MATERIAL REMOVED 04 DESCRIPTION NA	02 DATE	03 AGENCY
01 ☐ E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION NA	02 DATE	03 AGENCY
01 ☐ F. WASTE REPACKAGED 04 DESCRIPTION NA	02 DATE	03 AGENCY
01 ☐ G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION NA	02 DATE	03 AGENCY
01 ☐ H. ON SITE BURIAL 04 DESCRIPTION NA	02 DATE	03 AGENCY
01 ☐ I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION NA	02 DATE	03 AGENCY
01 ☐ J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION NA	02 DATE	03 AGENCY
01 ☐ K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION NA	02 DATE	03 AGENCY
01 ☐ L. ENCAPSULATION 04 DESCRIPTION NA	02 DATE	03 AGENCY
01 ☐ M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION NA	02 DATE	03 AGENCY
01 ☐ N. CUTOFF WALLS 04 DESCRIPTION NA	02 DATE	03 AGENCY
01 ☐ O. EMERGENCY DIKING SURFACE WATER DIVERSION 04 DESCRIPTION NA	02 DATE	03 AGENCY
01 ☐ P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION NA	02 DATE	03 AGENCY
01 ☐ Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION NA	02 DATE	03 AGENCY

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
OH	D979470 97

II. PAST RESPONSE ACTIVITIES *(Continued)*

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NA

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NA

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NA

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NA

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NA

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NA

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NA

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NA

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NA

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NA

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NA

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
None

III. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

SI, E&E, 1987

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
OH	D097947097

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ■ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

NA

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

SI, INTERVIEW, 1987
State + USEPA Files,

EPA FORM 2070-13 (7-81)

STATE PERMITS AND EXPIRATION DATES

ITEM DESCRIPTION	PERMIT NUMBER	EXPIRATION DATE	RENEW. INTERV	NOTES AND/OR COMMENTS
Grog Pots	P-001			* Installation Permit-- STATE OF OHIO EPA. * Does not require an Operation Permit. * No renewals required.
DSC071 & DSC079 Product Sizing	P-002	01/05/90	Y3	* Installation Permit-- STATE OF OHIO EPA. * Operation Permit-- STATE OF OHIO EPA.
SDR068--Spray Dryer	P-003			* Installation Permit-- STATE OF OHIO EPA. * Does not require an Operation Permit. * No renewals required.
RKN031 & RDR131 Clinker/Extract	P-004	08/22/88	Y3	* Installation Permit-- STATE OF OHIO EPA. * Operation Permit-- STATE OF OHIO EPA.
TKN355	P-005			* Installation Permit-- STATE OF OHIO EPA. * Does not require an Operation Permit. * No renewals required.
BKY356	P-006			* Installation Permit-- STATE OF OHIO EPA. * Does not require an Operation Permit. * No renewals required.
BKY357	P-007			* Installation Permit-- STATE OF OHIO EPA. * Does not require an Operation Permit. * No renewals required.
DSC078--Crushers & Screens	P-008	12/16/89	Y3	* Installation Permit-- STATE OF OHIO EPA. * Operation Permit-- STATE OF OHIO EPA.
DCF-1	P-009			* Installation Permit-- STATE OF OHIO EPA. * Does not require an Operation Permit. * No renewals required.
DSC415	P-010			* Installation Permit-- STATE OF OHIO EPA. * Does not require an Operation Permit. * No renewals required.

...continued...

DSC414	P-011			* Installation Permit-- STATE OF OHIO EPA. * Does not require an Operation Permit. * No renewals required.
DRY222	P-012			* Installation Permit-- STATE OF OHIO EPA. * Does not require an Operation Permit. * No renewals required.
Q.C. Exhaust	P-013			* Installation Permit-- STATE OF OHIO EPA. * Does not require an Operation Permit. * No renewals required.
DRY5E3--Spray Dryer	P-014			* Installation Permit-- STATE OF OHIO EPA. * Does not require an Operation Permit. * No renewals required.
ULC242 Degreaser	L-001			* Installation Permit-- STATE OF OHIO EPA. * Does not require an Operation Permit. * No renewals required.
ULC412 Degreaser	L-002			* Installation Permit-- STATE OF OHIO EPA. * Does not require an Operation Permit. * No renewals required.
HWB627 Boiler--Sellers	199850	~~01/14/87~~ 1/14/88	Y	* Certificate of Operat. DEPT. OF INDUSTRIAL RELATIONS--DIVISION OF BOILER INSPECTION. * External Inspection- FACTORY MUTUAL.
		07/10/88	Y3	* Internal Inspection- FACTORY MUTUAL.
HWB489 Boiler--Kewanee	137587	01/14/88	Y	* Certificate of Operat. DEPT. OF INDUSTRIAL RELATIONS--DIVISION OF BOILER INSPECTION. * External Inspection- FACTORY MUTUAL.
		07/10/88	Y3	* Internal Inspection- FACTORY MUTUAL.

FIELD PHOTOGRAPHY LOG SHEET PAGE _____

DATE _____

TIME _____ A.M. P.M.

DIRECTION: N NNE NE ENE
E ESE SE SSE
S SSW SW WSW
W WNW NW NNW

WEATHER _____

SITE _____

TDD# _____

PHOTOGRAPHED BY:

SAMPLE ID# (if applicable)

PHOTOS FOR THIS SITE DID NOT DEVELOP! PROBLEM UNKNOWN

PHOTO

DESCRIPTION: _____

DATE _____

TIME _____ A.M. P.M.

DIRECTION: N NNE NE ENE
E ESE SE SSE
S SSW SW WSW
W WNW NW NNW

WEATHER _____

SITE _____

TDD# _____

PHOTOGRAPHED BY:

SAMPLE ID# (if applicable)

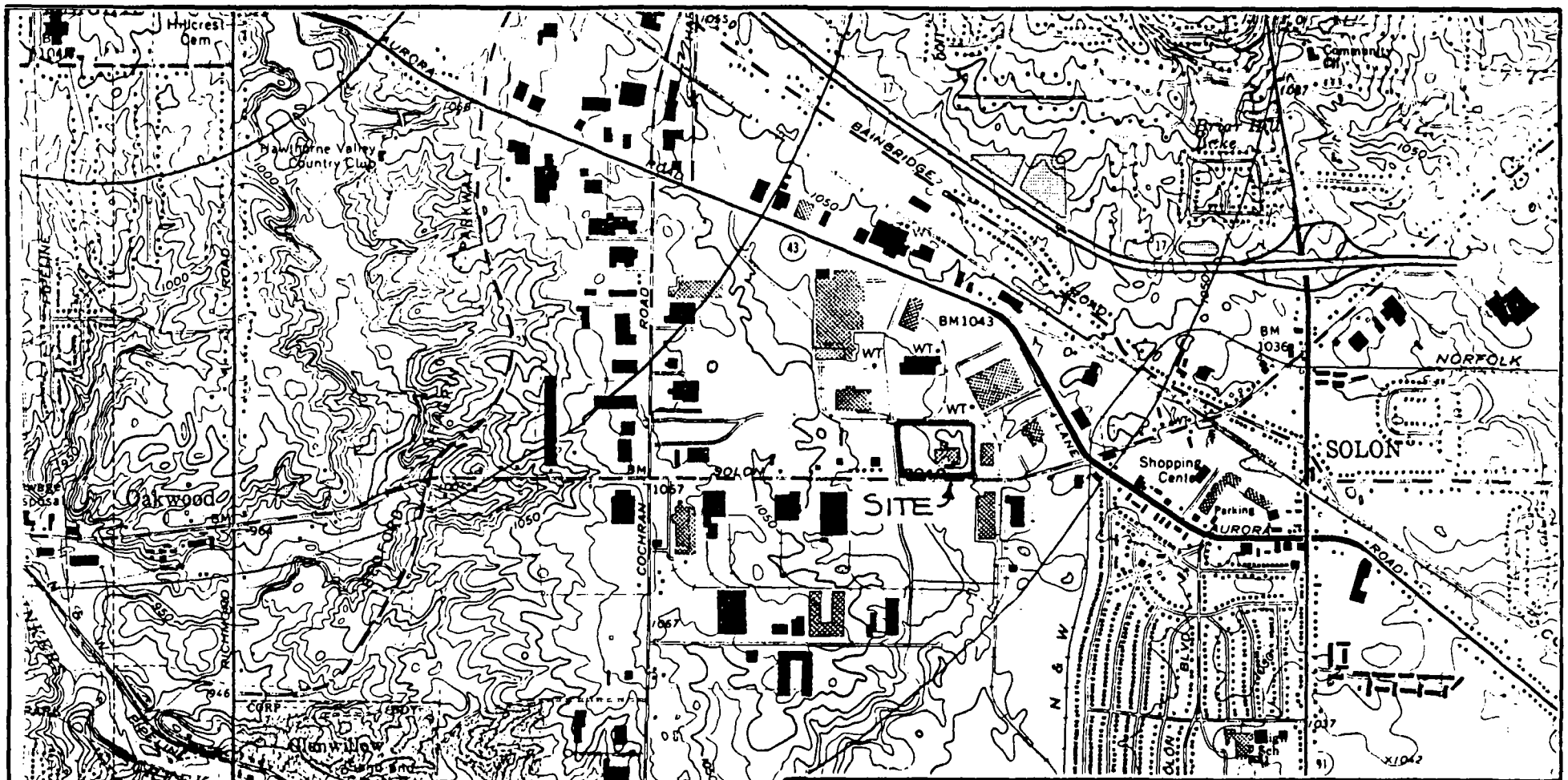
PHOTO

DESCRIPTION: _____

Immediate Removal Action Check Sheet

	High	Moderate	Low
Fire and Explosion Hazard			
Flammable Materials None found			X
Explosives None found			X
Incompatable Chemicals Acids Stored onsite			X
Direct Contact with Acutely Toxic Chemicals			
Site Security Some access from Rear		X	
Leaking Drums or Tanks None found			
Open Lagoons or pits YES		X	
Materials on Surface ~~on~~ IN LAGOONS		X	
Proximity of Population Adjacent to site	X		
Evidence of Casual Site Use None found			X
Contaminated Water Supply			
Exceeds 10 Day Snarl UNKNOWN			
Gross Taste or Odors "			
Alternate Water Available UNKNOWN			
Potential Contamination Possible		X	
Is the site abandoned or active? Active			

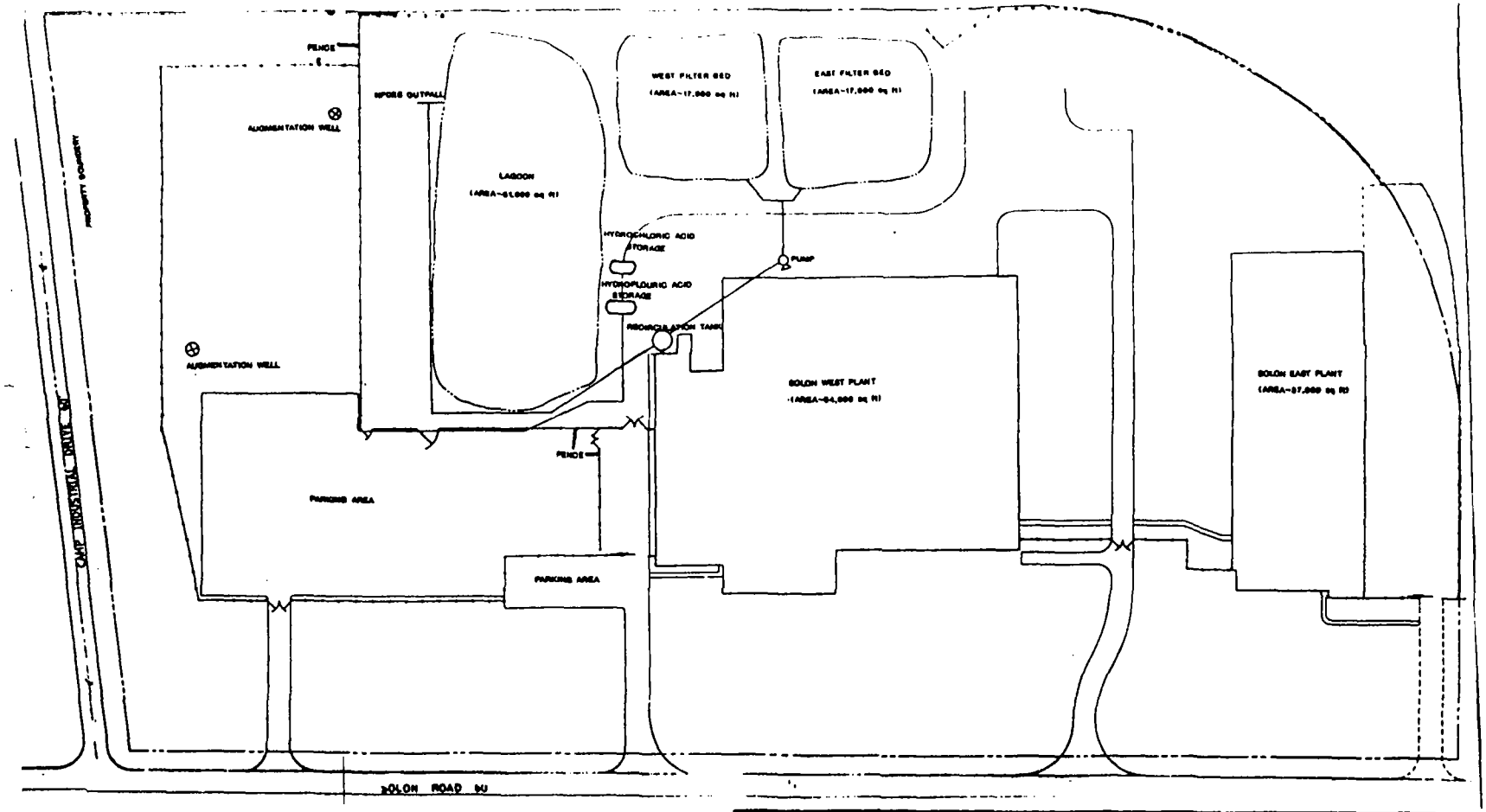
Comments None



ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415

TITLE: SITE LOCATION MAP	FIGURE #: 1
SITE: CORNING GLASS-ZIRCOA PROD.	SCALE: 1:24,000
CITY: SOLON, STATE: OH	P.A.N.: FOH0184SI
SOURCE: USGS TOPOGRAPHIC MAP 7'	DATE: 1963 REVISED: 1979



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111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415

TITLE: SITE SKETCH	FIGURE #: 1
SITE: CORNING GLASS ZIRCOA PROD.	SCALE: NONE
CITY: SOLON STATE: OH	P.A.N.: FOHO599SI
SOURCE: CORNING GLASS ZIRCOA PROD.	DATE: 6/16/87 REVISED

...continued...

HWB201--Rotary Kiln Boiler	191187	09/20/87	Y	* Certificate of Operat. DEPT. OF INDUSTRIAL RELATIONS--DIVISION OF BOILER INSPECTION. * External Inspection- FACTORY MUTUAL.
		08/01/87	Y3	* Internal Inspection- FACTORY MUTUAL.
Building Permits				* No renewals required.
Hoist Inspection	All	1 week after each period	P	* Collect hoist P.M.'s from Maintenance Scheduler.
Noise Inspection	Solon	02/01/87	Y	* Noise survey-CSW INDUSTRIAL SAFETY & HEALTH DEPT. * Refer to OSHA Regulat. 29CFR 1910.95-Occupat. Noise Exposure.
O2 Alarm	037			* Permit-CITY OF SOLON. * No renewals required.
PCB Control				* No PCB in plant. * Not required to submit annual reports. * CSW DEPT. OF ENERGY & ENVIROMENTAL CONTROL.
Presure Vessel Inspections	PRS614	10/87 or 3,000 cycles	Y or 3,000 cycles	* Visual, dimensional, and non-destructive exam of stressed areas with liquid penetrant-NATIONAL FORGE.
		10/91 or 20,000 cycles	Y5 or 20,000 cycles	* Ultrasonic exam to detect surface cracks-NATIONAL FORGE.
Signs	00390			* Permit--CITY OF SOLON BUILDING DEPT. * No renewals required.
HF Storage Tank	T-001	08/22/88	Y3	* Installation Permit-- STATE OF OHIO EPA. * Operation Permit-- STATE OF OHIO EPA.
HCl Storage Tank	T-002			* Installation Permit-- STATE OF OHIO EPA. * Does not require an Operation Permit. * No renewals required.

...continued...

Oil Storage Tank	T-003			* Installation Permit-- STATE OF OHIO EPA. * Does not require an Operation Permit. * No renewals required.
Wastewater Discharge	3IE00014 *DD	09/27/91	Y5	* NPDES Permit--STATE OF OHIO EPA.

D.M. DAVIS
01/29/87