

APPENDIX B



UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION V
230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604

REPLY TO ATTENTION OF:
RCRA ACTIVITIES

APR 13 1982

F. Flaschentrager, Plant Manager
American Hoechst Corporation
501 Brunner Street
Peru, Illinois 61354

RE: Interim Status Acknowledgement USEPA ID No. ILD 087 154 555
FACILITY NAME: AMERICAN HOECHST CORPORATION

Dear Mr. Flaschentrager:

This is to acknowledge that the U.S. Environmental Protection Agency (USEPA) has completed processing your Part A Hazardous Waste Permit Application. It is the opinion of this office that the information submitted is complete and that you, as an owner or operator of a hazardous waste management facility, have met the requirements of Section 3005(e) of the Resource Conservation and Recovery Act (RCRA) for Interim Status. However, should USEPA obtain information which indicates that your application was incomplete or inaccurate, you may be requested to provide further documentation of your claim for Interim Status. Our opinion will be reevaluated on the basis of this information.

As an owner or operator of a hazardous waste management facility, you are required to comply with the interim status standards as prescribed in 40 CFR Parts 122 and 265, or with State rules and regulations in those States which have been authorized under Section 3006 of RCRA. In addition, you are reminded that operating under interim status does not relieve you from the need to comply with all applicable State and local requirements.

The printout enclosed with this letter identifies the limit(s) of the process design capacities your facility may use during the interim status period. This information was obtained from your Part A Permit application. If you wish to handle new wastes, to change processes, to increase the design capacity of existing processes, or to change ownership or operational control of the facility, you may do so only as provided in 40 CFR Sections 122.22 and 122.23.

As stated in the first paragraph of this letter, you have met the requirements of 40 CFR Part 122.23; your facility may operate under interim status until such time as a permit is issued or denied. This will be preceded by a request from this office or the State (if authorized) for Part B of your application. Please contact Arthur Kawatachi of my staff at (312) 886-7449, if you have any questions concerning this letter or the enclosure.

Sincerely yours,

Karl J. Klepitsch, Jr., Chief
Waste Management Branch

Enclosure

cc: A. A. Cetrone, President - Plastics Division
American Hoechst Corporation

RS: y/r/82

APPENDIX C

L0990855087 - La Salle
Illinois Zinc Co.
ILSFN0507992
SF/HRS



CERCLA

Integrated Assessment

6-6-01



Illinois Environmental
Protection Agency

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
1. SITE BACKGROUND	
1.1 INTRODUCTION.....	1
1.2 SITE DESCRIPTION.....	2
1.3 SITE HISTORY.....	3
1.4 REGULATORY STATUS.....	4
2. SIP ACTIVITIES	
2.1 RECONNAISSANCE ACTIVITIES.....	5
2.2 SAMPLING ACTIVITIES.....	5
2.3 KEY SAMPLES.....	8
3. SITE SOURCES	
3.1 WASTE PILE	9
4. MIGRATION PATHWAYS	
4.1 GROUNDWATER PATHWAY.....	11
4.2 SURFACE WATER PATHWAY.....	12
4.3 AIR PATHWAY.....	12
4.45 SOIL EXPOSURE PATHWAY.....	13
5. ADDITIONAL RISK BASED OBJECTIVES	
5.1 TIERED APPROACH TO CORRECTIVE ACTION OBJECTIVES (TACO).....	16
5.2 TACO SOIL OBJECTIVES.....	16
6. BIBLIOGRAPHY.....	18

THE FOLLOWING TABLES AND FIGURES ARE LOCATED AT THE BACK OF THE REPORT

Figure

- 1 STATE OF ILLINOIS LOCATION MAP
- 2 REGIONAL TOPOGRAPHIC MAP
- 3 AERIAL PHOTOGRAPH
- 4 SAMPLING LOCATION MAP
- 5 SAMPLING LOCATION MAP (Background)
- 6 SAMPLING LOCATION MAP (1999 Pre-Cerclis inspection)
- 7 SAMPLING LOCATION MAP (2000 XRF residential sampling)

Table

- 1 SOIL DESCRIPTION TABLE
- 2 SEDIMENT DESCRIPTION TABLE
- 3 KEY SAMPLES TABLE (Soil)
- 4 KEY SAMPLES TABLE (Sediment)
- 5 KEY SAMPLES (Soil Tentatively Identified Compounds)
- 6 KEY SAMPLES (Sediment Tentatively Identified Compounds)
- 7 1999 PRE-CERCLIS XRF SAMPLES TABLE
- 8 2000 XRF RESIDENTIAL SAMPLING TABLE

APPENDIX

- A SITE 4-MILE RADIUS MAP
- B 15-MILE SURFACE WATER ROUTE MAP
- C TARGET COMPOUND LIST AND DATA QUALIFIERS
- D IEPA SITE PHOTOGRAPHS
- E ANALYTICAL RESULTS (Volume 2)

SECTION 1

SITE BACKGROUND

1.1 INTRODUCTION

Illinois Zinc Company (ILSF0507992) was added to the Comprehensive Environmental Response, Compensation and Liability Act Information System (CERCLIS) in September, 1999 as a result of a request for discovery action initiated by the State of Illinois. This action was taken because of a concern that contamination associated with this site may be adversely impacting human health and the environment.

On September 3, 1999 the Illinois EPA's Site Assessment Unit was tasked by the United States Environmental Protection Agency (U.S. EPA) to conduct an Integrated Assessment (IA) investigation of the Illinois Zinc Company site located in Peru, La Salle County, Illinois. This investigation was conducted under the authority of the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended by the Superfund Amendments and Reauthorization Act of 1986.

In March, 2000, the Illinois EPA's Site Assessment Program prepared and submitted to the Region V offices of the U.S. Environmental Protection Agency an IA inspection work plan for the Illinois Zinc Company facility. The sampling portion of the Integrated Site Assessment inspection was conducted on April 18 and 19, 2000 when the Illinois Environmental Protection Agency sampling team collected a total of fifteen onsite soil samples and six sediment samples along the Illinois and Michigan (I&M) canal and Illinois River. A sample summary and map of the sample locations is included at the back

of this report. The IEPA performed the CERCLA Integrated Assessment to determine whether, or to what extent, the site poses a threat to human health and the environment. During the IA inspection soil and sediment samples revealed the presence of elevated levels of contaminants at the site.

1.2 SITE DESCRIPTION

The Illinois Zinc Company site is an inactive zinc smelter located in Peru, IL. and consists of approximately 75 acres. Currently there are a number of individual businesses that are built on the property. The largest is Huntsman Chemical Company, which is located on approximately 32 acres in the northern portion of the site. Other businesses currently located on the old Illinois Zinc Company site include ADM/Growmark/Tabor (approximately 25 acres) and Consolidated Grain (approximately 5 acres) on the south side between Huntsman and the I&M canal and Illinois River. The Burlington Northern Railroad has a set of tracks that lie between the south side of Hunstman Chemical and ADM/Growmark/Tabor.

The area is flat and is located between Brunner Street on the north and the Illinois River and I&M canal on the south. The Peru/LaSalle city boundary line is near the east side of the property and the west side is bordered by the city of Peru wastewater treatment plant and general storage area. The old buildings used in the zinc smelter operations have been razed and new buildings erected. The slag, waste and rubble have been leveled and used for fill to build the land surface up to minimize flooding.

Huntsman Chemical has a number of large buildings and large chemical storage tanks and associated piping. Much of the property has been covered with gravel or asphalt. Other businesses on the property have also constructed buildings and structures needed for their operations. Consolidated Grain has a seawall along the Illinois River and has a facility for unloading grain. ADM/Growmark/Tabor have buildings and facilities for handling grain and there are several large covered salt piles used to store salt that is received via barge.

The site is situated in the South half of the Southeast quarter, Section sixteen, Township thirty-three North, Range one East of the Third Principal Meridian in La Salle County, Illinois. A four-mile radius map of the area surrounding the Illinois Zinc Company site is in Appendix A and a 15-mile surface water pathway map for its drainage is located at the back of this report.

1.3 SITE HISTORY

The Illinois Zinc Company operated from 1870 until the 1940's. The company was involved in the smelting of zinc ore brought in from outside and the production of sulfuric acid as a by-product. Coal used in the smelting process was mined locally. The original property consisted of approximately thirty-five acres and after the closing of the zinc company portions of the property were bought and developed by different businesses. Peru Plow Company was located adjacent to Illinois Zinc Co. on the east side and some of the waste from the zinc company has been used for fill at this and other nearby locations that were not a part of the historical boundaries of the smelter.

A Pre-CERCLIS investigation was conducted by the Illinois EPA on September 8 and 9, 1999. Activities included X-ray Fluorescence (XRF) data collection and fixing the sample locations by means of a Global Positioning System (GPS) unit. During the XRF data collection a total of 193 XRF readings were collected over the entire property and I & M Canal. The results of the screening are included in this report in Table 7.

1.4 REGULATORY STATUS

Illinois Zinc Company closed in the 1940's, before modern environmental regulations were enacted and no permits are known to have been issued. There are a number of active businesses onsite that had no affiliation with the zinc operation. The largest, Huntsman Chemical Company, is regulated under RCRA (Resource Conservation and Recovery Act) as a Large Quantity Generator. The other businesses are not regulated under RCRA.

The property has not had any operations on it that were subject to the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Atomic Energy Act (AEA) or Uranium Mill Tailings Radiation Control Act (UMTRCA).

SECTION 2

INTEGRATED ASSESSMENT ACTIVITIES

2.1 RECONNAISSANCE ACTIVITIES

A site reconnaissance was conducted on June 2, 1999 by a representative from the Illinois EPA's Site Assessment Unit prior to a Pre-CERCLIS investigation. The IEPA representative met with the Huntsman Corporation Manager of Environmental Health and Safety and toured the facility. After the meeting the IEPA representative met with an official of ADM/Growmark/Tabor and explained the purpose of the visit and objectives. Other representatives of TEST (Peru Wastewater Treatment Plant operators), Consolidated Grain and Merte! Gravel were unavailable during the recon and were later contacted by phone. On March 8, 2000 access letters were sent to the above persons notifying the companies that an Integrated Assessment inspection will be performed by IEPA during the week of April 17, 2000. These companies were later contacted by telephone of the exact time of sampling.

2.2 SAMPLING ACTIVITIES

A Pre-CERCLIS investigation was conducted by the Illinois EPA on September 8 and 9, 1999. Activities included collecting site data with an X-ray Fluorescence (XRF) instrument and fixing the sample locations by means of a Global Positioning System (GPS) unit. During XRF data collection a total of 193 locations were tested over the entire property, with 104 being collected on Huntsman Chemical Company property. The

majority of the Huntsman property is covered with buildings, tanks, piping, gravel and concrete and as a result samples could not be obtained over the entire property. Most samples were taken from the eastern portion of the Huntsman property but several were obtained at scattered locations where bare ground was encountered.

Approximately 31 analytic samples were collected at Consolidated Grain Company, which occupies approximately 5 acres at the southwestern portion of the Illinois Zinc Company site. The property appeared to be built on a large slag pile which is exposed on portions of the west, north and east sides. XRF and GPS readings were taken around the perimeter of the pile to determine its size.

The ADM/Growmark/Tabor complex encompasses approximately 25 acres on the south side of the property along the Illinois and Michigan Canal. Approximately 44 XRF readings were taken on this property, and 14 were taken in the I&M canal, which at the time of the inspection was experiencing an unusually low water level. No samples were taken on the Burlington Northern railroad right of way since some samples collected on the properties around the railroad were near the tracks. The Peru Wastewater Treatment Plant on the west side of the site also was not sampled.

The XRF readings were compared against the Tiered Approach to Corrective Action Objectives (TACO) numbers for inhalation/ingestion on an industrial/commercial site. The contaminants that exceeded these levels were lead and mercury, although some levels of zinc and copper were high. Sediment samples collected along the Illinois River and the I & M canal had elevated levels of zinc in all samples that exceeded the Ontario

Sediment screening benchmarks. One sample had elevated levels of lead.

In March, 2000, the Illinois EPA's Site Assessment Program prepared and submitted to the Region V offices of the U.S. Environmental Protection Agency an IA inspection work plan for the Illinois Zinc Company facility. The sampling portion of the Integrated Site Assessment inspection was conducted on April 18 and 19, 2000 when the Illinois Environmental Protection Agency sampling team collected a total of fifteen onsite soil samples and six sediment samples along the Illinois and Michigan (I&M) canal and Illinois River. The samples were collected with hand trowels, bucket augers or a Ponar dredge. The purpose of these samples was to determine if contamination was present onsite and if any contaminants have migrated offsite. All samples were analyzed for the Target Compound List (TCL) in Appendix C. Soil and sediment organic samples were analyzed by Clayton Environmental Consultants, Inc. and soil and sediment inorganics were analyzed by Sentinel, Inc. Both laboratories were under contract with USEPA Region 5. All laboratory results were subsequently validated by USEPA Region 5. Sample locations are shown in figures 4 and 5 and described in Tables 1 and 2. Key sample analytical results from the sampling event is shown in Tables 3 and 4. The analytical results for the soil and sediment samples are compared to the Illinois Environmental Protection agency's Tiered Approach to Corrective Action Objectives (TACO) and to Removal Action Levels (RAL's). Sediment samples were compared to Ontario Sediment Screening and USEPA Ecotox Thresholds benchmarks.

On September 15, 2000 the IEPA Site Assessment Unit collected X-ray Fluorescence data from sixteen private residential yards in the Illinois Zinc Company area to determine if contamination associated with this site was present in the nearby residential area. The results of the screening are shown in Table 8 and the results of Pre-CERCLA XRF screening are in Table 7 of this report.

2.3 KEY SAMPLES

Key samples are samples in which contaminants were detected at concentrations at least three times background levels, or had concentrations of potential health concerns. Analytes were found in onsite soil samples at levels that exceeded these health based benchmarks. These included volatile, semivolatile, pesticide, tentatively identified compounds and inorganic substances. Sediment samples collected onsite contained elevated levels of volatile, semivolatile, pesticide, tentatively identified compounds and inorganic substances. Key samples are shown in Tables 3, 4, 5 and 6 of this report.

SECTION 3

SITE SOURCES

3.1 WASTE PILE

During the 2000 CERCLA Integrated Assessment inspection a total of fifteen onsite soil samples were collected on the property using hand trowels. These samples contained miscellaneous materials including cinders, slag and brick fragments. Analytical results from these samples document the presence of a number of analytes at concentrations which meet the CERCLA program's criteria for observed contamination. The analytical results from the soil samples showed that a number of volatile, semivolatile, pesticides, tentatively identified compounds and inorganic substances are at levels greater than three times background, exceed Removal Action Levels or exceed TACO Cleanup Objectives. The area of contamination is located over much of the property and is within the area delineated by samples X103, X104, X105, X106, X109, X112, X113, X114, X115, X116, X118, X119 X120. The area consists of approximately 37.0 acres.

Information obtained throughout this CERCLA investigation has identified the onsite contaminated soil as the primary source type at the Illinois Zinc Co. site. Given the limited nature of the Integrated Assessment, and consequently, the inability of this investigation to fully characterize the site, the possibility exists that future remedial investigative activity may provide additional information that will lead to a more

comprehensive understanding of this source or the identification of additional areas of concern.

SECTION 4

MIGRATION PATHWAYS

4.1 GROUNDWATER PATHWAY

No groundwater samples were collected during the April 18 and 19, 2000

Integrated Site Assessment inspection of the Illinois Zinc Company site. The geology of the Illinois Zinc Co. area consists of Wisconsin glacial till overlying the bedrock. The bedrock consists of fractured Silurian and Ordovician-aged dolomites and the St. Peter sandstone. The Illinois River is adjacent to the site on the south side and glacial deposits in this area are overlain by alluvial deposits.

Wells are used exclusively for drinking in the area. The towns of La Salle/Peru use groundwater for drinking. La Salle has a shallow well field approximately one and a half miles east of Illinois Zinc along the south side of the Illinois River that uses the sand and gravel aquifer. These wells are located upstream of the site and range in depth from 61 to 70 feet deep. Peru has its wells located approximately one-half mile west of the site. These are deep wells that draw water from the St. Petersburg sandstone at depths of 2,591 to 2,764 feet. The following table, derived from USGS topographic and city maps, lists the estimated population using groundwater within a four-mile radius:

Estimated Groundwater Target Population

On a source	0
0 to 1/4 mile	21
>1/4 to 1/2 mile	3720
>1/2 to 1 mile	3821
>1 to 2 miles	11677

>2 to 3 miles
>3 to 4 miles

160
3694

4.2 SURFACE WATER PATHWAY

No surface water samples were collected during the April 18 and 19, 2000 IA inspection. The property is flat and drainage could enter the I & M canal or Illinois River due to direct runoff or possibly from groundwater onsite discharging to the canal or river. Sediment samples collected in the canal and river showed a number of contaminants, including volatile, semivolatile, pesticides, tentatively identified compounds and inorganic substances that exceeded Ontario Sediment Benchmarks or USEPA ECTOX Thresholds. There are no surface water intakes used for drinking along the 15- mile surface water pathway. A review of the surface water pathway by the Illinois Department of Natural Resources did not find any sensitive environments downstream. The Illinois River is a fishery used both commercially and by recreational fisherman. There is approximately 13 miles of wetland frontage along the stream pathway. A 15-mile surface water route map is include in Appendix B of this report.

4.3 AIR PATHWAY

Air monitoring with a TVA (Toxic Vapor Analyzer) was conducted during the IA inspection during dry periods but did not indicate a release to the breathing zone. Portions of the site are sparsely vegetated and the potential exists for the release of windborne particulates leaving the property since the previous investigation found contaminants in

the top 6 inches of soil.

Access to the property is limited. Huntsman Chemical Company property is fenced and access is through guarded gates. The other businesses are not fenced but are located on private roads that lead to a dead end. There are no trespassing and warning signs posted to discourage unauthorized entry. The property is located at the southeastern edge of Peru, IL. and is in a relatively remote area adjacent to the I & M canal and Illinois River. The nearest school, La Salle-Peru High School, is located approximately one-third of a mile north-northeast of the site. There are approximately 21,541 people who live within a 4-mile radius of the site. The estimated population potential for release is:

Estimate Air Target Population	
On a source	150
0 to 1/4 mile	951
>1/4 to 1/2 mile	4852
>1/2 to 1 mile	7608
>1 to 2 miles	5706
>2 to 3 miles	500
>3 to 4 miles	1774

4.4 SOIL EXPOSURE PATHWAY

Soil samples collected during the IA inspection document areas of observed contamination by contaminants that are attributable to the site. The area is flat and is located between Brunner Street on the north and the Illinois River and I&M canal on the south. The Peru/LaSalle city boundary line is near the east side of the property and the west side is bordered by the city of Peru wastewater treatment plant. The old buildings

used in the zinc smelting operations have been razed and new buildings erected. The slag, waste and rubble have been leveled and used for fill to build the land surface up to minimize flooding. Huntsman Chemical has a number of large buildings and large chemical storage tanks and associated piping. Much of the property has been covered with gravel or asphalt. Other businesses on the property have also constructed buildings and structures needed for their operations. Consolidated Grain has a seawall along the Illinois River and has a facility for unloading grain. ADM/Growmark/Tabor have buildings and facilities for handling grain and there are several large covered salt piles used to store salt that is received via barge. Access to the property is limited to controlled entrance points though guarded locked gates or via private roads. Much of the property is fenced, however unauthorized access via boat is possible on the portions of the site that border the Illinois River and I & M canal.

The nearest school, La Salle-Peru High School, is located approximately one-third of a mile north-northeast of the site. According to Flood Insurance Rate Maps for the area the property is considered to be in the 100 year floodplain. A review of USGS topographic maps, city maps and U.S. Census data indicate that approximately 13,561 people live within a one-mile radius of the site. The estimated population within one mile of the site is:

On a source	150
0 to 1/4 mile	951
>1/4 to 1/2 mile	4852
>1/2 to 1 mile	7608

The IEPA sampled 16 residential yards with an XRF in September, 2000. The sampling found two yards that contained levels of lead and two yards with levels of chromium above CERCLA soil screening levels.

A review by the Illinois Department of Natural Resources did not indicate any terrestrial sensitive environments near the Illinois Zinc Co. site. Wetland Inventory Maps indicate there are approximately 160 acres of wetlands within a half-mile of the site.

SECTION 5

ADDITIONAL RISK BASED OBJECTIVES

This section discusses additional screening objectives used to evaluate the Illinois Zinc Company. These objectives have not been used to assess the site for Hazard Ranking System (HRS) purposes.

5.1 TIERED APPROACH TO CORRECTIVE ACTION OBJECTIVES (TACO)

The Illinois EPA's TACO Guidance Document (proposed rules under 35 IL Adm. Code Part 742), can be used to develop site specific remediation objectives. This document discusses key elements required to develop risk-based remediation objectives, how background values may be used, and provides guidance through three tiers of the risk-based approach. The Illinois EPA uses this guidance, and the groundwater standards established in 36 IL Adm. Code 620, to determine soil and groundwater remediation objectives.

5.2 TACO SOIL OBJECTIVES

The soil contaminants from the Illinois Zinc Co. site were compared to the soil remediation objectives established for Tiered Approach to Corrective Action Objectives (TACO) numbers for inhalation/ingestion on an industrial/commercial site. Tier 1 consists of "look-up" tables, which considers limited site-specific information and are based on simple, numeric models. Several samples exceeded these benchmarks for semivolatile and inorganic substances. The soil key samples are listed in Table 3 and the

TACO Cleanup Objectives and Removal action Levels (RAL's) are shown in the right columns of the table.

SECTION 6

6.1 BIBLIOGRAPHY

Illinois Environmental Protection Agency, 1999. Pre-CERCLIS Action Report for Illinois Zinc Company, ILSFNO507992.

Illinois Environmental Protection Agency, Division of Public Water Supplies. Well Inventory Sheets and topo maps for the city of LaSalle and Peru, IL.

Illinois Department of Natural Resources. Endangered Species Consultation Agency Action Report, July, 2000.

Illinois Department of Public Health. State Initial Evaluation, Illinois Zinc Co., LaSalle county, IL, 2001.

Flood Rate Insurance Map, March 19, 1976 for LaSalle, IL, Federal Emergency Management Agency.

USGS, 1966, Ladd, IL. Quadrangle, 7.5 minute series.

USGS, 1979, Troy Grove, IL. Quadrangle, 7.5 minute series.

USGS, 1979, Spring Valley, IL. Quadrangle, 7.5 minute series.

USGS, 1993, La Salle, IL. Quadrangle, 7.5 minute series.

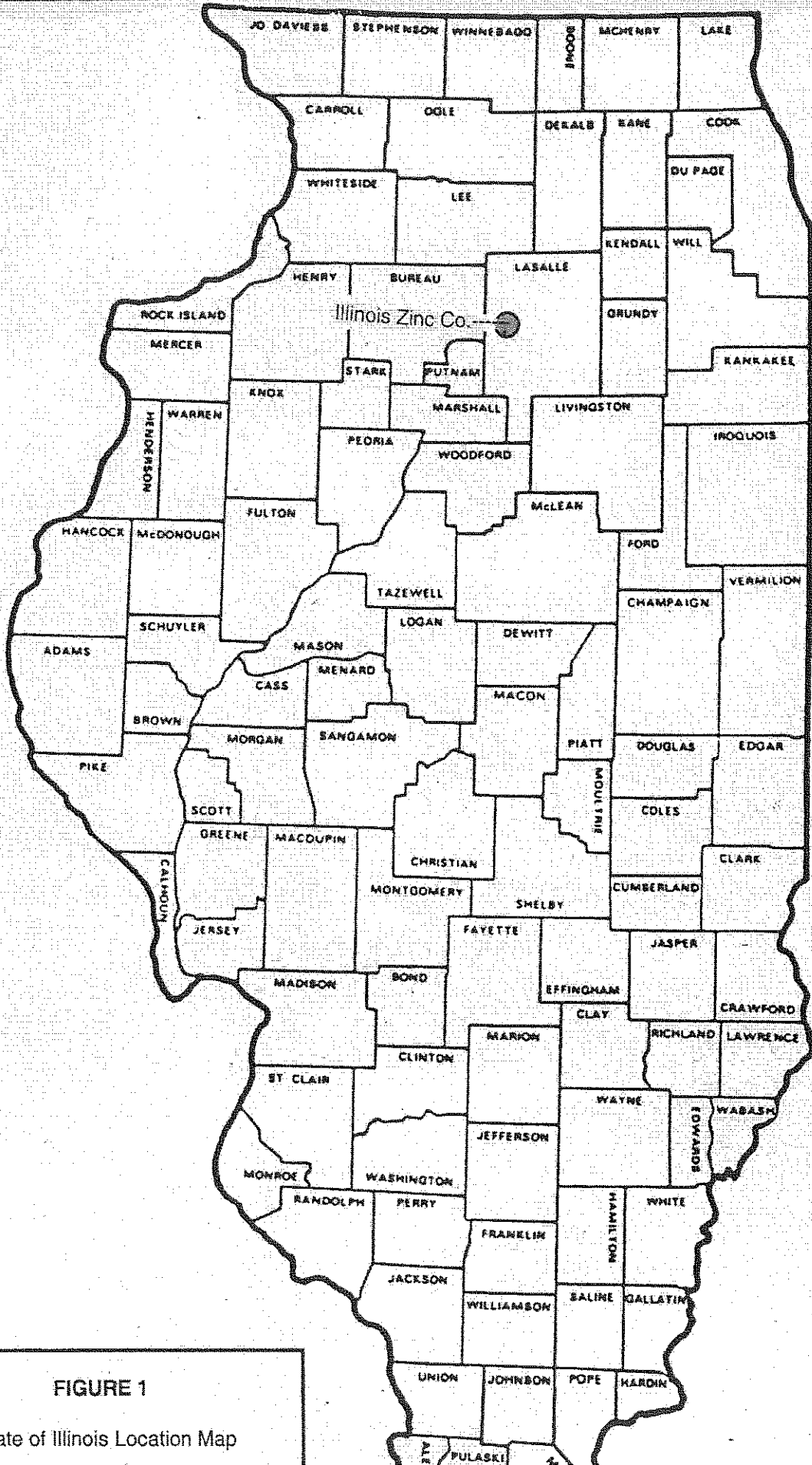


FIGURE 1
State of Illinois Location Map

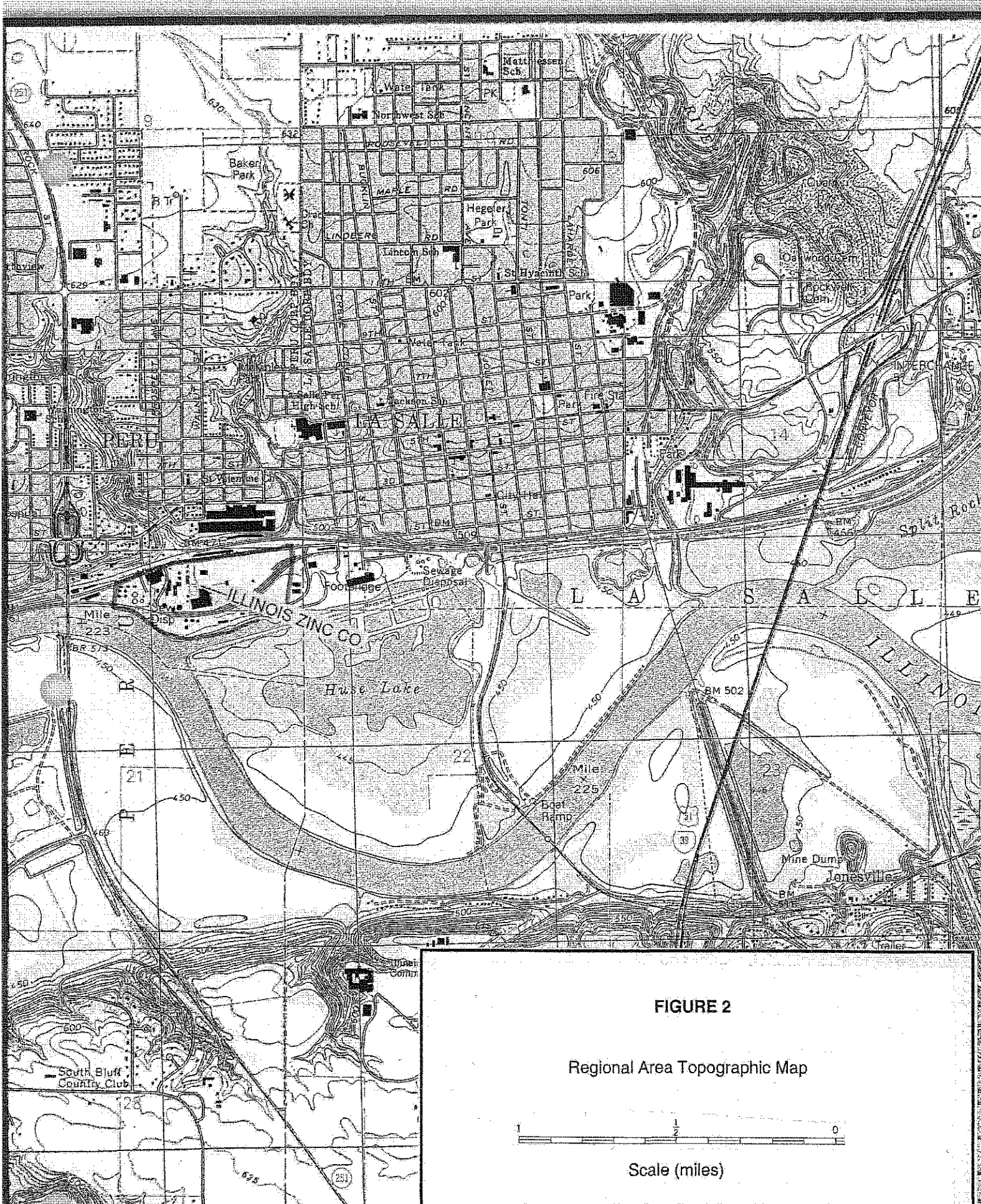
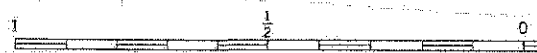


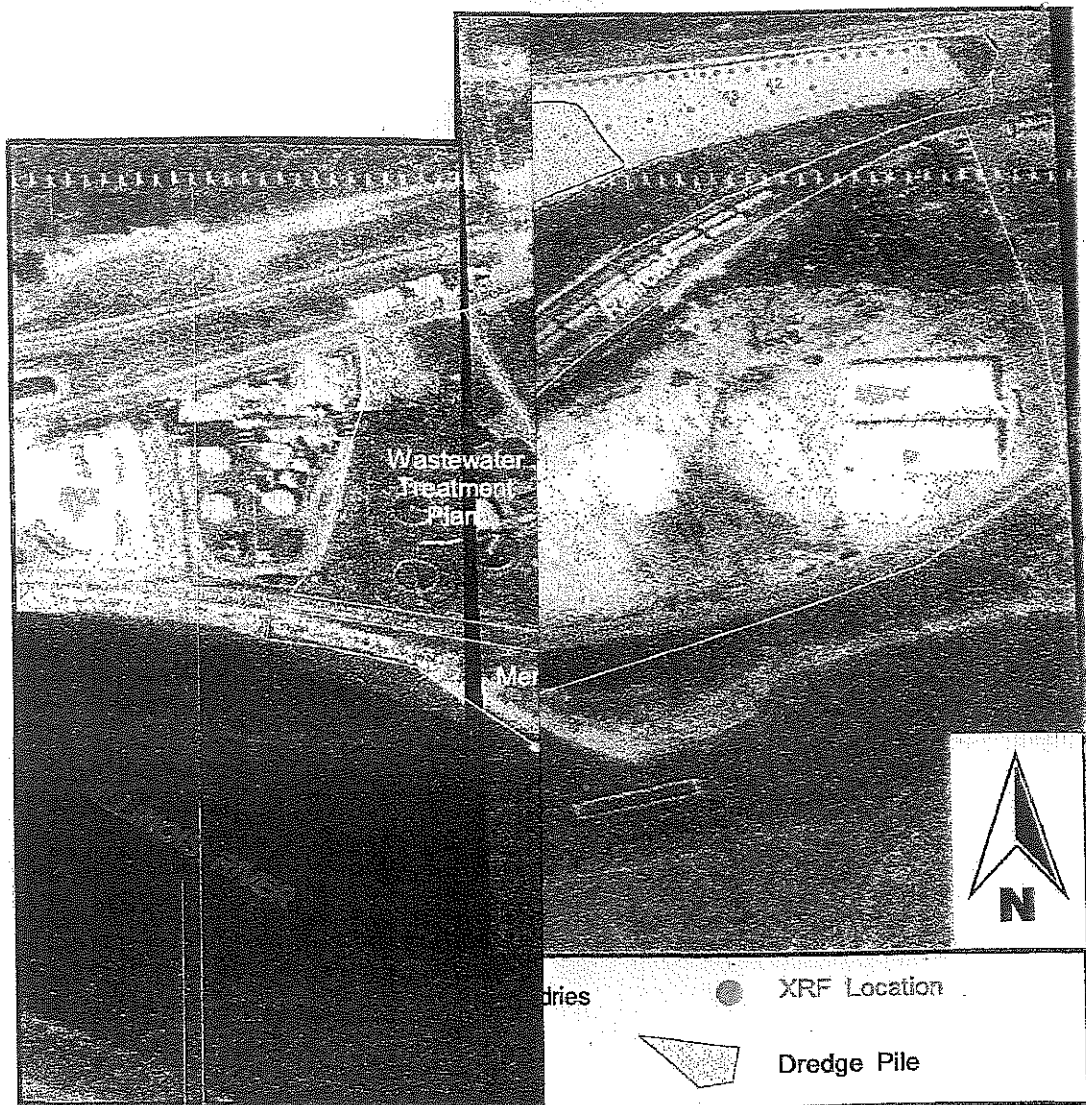
FIGURE 2

Regional Area Topographic Map



Scale (miles)

From: La Salle, IL. 1993 USGS Topographic



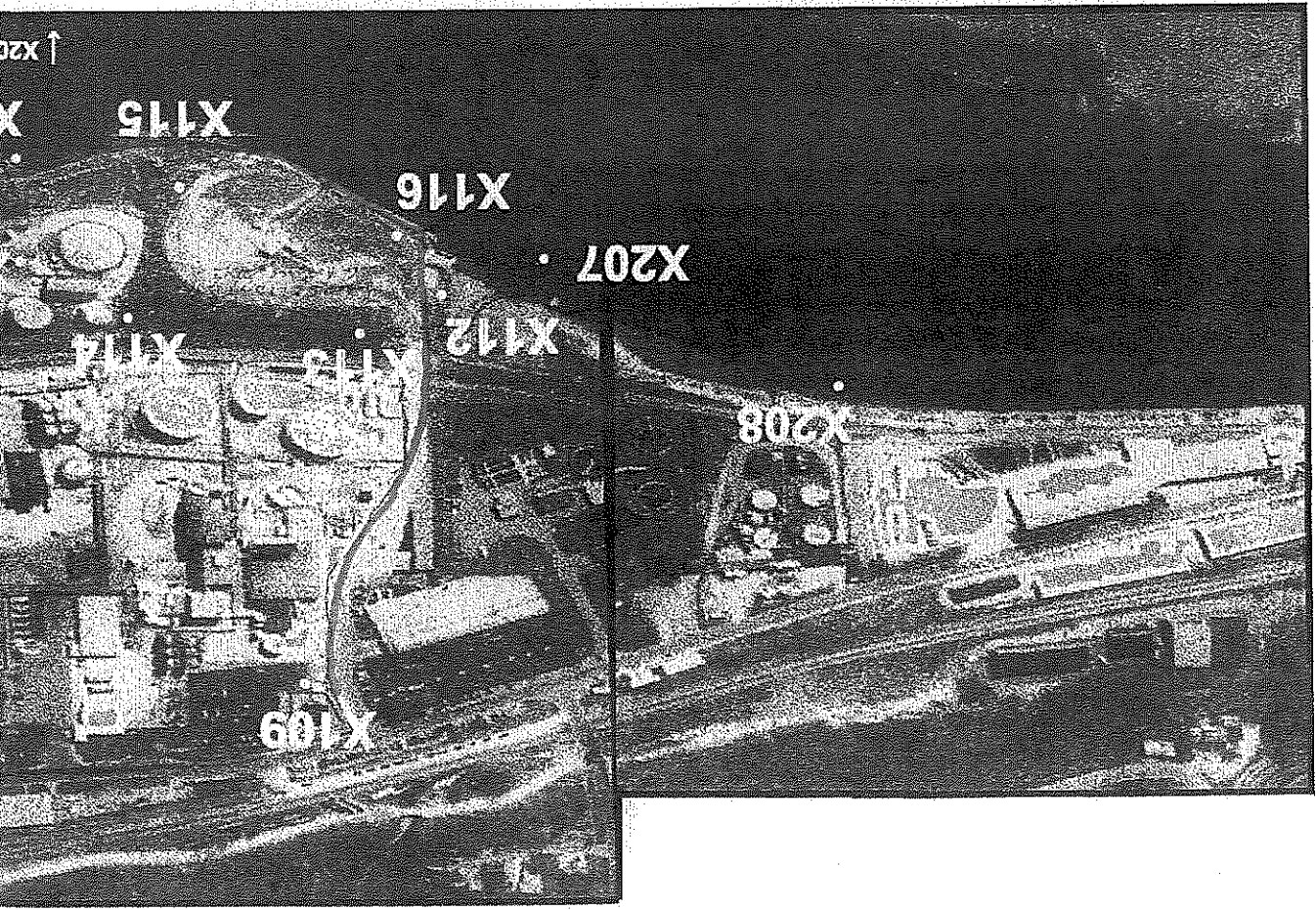
From: Illinois Dep
photo taken

at

Scale: Or

Sample

F



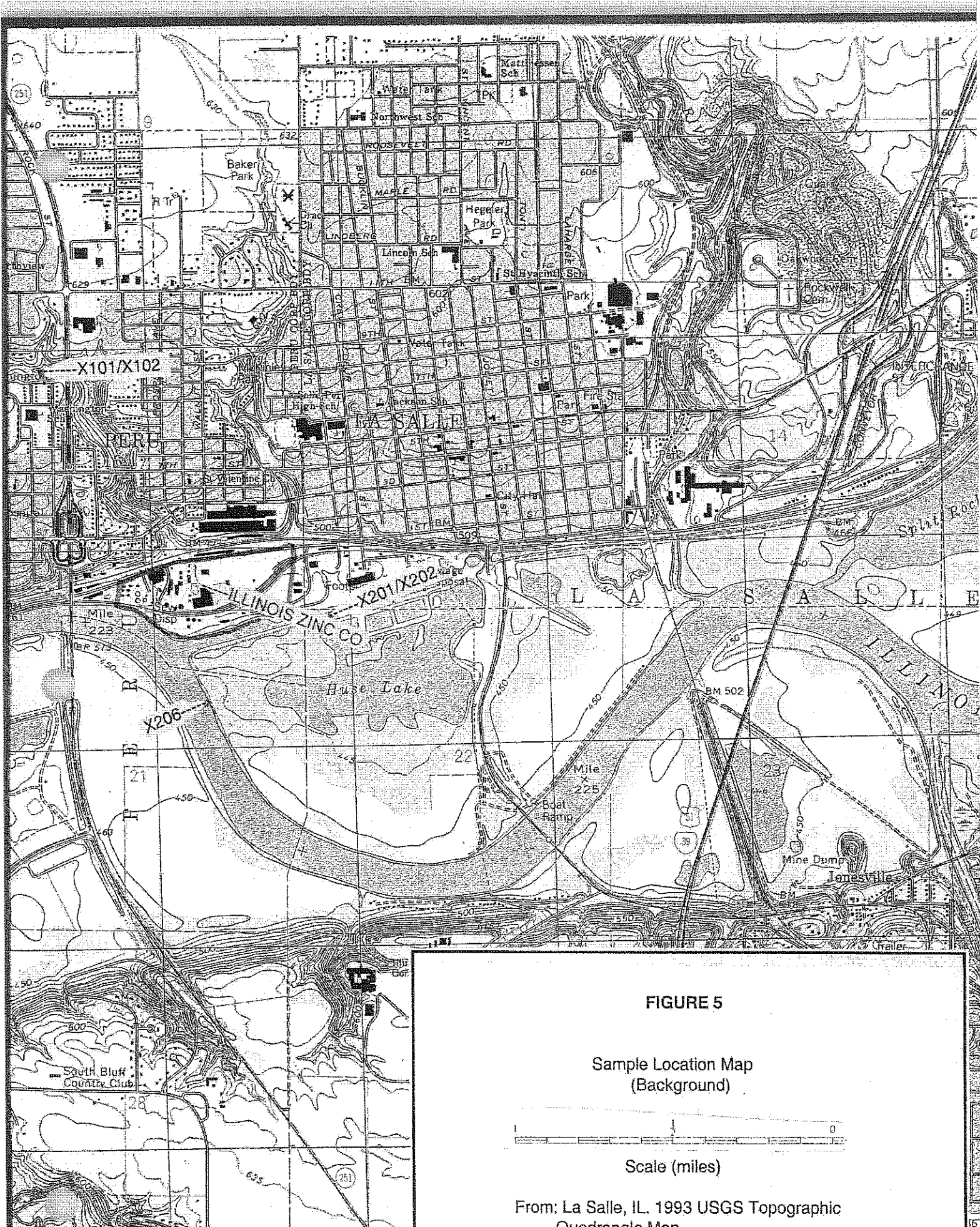


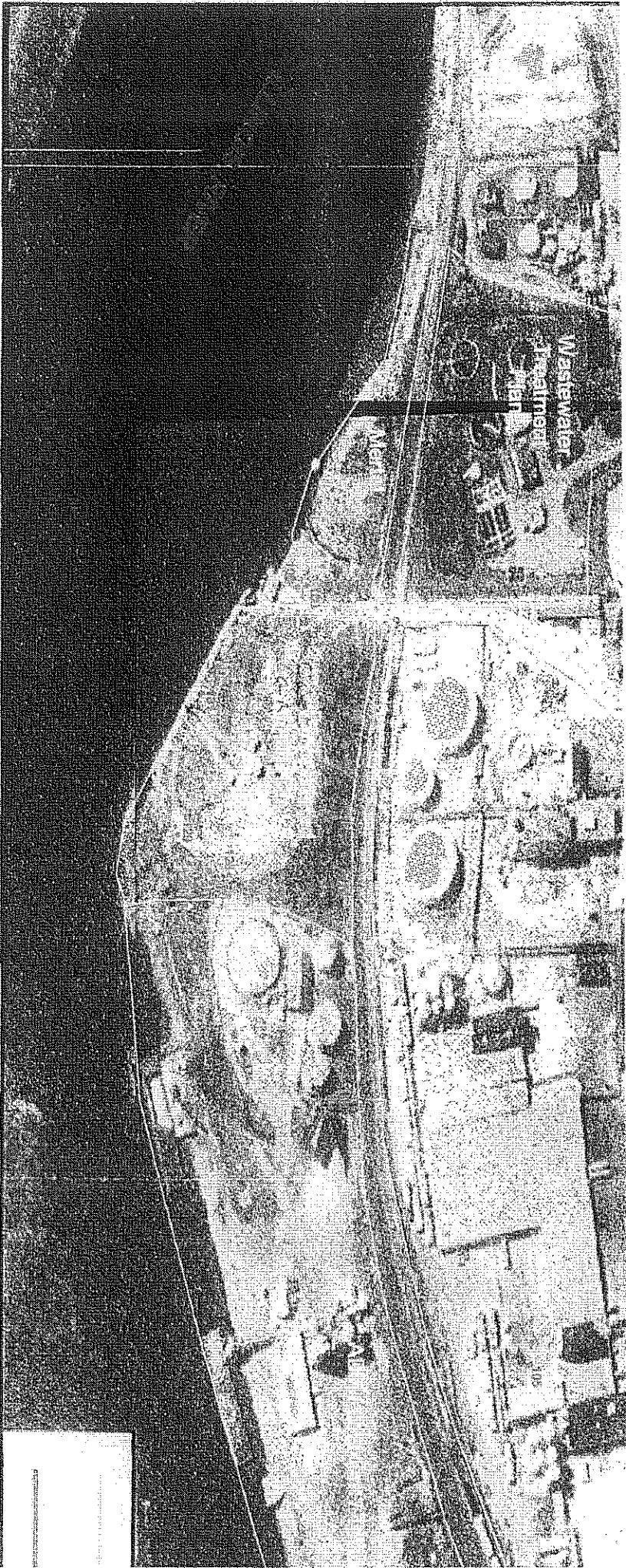
FIGURE 5

Sample Location Map
(Background)



Scale (miles)

From: La Salle, IL. 1993 USGS Topographic
Quadrangle Map



**PRE - CERCLA INVESTIGATIVE
ILLINOIS ZINC COMPANY
SITE MAP**

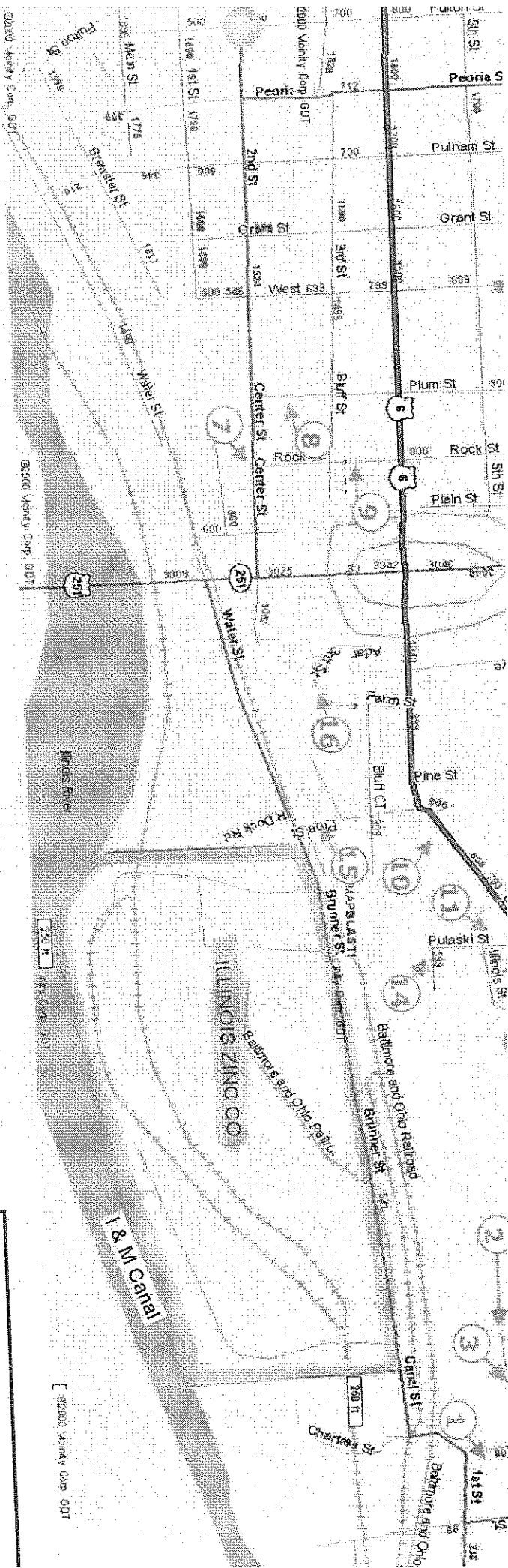


FIGURE 7
 Residential XRF S
 (9/15/2000)

Scale: 1 inch equals approx
 100 feet

From: Vicinity Corp. (www.mapt

TABLE 1
Soil Sample Description

<u>Sample Date Time</u>	<u>Depth</u>	<u>Location</u>	<u>Appearance</u>
X101 X102 04/19/2000 17:00	0 to 3"	Background and duplicate soil sample collected at the south side of Washington Park in Peru, located approximately .6 mile northwest of the site.	Dark loam.
X103 04/18/2000 09:50	8"	Collected at the eastern area of the site, on property that was once the location of Peru Plow Co.	Brown cinders.
X104 04/18/2000 10:10	8"	Collected approximately 300 feet west of X103.	Brown-black cinders.
X105 04/18/2000 10:30	6"	Collected in the Northeastern area of the property, near Brunner Street.	Black-brown cinders.
X106 04/18/2000 10:45	8"	Collected approximately 250 feet west of X105.	Black-brown cinders.
X107 04/18/2000 11:10	6'	Collected at the south central area of Huntsman Chemical Co. at a location where a trench was being dug for a water main. Trench had a 6 feet profile.	Black-brown cinders.
X109 04/18/2000 11:30	10"	Collected at the northeastern corner of Huntsman Chemical Co.	Black cinders.
X112 04/18/2000 12:30	8"	Collected on Huntsman Chemical Co. property by the western loading and the Peru wastewater treatment plant.	Fill material
X113 04/18/2000 16:330	6"	Collected at the northeastern portion of the slag pile at Consolidated Grain Co., located at the southwestern portion of the site.	Redish slag material.
X114 04/18/2000 16:45	6"	Collected at the northeast area of the slag pile at Consolidated Grain Co.	Dark fine slag.
X115 04/18/2000 17:00	6"	Collected at the southeast area of the slag pile at Consolidated Grain Co.	Red-brown fine slag.
X116 04/18/2000 17:15	6"	Collected at the southwestern area of the slag pile at Consolidated Grain Co.	Red fine to coarse slag.
X117 04/18/2000 15:30	6"	Collected at the south end of the property, near where the I & M Canal and Illinois River converge.	Oily soil, cinders.
X118 04/18/2000 15:00	6"	Collected at the south end of the site approximately halfway of the site's frontage along the I & M Canal.	Broken brick, cinders, soil.
X119 04/18/2000 14:00	2'	Collected at the southeasterly portion of the site, near the bank of the I & M canal.	Cinders and brick fragments.
X120 04/18/2000 14:15	6"	Collected at the southeast corner of the site, on the bank of the I & M canal.	Cinders and brick fragments.

TABLE 2
Sediment Sample Description

Sample Date Time	Depth	Location	Appearance
X201 04/19/2000 09:15	3" to 6"	Background sample collected from the I & M Canal approximately 300' upstream of the eastern most site property boundary.	Black silt.
X203 04/18/2000 14:25	3" to 6"	Collected in the I & M Canal at the southeast corner of the site.	Black muck.
X204 04/18/2000 15:10	3" to 6"	Collected in the I & M Canal midway between the site's frontage along the canal.	Cinders, brick.
X205 04/19/2000 12:30	0 to 3" (Collected with a Ponar dredge)	I & M Canal by a seawall near the canal's convergence with the Illinois River.	Black silt, kernels of split corn.
X206 04/19/2000 12:45 PM	3" to 6"	Illinois River background sample collected approximately 700 feet south of the site.	Black sandy silt.
X207 04/19/2000 13:00	3" to 6"	Collected in the Illinois River near the Huntsman chemical Co. crane.	Black silt.
X208 04/19/2000 13:15	3" to 6"	Collected in the Illinois River near Mertle Co.	Fine black silt.

SITE NAME Illinois Zinc Co.
 ILD NUMBER ILSN0507992

TABLE 3
 KEY SAMPLES
 (Soil)

SAMPLING POINT	X101 4-19-00 (Background)	X102 4-19-00	X103 4-18-00	X104 4-18-00	X105 4-18-00	X106 4-18-00	X107 4-18-00	X109 4-18-00	X112 4-18-00	TACO CLEANUP OBJECTIVES	RAI's
VOLATILES											
Acetone	--	--	--	--	--	--	--	60.0	--	200,000	--
2-Butanone (MEK)	5.0 J	6.0 J	--	--	--	--	--	17.0	--	--	--
Trichloroethene	--	--	--	--	2.0 J	--	--	--	2.0 J	--	--
Benzene	--	--	3.0 J	4.0 J	2.0 J	2.0 J	--	--	2.0 J	200.0	5,900,000
2-Hexanone	--	--	--	--	--	--	--	2.0 J	--	--	--
Toluene	--	--	4.0 J	5.0 J	2.0 J	1.0 J	--	1.0 J	--	410,000	16,000,000
Ethylbenzene	--	--	1.0 J	--	2.0 J	--	--	--	--	200,000	78,000,000
Xylenes (total)	--	--	3.0 J	3.0 J	2.0 J	1.0 J	--	--	--	1,000,000	--
Cyclohexane	--	--	5.0 J	2.0 J	3.0 J	1.0 J	--	--	--	--	--
Methylcyclohexane	--	--	5.0 J	2 J	4.0 J	2.0 J	2.0	--	--	--	--
	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	mg/Kg	ug/Kg
SEMIVOLATILES											
Phenol	--	--	21.0 J	--	55.0 J	29.0 J	--	--	--	1,000,000	470,000,000
Acetophenone	--	--	100.0 J	230.0 J	880.0	840.0	26.0 J	390.0 J	--	--	--
1,1'-Biphenyl	--	--	53.0 J	22.0 J	22.0 J	--	--	91.0 J	--	--	--
2-Methylphenol	--	--	--	--	--	--	--	--	--	100,000	--
bis(2-Chloroisopropyl)ether	--	--	--	--	--	--	--	--	--	--	--
4-Methylphenol	--	--	35.0 J	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	--	--	--	--	--	--	--	--	--	41,000	16,000,000
Benzoic acid	--	--	--	--	--	--	--	--	--	1,000,000	--
Naphthalene	--	--	520.0	97.0 J	120.0 J	120.0 J	44.0 J	220.0 J	--	62,000	500,000
4-Chloro-3-Methylphenol	--	--	--	36.0 J	--	--	--	--	--	--	--
2-Methylnaphthalene	--	--	1000.0	180.0 J	240.0 J	240.0 J	150.0 J	680.0 J	--	--	--
Acenaphthylene	--	--	160.0 J	20.0 J	120.0 J	100.0 J	--	260.0 J	--	--	--
Acenaphthene	--	--	160.0 J	25.0 J	73.0 J	61.0 J	--	--	--	120,000	500,000
Dibenzofuran	--	--	330.0 J	54.0 J	83.0 J	58.0 J	--	170.0 J	--	--	--
2,4-Dinitrotoluene	--	--	36.0 J	--	--	--	--	--	--	8.4	--
Fluorene	--	--	190.0 J	23.0 J	80.0 J	72.0 J	--	110.0 J	--	82,000	1,000,000
N-Nitrosodiphenylamine	--	--	--	--	20.0 J	--	--	89.0 J	--	1,200	35,000,000
Hexachlorobenzene	--	--	--	--	26.0 J	--	--	220.0 J	--	4.0	110,000
Pentachlorophenol	--	--	--	26.0 J	--	--	--	--	--	24.0	100,000
Phenanthrene	--	26.0 J	4900.0	430.0	1300.0	1200.0	200.0 J	1900.0	120.0 J	--	1,000,000
Anthracene	--	--	710.0	62.0 J	260.0 J	270.0 J	--	460.0 J	23.0 J	610,000	1,000,000
Di-n-Butylphthalate	--	--	--	36.0 J	--	--	36.0 J	--	--	200,000	78,000,000
Fluoranthene	30.0 J	41.0 J	5100.0	510.0	2100.0	2200.0	100.0 J	3400.0	190.0 J	82,000	1,000,000
Pyrene	27.0 J	38.0 J	4700.0	480.0	2200.0	2200.0	110.0 J	3600.0	190.0 J	61,000	1,000,000
Butylbenzylphthalate	--	--	--	--	--	--	--	160.0 J	--	410,000	160,000,000
Benzo(a)anthracene	--	--	2000.0	270.0 J	1000.0	1100.0	46.0 J	1300.0 J	120.0 J	8.0	1,000,000
Chrysene	24.0 J	32.0 J	2100.0	360.0 J	1200.0	1200.0	--	2500.0	140.0 J	780.0	1,000,000
Benzo(b)fluoranthene	--	30.0 J	1400.0	270.0 J	890.0	980.0	36.0 J	2500.0	95.0 J	8.0	1,000,000
Benzo(k)fluoranthene	--	26.0 J	1500.0	300.0 J	900.0	860.0	30.0 J	1800.0	110.0 J	78.0	1,000,000
Benzo(a)pyrene	--	25.0 J	1500.0	280.0 J	960.0	940.0	29.0 J	2000.0	95.0 J	0.8	1,000,000
Indeno(1,2,3-cd)pyrene	--	--	690.0	190.0 J	430.0	410.0	--	1000.0 J	49.0 J	2,000	1,000,000
Dibenz(a,h)anthracene	--	--	270.0 J	65.0 J	170.0 J	170.0 J	--	330.0 J	--	0.8	1,000,000
Benzo(g,h,i)perylene	--	--	490.0	160.0 J	310.0 J	290.0 J	--	790.0 J	33.0 J	--	1,000,000
Carbazole	--	--	360.0 J	41.0 J	96.0 J	59.0 J	--	300.0 J	--	290.0	--
Atrazine	--	--	120.0 J	93.0 J	65.0 J	52.0 J	--	--	--	72,000	--
	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	mg/Kg	ug/Kg
PESTICIDES											
Heptachlor	--	--	--	--	--	--	1.3 J	13.0 J	--	1.0	38,000
Aldrin	--	--	--	4.0 J	--	--	1.3 J	--	--	0.3	10,000
Heptachlor epoxide	--	--	--	4.1 J	--	16.0 J	--	--	--	0.6	23,000
Dieldrin	--	--	3.2 J	--	--	--	1.5 J	--	1.3 J	0.4	11,000
Endrin	--	--	--	7.0 J	--	--	--	--	--	610.0	230,000
Methoxychlor (Mariate)	--	--	--	--	--	12.0 J	--	--	--	10,000	--
Endrin Ketone	--	--	15.0 J	6.8 J	7.3 J	7.3 J	--	26.0 J	--	--	--
gamma-Chlorodane	--	--	--	--	--	--	--	11.0 J	--	4.0	--
Aroclor-1254	--	--	--	550.0 J	--	--	--	--	--	--	22,000
	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	mg/Kg	ug/Kg
INORGANICS											
Arsenic	6.3	6.7	7.2	15.9	14.2	25.1	15.1	12.2	23.3	3.0	200.0
Beryllium	0.59	0.68	1.4	2.2	2.8	2.3	2.3	1.2	4.4	1.0	40.0
Cadmium	2.6	2.4	--	7.3	26.0	34.8	20.6	28.5	46.6	2,000	25.0
Chromium	12.1	14.6	--	62.1	--	--	--	--	14.4	10,000	400.0
Cobalt	4.7	4.9	--	--	15.1	17.9	--	24.0	62.3	120,000	--
Copper	17.2 J	18.1 J	70.6 J	317 J	192 J	299 J	380 J	424 J	856 J	82,000	5,000
Lead	38.6	46.6	--	156	765	1470	659	1170	488	400.0	1,000
Mercury	0.070 UJ	0.090 J	0.070 J	--	0.16 J	1.8 J	--	0.080 J	0.97	610.0	1,600
Nickel	10.8	12.3	34.9	116	--	55.3	--	--	33.9	41,000	1,600
Silver	0.85 J	0.90 J	--	3.5	3.0	5.0	--	--	4.6	10,000	2,300
Thallium	0.99 U	0.99 U	1.8 J	4.6 J	2.9 J	2.9 J	3.3 J	1.9 J	4.8 J	160.0	55.0
Zinc	373 J	401 J	--	1420 J	7630 J	14400 J	10900	27200 J	17800	610,000	160,000
PH	7.4	7.4	8.5	7.8	8.5	8.2	7.3	8.0	8.0	--	--
	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg

Cleanup Objectives are based on the Illinois Environmental Protection Agency's Tiered Approach to Corrective Action Objectives. The objectives presented in this table are based on Tier 1 Ingestion/Inhalation for the Soil Exposure Route for an Industrial/Commercial scenario.

SITE NAME Illinois Zinc Co.
 ILD NUMBER ILSN0507992

TABLE 3
 KEY SAMPLES
 (Soil)

SAMPLING POINT	X101	X113	X114	X115	X116	X117	X118	X119	X120	TACO CLEANUP OBJECTIVES	RAL's
PARAMETER	4-19-00	4-18-00	4-18-00	4-18-00	4-18-00	4-18-00	4-18-00	4-18-00	4-18-00		
	(Background)										
VOLATILES											
Trichloroethene	--	2.0 J	2.0 J	8.0 J	--	5.0 J	--	--	--	--	--
Benzene	--	--	--	--	--	10.0 J	--	--	--	200.0	5,900,000
2-Hexanone	--	--	--	--	--	--	--	--	--	--	--
Toluene	--	--	--	--	--	15.0 J	1.0 J	2.0 J	--	410,000	16,000,000
Ethylbenzene	--	--	--	--	--	1.0 J	--	--	--	200,000	78,000,000
Xylene(total)	--	--	--	--	--	6.0 J	--	--	--	1,000,000	--
Cyclohexane	--	--	--	--	--	3.0 J	--	--	--	--	--
Methylcyclohexane	--	--	--	--	--	3.0 J	--	--	--	--	--
	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	mg/Kg	ug/Kg
SEMI-VOLATILES											
Benzaldehyde	150.0 J	--	23.0 J	--	--	660.0	85.0 J	230.0 J	47.0 J	--	--
Phenol	--	--	--	--	--	--	20.0 J	23.0 J	--	1,000,000	470,000,000
Acetophenone	--	--	23.0 J	--	--	740.0	170.0 J	130.0 J	57.0 J	--	--
1,1'-Biphenyl	--	--	--	--	--	400.0	85.0 J	56.0 J	19.0 J	--	--
2-Methylphenol	--	--	--	--	--	230.0 J	25.0 J	--	--	100,000	--
bis(2-Chloroisopropyl)eth	--	--	--	--	--	--	--	--	--	--	--
4-Methylphenol	--	--	--	--	--	210.0 J	26.0 J	22.0 J	--	--	--
2,4-Dimethylphenol	--	--	--	--	--	280.0 J	47.0 J	--	--	41,000	16,000,000
Benzoic acid	--	--	--	--	--	--	--	--	--	1,000,000	--
Naphthalene	--	--	--	--	--	3500.0	630.0	460.0	130.0 J	82,000	500,000
4-Chloro-3-Methylphenol	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	--	--	--	--	--	5600.0	1200.0	970.0	--	--	--
Acenaphthylene	--	--	--	--	--	70.0 J	34.0 J	53.0 J	34.0 J	--	--
Acenaphthene	--	--	--	--	--	100.0 J	42.0 J	47.0 J	23.0 J	120,000	500,000
Dibenzofuran	--	--	--	--	--	1200.0	280.0 J	310.0 J	160.0 J	--	--
2,4-Dinitrotoluene	--	--	--	--	--	170.0 J	57.0 J	75.0 J	--	8.4	--
Fluorene	--	--	--	--	--	130.0 J	49.0 J	73.0 J	30.0 J	82,000	1,000,000
N-Nitrosodiphenylamine	--	--	--	--	--	--	70.0 J	51.0 J	19.0 J	1,200	35,000,000
Hexachlorobenzene	--	--	20.0 J	25.0 J	26.0 J	--	--	--	--	4.0	110,000
Pentachlorophenol	--	--	25.0 J	--	--	23.0 J	--	--	--	24.0	100,000
Phenanthrene	--	--	38.0 J	500.0	49.0 J	2200.0	810.0	910.0	360.0 J	--	1,000,000
Anthracene	--	--	--	99.0 J	--	220.0 J	85.0 J	110.0 J	50.0 J	610,000	1,000,000
Di-n-Butylphthalate	--	--	--	--	--	--	--	--	--	200,000	78,000,000
Fluoranthene	30.0 J	38.0 J	36.0 J	990.0	63.0 J	420.0	230.0 J	400.0 J	210.0 J	82,000	1,000,000
Pyrene	27.0 J	42.0 J	27.0 J	940.0	53.0 J	720.0 J	300.0 J	460.0	260.0 J	61,000	1,000,000
Butylbenzylphthalate	--	--	--	--	--	--	--	--	--	410,000	160,000,000
Benzo(a)anthracene	--	30.0 J	--	500.0	26.0 J	540.0	210.0 J	250.0 J	130.0 J	8.0	1,000,000
Chrysene	24.0 J	37.0 J	--	670.0	30.0 J	760.0	250.0 J	320.0 J	200.0 J	780.0	1,000,000
Benzo(b)fluoranthene	--	32.0 J	--	540.0	23.0 J	420.0	140.0 J	250.0 J	91.0	8.0	1,000,000
Benzo(k)fluoranthene	--	31.0 J	--	420.0	20.0 J	280.0 J	160.0 J	220.0 J	110.0 J	78.0	1,000,000
Benzo(a)pyrene	--	32.0 J	--	410.0	--	600.0	200.0 J	270.0 J	100.0 J	0.8	1,000,000
Indeno(1,2,3-cd)pyrene	--	--	--	230.0 J	--	79.0 J	42.0 J	180.0 J	36.0 J	2,000	1,000,000
Dibenz(a,h)anthracene	--	--	--	92.0 J	--	75.0 J	31.0 J	53.0 J	--	0.8	1,000,000
Benzo(g,h,i)perylene	--	--	--	190.0 J	--	110.0 J	63.0 J	580.0	51.0 J	--	1,000,000
Carbazole	--	--	--	26.0 J	--	220.0 J	63.0 J	62.0 J	26.0 J	290.0	--
Atrazine	--	--	--	--	--	200.0 J	--	--	59.0 J	72,000	--
	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	mg/Kg	ug/Kg
PESTICIDES											
delta-BHC	--	--	--	--	--	--	0.56 J	--	--	--	--
gamma-BHC (Lindane)	--	--	--	--	--	--	--	--	5.4	4.0	--
Heptachlor	--	--	--	--	--	5.2 J	11.0 J	11.0 J	3.7 J	1.0	38,000
Aldrin	--	--	--	--	--	6.2 J	--	--	15.0	0.3	10,000
Dieldrin	--	--	2.7 J	--	1.7 J	--	5.1 J	13.0 J	--	0.4	11,000
Endrin	--	--	--	--	--	--	--	--	15.0 J	610.0	230,000
Endrin Ketone	--	--	--	--	--	--	8.9 J	9.9 J	4.6 J	--	--
gamma-Chlorodane	--	--	--	--	--	1.1 J	3.0	2.0 J	--	4.0	--
Aroclor-1254	--	--	--	--	--	--	--	--	780.0	--	22,000
	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	mg/Kg	ug/Kg
INORGANICS											
Antimony	0.73 UJ	0.65 UJ	3.0 J	2.1 J	1.3 J	0.62 J	0.57 UJ	0.63 UJ	0.60 UJ	820.0	--
Arsenic	6.3	3.1	35.8	22.7	13.0	7.6	6.4	11.5	12.0	3.0	200.0
Barium	168	93.3	613	382	87.6	45.9	89.0	92.5	169	140,000	--
Beryllium	0.59	2.5	1.2	6.9	1.9	0.38	0.59	0.92	1.2	1.0	40.0
Cadmium	2.6	13.2	22.7	42.5	16.6	1.4	4.0	4.2	10.2	2,000	25.0
Cobalt	4.7	2.7	16.3	37.1	11.6	7.2	4.6	5.5	11.0	120,000	--
Copper	17.2 J	40.3 J	420 J	635 J	1490 J	97.0 J	47.7 J	60.3 J	137 J	82,000	5,000
Lead	38.6	146	730	2090	213	91.6	64.6	86.1	155	400.0	1,000
Mercury	0.070 UJ	0.22	1.5	6.2	1.9	0.11	0.10	0.13	0.32	610.0	1,600
Selenium	0.62 U	0.55 U	5.9	2.4 J	2.4 J	0.54 J	0.99 J	3.3	4.8	10,000	2,300
Silver	0.85 J	0.17 U	4.7	2.7	4.0	1.8	0.81	1.4	1.9	10,000	2,300
Thallium	0.99 U	0.87 U	3.7 J	2.1 J	2.5 J	2.8 J	1.3 J	2.0 J	2.5 J	160.0	55.0
Zinc	373 J	1190	9340	26800	26800	1960	1480	1490	8290	610,000	160,000
Cyanide	0.58 J	0.16 J	0.35 J	0.20 J	0.25 J	2.9	5.5	1.1	5.1	41,000	350.0
PH	7.4	7.6	7.5	7.3	7.9	8.4	8.1	8.0	7.1	--	--
	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg

Cleanup Objectives are based on the Illinois Environmental Protection Agency's Tiered Approach to Corrective Action Objectives. The objectives presented in this table are based on Tier 1 Ingestion/Inhalation for the Soil Exposure Route for an Industrial/Commercial scenario.

SITE NAME Illinois Zinc Co.
 ILD NUMBER ILSN0507992

TABLE 5
 Key Samples
 Tentatively Identified Compounds
 (Soil)

SAMPLING POINT	X101 4-19-00	X102 4-19-00	X103 4-18-00	X104 4-18-00	X105 4-18-00	X106 4-18-00	X107 4-18-00	X109 4-18-00	X112 4-18-00	
PARAMETER	(Background)									
VOLATILES										
Acetaldehyde	--	--	13.0 NJ	9.0 NJ	--	--	--	--	--	
	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	
SEMIVOLATILES										
11H-BENZO(B)FLUORENE	--	--	--	--	--	490.0 NJ	--	--	--	
9,10-ANTHRACENEDIONE	--	--	--	--	280.0 NJ	--	--	--	--	
ANTHRACENE, 2-METHYL-	--	--	830.0 NJ	--	--	--	110.0 NJ	--	--	
ANTHRACENE, 2-METHYL- (7)	--	--	--	--	--	330.0 NJ	--	--	--	
ANTHRACENE, 2-METHYL- (8)	--	--	--	--	--	290.0 NJ	--	--	--	
ANTHRACENE, 2-METHYL- (20)	--	--	1100.0 NJ	--	--	--	--	--	--	
ANTHRACENE, 2-METHYL- (21)	--	--	480.0 NJ	--	--	--	--	--	--	
BENZENE, 1,2,3-TRIMETHYL-	--	--	450.0 NJ	--	--	--	--	--	--	
NAPHTHALENE, 1,3-DIMETHYL-	--	--	570.0 NJ	180.0 NJ	--	--	--	--	--	
NAPHTHALENE, 1,5-DIMETHYL-	--	--	400.0 NJ	--	510.0 NJ	--	--	--	--	
NAPHTHALENE, 1-METHYL-	--	--	690.0 NJ	--	--	--	--	--	--	
NAPHTHALENE, 2,3-DIMETHYL-	--	--	1200.0 NJ	--	--	--	--	--	--	
NAPHTHALENE, 2,7-DIMETHYL-	--	--	500.0 NJ	200.0 NJ	--	--	--	--	--	
PHENANTHRENE, 4-METHYL-	--	--	1200.0 NJ	--	--	--	--	--	--	
1H-INDENE, 2,3-DIHYDRO-1,1,2,3,3-PE	--	--	520.0 NJ	--	--	--	--	--	--	
9H-FLUOREN-9-ONE	--	--	1200.0 NJ	--	--	--	--	--	--	
AZULENE, 7-ETHYL-1,4-DIMETHYL-	--	--	910.0 NJ	--	--	--	--	--	--	
DIBENZOFURAN, 4-METHYL- (12)	--	--	280.0 NJ	--	--	--	--	--	--	
DIBENZOFURAN, 4-METHYL- (13)	--	--	280.0 NJ	--	--	--	--	--	--	
NAPHTHALENE, 1,4,8-TRIMETHYL-	--	--	300.0 NJ	--	--	--	--	--	--	
NAPHTHALENE, 2,3,6-TRIMETHYL-	--	--	360.0 NJ	91.0 NJ	--	--	--	470.0 NJ	--	
(2,2)PARACYCLOPHAN	--	--	--	--	280.0 NJ	--	--	--	--	
2,4(1H,3H)-PYRIMIDINEDIONE, 5-BROMO	--	--	--	--	4100.0 NJ	--	--	--	--	
2,5-CYCLOHEXADIENE-1,4-DIONE, 2,5-D	--	--	--	--	220.0 NJ	--	--	--	--	
2-PHENYLNAPHTHALENE	--	--	430.0 NJ	--	--	--	--	--	--	
7H-BENZ(DEF)ANTHRACEN-7-ONE	--	--	360.0 NJ	--	--	--	--	--	--	
9,10-ANTHRACENEDIONE	--	--	830.0 NJ	--	--	--	--	--	--	
ANTHRACENE, 1-METHYL-	--	--	--	--	360.0 NJ	--	--	600.0 NJ	--	
BENZENE, 1,1-(1,2-CYCLOBUTANEDIYL)	--	--	--	--	--	330.0 NJ	--	--	--	
BENZENE, PROPYL-	--	--	--	--	410.0 NJ	460.0 NJ	--	--	--	
BENZENEMETHANOL, ALPHA, ALPHA	--	--	--	--	640.0 NJ	--	--	--	--	
BENZO(B)NAPHTHO(2,3-D)FURAN	--	--	--	--	490.0 NJ	--	--	--	--	
BENZO(E)PYRENE	--	--	1700.0 NJ	--	1000.0 NJ	--	--	--	--	
CYCLOPENTA(DEF)PHENANTHRENONE	--	--	630.0 NJ	--	--	--	--	--	--	
DIBENZOFURAN, 4-METHYL-	--	--	--	91.0 NJ	--	--	--	--	--	
HEXADECANOIC ACID	--	--	--	--	450.0 NJ	--	--	--	--	
METHYL-PHENANTHRENE OR METHYL-A	--	--	1300.0 NJ	--	330.0 NJ	--	--	--	--	
NAPHTHALENE, 1,5-DIMETHYL-	--	--	--	--	510.0 NJ	--	--	--	--	
NAPHTHALENE, 1-METHYL-	--	--	780.0 NJ	160.0 NJ	--	--	--	770.0 NJ	--	
NAPHTHALENE, 2,6-DIMETHYL-	--	--	--	--	--	--	91.0 NJ	--	--	
PHENANTHRENE, 2,5-DIMETHYL-	--	--	950.0 NJ	--	--	--	--	--	--	
PHENANTHRENE, 2,7-DIMETHYL-	--	--	--	--	660.0 NJ	--	--	--	--	
PHENANTHRENE, 9-METHYL-	--	--	670.0 NJ	--	--	--	--	--	--	
PYRENE, 2-METHYL-	--	--	--	--	230.0 NJ	--	--	--	--	
1,3,5-TRIAZINE-2,4-DIAMINE, 6-METHO	--	--	--	120.0 NJ	--	--	--	--	--	
1-TETRACOSANOL	910.0 NJ	--	--	--	--	--	--	--	--	
11,11-DICHLORO(4,4_1)PROPELLANE	--	--	--	330.0 NJ	--	--	--	--	--	
11H-BENZO(B)FLUORENE	--	--	850.0	--	--	--	--	--	--	
15-OCTADECANAL (8)	--	1400.0 NJ	--	--	--	--	--	--	--	
15-OCTADECANAL (10)	--	340.0 NJ	--	--	--	--	--	--	--	
17-OCTADECENAL	890.0 NJ	--	--	--	--	--	--	--	--	
2,4(1H,3H)-PYRIMIDINEDIONE, 5-BROMO	--	--	--	2000.0 NJ	--	--	--	--	--	
7H-BENZ(DEF)ANTHRACEN-7-ONE	--	--	--	--	310.0 NJ	--	--	--	--	
7H-BENZ(DEF)ANTHRACEN-7-ONE (16)	--	--	--	--	--	550.0 NJ	--	--	--	
7H-BENZ(DEF)ANTHRACEN-7-ONE (19)	--	--	--	--	--	290.0 NJ	--	--	--	
7H-BENZO(C)FLUOREN-7-ONE	--	--	650.0 NJ	--	720.0 NJ	--	--	--	--	
9,10-ANTHRACENEDIONE	--	--	960.0 NJ	150.0 NJ	--	210.0 NJ	--	--	--	
ANTHRACENE, 1-METHYL-	--	--	1290.0 NJ	--	--	--	180.0 NJ	--	--	
ANTHRACENE, 9-METHYL-	--	--	--	--	--	--	93.0 NJ	--	--	
AZULENE, 7-ETHYL-1,4-DIMETHYL-	--	--	--	350.0 NJ	--	--	--	--	--	
BENZALDEHYDE, 2-HYDROXY-	--	--	--	110.0 NJ	--	--	--	--	--	
BENZENE, 1,1-(1,2-CYCLOBUTANEDIYL)	--	--	--	--	780.0 NJ	--	--	--	--	
BENZENE, 1,1-ETHYLIDENEBIS-	--	--	--	--	--	--	--	510.0 NJ	--	
BENZO(B)NAPHTHO(2,3-D)FURAN	--	--	540.0 NJ	--	--	410.0 NJ	--	--	--	
BENZO(E)PYRENE	--	--	1300.0 NJ	--	--	--	--	--	--	
BENZO(GH)FLUORANTHENE	--	--	--	--	230.0 NJ	--	--	--	--	
BENZOIC ACID	--	--	--	79.0 NJ	--	--	--	--	--	
CYCLOHEXANE, 1,2-DIBROMO-4-(1,2-DIB	--	--	--	--	--	2800.0 NJ	--	--	--	
CYCLOPENTA(DEF)PHENANTHRENONE	--	--	680.0 NJ	--	--	--	--	--	--	
DOCOSANOIC ACID, METHYL ESTER	140.0 NJ	--	--	--	--	--	--	340.0 NJ	--	
ETHANONE, 1-(4-(1-METHYLETHENYL)PH	--	--	--	--	--	--	--	440.0 NJ	--	
ETHANONE, 1-(4-(1-METHYLETHYL)PHEN	--	--	--	--	--	--	--	--	--	
HEXADECANOIC ACID, METHYL ESTER	200.0 NJ	270.0 NJ	--	--	--	--	--	--	--	
METHYL-PHENANTHRENE OR METHYL-A	--	--	--	--	--	450.0 NJ	--	--	--	
NAPHTHALENE, 1,3-DIMETHYL-	--	--	--	--	--	--	270.0 NJ	--	--	
NAPHTHALENE, 1,3-DIMETHYL- (5)	--	--	--	--	--	--	88.0 NJ	--	--	
NAPHTHALENE, 1,3-DIMETHYL- (6)	--	--	--	--	--	--	110.0 NJ	--	--	
NAPHTHALENE, 1,3-DIMETHYL- (7)	--	--	--	--	--	--	--	1100.0 NJ	--	
NAPHTHALENE, 1,4-DIMETHYL-	--	--	1300.0 NJ	--	--	--	--	610.0 NJ	--	
NAPHTHALENE, 2,3,6-TRIMETHYL- (17)	--	--	--	--	--	--	--	640.0 NJ	--	
NAPHTHALENE, 2,3-DIMETHYL-	--	--	--	--	--	--	--	1200.0 NJ	--	
NAPHTHALENE, 2,7-DIMETHYL-	--	--	--	--	--	--	--	400.0 NJ	--	
NAPHTHALENE, 2-(1-METHYLETHYL)-	--	--	--	--	--	970.0 NJ	--	--	--	
PERYLENE	--	--	--	--	--	--	--	--	--	
PHENANTHRENE, 2,3-DIMETHYL-	--	--	530.0 NJ	--	--	--	--	--	--	
PHENANTHRENE, 2,7-DIMETHYL-	--	--	--	--	--	--	110.0 NJ	--	--	
PHENANTHRENE, 3-METHYL-	--	--	--	--	--	270.0 NJ	--	--	--	
PHENOL, 4-(1-METHYLETHYL)-	--	--	--	--	--	--	--	2600.0 NJ	--	
PYRENE, 1-METHYL-	--	--	570.0 NJ	--	--	290.0 NJ	--	--	--	
TRIPHENYLENE, 2-METHYL-	--	--	560.0 NJ	--	--	300.0 NJ	--	--	--	
METHYL-PHENANTHRENE OR METHYL-A	--	--	--	--	--	--	--	--	210.0 NJ	
9,12-OCTADECADIENAL	--	260.0 NJ	--	--	--	--	--	--	--	
1-DOCOSANOL	--	740.0 NJ	--	--	--	--	--	--	--	
STIGMAST-5-EN-3-OL, (3 BETA 24S)-	--	1200.0 NJ	--	--	--	--	--	--	--	
STIGMAST-4-EN-3-ONE	--	1400.0 NJ	--	--	--	--	--	--	--	

TABLE 7
Former Illinois Zinc Property XRF Sample Results
September 8 & 9, 1999

Sample #	Lead	+/-	Zinc	+/-	Iron	+/-	Mercury	+/-	Copper	+/-	Cobalt	+/-	Strontium	+/-	Zirconium	+/-
TACO	400		61000		--		61		8200		12000		--		--	
ONTARIO	31		120													
1	136.3	83	621.2	156.5	21068.8	2201.6	<LOD	117.9	<LOD	322.2	<LOD	1105.2	76.2	42.1	131.3	36.9
2	<124	123.9	536.4	152.1	24473.6	2392	<LOD	117.6	<LOD	324	<LOD	1135.8	110	45.8	201.9	42.7
3	<225	225	636.8	261.6	60569.6	6259.2	<LOD	198.2	<LOD	615.6	<LOD	2671.2	115.6	74.2	143.2	62
4	<LOD	128.5	508.4	161.4	21760	2441.6	<LOD	132	<LOD	359.4	<LOD	1236	140.2	51.6	256.6	49.2
5	<LOD	118.5	489.6	155.5	18649.6	2240	<LOD	115.4	<LOD	318.6	<LOD	1110	155.8	52.7	124.6	41.1
6	<LOD	108.8	441.6	140.4	22272	2289.6	<LOD	107.7	<LOD	308.7	<LOD	1152	123.1	46.2	290.8	47.6
7	<LOD	114.9	321	136.8	12499.2	1830.4	<LOD	124.2	<LOD	287.8	<LOD	921.6	222.4	57.9	81.7	38.4
8	<LOD	129.5	455.2	152.4	15564.8	1985.6	<LOD	122.4	<LOD	342	<LOD	1007.4	<LOD	65.3	204.5	44.1
9	<LOD	134.9	393.4	158.2	13708.8	2051.2	<LOD	124.8	<LOD	352.5	<LOD	1071.6	163.1	57.2	152.8	46
10	<LOD	185.7	760.8	230.2	39808	4105.6	<LOD	168	<LOD	504.9	<LOD	1909.2	197	70.2	759.6	93.7
11	303.6	123.2	1038.4	238	38476.8	3612.8	<LOD	154.5	<LOD	535.5	<LOD	1684.4	147.3	58.6	310	57.8
12	<LOD	136.6	348	171.6	18547.2	2497.6	<LOD	153.1	<LOD	431.4	<LOD	1240.8	234.8	66.4	78.3	43.1
13	175.8	102.4	661.2	196.1	28595.2	2980.8	<LOD	144.6	<LOD	459.9	<LOD	1438.8	119.5	53.6	191	48
14	147.7	96.8	1244.8	241	19289.6	2452.8	<LOD	137.9	<LOD	483.3	<LOD	1274.4	121.5	52.8	136.9	43.7
15	429.2	120.8	4470.4	432	27852.8	2819.2	<LOD	202	<LOD	695.4	<LOD	1419.6	82.2	49.2	184.4	45.3
16	<LOD	115.4	1187.2	195.6	18598.4	2014.4	<LOD	114.5	<LOD	363.3	<LOD	1022.4	75.6	40.5	148.8	36.9
17	434.4	121.6	2998.4	346.8	27648	2793.6	<LOD	176.9	<LOD	572.7	<LOD	1334.4	117.8	52	159.4	43.8
18	<LOD	132.3	949.6	199.4	21785.6	2348.8	<LOD	131.4	<LOD	427.2	<LOD	1162.2	118.3	48	107.4	37.7
19	476.8	128.4	3366.4	387.8	60467.2	4598.4	<LOD	183.6	<LOD	709.2	<LOD	1956	<LOD	73.1	<LOD	52.2
20	326.2	103.8	994.4	201.2	20915.2	2304	<LOD	151.5	<LOD	402.6	<LOD	1115.4	70.8	44.7	<LOD	48.6
21	180.2	97.9	1035.2	211	16780.8	2204.8	<LOD	131.4	<LOD	404.7	<LOD	1153.8	<LOD	67.4	<LOD	51.3
22	325.8	115.3	1179.2	230.6	16563.2	2222.4	<LOD	147.5	<LOD	454.8	<LOD	1193.4	<LOD	69.6	76.1	37.8
23	<LOD	137.9	<LOD	198.3	10144	1910.4	<LOD	131.5	<LOD	340.8	<LOD	961.8	389.6	81.6	<LOD	65.4
24	<LOD	122.7	477.2	158.9	18278.4	2299.2	<LOD	119	<LOD	348.9	<LOD	1217.4	78	46.4	154	42.7
25	<LOD	123.6	690.4	169.5	26342.4	2556.8	<LOD	115.8	<LOD	357	<LOD	1225.8	101.9	45.6	137.8	39
26	<LOD	153	345.8	151.1	27033.6	2936	<LOD	128.1	<LOD	340.5	<LOD	1431.6	173.6	58.6	79.7	40.6
27	<LOD	125.1	425.6	146.8	24473.6	2508.8	<LOD	111.3	<LOD	335.1	<LOD	1230	94.7	45.4	55.1	33.5
28	<LOD	137.4	2668.8	327	30848	3001.6	<LOD	153.5	<LOD	546	<LOD	1434	72.4	46.2	58.5	35.7
29	<LOD	682.2	<LOD	1336.8	36454.4	13747.2	<LOD	498.9	<LOD	1999.2	<LOD	6024	<LOD	367.5	<LOD	265.8
30	<LOD	175.6	1555.2	334	22694.4	3347.2	<LOD	191.7	<LOD	637.2	<LOD	1726.8	<LOD	97.2	89.7	51
31	335.8	155.7	4064	566	58316.8	6000	<LOD	257.4	<LOD	923.4	<LOD	2568	150.6	74.9	103.1	55.5
32	199.5	115.3	2585.6	378.4	39552	4080	<LOD	183.6	<LOD	652.2	<LOD	1970.4	<LOD	77.9	120.6	46.7
33	194.9	120.9	2169.6	361.2	58419.2	5411.2	<LOD	189.5	<LOD	679.8	2878.4	1673.6	95.2	58.8	<LOD	65.7
34	<LOD	344.7	2427.2	670	66611.2	9977.6	<LOD	399.3	<LOD	1297.2	<LOD	4106.4	<LOD	187	<LOD	121.2
35	266.4	149.4	2355.2	431.2	32409.6	4332.8	<LOD	226.8	<LOD	753.6	<LOD	2115.6	172	78.8	123.9	59.3
36	545.2	192.6	3249.6	538	61542.4	6624	<LOD	278.7	<LOD	952.2	<LOD	2808	<LOD	110.3	116.6	60.1
37	<LOD	198.5	805.2	295.4	19136	3433.6	<LOD	172.2	<LOD	640.2	<LOD	1645.2	<LOD	107	125.3	61.3
38	<LOD	168	678.4	211	23987.2	3116.8	<LOD	153	<LOD	439.8	<LOD	1546.8	122.2	60.5	111.5	47.5
39	<LOD	191.3	609.2	245.8	29388.8	4115.2	<LOD	177.8	<LOD	532.5	<LOD	2000.4	133.3	73.4	276.8	72.9
40	<LOD	159.9	459.2	201.9	19904	3068.8	<LOD	149	<LOD	441.9	<LOD	1558.8	158	69.4	223.6	62.4
41	<LOD	239	1165.6	384.2	35763.2	5241.6	<LOD	237	<LOD	894	<LOD	2476.8	160.4	89.6	100.7	66.5
42	759.6	224.8	2012.8	433.6	50764.8	5980.8	<LOD	321.3	<LOD	796.2	<LOD	2604	127.9	83.3	214.4	72.9
43	812	212.4	1386.4	359.6	29619.2	4246.4	<LOD	252.3	<LOD	713.4	<LOD	1977.6	<LOD	105.6	109.2	59
44	<LOD	265.2	802.8	320	28620.8	4700.8	<LOD	237.3	<LOD	694.8	<LOD	2349.6	<LOD	127	120.4	68.1
45	<LOD	182.3	658.4	247.6	17817.6	2993.6	<LOD	188	<LOD	558	<LOD	1502.4	<LOD	92.7	<LOD	75.3
46	239.4	151.4	2001.6	408.2	33766.4	4572.8	<LOD	244.8	<LOD	754.8	<LOD	2298	130.8	75.5	102	57.2
47	<LOD	126.8	932.8	217.8	16102.4	2299.2	<LOD	147.9	<LOD	411.9	<LOD	1201.2	155.8	57.5	66.6	39.4
48	167.7	85.4	731.2	179.7	16601.6	2033.6	<LOD	128.1	<LOD	376.8	<LOD	986.4	65.5	43	87.8	35.7
49	277.6	154.1	3792	577.2	44236.8	5360	<LOD	241.8	<LOD	986.4	<LOD	2364	116.8	73.6	<LOD	79.5
50	<LOD	171.1	811.2	242	15590.4	2646.4	<LOD	161.9	<LOD	456.6	<LOD	1297.2	<LOD	90.1	92.5	48.8
51	376.6	152.5	1447.2	327.8	26572.8	3715.2	<LOD	197.4	<LOD	622.8	<LOD	1880.4	<LOD	92.3	158.2	57.7

TACO Numbers are for ingestion/inhalation on industrial sites.
 Ontario Sediment Screening Benchmarks are in green.

TABLE 7

Former Illinois Zinc Property XRF Sample Results
September 8 & 9, 1999

Sample #	Lead	+/-	Zinc	+/-	Iron	+/-	Mercury	+/-	Copper	+/-	Cobalt	+/-	Strontium	+/-	Zirconium	+/-
TACO	400		61000		--		61		8200		12000		--		--	
ONTARIO	31		120													
52	<LOD	131.9	496.4	159.8	14732.8	2091.2	<LOD	119.5	<LOD	315	<LOD	1081.2	<LOD	65.6	94.5	38.7
53	<LOD	175	1243.2	291.2	47283.2	4870.4	<LOD	180.6	<LOD	596.1	<LOD	2260.8	127.4	64.7	105.7	50.1
54	<LOD	188.4	780.8	268.6	53708.8	5872	<LOD	175.8	<LOD	570.9	<LOD	2618.4	111.9	71.3	117.8	57.5
55	342	136.7	2209.6	377	29900.8	3750.4	<LOD	179.9	<LOD	650.4	<LOD	1849.2	<LOD	89.1	157.8	54.6
56	<LOD	188.5	1181.6	298.8	40678.4	4681.6	<LOD	200.1	<LOD	599.1	<LOD	2179.2	<LOD	96.3	91.7	50.5
57	<LOD	148.6	329.6	211	10342.4	2440	<LOD	176.7	<LOD	494.1	<LOD	1267.2	<LOD	97	<LOD	68.9
58	<LOD	202.5	2947.2	476.8	50688	5616	<LOD	234.5	<LOD	808.2	<LOD	2508	<LOD	101.3	79.6	52
59	<LOD	223.8	1854.4	404.2	55091.2	6118.4	<LOD	262	<LOD	803.4	<LOD	2762.4	<LOD	107.4	<LOD	81.1
60	498	163.7	4451.2	572	30796.8	4051.2	<LOD	263.7	<LOD	869.4	<LOD	1982.4	165.8	74.5	109.6	54.3
61	<LOD	199	1364.8	346.6	35968	4800	<LOD	227.1	<LOD	655.8	<LOD	2331.6	174.2	80.9	<LOD	84.1
62	385	134.6	3041.6	404.6	41958.4	4121.6	<LOD	207.6	<LOD	696	<LOD	1905.6	<LOD	80.3	63.3	40.8
63	506	171.5	2060.8	409.2	94668.8	8448	<LOD	238.3	<LOD	834	<LOD	3439.2	164.2	77	97.7	56.2
64	338.6	173.8	4249.6	625.6	70809.6	7366.4	<LOD	292.5	<LOD	1057.2	<LOD	3110.4	<LOD	114.5	124.3	61.5
65	319	154.9	15500.8	1365.6	61849.6	6512	<LOD	402.3	<LOD	1729.2	<LOD	2841.6	<LOD	105.9	85.1	54.5
66	<LOD	134.1	33203.2	1867.2	178074	10489.6	<LOD	419.1	5376	1402.4	<LOD	3559.2	<LOD	68.3	<LOD	51.6
67	626.8	204.3	46259.2	3414.4	167322	13875.2	<LOD	678.6	<LOD	3096	<LOD	4737.6	<LOD	106.4	<LOD	76.1
68	<LOD	313.2	47948.8	5155.2	196506	22848	<LOD	864	<LOD	4588.8	<LOD	6950.4	<LOD	145.5	<LOD	97.6
69	765.2	192.8	30720	2155.2	143053	10944	<LOD	510.9	2816	1557.6	<LOD	4008	132.2	72.5	<LOD	77.3
70	<LOD	206.8	1252	303	34483.2	4163.2	<LOD	222.9	<LOD	573.3	<LOD	1896	<LOD	84.6	102.3	51.3
72	435.2	163.3	6332.8	701.6	36454.4	4336	<LOD	286.5	<LOD	1032.6	<LOD	1978.8	<LOD	92.1	122.6	53.8
73	484.4	148.8	6630.4	671.6	27776	3504	<LOD	260.7	<LOD	972.8	<LOD	1676.4	<LOD	84.8	82.5	45.5
74	346.2	163.3	16089.6	1416	65433.6	6784	518.8	310	<LOD	1791.6	<LOD	2844	<LOD	100.2	<LOD	71.4
75	1216	239	16819.2	1425.6	72857.6	7168	<LOD	442.2	<LOD	1784.4	<LOD	3134.4	<LOD	102.6	<LOD	77.9
76	908	169.9	18508.8	1225.6	64614.4	5280	388.4	251.2	<LOD	1458	<LOD	2270.4	<LOD	83.1	<LOD	57.9
77	452	144.9	15142.4	1112	63795.2	5520	<LOD	342.6	<LOD	1431.6	<LOD	2424	<LOD	76.9	<LOD	54.9
78	233	102.1	5952	556.4	36787.2	3612.8	<LOD	209.1	<LOD	847.8	<LOD	1684.8	<LOD	60.6	<LOD	43.1
79	206	96.5	3507.2	398	22784	2660.8	<LOD	181.8	<LOD	633.6	<LOD	1274.4	<LOD	62.3	<LOD	44.8
80	719.2	216.2	35635.2	2673.6	135373	11539.2	656.8	419.6	<LOD	2613.6	<LOD	4260	<LOD	115.2	90.2	57.6
81	468	168.9	19942.4	1620	102195	9043.2	<LOD	429.3	<LOD	1880.4	<LOD	3576	<LOD	88.1	101.9	54.3
82	312.2	103.3	3891.2	412	29132.8	2984	<LOD	191.1	<LOD	666.6	<LOD	1430.4	<LOD	60.1	<LOD	43.2
83	149.5	91.6	3692.8	395	16217.6	2136	<LOD	166.8	<LOD	638.4	<LOD	1046.4	<LOD	62.1	<LOD	47.6
84	323.6	165.9	3929.6	574.4	39168	5020.8	<LOD	273	<LOD	883.8	<LOD	2432.4	115.5	75.1	138	61.7
85	444.8	163.2	4073.6	563.2	26521.6	3705.6	<LOD	257.8	<LOD	947.4	<LOD	1771.2	116.1	69.6	<LOD	75.3
86	658.4	173.2	8928	856.8	31846.4	3964.8	<LOD	314.4	<LOD	1212.6	<LOD	1866	102.5	65.5	<LOD	70.4
87	808.8	206.8	11360	1073.6	48358.4	5488	<LOD	371.1	<LOD	1389.6	<LOD	2577.6	<LOD	107	<LOD	80.4
88	3932.8	489.2	19379.2	1760	54835.2	6675.2	<LOD	636	<LOD	2044.8	<LOD	3014.4	<LOD	148.2	<LOD	94.2
89	1099.2	217.8	7347.2	764.8	30387.2	3961.6	<LOD	319.2	<LOD	1110	<LOD	1984.8	<LOD	103	215.8	62.8
90	950.4	347	9868.8	1533.6	37760	7308.8	<LOD	536.7	<LOD	2084.4	<LOD	3398.4	<LOD	171	<LOD	121.6
91	543.6	229.2	6259.2	896	38374.4	5785.6	<LOD	375	<LOD	1329.6	<LOD	2661.6	286.8	113.3	<LOD	108.1
92	523.2	265.8	8172.8	1258.4	43264	7392	<LOD	495.9	<LOD	1760.4	<LOD	3412.8	<LOD	152.4	<LOD	130.2
93	572	176.3	8742.4	898.4	29184	3945.6	<LOD	338.1	<LOD	1232.4	<LOD	1822.8	<LOD	101.9	<LOD	75.8
94	796	294.4	9715.2	1420.8	36761.6	6790.4	<LOD	490.8	<LOD	1962	<LOD	3247.2	<LOD	162.3	<LOD	118.5
95	626.4	215.2	10323.2	1165.6	37939.2	5372.8	<LOD	408.9	<LOD	1641.6	<LOD	2448	<LOD	120	<LOD	78.8
96	4595.2	704	38374.4	4019.2	116326	14387.2	<LOD	996.6	<LOD	3597.6	<LOD	5241.6	<LOD	205.8	<LOD	125.4
97	767.2	189	6496	726	30924.8	4000	<LOD	309.9	<LOD	1089.6	<LOD	1845.6	<LOD	92.3	152.7	57.5
98	700.8	178.6	12768	1079.2	41984	4656	<LOD	369.9	<LOD	1482	<LOD	2197.2	105.6	65.9	<LOD	64.9
99	856.8	218.8	6371.2	787.2	27084.8	4096	<LOD	330	<LOD	1222.2	<LOD	2030.4	230.4	90.9	<LOD	82.2
100	3344	454	34432	2849.6	81715.2	8800	<LOD	714.6	<LOD	2731.2	<LOD	3672	<LOD	140	<LOD	87.3
101	821.6	219.4	14425.6	1332.8	46796.8	5625.6	<LOD	440.4	<LOD	1722	<LOD	2613.6	146	82.1	93.9	58.5
102	235.6	128.7	11289.6	1006.4	13068.8	2531.2	<LOD	323.1	<LOD	1305.6	<LOD	1328.4	<LOD	95.7	75.5	48.6
103	<LOD	219	4489.6	642.4	33126.4	4678.4	<LOD	282.9	<LOD	1042.8	<LOD	2306.4	288.2	95.7	<LOD	88.5
104	294.2	178.4	10080	1136	55347.2	6835.2	<LOD	402.6	<LOD	1620	<LOD	3151.2	<LOD	113.1	<LOD	87.9

TACO Numbers are for ingestion/inhalation on industrial sites.
Ontario Sediment Screening Benchmarks are in green.

TABLE 7

Former Illinois Zinc Property XRF Sample Results
September 8 & 9, 1999

Sample #	Lead	+/-	Zinc	+/-	Iron	+/-	Mercury	+/-	Copper	+/-	Cobalt	+/-	Strontium	+/-	Zirconium	+/-
TACO	400		61000		-		61		8200		12000		-		-	
ONTARIO	31		120													
105	973.6	233.2	19148.8	1662.4	53401.6	6240	<LOD	508.5	<LOD	1962	<LOD	2937.6	<LOD	117.5	<LOD	84.8
106	964.8	262.6	21849.6	2059.2	46233.6	6384	<LOD	556.2	<LOD	2254.8	<LOD	3045.6	<LOD	134.4	<LOD	99.9
107	251.4	103.8	4896	473.2	14745.6	2096	<LOD	197	<LOD	723	<LOD	1079.4	<LOD	70.1	<LOD	50.4
108	959.2	291.2	18252.8	1958.4	194458	19072	<LOD	557.7	<LOD	2305.2	<LOD	5985.6	277.4	120.1	<LOD	109.6
109	778.4	252.8	19136	1884.8	207462	18598.4	<LOD	541.2	<LOD	2211.6	<LOD	5908.8	<LOD	134.3	<LOD	100.5
110	<LOD	406.5	93030.4	10489.6	439091	51020.8	<LOD	1360.8	<LOD	6398.4	<LOD	11376	236.6	149.5	<LOD	154.8
111	<LOD	355.2	42214.4	4732.8	198144	23616	<LOD	960	<LOD	4272	<LOD	7411.2	<LOD	185.7	<LOD	140.9
112	<LOD	321	54835.2	5011.2	260710	25011.2	<LOD	861.6	<LOD	4104	<LOD	7003.2	<LOD	135.6	<LOD	113.5
113	504	262.8	58214.4	5596.8	351846	34329.6	<LOD	930.6	<LOD	4447.2	<LOD	8577.6	<LOD	168	<LOD	114.3
114	<LOD	353.7	5516.8	1053.6	469811	49945.6	<LOD	434.1	<LOD	1828.8	<LOD	10617.6	<LOD	182.5	<LOD	137.7
115	1220.8	388.6	21964.8	2747.2	194253	23257.6	<LOD	840.6	<LOD	3033.6	<LOD	7315.2	<LOD	182.9	<LOD	140.1
116	<LOD	419.1	28979.2	3664	163942	21836.8	<LOD	927	<LOD	3688.8	8851.2	5270.4	348	167.6	<LOD	149.9
117	772.8	189.1	19609.6	1495.2	64307.2	6195.2	<LOD	455.1	<LOD	1796.4	<LOD	2724	<LOD	92.3	92.1	49.8
118	470.4	158.9	22540.8	1691.2	83916.8	7484.4	<LOD	454.8	<LOD	1951.2	<LOD	3108	<LOD	94.1	<LOD	64.5
119	<LOD	496.8	6300.8	1477.6	131686	22259.2	<LOD	588.6	<LOD	2274	<LOD	7089.6	<LOD	260.4	<LOD	186.8
120	496	171	25241.6	1948.8	54118.4	5936	<LOD	478.8	<LOD	2247.6	<LOD	2748	121.2	72.9	<LOD	71.1
121	852.8	300.6	14540.8	1798.4	194150	20710.4	<LOD	560.4	<LOD	2306.4	<LOD	6945.6	196.8	117.1	<LOD	121.5
122	<LOD	248.7	5468.8	812	120320	12044.8	<LOD	343.5	<LOD	1317.6	<LOD	4598.4	<LOD	108	<LOD	79.6
123	511.6	179.1	22758.4	1756.8	83200	7654.4	<LOD	464.1	<LOD	2030.4	<LOD	3187.2	<LOD	104.7	97.8	53.8
124	857.6	302.2	36889.6	3702.4	139981	15936	<LOD	819	<LOD	3506.4	<LOD	5894.4	<LOD	141.8	162	86.9
125	2273.6	510.8	27611.6	4326.4	198144	23270.4	<LOD	975.6	<LOD	4068	<LOD	7651.2	<LOD	163.4	<LOD	115.6
126	1315.2	405.6	20211.6	7596.8	271770	31257.6	<LOD	1205.4	<LOD	5236.8	<LOD	8659.2	<LOD	199	<LOD	151
127	1375.2	378.4	67233.6	6499.2	149811	17433.6	<LOD	1077	<LOD	4910.4	<LOD	6278.4	<LOD	184.5	191.3	97.3
128	694	254.8	34764.8	3347.2	127181	14041.6	<LOD	741	<LOD	3153.6	<LOD	5102.4	<LOD	140.4	<LOD	103.6
129	980.8	294.8	21964.8	2296	97177.6	11321.6	<LOD	651.6	<LOD	2556	<LOD	4346.4	<LOD	157.2	<LOD	110.9
130	346.4	141.6	3712	497.2	22579.2	3276.8	<LOD	243.9	<LOD	812.4	<LOD	1700.4	<LOD	91.2	<LOD	69.3
131	2456	453.6	26496	2681.6	158925	16537.6	<LOD	741	<LOD	2779.2	<LOD	5534.4	<LOD	152.3	121.8	80.6
132	541.6	299.6	46771.2	4979.2	237158	26496	<LOD	964.2	<LOD	4063.2	<LOD	7939.2	<LOD	192.2	185.1	102.1
133	<LOD	173.7	4716.8	590.4	22681.6	3321.6	<LOD	227.5	<LOD	953.4	<LOD	1592.4	112.5	64.9	<LOD	66.4
134	<LOD	175.4	3913.6	582.8	13312	2928	<LOD	245	<LOD	915	<LOD	1647.6	<LOD	95.1	<LOD	81
135	<LOD	143.4	4380.8	509.6	16294.4	2537.6	<LOD	201.6	<LOD	777	<LOD	1273.2	91.9	56.4	158.4	51.2
136	<LOD	161.9	4089.6	513.6	21896.8	3054.4	<LOD	235.7	<LOD	799.8	<LOD	1452	<LOD	74.7	77.5	44.6
148	213.6	120.4	8166.4	737.2	32614.4	3660.8	<LOD	279.9	<LOD	1109.4	<LOD	1748.4	<LOD	85.4	147.8	49.8
149	<LOD	65.1	<LOD	100.5	<LOD	670.8	<LOD	67.6	<LOD	179.3	<LOD	299.8	<LOD	32.4	<LOD	23
150	422.4	161.4	9286.4	924.8	58828.8	6025.6	<LOD	349.5	<LOD	1388.4	<LOD	2678.4	<LOD	104	78.2	51.6
151	<LOD	154.8	1132.8	312.2	8940.8	2307.2	<LOD	186.9	<LOD	606.9	<LOD	1224.6	<LOD	96.5	<LOD	76.2
152	<LOD	129.3	595.2	205	8896	1931.2	<LOD	129.8	<LOD	395.1	<LOD	981	<LOD	80.3	<LOD	55.9
153	325.2	142.6	3072	453.6	15129.6	2691.2	<LOD	221.8	<LOD	739.2	<LOD	1459.2	<LOD	87.6	<LOD	68.6
154	<LOD	169.6	1392.8	334.4	13145.6	2601.6	<LOD	181.4	<LOD	624	<LOD	1298.4	<LOD	94.8	<LOD	71.3
155	542.8	180.9	7181.6	821.6	30848	4345.6	<LOD	310.5	<LOD	1282.8	<LOD	2139.6	<LOD	108.3	<LOD	74.3
156	<LOD	167.7	2134.4	367.6	20800	3035.2	<LOD	184	<LOD	657	<LOD	1477.2	202.5	71	<LOD	65.3
157	<LOD	107	1544	259.8	13024	1937.6	<LOD	141.3	<LOD	500.1	<LOD	999.6	<LOD	63.1	64.7	34.6
158	<LOD	131.5	1610.4	285	11628.8	2093.2	<LOD	147.9	<LOD	536.7	<LOD	1051.8	<LOD	72.4	216	50.8
159	<LOD	117.8	1851.2	255.8	12646.4	1924.8	<LOD	137.5	<LOD	471.9	<LOD	940.8	<LOD	66.4	159.7	43.3
160	<LOD	125	1872	276.4	12371.2	1948.8	<LOD	142.2	<LOD	502.2	<LOD	1025.4	<LOD	68.6	81.6	37.2
161	<LOD	191.7	3609.6	924	39884.8	4668.8	<LOD	314.1	<LOD	1296	<LOD	2184	223.6	79.4	120.4	55.6
162	<LOD	107.5	1189.2	203.7	11859.2	1747.2	<LOD	113.9	<LOD	383.4	<LOD	897.6	<LOD	58.9	66.7	32.7
163	<LOD	378.9	1932.8	1932.8	43494.4	7686.4	<LOD	579.9	<LOD	2396.4	<LOD	3532.8	<LOD	183.8	<LOD	128.5
164	<LOD	288.9	1286.4	474.4	21952	4892.8	<LOD	319.5	<LOD	945.6	<LOD	2318.4	<LOD	153.9	<LOD	115.2
165	<LOD	157.4	1396.8	326.2	13619.2	2448	<LOD	183.9	<LOD	630	<LOD	1231.2	<LOD	87.6	<LOD	68.1
166	<LOD	123.1	584	202	12115.2	1913.6	<LOD	118.2	<LOD	406.8	<LOD	1020.6	<LOD	81.1	63.9	35.1
167	<LOD	151.8	957.2	282.8	12876.8	2387.2	<LOD	156	<LOD	531.9	<LOD	1210.8	<LOD	74.7	71.3	44.3
168	<LOD	149.4	1056	330.6	14144	2332.8	<LOD	164.9	<LOD	576	<LOD	1132.2	<LOD	77.3	99.2	45.5
169	<LOD	94	1364.2	282.8	12499.2	2123.2	<LOD	145.4	<LOD	500.7	<LOD	1165.8	134.2	55.8	<LOD	53.6
170	<LOD	127.8	2912	195.8	9670.4	1787.2	<LOD	123.8	<LOD	381.3	<LOD	1012.8	<LOD	63.4	121.9	40.9
171	<LOD	227.8	1286.4	530.8	14630.4	3073.6	<LOD	257.4	<LOD	935.4	<LOD	1653.6	<LOD	102.8	<LOD	77.4
172	<LOD	339.6	<LOD	763.8	16243.2	5430.4	<LOD	336	<LOD	1327.2	<LOD	2947.2	<LOD	203.5	<LOD	123.1
173	<LOD	309	1140.8	415.2	15923.2	3811.2	<LOD	293.1	<LOD	825	<LOD	1879.2	<LOD	135.8	<LOD	102.3
174	<LOD	148.8	1753.6	333.2	14438.4	2564.8	<LOD	151.6	<LOD	591.3	<LOD	1365.6	<LOD	74.6	<LOD	60.1
175	286.2	136.7	1817.6	342.6	38784	4320	<LOD	216.2	<LOD	627	<LOD	2077.2	93.9	61.7	97.6	48.3
176	1332.8	460.4	936	575.2	276685	36864	<LOD	575.1	<LOD	1472.4	<LOD	9585.6	<LOD	219	<LOD	161.4
177	<LOD	197.1	2848	489.6	26316.8	3948.8	<LOD	221.4	<LOD	831.6	<LOD	1917.6	116.3	71.8	107.4	56.9
178	<LOD	339.9	<LOD	550.8	23283.2	5344	<LOD	312.9	<LOD	889.2	<LOD	2522.4	<LOD	147.3	<LOD	141.8