PHASE I ENVIRONMENTAL SITE ASSESSMENT

GAF BUILDING MATERIALS CORPORATION, INC. SITE
218 West Bayfront Parkway, Erie, PA 16507

Prepared for:

Erie County Convention Center Authority

Erie, Pennsylvania

November 6, 2008

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Prepared for:

Erie County Convention Center Authority

Erie, Pennsylvania 16501

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EXECUTIVE SUMMARY

MACTEC Engineering and Consulting, Inc. (MACTEC) was retained by the Erie County Convention Center Authority (ECCCA) to perform a Phase I Environmental Site Assessment (Phase I ESA) on an 12.456-acre property located at 218 Bayfront Parkway, in the City of Erie, Erie County, Pennsylvania, Postal Zip Code 16507 (Site). The Site address was formerly known as the Foot of Sassafras in Erie; however, the address was changed subsequent to construction of the Bayfront Parkway. The Site is the former location of the GAF Building Materials Manufacturing Corporation, Inc. facility, which produced rolled roofing material for industrial and commercial applications and roofing shingles for residential applications.

The Site began operation in 1903 after the construction of the southern buildings. In approximately 1910, the Site was expanded with the construction of the central area buildings. Numerous aboveground storage tanks (ASTs) were also constructed in the central portion of the Site. Several ancillary buildings were constructed through time with the last being the Warehouse Building on the northern end of the property, which was reportedly constructed in 1990. During the expansion to the north, the northern boundary of the property was extended into Presque Isle Bay several hundred feet by filling with various materials, reportedly including waste roofing material from the process. The Site formerly contained two lagoons to the south of the existing Warehouse Building.

The Site used felt paper, tar, and various rock products as raw materials for the process. The felt paper was fed through one of two mills that applied the tar via spray and/or dip tanks; the felt paper was then run through rollers that assisted in the saturation process. Once saturated with tar, the paper was coated with crushed rock or sand, coated with talc and fed through cooling drums to set the tar. Self-seal was then applied so the roofing would adhere to itself once applied to a roof. The finished product was then either rolled into commercial roofing (Line 2) or cut into shingles for residential applications (Line 1). Waste "fingers" cut from the residential roofing were sent off-Site for disposal or were given away for use as underlayment in driveway applications. At some point in time, the waste material was also used as fill material on the northern portion of the Site.

The tar used in the process came to the Site as a low melting point (approximately 170 degrees Fahrenheit [ºF]) tar. The tar underwent a heating process and air was bubbled through the heated product to drive off the lower boiling point petroleum hydrocarbons. The lower boiling point products were distilled and placed into an AST for recycling; although some escaped and were destroyed in a thermal destruction unit. The heavier fraction was used as a high melting point (approximately 300º F) tar in the manufacturing process.

Ancillary processes included drying lake sand in a rotary kiln and crushing various types of rock for use in the process. Raw products, brought in by truck and rail, were stored in storage areas on the southern portion of the Site and in ASTs in the central portion of the Site. Finished product storage occurred in one of several warehouse areas on the northern portion of the Site.

Numerous tanks, ranging from 150-gallons to 500,000-gallons in capacity were present on the Site. The majority of the tanks were ASTs, although four underground storage tanks (USTs) are known to have been present. The ASTs primarily contained asphalt (tar); however, specific ASTs were used for cooling water, fuel oil, used oil, brine water, diesel, kerosene and propane. A number of silos are also present on the Site for various rock products (slate, sand, talc, etc.) used in the process. The USTs contained gasoline, fuel oil, Varnolene (mineral spirits) and oil from the high efficiency air filters. The USTs were all reportedly closed prior to promulgation of the UST Regulations in 1989.

Several environmental investigation reports had been prepared for the Site and were made available for review by MACTEC. These included a geophysical report that also contained geotechnical soil borings from the Warehouse Building on the northern end of the Site, a Phase I ESA, a preliminary soil boring and groundwater investigation report, some surface soil sampling results, an asbestos inspection report and a lead paint evaluation report. The results of the various investigations indicate that constituents are present in soil and groundwater above their respective Act 2 Medium Specific Concentrations (MSCs) for nonresidential sites.

Available public records for the Site were reviewed to determine if environmental concerns may be present on the Site. The available environmental records document various spills to the ground surface and to an unnamed tributary to Lake Erie, as well as releases into Presque Isle Bay on the northern end of the Site. Additionally, regulatory agency records indicate that the Site had notices of violations (NOVs) for air and waste management practices that were not in compliance with applicable regulations.

As a result of the Phase I ESA, MACTEC identified a number of current Recognized Environmental Concerns (RECs) as well as one historic REC and two off-Site RECs. The current RECs include:

- The accumulation of tar near ASTs and piping, on building structural components, and on the surface in the former lagoon area;
- A starting compensator containing Pyranol, (PCBs);
- Two former lagoons present in the area to the south of the Warehouse Building;
- Four USTs that were reportedly present within the facility;
- Buried drums that were alleged to exist in the area north of the production area.
- Surface staining present in numerous areas of the facility;
- The fill materials present on the Site;
- The presence of regulated constituents in Site media above the Act 2 standard; and
- A number of releases of petroleum products onto the ground surface, into the unnamed stream on the east side of the Site, and to the bay.

Historic RECs include:

- A transformer formerly containing PCB oil was changed out with mineral oil.

Off Site RECs include:

- Two former manufactured gas facilities located immediately to the southeast of the Site.

In addition to the RECs, existing reports indicate that asbestos containing materials and lead paint are present on the Site. A 1983 Microbac report of the analysis of sludge collected from the Site outfalls indicated that asbestos fibers were likely present in the outfalls to the bay. Also, if roofing materials containing asbestos were produced on the Site, the fill material containing roofing material scraps may contain asbestos.

Data gaps in the Phase I ESA included the lack of readily available historical aerial photographs, and the lack of historical knowledge of Site operations on the part of the Site contact.

1.0 INTRODUCTION

MACTEC Engineering and Consulting, Inc. (MACTEC) has prepared this Phase I Environmental Site Assessment (Phase I ESA) Report for the former GAF Building Materials Manufacturing Corporation, Inc. (GAF) facility located at 218 West Bayfront Parkway, Erie, Erie County, Pennsylvania 16507 (herein referred to as the Site), on behalf of the Erie County Convention Center Authority (ECCCA). The Phase I ESA was conducted to meet the requirement for All Appropriate Inquiries (AAI) under the Small Business Relief and Brownfields Revitalization Act of 2002, and in general conformance with the requirements of the American Society of Testing and Materials (ASTM) E1527-05 *"Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process"* (ASTM, 2005).

This report is organized as described in this paragraph. An Executive Summary was presented in the previous Section. This Section (Introduction) provides the purpose, scope, assumptions, limitations, special terms, and user reliance for this report. Section 2.0 provides a Site description. Section 3.0 presents the user provided information. Section 4.0 provides a summary of the records reviewed. Section 5.0 includes the findings of the Site reconnaissance and Section 6.0 provides a summary of the interviews of personnel familiar with the Site. The findings of the Phase I ESA are summarized in Section 7.0. Opinions, Deviations, Conclusions and Additional Services are presented in Sections 8.0, 9.0, 10.0 and 11.0, respectively. References cited in the text are provided in Section 12.0. The signature(s) of the Environmental Professional(s) who executed the work are provided in Section 13.0. Qualifications of the person(s) that performed the ESA and prepared this report are provided in Section 14.0.

1.1 PURPOSE OF THE REPORT

The purpose of the Phase I ESA was to identify recognized environmental conditions (RECs) in connection with the Site, to the extent feasible, pursuant to the processes described in ASTM Standard Practice E1527-05 (ASTM, 2005). This investigation also addresses historical recognized environmental conditions. A recognized environmental condition, as defined by ASTM Standard Practice E1527-05 is: *"the presence or likely presence of any hazardous substances or petroleum products on a subject property under conditions that indicate an existing release, a past release, or a material threat of a release, of any hazardous substances or petroleum products into structures on the property, or into the ground, groundwater or surface water of the property. The term*

includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimis are not recognized environmental conditions" (ASTM, 2005). A historical recognized environmental condition is an environmental condition which, in the past would have been considered a recognized environmental condition, but which may or may not be considered a recognized environmental condition currently (ASTM, 2005).

1.2 DETAILED SCOPE OF SERVICES

This Phase I Environmental Site Assessment meets the ASTM Standard Practice E1527-05, with the limitations identified in Section 1.4. The scope of work as outlined under the ASTM Standard includes four major components:

1. Records review
2. Site reconnaissance
3. Interviews
4. Report preparation

The scope of work associated with each of these components is described below.

1.2.1 Records Review

MACTEC evaluated existing sources of information regarding historical ownership and uses of the property, to identify RECs. MACTEC used the following sources of information pertaining to the past and current ownership, uses, and potential environmental issues on or near the Site:

- Records from State and Federal regulatory agencies regarding the Site and nearby facilities on regulatory lists from Environmental Data Resources, Inc. (EDR);
- Sources describing the site physical setting, including the current 7.5-minute quadrangle map from the U.S. Geological Survey (USGS), Soil Conservation Service Soil Maps, and USGS bedrock maps;
- Records regarding historical uses of the Site including: Fire Insurance Maps (Sanborn maps), local street directories;

- Previous Reports of environmental investigations;
- Records reviewed at the Erie County Health Department; and
- Records reviewed at the Meadville office of the Pennsylvania Department of Environmental Protection (PADEP).

1.2.2 Site Reconnaissance

MACTEC visited the Site on September 2, 2008 to gather visual evidence of potential environmental issues. MACTEC performed the Site reconnaissance in accordance with the ASTM Standard.

1.2.3 Interviews

In coordination with the site visit, MACTEC conducted an interview with Mr. Ken Point. Mr. Point, currently the only GAF employee at the site, was the only person cognizant of Site activities that was available for interview. Mr. Point was not fully aware of all Site operations and had worked at the Site for less than 20 years. Mr. Point had little knowledge of environmental permits, waste management, and historic structures such as the former lagoons and the former USTs.

1.2.4 User Responsibilities

ASTM Standard Practice E1527-05 contains user's responsibilities in Section 6. These include such items as review of title for environmental liens and activity use limitations, specialized knowledge material to RECs, actual knowledge, reason(s) for significantly lower purchase price, commonly known information, and the reason for performing the Phase I.

1.2.5 Report Preparation

MACTEC prepared this Phase I ESA report for the Site to summarize the findings of the Phase I ESA.

1.3 SIGNIFICANT ASSUMPTIONS

Groundwater flow in the vicinity of the Site is assumed to be to the northwest, based on the local topography and the location of Presque Isle Bay adjoining the Site to the north, as well as available on-Site groundwater information from the Preliminary Soil and Groundwater Investigation Report (O'Brien & Gere, 2008). MACTEC has also assumed that the information provided in the interviews is true and correct and that the databases reviewed are complete, true and correct. No other significant assumptions were made in completing this assessment.

1.4 LIMITATIONS AND EXCEPTIONS

No environmental site assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a site. Performance of ASTM Standard Practice E1527-05 is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with the Site. The information presented in this report is based on professional opinions from our field reconnaissance and visual observations of the Site and vicinity and our interpretation of the available historical information and documents reviewed, as described in this report.

Our findings and opinions are relative to the date of our site work and should not be relied on to represent conditions on other dates. These opinions are based on information obtained during the study and our experience. If additional information becomes available which might change our conclusions, we request the opportunity to review the information, reassess the potential concerns, and modify our opinions, if warranted.

Although this assessment has attempted to identify the potential for environmental impacts to the Site, potential sources of contamination may have escaped detection due to (1) the limited scope of this assessment, (2) the inaccuracy of public records, (3) the presence of undetected or unreported environmental incidents, (4) inaccessible areas, (5) deliberate concealment of detrimental information, and (6) lack of interview information from cognizant individuals.

All areas of the Site were accessible on foot. MACTEC's ability to visually evaluate surface soil on the Site was severely limited by the presence of concrete and pavement throughout the Site.

Bare soil and/or vegetated areas existed only on the north side of the warehouse building located on the extreme northern end of the Site. The basement in a portion of Building 10 (accessed by an out of service elevator and an access port with a ladder) was not inspected because of safety concerns.

1.5 SPECIAL TERMS AND CONDITIONS

Our work was conducted in accordance with the terms and conditions presented in MACTEC's Proposal to Timothy M. Sennett, Esq., Solicitor for the Erie-Western Pennsylvania Port Authority, dated August 14, 2008. Services performed specifically for this Site were authorized by the Erie County Convention Center Authority on September 15, 2008.

1.6 USER RELIANCE

This report, including its findings, opinions, and conclusions, is intended for the exclusive use and benefit of, and may be relied upon only by, the Erie County Convention Center Authority and for the project described in MACTEC's proposal. Any prospective lender, buyer, seller, or other third party who wishes to rely on this report must first sign MACTEC's Secondary Client Agreement.

2.0 SITE DESCRIPTION

This section provides a description of the features on the Site. Information provided in this section was gathered from Site documents, maps, the Site inspection and interviews with personnel that have a working knowledge of the Site.

2.1 SITE LOCATION AND LEGAL DESCRIPTION

The Site is located at 218 West Bayfront Parkway, in the City of Erie, Erie County, PA. West Bayfront Parkway is located along the southern side of the Site and Sassafras Street Extension is located along the eastern side of the Site between the Site and the Erie Bayfront Convention Center. West of the Site lay five vacant parcels and Myrtle Street Extension. The Site is approximately 12.456-acres in size with Parcel IDs of (17)4048-100, (17)4048-300.01, (17)4048-101.01. These parcels consist of some or all of Lots 101 through 120 zoned as waterfront commercial (GAF operations were grandfathered). According to the deeds for the Site, the property is currently owned by Building Materials Corporation of America. The basic Tax Card for the Site is provided in Appendix A. County records indicate that the Site contains numerous buildings constructed beginning in 1903 and ending in 1990. The tax cards indicate that the southernmost buildings (Buildings 3, 4, 4A, 5 and 16) were constructed in 1903, the central buildings (Buildings 6, 6A, 7, 7A, 19, 8, 9, 10, 20, 21, 37, and 40) were constructed in 1910, a former warehouse (Building 45) was constructed in 1980 and a 30,000-square foot warehouse located at the northern end of the Site (Building 1) was constructed in 1990. A Site location map on the United States Geological Survey (USGS) 7.5-minute Erie North, PA topographic quadrangle is presented as Figure 1. A Site plan map is included as Figure 2.

2.2 SITE AND VICINITY GENERAL CHARACTERISTICS

The Site and properties to the east and west have historically been utilized for industrial purposes or as municipal support facilities. The area to the south is the urbanized area of the City of Erie. In recent years, areas of the bayfront have been redeveloped by the City and others into the Convention Center, tourist attractions, condominiums and marinas. To the north of the Site is Presque Isle Bay and Presque Isle State Park.

2.2.1 Site Geology

Erie is located within the Eastern Lake Section of the Central Lowlands Physiographic Province. Within this area, the Central Lowland Province consists of a narrow sliver approximately five to eight miles wide, parallel to the Lake Erie shoreline, and is characterized as flat lowland underlain by gently sloping sedimentary rock. The Central Lowland Province is separated from the Appalachian Plateaus Province by a northwestern facing scarp; the boundary between the two provinces being the base of the escarpment. This area is glaciated and generally consists of a thin layer of unconsolidated sediments overlying bedrock. The depth to the top of bedrock in the City of Erie is generally less than 25 feet, and commonly less than 10 feet. Unconsolidated sediments overlying bedrock along Lake Erie consist of a thin layer of glacio- and lacustrian sediments. These deposits include sand, gravel, silt, and clay derived from glacial beach and lacustrian sources. In some areas along the Erie bayfront, these deposits have been overlain by various materials used to fill low-lying areas for development. Bedrock in the Central Lowlands Physiographic Province near Erie consists of flat to gently folded Paleozoic sedimentary rocks. Bedrock beneath the Site is identified as the Northeast Shale, which is a medium gray shale with some thin, light gray siltstone interbeds. The northeast shale does not have the potential for a good potable water supply due to generally poor water bearing characteristics and poor water quality.

2.2.2 Site Hydrogeology

The Northeast Shale is described as a generally poor aquifer due to relatively low yields and high concentrations of iron, chloride, and dissolved solids (McCoy; 1987). According to a report authored by Richards (1987), “the Northeast Shale does not have the potential for a good potable water supply due to generally poor water-bearing characteristics and poor water quality”.

The on-Site monitoring wells have groundwater levels ranging from 4.5 feet below ground surface (ft-bgs) on the southern portion of the Site to approximately 10 ft-bgs on the northern end of the Site. The groundwater flow is apparently to the northwest, based on the water level measurements. Groundwater at the northern end of the Site is approximately equal to the water level in the bay. No deep wells were installed; nor were any slug or pumping tests reported in the available reports.

The Site had one pumping well present; however, no records of the well depth or yield were available. The available records do mention that approximately 100,000 gallons of water per day were pumped from the well.

2.2.3 Surface Water

An unnamed tributary to Lake Erie borders the Site to the east. This tributary collects storm water runoff and NPDES permitted outfalls from the Site as well as storm water from up gradient of the Site. To the immediate northeast and north of the Site is Presque Isle Bay on Lake Erie. Approximately 25% of the perimeter of the Site adjoins Presque Isle Bay.

2.3 CURRENT USE OF THE PROPERTY

Currently, the Site is unused; manufacturing operations ceased in March of 2007. The Site was most recently used in the manufacture of asphalt roofing products for residential and commercial buildings. The Site contained two manufacturing lines, one for residential roofing shingles (Line 1) and one for rolled commercial roofing products (Line 2). Both lines used similar processes and equipment; however, the residential shingle line contained cutting equipment at the end that was used to cut the shingles to size from the finished rolls.

The production process began with a spool of felt paper or fiberglass sheet on the manufacturing line. The paper was uncoiled and fed as a strip through the mill. Heated asphalt was applied to the strip via spray heads and/or dip tanks and rolling equipment was used to assist in saturating the paper. The paper was then passed through steam heated drums for drying. The asphalt saturated paper was then "filled" utilizing sand. Talc, soapstone, mica or sand was then applied to the back of the paper to prevent sticking. The saturated paper then passed through a granule applicator where pigmented granules were pressed into the strip. Drums in the mill line were fed with non-contact cooling water to cool the strip, solidifying the asphalt. At the end of the line, the paper was treated by applying self-seal glues and was either re-coiled into rolled roofing for commercial buildings (Line 2) or cut into shingles for residential applications (Line 1). The cutting process produced bits of asphalt saturated felt paper, which were managed as waste.

The process also contained a tar refining process whereby low melting point (approximately 170º F) tar was heated in tar heating thanks and placed into an asphalt blowing drum to drive off light-

end petroleum compounds. In the asphalt blowing drum, air bubbles were forced through the heated tar for a period of up to six hours. The refining process utilized a series of boilers located in the northern process buildings. Historically, some of the boilers were coal and wood-fired. Several of the coal/wood-fired tar heating tanks were idled and the remaining tanks were converted to natural gas fuel and were in use when the plant was shut down in 2007. The tar was refined into a higher melting point (approximately 300º F) product, which was used in the process. The lighter end petroleum hydrocarbons were distilled, collected and sent off-site for recycling. Non-condensable hydrocarbons were sent through an emission control device and the treated vapors were vented to the atmosphere.

Ancillary processes included receiving of raw materials via rail and truck, storage, management and distribution of raw materials to the processes, storage of finished products in warehouses, shipping of the finished products via trucks, maintenance activities and operation of a boiler house supplying steam to plant processes. The raw product receiving and warehousing was located primarily on the south end of the plant. Low melting point tar was contained in several large aboveground storage tanks located north of the main plant buildings. Various colors of roofing sand were also stored in silos in this area. Warehouses at the northern end of the Site were used primarily for storage and shipping of finished products. Maintenance facilities were present in various locations throughout the buildings at the Site. The Boiler House (Building 13) was located in the central portion of the east side of the Site.

2.4 DESCRIPTION OF STRUCTURES, ROADS, AND OTHER IMPROVEMENTS ON THE SITE

The vast majority of the Site area is asphalt or concrete-paved or is within the footprint of buildings or aboveground storage tanks. The only area of bare soil on the Site is located on the north side of the north Warehouse Building. In general, the Site layout has older buildings near the southern end and progressively newer buildings toward the north. Buildings 3, 4, 5 and 16 are located at the southern end of the Site. The central portion of the Site is occupied by Buildings 6, 6A, 7, 7A, 19, 8, 40, 21, 9, 37, 10 and 20. South of the central buildings is the aboveground tank farm and Buildings 13, 49, 45, and 39. An open, paved area is located north of the tank farm and Building 1, which is located at the extreme northern end of the Site. Figure 2 shows the layout of the Site; the following table provides a summary of the locations and uses of the Site buildings.

Building Number	Location	Former Use
1	Northern end of Site	Warehouse
3	Southeast corner of Site	Main Office
4	Southern portion of Site	Storage
5		
16		
6	South-central portion of Site, north of southern rail spur	Compressor Room
6A		Lunch Room
7		Storage/Breezeway
7A		Storage/Breezeway
19		Storage
8	Northern portion of manufacturing area, south of Tank Farm	Old Tar Stills
9		Line 2 (Rolled Roofing) Mill
20		Storage
40		Stills
21		Line 1 (Residential Roofing) Mill
37		Line 1 Cutter
10		Line 1 Wrapper/Palatizer
11	West of 500,000-gallon AST	Limestone Silo
13	East of Tank Farm	Boiler House
--	West of Building 13	Main Transformer Building
39	Western side of central area	Shear Shop
45	North of 500,000 gallon AST	Main Storage
38	East of 500,000 gallon AST	Sand Silos
49	Immediately east of Building. 38	Sand Dryer

"--" indicates no building number assigned.

The older (circa 1903 through 1910) Site buildings are constructed of wooden beams and trusses with wooden roofs and concrete floors. Some of the buildings have been subsequently reinforced with steel beams.

At least 26 large-capacity aboveground storage tanks (ASTs) were reportedly utilized in the process in the recent past. The ASTs contained various products and were not necessarily in service at the time of the plant closure. The following table provides a summary of the ASTs listed in the records for the Site.

Tank Number	Capacity (gallons)	Contents
1	500,000	Asphalt
2	150,000	Asphalt*
4	30,000	Asphalt
5	97,000	Asphalt*
6	13,800	Asphalt*

Tank Number	Capacity (gallons)	Contents
9	Unknown	Cooling Water
13	12,000	Asphalt
14	6,000	Used Oil
15	2,100	Gas Well Brine
16	660	Asphalt
17	150	Asphalt
18	1,100	Asphalt
19	330	Asphalt
20	225	Asphalt
21	225	Asphalt
22	500	Hot Oil Transfer
23	500	Hot Oil Transfer
24	500	Diesel
1D	17,038	Asphalt*
2D	17,038	Asphalt*
3D	17,038	Asphalt*
4D	17,038	Asphalt
5D	17,038	Asphalt
6D	17,038	Asphalt*
--	275	Kerosene
--	1,000	Propane

"*" - indicates AST was out of service prior to plant closing in 2007.
"--" indicates no tank number assigned.

Four railroad line sidings enter the Site at the southwest corner. Three of the sidings enter the site and turn east between the process buildings. The fourth line enters the site and turns north to the Shear Shop. Two main line rail lines are present along the south side of the Site between the Site buildings and Bayfront Parkway.

Various storm water catch basins and building drains are located throughout the Site. These drains reportedly have been routed to several oil/water separators located 1) near the transformer building; 2) in the distillation area; and 3) north of the cooling water tank (Tank 9). Effluent from the oil/water separators is piped to the unnamed tributary located on the east side of the Site. Historically, it is known that the storm water drains discharged directly to the unnamed stream without oil separation. Process water and sanitary wastewater from the plant was reportedly discharged to the municipal sewage authority.

The Site is located within the City of Erie and as a result, all public utilities are available. Heated buildings utilize either steam from the boiler house or natural gas space heaters. Some office areas

are cooled via use of small window air conditioning units. Gas for use in Site heating units and the Boiler House is supplied by National Fuel Gas and via an on-Site gas supply well. The on-Site gas supply well was decommissioned upon termination of the Site operations in 2007. Electric service is provided by Pennsylvania Electric Company. The main electrical supply enters the Site to the west of the Boiler House, and several industrial transformers are present in the transformer building and outside to the west. Public water is supplied to the Site by Erie City Water Authority. Historically, a water supply well was utilized on the Site to provide process water. Sewer service is provided to the Site by the Erie Sewer Authority.

2.5 CURRENT USE OF ADJOINING PROPERTIES

The Site is surrounded on the east, south and west by formerly industrial land. To the north of the Site is Presque Isle Bay. The property located immediately to the east of the Site contains the newly constructed Erie Bayfront Convention Center and an unnamed stream that has been tubed along most of the Site. Historically, this area was used for industrial purposes and contained a manufactured gas plant. To the south of the Site is the Bayfront Parkway, which is relatively new, and the downtown area of the City of Erie. Immediately to the west of the Site is vacant land, the Erie Water Authority and a fish hatchery.

3.0 SITE USER PROVIDED INFORMATION

This section provides a summary of the user provided information for the Site. The user, in the context of the ASTM Standard is the Erie County Convention Center Authority. User information was provided by the City Mayor's office and by Mark Shaw of MacDonald, Illig, Jones & Britton, LLP or Erie, PA.

3.1 TITLE RECORDS

The chain of title records were obtained by MacDonald, Illig Jones and Britton, who provided a summary to MACTEC. The most recent information was from 2005 when there was a land swap between various parties to accommodate the Convention Center. The property involved was a small area where the new guard shack is located and the northeast corner, south of the water lot. Prior to that, there were several GAF-related entity transfers. The property was transferred from GAF Building Materials Corporation to Building Materials Corporation of America in January 1994; from GAF Corporation to GAF Building Materials Corporation in April 1989; and from GAF Corporation to Building Materials Corporation of America in 1986.

A series of transactions between Rubberoid and H. F. Watson Company occurred in June 1930, when the property was transferred from Watson to Rubberoid; in April, 1928, there was a transfer from Rubberoid to Watson; and in March 1928 there was a transfer from Watson to Rubberoid. In August 1905 there was a transfer from F.A. Sterling and Ralph Worthington to H.F. Watson. In 1899, the property was transferred from The Fidelity Insurance Trust and Safe Deposit Co. to Sterling and Worthington. In 1892, the property was transferred to Fidelity via sheriff's sale from Orange Noble et al. In 1870, the property was transferred from Henry Rawle et al. to Orange Noble et al. In 1869, the City of Erie transferred the property to Henry Rawle et al. Records of the property transfers prior to 1869 were not available.

3.2 ENVIRONMENTAL LIENS OR ACTIVITY USE LIMITATIONS

MACTEC was not made aware of any environmental liens or activity use limitations on the Site.

3.3 SPECIALIZED KNOWLEDGE

The user did not provide MACTEC with any specialized knowledge regarding the Site.

3.4 COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION

Commonly known information was made available to MACTEC during the Phase I ESA. This includes information regarding Site processes, chemical constituents used in the process, the nature of the fill materials on the site, etc. The following paragraphs provide the commonly known information for the Site.

The process on the Site is known to have used large quantities of tar, and light-end hydrocarbons, distilled from the tar, were produced as a byproduct. These materials are known to have been spilled during operation of the plant.

The area north of the process area is known to have been filled through time, reclaiming land from Presque Isle Bay. The fill materials used included some locally derived fill; however, much of the material is known to consist of waste shingles from the plant. Given that the shingles contain tar and older material likely contains asbestos, the presence of this material likely constitutes a REC.

The area immediately south of the Main Warehouse Building (Building 1) is known to have historically contained two unlined wastewater treatment lagoons. These lagoons were used to collect roofing sand, tar, oil and other materials in used process water prior to discharge of the water to Lake Erie. Water was also allowed to infiltrate through the bottom of the lagoons to drain the solids contained in them. The lagoons' use was alternated with one lagoon in use while the other was being cleaned. Waste materials in the lagoons were dredged from the lagoons periodically. No information was available regarding the disposition of the dredged materials. The former presence of the lagoons is considered to be a REC.

3.5 VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES

MACTEC was not made aware of any reduction in the selling price of the property due to the presence of environmental concerns.

3.6 OWNER, PROPERTY MANAGER AND OCCUPANT INFORMATION

The Site is owned, managed and occupied by GAF Building Materials Corporation; although the manufacturing operations ceased in 2007. GAF provided the City of Erie with one copy of each environmental document that GAF believed to be relevant to the Phase I ESA. The documents were made available for MACTEC review at the Erie Mayor's office. In accordance with the terms of a Confidentiality Agreement, the documents were not allowed to be removed from the Mayor's office, nor copied for use outside of the Mayor's office.

Documents made available by GAF included a geotechnical report from the construction of the Main Warehouse Building (Building 1), a geophysical survey report prepared in response to allegations of buried drums on the Site, a Phase I ESA prepared in 2003, a pre-excavation sampling report for an access road prepared in 2006, a Preliminary Soil and Groundwater Investigation Report dated February 6, 2008, a lead paint survey report and an asbestos inspection report. The information gathered from these reports is summarized in Section 4.5 of this report.

3.7 REASON FOR PERFORMING PHASE I

The reason for performing the Phase I ESA was to fulfill the requirements of AAI under the Small Business Relief and Brownfields Revitalization Act of 2002 as part of the Authority's evaluation of whether to purchase the property.

4.0 RECORDS REVIEW

Records reviewed for the Phase I ESA included available topographic maps, Sanborn Maps, the City Directory and a search of environmental databases maintained by the USEPA and PADEP. These sources were provided by EDR. Other resources included the Erie County Tax Office, the Erie County Soil Conservation District, the US Geological Survey, and USEPA and PADEP website databases. The information gathered from these sources is provided in the following subsections. MACTEC also reviewed the available files at both the PADEP and the Erie County Health Department (ECHD); this information is summarized in Section 6.

4.1 PHYSICAL SETTING

MACTEC examined the USGS 7.5 minute topographic quadrangle map entitled Erie North, PA, dated 1996 (Figure 1). The Site is located at approximate latitude/longitude coordinates 42° 08' 1.0" north and 80° 05' 35.9" west. The Site elevation is approximately 583 feet above mean sea level (ft-amsl). The regional topography is gently sloping to the north toward Lake Erie; however, the Site is relatively flat, sloping to drainage points in the center. The Site has an elevation change of less than two feet throughout the developed portions and no more that five feet near the northeast corner, which rises in elevation due to fill placed in the area.

The nearest surface water body to the Site is Presque Isle Bay of Lake Erie, located along the northwestern and northern margins of the Site. An unnamed tributary to Lake Erie is located on the eastern side of the Site and flows north, emptying into Lake Erie at the northeast corner of the Site. The unnamed tributary is tubed for approximately 2/3 of the length of the Site.

4.2 REGIONAL GEOLOGY AND HYDROGEOLOGY

The Geologic map of Pennsylvania produced by the Pennsylvania Department of Conservation and Natural Resources (PA DCNR) Geologic Survey indicates that the region is underlain by shale and siltstone of Permian age. Unconsolidated material overlying bedrock is sand, gravel and silt that is glacial and alluvial in origin. Additional information on the regional and Site geology is provided in Section 2.2.1.

Shallow groundwater flow in the unconsolidated material is likely to the northwest, toward Lake Erie, based on the local topography and the location of nearby surface water bodies. The bedrock beneath the Site is not likely to be a significant source of groundwater as shale and siltstone typically transmit groundwater poorly. Groundwater movement in these bedrock types would be expected to be primarily in fractures and bedding planes. According to the US Geologic Survey's Groundwater Atlas of the United States (USGS, 1998), no principal aquifers lie within the Central Lowlands Physiographic Province in the area of the Site.

The US Department of Agriculture (USDA) Soil Survey of Erie County, PA was not available for review. However, the Web Soil Survey provided at www.websoilsurvey.nrcs.usda.gov provides the soil types for the Site. According to the USDA website, the Site is entirely comprised of Made Land (symbol Ma), which is land created by filling low lying or submerged areas.

4.3 ENVIRONMENTAL DATABASE INFORMATION

MACTEC reviewed federal, state and local (Building, Zoning, Tax, Planning and the Erie County Health Departments) environmental records pertaining to the Site and its vicinity. In performing this review, MACTEC used the services of Environmental Data Resources, Inc. (EDR), a vendor specializing in the search and retrieval of governmental environmental databases. These federal, state, and local databases include information regarding Superfund sites, hazardous materials use and storage, hazardous waste generation, treatment, storage or disposal, solid waste landfills, transfer stations, incinerators, underground storage tanks (USTs) and leaking USTs, discharges of petroleum and other hazardous substances and reported incidents of contamination. The databases conform to the standard record sources identified in ASTM Standard Practice E1527-05. The EDR report is presented in Appendix B and includes (1) a street map showing the approximate locations of sites identified within a 1.0-mile radius of the Site; (2) a complete listing of findings; and (3) a description of the databases searched. The following ASTM standard databases were reviewed (the dates provided in the parenthesis refer to the version date of the governmental database used by EDR):

Federal ASTM Standard Databases

- United States Environmental Protection Agency (USEPA) National Priorities List (NPL; 04/30/2008);
- Proposed NPL (04/30/2008);
- USEPA Delisted NPL (04/30/2008);
- USEPA Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS; 07/09/2008);
- CERCLIS-No Further Remedial Actions Planned (NFRAP; 12/03/2007);
- USEPA Resource Conservation and Recovery Act (RCRA) Corrective Action Sites (CORRACTS) Database (06/25/2008);
- USEPA RCRA Generators and Treatment, Storage and Disposal (TSD) Facilities Database (RCRAInfo; 08/20/2008);
- Emergency Response Notification System (ERNS) Database (12/31/2007);
- US Engineering Controls List Sites (US ENG CONTROLS; 07/23/2008); and
- US Institutional Controls List Sites (US INST CONTROLS; 07/23/2008).

State ASTM Standard Databases

- Pennsylvania Hazardous Sites Cleanup Act (HSCA)List(07/30/2008);
- Pennsylvania HSCA Priority Remedial Sites Listing (12/07/2007);
- Licensed Solid Waste Facilities (06/20/2008);
- Leaking Underground Storage Tank Sites (LUST; 07/03/2008);
- Underground Storage Tank Sites (05/01/2008);
- PA Act 2 Deed Acknowledgement Sites (ACT 2-DEED; 08/25/2008);
- Sites with Engineering Controls (ENG CONTROLS; 05/15/2008);
- Sites with Institutional Controls (INST CONTROLS; 05/15/2008); and,
- Voluntary Cleanup Program Sites (VCP; 08/25/2008).

Tribal ASTM Standard Records of Indian Reservations

- US Geological Survey (USGS) Indian Reservations (INDIAN RESERV; 12/31/2005);

Federal Supplemental Databases

- USEPA NPL Liens (10/15/1991);
- USEPA CERCLA Lien Information (LIENS 2; 08/19/2008)
- USEPA Hazardous Materials Information Reporting System (HMIRS; 04/30/2008);
- US BROWNFIELDS: Listing of Brownfields Sites (07/01/2008);
- USGS Department of Defense Sites (DOD; 12/31/2005);
- US Army Corps of Engineers (USACE) Formerly Used Defense Sites (FUDS: 12/31/2006);
- USEPA Superfund Consent Decrees (CONSENT; 04/25/2008);

- USEPA Records of Decision (ROD; 06/18/2008);
- Uranium Mill Tailings Sites (UMTRA; 07/13/2007);
- USEPA Open Dump Inventory (ODI; 06/30/1985);
- USEPA Mines Master Index File (MINES; 05/28/2008);
- USEPA Toxic Chemical Release Inventory System (TRIS; 12/31/2006);
- USEPA Toxic Substances Control Act (TSCA; 12/31/2002);
- USEPA Federal Insecticide, Fungicide & Rodenticide Act (FIFRA)/TSCA Tracking System (FTTS; 07/12/2008);
- USEPA Section 7 Tracking System (SSTS; 12/31/2006);
- USEPA PCB Activity Database System (PADS; 12/04/2007);
- Nuclear Regulatory Commission Material Licensing Tracking System (MLTS; 07/08/2008);
- USEPA Facility Index System (FINDS; 07/01/2008);
- USEPA RCRA Administrative Action Tracking System (RAATS; 04/17/1995); and
- USEPA Biennial Reporting System (BRS; 12/31/2005).

State Supplemental Databases

- Old Solid Waste Landfills (HIST LF; 06/02/1999);
- Unregulated Leaking Underground Storage Tank File (UNREG LTANKS; 04/12/2002);
- Archived Underground Storage Tank Sites (ARCHIVE UST; 05/01/2008);
- Leaking Aboveground Storage Tanks (LAST; 07/03/2008);
- Aboveground Storage Tanks (AST; 05/01/2008);
- Archived Aboveground Storage Tank Sites (ARCHIVE AST; 05/01/2008);
- Drycleaner Facility Locations (07/15/2008);
- Brownfields Sites (BROWNFIELDS; 02/07/2008) and
- NY Facility and Manifest Data (NY MANIFEST 05/27/2008).

EDR Proprietary Records

- EDR Manufactured Gas Plants (MGP).

The findings of the database search within the applicable radii are discussed in the following subsections, organized by location. Databases that are not listed did not have properties identified within the area searched.

4.3.1 Target Property (Site) Database Results

The Site is listed in the EDR Report under three different entries, likely due to the use of three different names and the recent construction of Bayfront Parkway, the Site's current street address. The Site is listed as Building Materials Manufacturing Corp. and Building Materials MFG Corp/Erie, both at the 218 West Bayfront Parkway address, and as GAF Corp at the Foot of

Sassafras Street address. The Site was identified in four of the databases searched. These included the FINDS database, TRIS database, the CERCLIS NFRAP database and the RCRAInfo database. Each of these is discussed below.

The FINDS database contains facility information and "pointers" to other sources that contain more detailed information. The FINDS database indicates that the Site is contained in the PA-EFACTS database, RCRAInfo (discussed below) and the TRIS database. The PA-EFACTS database contains multi-program information on facilities regulated by the PADEP, similar to the Federal FINDS database. The EFACTS database indicates that the facility has several operating permits for ASTS and a minor air source air permit for the rotary kiln. Several violations were present in the EFACTS database primarily for administrative issues with waste disposal. One violation was for improper design specifications for an AST; however, the records were not specific with regard to nature of the violation. The TRIS database contains information on toxics release reporting required by SARA Title III Section 313. The TRIS database indicates that the Site had releases of polynuclear aromatic hydrocarbons (PAHs), copper compounds and lead compounds to air and in waste streams disposed of off-Site. These releases appeared to be in compliance with the facility operating permits.

The CERCLIS NFRAP database contains information on sites that were evaluated under CERCLA and, to the best of USEPA's knowledge, did not require further evaluation or listing as a NPL site. The Site was evaluated in 1985 and a preliminary assessment was performed by the USEPA. The Site was placed into the NFRAP category on May 20, 1985.

The RCRAInfo database contains information on facilities that generate, treat, store or dispose of hazardous waste. RCRAInfo replaced the RCRA Information System (RCRIS) database. The Site was identified in the RCRAInfo database as a non-generator of hazardous waste; although the Site was previously a conditionally exempt small quantity generator (CESQG). A non-generator, as the name implies, does not currently generate hazardous waste. A CESQG generates less than 100 kilograms (kg) of hazardous waste per month or less than 1 kg of acutely hazardous waste per month. The available information does not provide the specific waste streams generated on the Site; however, they were likely solvents utilized in the on-Site laboratory. The EDR Report indicates one violation in 1987, which was corrected by 1988. The violation resulted in a written informal notice; no other enforcement action was reported. Actions of this type are typically

related to administrative procedures and do not likely indicate an actual release or a potential for a release.

4.3.2 Off-Site Property Database Results

Facilities in the vicinity of the Site appear in several Federal and state databases. These databases include the CERCLIS database, the RCRAInfo database, the PA HIST LANDFILL database, the PA LUST database, the NY MANIFEST database, and EDR's proprietary Manufactured Gas Plant database. Each of the facilities identified in the government and private databases and their distance(s) and potential for impacts to the Site are discussed below.

4.3.2.1 *CERCLIS NFRAP Database*

In addition to the Site, one CERCLIS NFRAP facility is located within ½-mile of the Site. This facility is the Penelec Front Street facility, located approximately 1,800 feet east of the Site. The Penelec Front Street facility was an alleged PCB disposal facility; however, it was granted NFRAP status on November 1, 1984, subsequent to the preliminary assessment. Given the location of this facility relative to the Site, it is not likely that it could have impacted the Site should environmental contamination be present.

4.3.2.2 *RCRIS Database*

In addition to the Site, three RCRA Small Quantity Generator (SQG) facilities are present within ¼-mile of the Site. These facilities include the Erie Sand and Gravel facility, Niagara Machine, Inc. and Medi-Center Hospital.

The Erie Sand and Gravel Company was located at 2 East Bay Drive, approximately 700 feet north of the Site. This facility is listed in the EDR Report as a SQG and no violations were reported. The PA EFACTS database appears to indicate that this facility is inactive; and in fact, it is the current location of the Erie Bayfront Convention Center. Given the location of this facility on a bayfront peninsula northeast of the Site, it is not likely it could affect the Site if releases had occurred.

The Niagara Machine, Inc. facility is located at 325 West Front Street, approximately 800 feet from the Site. This facility is listed as a small quantity generator of hazardous waste and no violations are reported. The PA EFACTS database appears to indicate that this facility is inactive. Given that this facility was a SQG and that no violations existed, it in unlikely to have impacted the Site.

The Medi-Center Hospital is located at 137 West 2nd Street, approximately 900 feet east-southeast of the Site. This facility is listed as a RCRA SQG and no violations were reported. Given the location of this facility in relation to the Site, it is not likely that it has the potential to affect the Site should releases have occurred.

4.3.2.3 *PA HIST LANDFILL Database*

The EDR database search revealed one facility in the PA Historical Landfill Database within ½-mile of the Site. This facility is the Hamot Medical Center Incinerator located at 201 State Street, approximately 1,350 feet east of the Site. This facility is located east of the Site and is not directly upgradient of the Site. Therefore, any releases from the facility are unlikely to impact the Site.

4.3.2.4 *LUST Database*

The EDR database search revealed two facilities in the PA LUST Database within ½-mile of the Site. These facilities are the Front Street Generating Station and the McAllister Marina, which are located approximately 1,400 feet and 1,600 feet east and north-northeast of the Site, respectively. The Front Street Generating Station is located on State Street at the Bayfront Parkway, and the McAllister Marina is located on the State Street pier on Presque Isle Bay. The records for both of these sites indicate that the cleanup is completed. Given the locations of the LUST facilities in relation to the Site, it is unlikely that either could impact the Site if contamination were still present.

4.3.2.5 *NY MANIFEST Database*

The NY MANIFEST database contains information on manifested hazardous waste. One NY MANIFEST facility was located within ¼-mile of the Site. This facility was the former Erie Sand and Gravel Company facility that was located where the Erie Bayfront Convention Center now

stands. As with the RCRIS database, given the location of this facility in relation to the Site it is not likely that it could have impacted the Site if releases occurred.

4.3.2.6 *Others*

Two former manufactured gas plants were located near the Site. These were the Erie Gas Company and the Pennsylvania Gas Company. These former facilities were located across what is now Bayfront Parkway from each other on the east side of Sassafras Street. It is not clear if these were the same facility under different ownership or if they were two separate facilities. In either case, the presence of these former facilities, adjacent to the Site, constitute an off-Site REC that has the potential to affect the Site. Former manufactured gas facilities often contain residual tar and organic compounds that have the potential to impact soil and groundwater.

4.3.2.7 *Orphan Facilities*

Orphan facilities are properties that cannot be mapped due to inadequate or poor address information. Fifteen Orphan facilities were identified in the EDR Report. MACTEC reviewed the locations of the orphan facilities and determined that one is in close proximity to the Site. This facility is the GPU Front Street Station of PENELEC. This site is listed in the VCP, Unregulated Tanks and Act 2 DEED databases. As mentioned in the CERCLIS-NFRAP discussion of this site above, given the location of this facility relative to the Site, it is not likely that it could have impacted the Site should environmental contamination be present. None of the other orphan facilities are located in the vicinity of the Site, and therefore, have little potential to impact the Site.

4.4 HISTORICAL USE INFORMATION

Information in this section was obtained from historic topographic maps, city records, and interviews with various people familiar with the Site. Based on this information, construction of the Site buildings began in 1903 with the majority of buildings completed by 1910. It is not clear when the first development took place at the Site; however, structures appear on the 1899 topographic map, although the property does not appear to extend as far into Presque Isle Bay as it does presently. The oldest Sanborn Map is dated 1921 and most of the Site structures are present. The Site has been used as an asphalt roofing plant since it was first constructed in 1903.

4.4.1 Property Abstract

The EDR City Directory Abstract for the subject property was available for review as part of this environmental site assessment; however, the information in the abstract was limited due to the age of the Bayfront Parkway. The street address is not listed in the EDR City Directory Abstract until 2000. In 2000 and 2005, only two properties are listed including Barton Malow Company and the Erie City Water Authority, both located at 340 West Bayfront Parkway. This location is west of the Site. The EDR City Directory Abstract is provided in Appendix C.

4.4.2 Aerial Photographs

MACTEC was unable to obtain historic aerial photographs for the Site. Aerial photograph sources included EDR and the Erie County Soil Conservation District. Neither entity had photographs of the Site on file. The EDR "No Coverage" Report is provided in Appendix D.

4.4.3 Historic Topographic Maps

MACTEC obtained five historical USGS topographic maps for the Site through EDR. The topographic maps are dated 1899, 1957, 1969, 1975, 1977 and 1996. The following sections provide a summary of the information gathered from each map. The historic topographic maps are presented in Appendix E.

- **1899 Map** – The 1899 topographic map is of good quality and is at a scale of one inch equals 62,500 inches or approximately one mile. The map shows the Site as a small portion of land between two piers on Presque Isle Bay. The piers are apparently serviced by rail lines. A single structure is present on the Site at the foot of the bluff above Lake Erie. No other features are apparent on the Site. Off-Site to the east are several piers; to the south is the developed area of the City of Erie; and to the west is the bay and another pier. To the north is Presque Isle Bay.

- **1957 Map** – The 1957 topographic map is of good quality and is at a scale of one inch equals 24,000 inches or 2,000 feet. The 1957 topographic map shows the land mass of the Site has been extended northward into Presque Isle Bay. The property contains the administrative, warehouse and process buildings at the south end; the Shear House is present on the west side and some of the tanks in the central area are present. The northwest corner of the property contains several aboveground storage tanks marked as "Oil". The railroad spurs into the Site are also present in 1957. A road enters the Site at the southeast corner and extends to the northwest corner, ending in a cul-de-sac near the oil tanks. In the surrounding areas, a building and four oil tanks are located across Sassafras

Street to the east (now the convention center property); to the south is the downtown area of Erie, and to the west is a fish hatchery.

- **1969 Map** – The 1969 topographic map is of good quality and is at a scale of one inch equals 24,000 inches or 2,000 feet. Other than land reclamation on the Site and on adjacent properties to the east and west of the Site, as well as a large area at the entrance to Presque Isle Bay and one new AST on the property to the east of the Site, no differences were noted between the 1957 and 1969 maps. The land reclamation to the east of the Site includes the extension of the property immediately to the east approximately 400 feet into Presque Isle Bay. In addition, these property has one new AST near the farm of four existing ASTs. The extension of the property to the east also included extending a portion of the north end of the Site approximately 100-200 feet into the bay. On the property immediately west of the Site, approximately 100 feet of land was reclaimed to the north.

- **1975 Map** - The 1975 topographic map is of good quality and is at a scale of one inch equals 24,000 inches or 2,000 feet. On the 1975 map, the three oil ASTs that were located at the northern end of the Site have been removed. Additionally, four ASTs that were located at the northern end of the adjacent property to the east have also been removed. The AST on the eastern property that first appeared on the 1969 map is still present.

- **1977 Map** - The 1977 topographic map is of good quality and is at a scale of one inch equals 24,000 inches or 2,000 feet. No discernable differences are apparent on the Site or adjacent properties on the 1977 map.

- **1996 Map** - The 1996 topographic map is of good quality and is at a scale of one inch equals 24,000 inches or 2,000 feet. The land mass at the northern end of the Site appears to have been extended to the north between the 1977 and 1996 maps. Additionally, the present day northern warehouse has been constructed. Off-Site to the south, the Bayfront Parkway has been constructed. To the west of the Site, the bayfront has been developed with marinas and roads where the rail yard once existed. No other significant changes are apparent on the 1996 map.

4.4.4 Sanborn Fire Insurance Maps

Historic Sanborn Fire Insurance Maps were available for the Site through EDR. The following provides a summary of the Sanborn Maps identified for the Site. The Sanborn Fire Insurance Maps are presented in Appendix F.

- **1921 Map** – Two 1921 Sanborn Maps cover the Site. The first (Map 11) covers the southern portion of the Site from the railroad tracks south of the buildings, and including approximately 600 feet to the north. The second map (Map 83) covers the northern approximate 200 feet of the property and the pier and rail line on the western portion of the Site. In 1921, the Site is owned by H. F. Watson Company, Makers of Roofing Papers. On the 1921 maps, the pre-1910 buildings are present including current Building Nos. 3, 4, 4A, 5, 16, 6, 6A, 7, 19, 8, 9, 21, 10, 37, and 20. Railroad tracks occupy the area now contained within Building 7A. Two buildings were also present on the east side of the

Site, north of the current administrative building (Building 3). The Boiler House (Building 13) is present in its current location. A shed is present on the western boundary of the Site. Twelve outdoor ASTs were present on the eastern, southern and western sides of the buildings. These tanks are marked as containing tar, flux, wax, creosote, and asphalt. An area on the eastern side of the Site is marked as "Storage of Tar in Barrels". An underground pipeline, marked as a 24" suction pipe exits the site to the north into Presque Isle Bay. The shoreline at the northern end of the Site is approximately 800 feet north of the rail lines at the south end of the Site. Boat docks are present along the eastern portion of the Site on the bay. A rail spur is present on a pier at the western Site boundary that extends north approximately 900 feet from the rail line on the southern property boundary.

- **1950 Map** - Two 1950 Sanborn Maps cover the Site. The first (Map 11) covers the southern portion of the Site from the railroad tracks south of the buildings, and including approximately 600 feet to the north. The second map (Map 83) covers the northern approximate 200 feet of the property and the pier and rail line on the western portion of the Site. In 1955, the Site is owned by the Rubberoid Company. On the 1955 maps, the building layout is similar to that of 1921 with the addition of the Shear Shop. Three ASTs that existed on the eastern side of the Site have been replaced by Building 40 and three new ASTs are present east of Building 40. A water tank, a fuel oil tank and several new tar tanks are shown on the northern end of the process area. The sand dryer, and a slate grinding and storage tanks have also been added to the north of the process area. Fewer boat docks are present on the east side of the property on the bay than were present in 1921. The rail line on the western pier has been reconfigured and three oil tanks a prep house and a scale have been added on the pier. It appears that the property may have been extended northward into the bay.

- **1955 Map** - Two 1955 Sanborn Maps cover the Site; however, they are of poor quality. The first (Map 11) covers the southern portion of the Site from the railroad tracks south of the buildings, and including approximately 600 feet to the north. The second map (Map 83) covers the northern approximate 400 feet of the property and the pier and rail line on the western portion of the Site. In 1955, the Site is owned by the Rubberoid Company. On the 1955 maps, the building layout is similar to that of 1950. The only discernable difference in the 1955 map from the 1950 map is the extension of the property approximately 200 feet further north into the bay. The rail line on the western pier appears to have been shortened, extending only to the Shear Shop.

- **1965 Map** - Two 1965 Sanborn Maps cover the Site. The first (Map 11) covers the southern portion of the Site from the railroad tracks south of the buildings, and including approximately 600 feet to the north. The second map (Map 83) covers the northern approximate 400 feet of the property and the pier and rail line on the western portion of the Site. In 1965, the Site is owned by the Rubberoid Company. On the 1965 maps, the building layout is similar to that of 1955. No discernable differences were noted between the 1965 and 1955 maps.

- **1970 Map** - Two 1970 Sanborn Maps cover the Site. The first (Map 11) covers the southern portion of the Site from the railroad tracks south of the buildings, and including approximately 600 feet to the north. The second map (Map 83) covers the northern approximate 400 feet of the property and the pier and rail line on the western portion of the Site. In 1970, the Site is owned by the Rubberoid Company. On the 1970 maps, the

building layout is similar to that of 1965. No discernable differences were noted between the 1970 and 1965 maps.

4.5 PREVIOUS ENVIRONMENTAL REPORTS

Several previous reports were made available to the Erie Mayor's Office by GAF for review. These reports were reviewed at the Mayor's office; however, they were not allowed to leave, nor could they be copied. The following table provides a list of the reports reviewed, followed by a discussion of the findings of each.

Report Title	Date	Preparer
Preparedness, Prevention and Contingency Plan	May 9, 1983	GAF
PCB Inventory Quarterly Reports	1991	GAF
Geophysical Survey	08/13/1993	Andrew Martin Associates
Geotechnical Borings – Warehouse Building (Attachment to Geophysical Survey)	September 1987	Urban Engineers
Phase I ESA	April 2003	Environ
Lead-Based Paint Inspection Report	November 2007	Microbac
NESHAP Building Inspection for Asbestos Containing Material	11/20/2007	Microbac
Summary Report – Access Road Pre-excavation Sampling	10/27/2006	ER&R
Preliminary Soil and Groundwater Investigation Report	02/06/2008	O'Brien & Gere

4.5.1 Preparedness, Prevention and Contingency (PPC) Plan

The PPC Plan was obtained from the Erie County Health Department (ECHD) files on May 11, 2007. The PPC Plan provides information on the process at the Site, the chemical storage and use points and potential release scenarios. The PPC Plan further identifies the emergency procedures to be implemented should a release occur. The PPC Plan identifies primarily loading and unloading points for tar as potential spill areas. The plan does not identify products such as gasoline (500 gallon UST at the time); oil from the High efficiency air filters (500-gallon UST); the fuel oil (AST); and various small tar tanks.

4.5.2 PCB Inventory

The PCB Inventory is a series of quarterly reports that document the presence of PCBs in certain equipment on the Site. Two pieces of equipment were documented as containing PCBs. These included a transformer numbered PBV/730701, located in Building 13 (Boiler House) that contained 202 gallons of PCB dielectric fluid and a starting compensator in Building 21 (Line 1 mill) that contained three gallons of Pyranol, which is a trade name for PCB dielectric fluid. It is not clear if the transformer was actually in the Boiler House, or (more likely) in the transformer building (not numbered), located immediately west of the Boiler House. According to the inventory, the transformer oil was changed out and the transformer was certified as PCB free in 1991. The starting compensator dropped out of the reports in 1979.

4.5.3 Geophysical Survey

GAF entered into a Consent Order and Agreement (COA) with PADEP (then PADER) dated June 26, 1992. The COA required GAF to investigate allegations that drums containing various solid waste, including flux waste and PCBs, were buried under the new warehouse and parking lot, new boiler house and parking lot, and in abandoned surface impoundments on the site. To do this GAF retained Andrew Martin Associates in 1993 to conduct a geophysical survey. The geophysical survey used ground penetrating radar (GPR), electromagnetic (EM) detectors and a magnetic survey in an attempt to detect the alleged buried drums. Anomalies were detected in the northcentral portion of the Warehouse (Building 1), within the former lagoon area, in several known underground utility locations and west of the Boiler House. The Geophysical Report indicates that Andrew Martin and Associates did not believe any of the anomalies were consistent with buried drums. The anomaly in the Warehouse was believed to be a subsurface void or root ball; anomalies in the former lagoon area were believed to be construction debris; and the anomaly west of the boiler house was believed to be moisture in the soil.

Correspondence in the Geophysical Report indicated that PADEP did not have confidence in the utilization of only GPR in certain areas. Andrew Martin and Associates responded that due to the material present (rebar reinforced concrete), that the EM and magnetic surveys could not be used. Andrew Martin Associates indicated that the only way to be assured that drums were not present was to implement a test pit program in the area. A memo found during the PADEP file review conducted by MACTEC, authored by Joel Fair of PADEP, outlined further concerns and stated that

he did not believe the geophysical investigation could "conclusively confirm or exclude the presence of buried drums". He went on to say that "while I would like to have additional information in order to make a conclusive statement, I am currently not aware of other methods to detect the drums without causing a large amount of disturbance to the current site."

4.5.4 Geotechnical Borings – Warehouse Building

Attached to the Geophysical Report were five boring logs from geotechnical borings drilled for the Warehouse (Building 1) at the north end of the Site. The boring logs indicated that shale bedrock was present between approximately 19.5 and 22 feet below ground surface (ft-bgs). The majority of the material above bedrock to the ground surface was fill consisting of shingles, wood fragments, and other debris mixed with sand. A 10 foot bedrock core was collected from Boring B-3 at between 20.25 ft-bgs and 30.25 ft-bgs and consisted entirely of shale. The exact elevations of the fill and bedrock were not readily available because the borings utilized an arbitrary datum.

4.5.5 Phase I ESA

A Phase I ESA was conducted for GAF by Environ under the 2000 ASTM Standard in April of 2003. The 2003 Phase I ESA noted a number of potential RECs in various areas of the Plant. These included:

- Numerous ASTs containing tar, asphalt, flux oil, and fuel oil;
- The outdoor storage of barrels of tar and asphalt;
- Loading dock operations consisting of loading/unloading of oil and ore;
- The former (1970s until 1983) presence of two unlined surface impoundments on the Site, used for settling sand from wastewater;
- The potential presence of buried drums on the Site;
- The presence of fill material throughout the northern portion of the Site;
- The former loading and unloading of rail cars containing petroleum products and other materials;
- The former presence of four USTs on-Site;
- Oil/tar staining in the plant buildings and on the outdoor ground surfaces;
- Asphalt leaking from the 500,000 gallon AST;
- Debris, empty drums wood pallets and trash stored in unpaved areas near Presque Isle Bay; and
- Drums marked "Hazardous Waste" were stored in the Boiler House.

The report noted that the on-Site USTs included one 4,500 gallon tank containing Varonolene, which is a trade name for mineral spirits, one 4,000-gallon tank containing fuel oil, one 500-gallon

tank containing oil from the high efficiency air filters and one 500-gallon tank containing gasoline. The two larger tanks were reportedly closed in place in 1975 and the two 500-gallon tanks were reportedly closed in 1988. The location of the USTs is not known and they do not appear to have been registered; although registration was not required until 1989.

The report also noted various housekeeping issues and staining was present in numerous areas within the buildings and in the tank farms. The 2003 Phase I ESA recommended performing a Phase II ESA.

4.5.6 Lead Paint Report

A lead-based paint inventory was conducted by Microbac Laboratories, Inc. in 2007. The report indicated that based on the non-destructive X-ray Diffraction testing, lead based paints are present in areas of the plant. Given the age of the plant and the various paints, lead-based paints would be expected to be present. Lead-based paints could potentially require precautions to be taken if demolition were to occur and could limit the use of the demolition debris as fill.

4.5.7 Asbestos Inspection Report

An asbestos inspection of the Site was performed by Microbac Laboratories, Inc. in 2007. The findings of the report indicated that asbestos containing building materials (ACBM) were present in various materials on the Site. These included pipe insulation, roofing felts, tar paper, paper insulation, flashing compound transite board, and galbestos sheeting. Microbac estimated the asbestos liability for the transite, pipe insulation, paper insulation, flashing compound and galbestos sheeting to be $55,500. The costs for removal of the roofing material were not estimated because they may vary by removal method.

4.5.8 Summary Report – Access Road Pre-Excavation Sampling

In 2006, ER&R collected surface soil samples from twelve locations at depths ranging from six inches to 24 inches in preparation for the installation of an access road on the Site. The purpose of the samples was to determine if waste soil generated during excavation could be classified as clean fill. The samples were analyzed for the diesel fuel, waste oil and fuel oil short list of compounds including five volatile organic compounds (VOCs), nine semivolatile organic compounds (SVOCs)

and lead. The sample results indicated that SVOCs exceeded the clean fill standards in five of the 12 sample locations including SB-1, SB-2, SB-4, SB-5 and SB-8. These samples were located south of the Boiler House and the 500,000-gallon tar tank (SB-1, 2, 4 and 5) and on the west side of the Shear Shop (SB-8). Lead and VOCs were found to meet the clean fill standards in all samples analyzed. ER&R concluded that the soil could not be used for clean fill due to the exceedance of the clean fill standards for three PAH compounds including benzo(a)anthracene, benzo(b)flouranthene, and benzo(a)pyrene. The locations of these samples are shown on Figure 3.

4.5.9 Preliminary Soil and Groundwater Investigation Report

In February of 2008, O'Brien & Gere issued a preliminary report of soil and groundwater investigation performed on the Site. The report acknowledged the findings of the Phase I ESA; however, many of the potential issues identified in the Phase I were not addressed in the investigation. The investigation focused primarily on subsurface soil and groundwater in the plant. During the investigation, eight borings were drilled on the Site, six of which were completed as monitoring wells. Figure 3 shows the locations of the wells and borings drilled by O'Brien and Gere. The Preliminary Investigation Report indicates that bedrock was encountered between 14 and 28 ft-bgs, with the shallower bedrock present on the southern portion of the Site and deepening to the north. The groundwater occurs between 4.5 and 10.5 ft-bgs with an apparent northwesterly flow direction.

Subsurface soil samples were collected from the borings ranging from 5.5 ft-bgs to 27.5 ft-bgs and were analyzed for VOCs, SVOCs and metals. Surface soil samples were not collected during the investigation. Soil sample results from borings MW-1, MW-3 and SB-8, the shallow samples collected from MW-6 (8.0-8.5 ft-bgs) and SB-7 (and the deep sample collected from MW-4 (12-12.5 ft-bgs) had no exceedences of the Act 2 nonresidential subsurface soil MSCs. Both soil samples from MW-2 and MW-5, the shallower sample from MW-4 (8.0-8.5 ft-bgs), and the deeper samples from MW-6 (13-13.5 ft-bgs) and SB-7 (27-27.5 ft-bgs) exceeded the Act 2 MSC for at least one of the PAHs in each sample. PAHs that exceeded the standard included benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene and naphthalene. It should be noted that the deeper soil samples collected from MW-3, MW-4, MW-6, SB-7, SB-8 and possibly MW-5 were collected from beneath the surface of the water table.

One groundwater sample was collected from each of the wells and analyzed for VOCs, SVOCs and dissolved metals. Monitoring wells MW-1 and MW-3 had concentrations of iron and manganese that exceeded the Act 2 nonresidential groundwater MSCs, but no organics were detected in these wells above the Act 2 nonresidential MSC. Based on the reported groundwater flow direction, MW-1 is the most upgradient well and MW-3 is the most downgradient. Wells MW-2, MW-4, MW-5 and MW-6 had concentrations of PAHs exceeding the Act 2 nonresidential groundwater MSCs. It should be noted that some of the observed concentrations of PAHs exceed their respective solubility limits, indicating the potential presence of separate phase liquid (SPL). MW-5 and MW-6 both contained benzene in concentrations exceeding the nonresidential groundwater MSC. The purge logs noted that the pump used in MW-5 had black staining on it when it was removed from the well, indicating the potential presence of SPL.

5.0 SITE RECONNAISSANCE

The Site reconnaissance was performed on September 2, 2008. Mr. Robert E. Crowley and Mr. Pat Pontoriero of MACTEC and Mr. Mark Shaw of MacDonald Illig were present for the Site tour. Mr. Ken Point of GAF was present to give the Site tour, and answer questions regarding Site operations.

5.1 METHODOLOGY AND LIMITING CONDITIONS

The Site reconnaissance was performed as a walking tour of the interior and exterior of the Site buildings. Photographic logs of the Site conditions were permitted during the reconnaissance. The photographic log is provided in Appendix G. Limiting conditions on the Site at the time of the reconnaissance included the fact that the majority of the Site is concrete-covered, precluding inspection of the surface soil.

5.2 GENERAL SITE SETTING

The Site is located on Presque Isle Bay with frontage on the bay on the northern and western sides. To the south of the Site is the downtown area of the City of Erie. The bayfront in this area was historically industrial in nature with ports and piers for shipping on the Great Lakes. Many of the piers contained rail lines for transporting goods to/from ships. Through time, many of the bayfront properties have been extended into the bay by placing fill on the northern margins. In recent years, the bayfront has been transformed from primarily heavy industry to tourist and business attractions. On the western portion of the bayfront is condominiums and marinas, and to the east of the Site is the Erie Bayfront Convention Center, tourist attractions and museums.

5.3 EXTERIOR OBSERVATIONS

The exterior areas of the Site are mostly concrete covered or paved, with the exception of the area immediately north of the Warehouse Building (Building 1). This area is mostly vegetated with barren areas containing shingle tabs on the surface. Four railroad spurs enter the Site on the southwest corner and run to areas between the process buildings (three spurs) and to the west side of the Shear Shop. Loading docks are present along the foot of Sassafras Street and on the east side of the Warehouse. Several tank farms are present on the north and east sides of the processing

area and north of the Boiler House (Building 13). For the purposes of this report, the Site has been separated into five outdoor areas. These include: 1) the area to the east of the processing area; 2) the tank farm area north of the processing area; 3) the open, concrete covered area between the tank farm and the Warehouse; 4) the western bay shoreline; and 5) the area to the east and north of the Warehouse. Observations in each of these areas are provided below.

5.3.1 Outdoor Area 1

Outdoor Area 1 is located to the east of the former processing area and contains loading docks and the distillation tank farm. The loading dock area is an open, concrete-covered area. At one time, this area was used for the storage of tar in barrels. Currently, MW-1 is located on the southeast corner of this area. Minor staining was present in this portion of the area.

The distillation tank farm consists of a series of outdoor ASTs located at the northern end of the area. This area was used to heat the raw tar product, which had a melting point of approximately 170º F to drive off the volatile components. The volatile components were purged from the oil with air and distilled in the tanks. The distillate was historically collected as a waste and sent off-site for disposal. More recently, the distillate was collected and sold as a usable product. This area is concrete covered and contains heavy staining as well as accumulations of tar in various places. Drainage in the area is to a series of storm water collection grates that reportedly discharge to an oil/water separator located in the southwest corner of the distillation area. Reportedly, these grates historically discharged directly to the unnamed stream along the east side of the Site.

5.3.2 Outdoor Area 2

Outdoor Area 2 includes the tank farm area to the north of the former processing buildings to the north end of the Shear Shop and east to the Site fence. This area contains numerous raw product ASTs including tar tanks, sand and slate silos, and the former fuel oil tank. The Shear Shop, the Main Storage Building (Building 45), the sand rotary kiln (Building 49), the transformer building and the Boiler House (Building 13) lie within this area.

The majority of Outdoor Area 2 is concrete covered. Areas near the tar tanks and outside of the north side of the processing area buildings are covered with tar. Apparently, as tar accumulated from leaks in the area, it was allowed to solidify and workers would shovel it into drums. A single

outdoor transformer is located between Building 49 and the transformer building. An oil/water separator is located between the transformer building and the Boiler House, and another is located along the eastern fence line. Various sand and crushed rock materials are present in and around the sand silos and sand kiln.

5.3.3 Outdoor Area 3

Outdoor Area 3 consists of the area between the Shear Shop and the Warehouse (Building 1), east to the Site fence line. This area is entirely covered in concrete. The area contains several concrete bunkers that were used for storage and management of sand and rock. Very little staining is evident in this area with the exception of an area on the eastern side that contains several pools of tar on the surface of the concrete. The tar was in several depressions and multiple layers were evident. There is the potential that the tar is seeping to the surface from subsurface sources; although the Site contact felt the tar was spilled on the surface.

5.3.4 Outdoor Area 4

Outdoor Area 4 consists of the western shoreline along Presque Isle Bay. The western bay shoreline is elevated approximately 10 feet above the bay. A fence runs along the top of the slope in the entire area. The shoreline in this area is vegetated with medium-sized trees, primarily cottonwoods and some smaller species. No visible staining or sheen was noted on the shoreline or on the water in the area.

5.3.5 Outdoor Area 5

Outdoor Area 5 consists of the former employee parking area along the east side of the Site, the loading dock area on the east side of the Warehouse Building and the area along the bay shoreline to the north of the Warehouse. The former parking lot and loading dock areas are entirely covered in concrete. The loading docks consist of a lowered pit area designed to keep the truck trailers at the height of the Warehouse floor. The margins of the Site to the north and east are vegetated with cottonwood trees and ground cover. No staining was evident in the parking or loading dock areas. The area to the north of the warehouse is mostly vegetated with some bare areas. The ground surface in the bare areas is covered with “fingers” cut out of the shingles in the residential roofing line. The shoreline area on the north side of the Site is covered with pavement and concrete that

was apparently left over from paving projects on the Site. No areas of staining were noted during the Site reconnaissance.

5.3.6 Surface Staining and/or Stressed Vegetation

As discussed in the previous sections, various areas of surface staining and/or tar are present in the exterior areas including the former distillation area, along the northern wall of the processing area, near the tar tanks, and in Outdoor Area 3, as well as other areas of the Site. Staining is relatively heavy in the processing and tank areas with thick accumulations of tar present. In areas where vegetation is present, some bare areas were noted that appeared to be due to the lack of soil and/or the presence of shingle waste.

5.3.7 Drums, Aboveground Storage Tanks and Containers

Drums were present on the Site at the time of the Site Reconnaissance. The drums were reportedly used to contain purge water from the Site monitoring wells. Each well had up to three drums staged beside it. The drums were in poor condition and had apparently frozen as the tops and bottoms were bulged.

Numerous ASTs are present on the Site. The list of ASTs and their contents were provided in Section 2.4.

5.3.8 Evidence of Waste Disposal

Wastes were apparently disposed on the Site in the form of shingles and shingle fingers from the residential shingle line. These materials were present on the ground surface in the northern portion of the Site as well as in the subsurface soil as noted on the available boring logs. In addition, the boring logs noted wood and tires in some of the subsurface locations on the Site. The tar noted on the surface in Outdoor Area 3 could also potentially be the result of waste disposal.

5.3.9 Fill Material

According to historical records, boring logs and the soil survey, the majority of the Site, with the exception of the southern area, is constructed on fill material. The fill material is a mixture of

shingles/roofing products and imported fill. According to the boring logs, the fill material is in excess of 20 feet thick in some areas of the Site, indicating that it was placed well below the level of the bay. Historically, it was common for roofing materials, such as those produced at the plant, to contain asbestos in the felt paper matrix. Therefore, there is the potential for the shingle scraps that make up a large portion of the fill to contain asbestos. If the shingle scraps contain asbestos, they may not directly be regulated; however, any excavation and subsequent disposal of these materials may be subject to OSHA regulations for worker protection and to solid waste regulations for disposal.

5.3.10 Transformers

Transformers are located in the central portion of the Site in both outdoor locations (one transformer) and in a transformer building located west of the Boiler House (Building 13). One transformer is known to have contained PCB dielectric fluid. The PCB dielectric fluid was changed out to mineral oil in 1991 and the PCB content of the transformer is currently less than 1 milligram per kilogram. Reportedly, none of the other transformers contained PCB dielectric fluid.

5.3.11 Vents, Air Stacks and Odors

The plant was not operating at the time of the Site reconnaissance; and no odors were noted. The Site process contained a number of air emissions stacks and ventilation systems. The PADEP records indicate that the Site had an air emissions permit for a high temperature organics destruction system on the distillation process equipment. The plant had recently been notified of violations related to a lower than permitted temperature in the destruction unit among other issues. It is not clear if these issues were resolved prior to closure of the plant. The plant also had permits to operate the boilers and for the rotary kiln, which was used to dry sand.

5.3.12 Underground Storage Tanks

The Site reportedly had four USTs at one time as discussed in Section 4.5. The USTs included one 4,500-gallon tank containing Varnolene, (mineral spirits), one 4,000-gallon tank containing fuel oil, one 500-gallon tank containing oil from the high efficiency air filters and one 500-gallon tank containing gasoline. The two larger tanks were reportedly closed in place in 1975 and the two 500-gallon tanks were reportedly closed in 1988. The locations of the USTs are not known and they

were reportedly closed prior to enactment of the UST Regulations. The site reconnaissance did not reveal the locations of the USTs, nor did the Site contact have any knowledge of their locations.

5.3.13 Monitoring Wells

Five monitoring wells were present on the Site. The locations of the monitoring wells are shown on Figure 2. The monitoring wells were drilled early in 2008 and sample results and water level information were made available to MACTEC. The results of the monitoring well samples were provided in Section 4.5.

5.4 INTERIOR OBSERVATIONS

On September 2, 2008, MACTEC was permitted to tour the Site with Mr. Ken Point of GAF. Mr. Point guided the walking tour and answered questions regarding the use of each area. The following provides a summary of the observations in the building interiors.

The tour began in Building 4 and proceeded through Buildings 5 and 16 at the southern end of the Site. The buildings were, for the most part, vacant and empty of materials. These buildings were used primarily for storage of raw products. The buildings were constructed of wooden timber beams and trusses with wooden tongue-in-groove pitched roofing. The roofs were covered with tar paper roofing material. The exterior of the buildings was finished with brick, which was painted in some areas. The floors were concrete and the buildings were of the slab-on-grade type. Lighting in the buildings was via mercury vapor lights in the bays and fluorescent light fixtures in office areas. In certain portions of Buildings 4, 5 and 16, the floors were covered with plywood sheeting because the concrete had been damaged. The outdoor area between the southern and central buildings contained one of the railroad spurs, a portion of which had been covered with concrete.

After completing the tour of the southern buildings, Buildings 7, 19 and the Machine Shop were visited next. The Machine Shop is located on the east side of Building 7. In the machine shop, several pieces of maintenance machinery were still present, although some had been removed. Buildings 7 and 19 were both storage areas for raw products used in the process. In several locations in the area, the containment pads for former parts washers were present. Oil was still present in some of the containment pads. Oil staining was noted in Building 7. The buildings in this area were of similar construction to that of the southern buildings. To the south of Building 7

is Building 7A, which was used for storage. Building 7A, which is constructed of steel frame and trusses, is obviously of newer construction than the other buildings in the area. Building 6 is located east of Building 7 and served as a compressor room. Building 6A adjoins Building 6 and is a lunch/break room.

South of Building 7A is Building 9, which contains Production Line 2 that made rolled commercial/industrial roofing papers. The raw paper was spooled off of the east end and fed west through the mill. At the west end of the mill, the finished product was rolled and sent to the warehouse to await shipment to customers.

South of Building 9 is building 21, which contains Production Line 1. The portion of Line 1 in Building 21 is identical to that in Building 9. In Buildings 37, west of 21 and 10, west of 9 is a finishing unit for the residential shingle roofing line. Roofing material leaving Line 1 was passed through a die cutting operation, which cut the roofing material into shingle shapes. Trimmings such as the shingle "fingers" were collected and sent off-Site for disposal. At times, this material was used for road driveway sub-base. The finished shingles then passed through a packaging unit where they were packaged for shipment and sale to consumers. Building 10 contains the only known basement on the Site. The basement, accessed by an out of service elevator and an access port with a ladder, was not inspected because of safety concerns. West of Building 10 is Building 20, which was used for storage. All of the buildings in this area were of the timber beam and truss type, similar to the southern buildings.

Buildings 9, 21, 37 and 10 were coated throughout with rock dust, talc and solidified tar. Various pits and rolling equipment exist throughout the area. Buildings 9 and 21 have a high ceiling and were ventilated to remove airborne dust generated in the sand and talc application portions of the process.

After the production lines, the tour moved through the AST areas, the rock/sand silo areas, the distillation area, and into the Transformer and Boiler House areas. The Transformer Building (not numbered) contained three large, industrial transformers. A fourth transformer was located outside to the northwest of the Transformer Building. No staining was noted within the transformer building; although the tour did not proceed through the building due to the potential for safety concerns. The Boiler House (Building 13) was inspected next. Inside the Boiler House were gas-

fired boilers that supplied steam to the operation. The boilers could be configured to burn fuel oil in emergency conditions. The fuel oil was stored in an AST located north of the Boiler House.

Upon completion of the Boiler House, Buildings 40 and 8 were inspected. Both buildings contain large boiler type tanks used to distill low melting point tar into the high melting point tar used in the process. The boilers in Building 40 operated on natural gas. Those in building 8 had been out of service for a number of years; however, they could be fired via wood or coal. The boilers were set in brick saddles with brick structure surrounding the steel tanks. Access to the boilers in Building 40 was via a staircase and walkway above the boilers in Building 8. In the structure above the boilers, it was noted that tar had accumulated on most all of the building structural components. Both of the boiler buildings had steel structural components with brick exteriors.

From the distillation operation, the tour proceeded through Outdoor Areas 2 and 3 toward the Warehouse Building (Building 1) at the northern end of the Site. Building 1 was constructed in 1990 and was used as a warehouse for the finished products prior to shipment to customers. Building 1 is a steel frame structure with fabricated steel sheet walls and roof. The floor is a concrete slab-on-grade. The building was empty at the time of the Site reconnaissance and no staining or other evidence of potential RECs was evident via visual inspection.

6.0 INTERVIEWS

The only person that was cognizant of Site activities and was available for interview was Ken Point of GAF. Mr. Point is currently the only GAF employee at the Site. In addition to the interview, MACTEC reviewed the available files at both the PADEP and the Erie County Health Department (ECHD). This section provides the findings of the interviews and file reviews.

6.1 SITE OWNER AND OPERATOR

Mr. Point answered questions regarding the Site during the Site reconnaissance. The majority of the information that Mr. Point provided was summarized in the preceding Site Reconnaissance section. Mr. Point was not fully aware of all Site operations and had worked at the Site for less than 20 years. Mr. Point provided information on the former use of each area of the Site as well as some historical information regarding the former use of structures such as the out-of use boilers in the distillation area. Mr. Point had little knowledge of environmental permits, waste management and historic structures such as the former lagoons and the former USTs.

6.2 SITE MANAGER

Mr. Point acts as the Site Manager.

6.3 OCCUPANTS

Mr. Point is currently the only person present on the Site.

6.4 LOCAL GOVERNMENT OFFICIALS

PADEP files were reviewed on September 11, 2008. The ECHD files were reviewed on May 11, 2007. The ECHD files contained information on and photographs of historic spills of oil to the ground surface, to the unnamed stream, and to Presque Isle Bay. The PPC Plan for the Site dated May 9, 1983 was obtained from the ECHD files. In addition to the PPC Plan, the ECHD had files related to two septic systems present on the Site, a number of oil spills, the on-Site water wells, sampling of sludge for asbestos, and cleaning of equipment using Number 2 fuel oil and kerosene. Other files and letters in the ECHD office indicated ongoing issues related to discharge of oily

products from the Site to the bay. Photographs of some discharges were present in the files and have been included in Appendix F.

No information was available on the location or use of the septic systems. It is possible that these files relate to the two former lagoons that were present on the Site.

The on-Site water well reportedly pumped approximately 100,000 gallons of water per day. No information was available on the depth or construction of the well; however, the water was apparently used for production purposes. The location of the well on the Site was not evident during the Site reconnaissance.

A Microbac Laboratories, Inc. report dated April 19, 1983 summarized results of sampling and analysis of sludge from one of the site outfalls for asbestos. Results indicated that "both the water phase and the sludge (mostly sand) phase contained fibers that may be asbestos fibers." Although not conclusive, the author of the report stated that "it is not possible, under phase-contrast lighting to positively identify them as asbestos although my experience with fiber counts indicates that they are likely to be asbestos." Microbac stated that electron microscopy would be required to positively identify asbestos fibers. No information was found it the files to determine whether or not electron microscopy was ever completed.

6.5 OTHERS

Several newspaper articles were identified during the ESA that are pertinent to the Site. A newspaper article in the ECHD files that ran in the Erie Times News on February 16, 1991 indicates that an oil spill was allegedly allowed to flow through discharge pipes into Presque Isle Bay. The article further indicates that GAF did not report the release to the PADEP.

A newspaper article in the Erie Times News on September 08, 2008 indicates that GAF has notified the PADEP of their intent to investigate and remediate the Site. Review of the PADEP files revealed only an email dated August 26, 2008 from Eric Gustafson of the PADEP to two individuals (believed to be from GAF) indicating that the Notice of Intent to Remediate (NIR) was not complete due to the lack of proof of publication in a local newspaper. The email indicates that the NIR will have to be deemed administratively incomplete and returned to GAF if the proof of publication is not provided.

7.0 FINDINGS

This section provides the findings of the Phase I ESA, including issues considered to be RECs. RECs were identified during the Site reconnaissance, in the review of the files provided by GAF, and in the files reviewed at the PADEP and ECHD. A summary of the RECs follows.

7.1 ON-SITE RECOGNIZED ENVIRONMENTAL CONDITIONS

A number of current on-Site RECs related to tar were identified as follows: The accumulation of tar near several of the ASTs and near piping that conveyed tar to the process constitutes a REC. Additionally, accumulations of tar-like material on building structural components in the production line buildings and the distillation area boiler buildings are considered a REC. The accumulation of tar around the bottoms of ASTs and near the oil/water separator in the distillation area is considered a REC. Finally, the tar observed on the surface of the concrete in the vicinity of the former lagoons may be indicative of a subsurface tar source and is considered a REC.

A starting compensator located in Building 21 contained three gallons of Pyranol, which contained PCBs. The fate of this starting compensator was not documented and is unclear. Therefore, the starting compensator is considered to be a REC.

Two former lagoons were present in the area to the south of the Warehouse Building (Building 1). Although documentation suggests water and sand were the materials managed in these lagoons, the amount and characteristics of the wastes managed is not clear. Additionally, the closure methods and material used as backfill was not documented. As a result of the use of this area and the uncertainty with regard to the materials that were managed in the lagoons, the lagoons are considered a REC.

Four USTs were reportedly present within the facility. Documentation suggests the USTs may have been closed in place; however, the closures occurred prior to promulgation of the UST Regulations and there is no documentation of confirmatory sampling or the condition of the USTs. Given that no information was available indicating whether or not the USTs leaked, the former use and lack of closure information regarding the USTs is considered to be a REC.

Surface staining is present in numerous areas of the facility including, but not limited to: 1) throughout the distillation area; 2) in the machine shop; 3) in former locations of the degreasers; 4) in Building 10; 5) in the small building at the northeast corner of Building 40; 6) the ground surface near tank 4 or 5; and 7) in Building 7A. The numerous areas of surface staining are considered to be RECs.

The fill materials used on the Site appear to contain a large amount of scraps derived from the production of shingles. Because these materials contain tar, and some of the older shingles likely contained asbestos, the fill materials containing shingle scraps are considered to be a REC.

A preliminary investigation of soil and groundwater on the Site by GAF revealed the presence of certain PAHs, VOCs and metals above their respective Act 2 nonresidential standards. The presence of these constituents in Site media above a standard constitutes a REC.

In January 1991, Presque Isle Bay was designated as the 43rd Great Lakes Area of Concern (AoC) by the U.S. Department of State in response to concerns raised by local citizens. It is the only AoC listed as a result of citizen petition. Through the Remedial Action Plan (RAP) process, PADEP and the Presque Isle Bay Public Advisory Committee identified two beneficial uses as being impaired: Fish Tumors or Other Deformities and Restrictions on Dredging Activities. Based upon the impaired uses evaluation, the pollutants of concern identified in the sediment were heavy metals and polycyclic aromatic hydrocarbons (PAHs). Fish impairments, if environmentally caused, were believed to be related to the sediment contamination. Historically, a number of releases of petroleum products (which includes PAHs) occurred to the unnamed stream on the east side of the Site and to the bay. These releases have not been evaluated to determine if residual impacts exist. PAHs are also present in significant concentration in groundwater, some of which likely discharges to the Bay. Given the duration of the plant's existence and the fact that documented releases have occurred, the sediment in both the unnamed stream and the bay is considered to be a REC.

7.2 HISTORIC RECOGNIZED ENVIRONMENTAL CONDITIONS

One historic recognized environmental condition exists in the form of the former PCB transformer. This issue was closed in 1991 with the changeout of the dielectric fluid and subsequent testing indicating PCB concentrations in the oil were less than 1 mg/kg. No other RECs were considered

historic RECs because they have not been investigated and closed under any available environmental programs.

7.3 POTENTIAL ASBESTOS CONTAINING MATERIALS

An inspection of the Site for asbestos containing materials (ACM) indicates that ACM is present in the facility in a number of building materials. Many of these materials will need to be removed prior to demolition of the Site buildings. Additionally, as discussed above, the potential exists for asbestos to be present in the shingles used in the fill in the northern portion of the Site. Therefore, any excavation of these materials would require proper worker protection as well as proper disposal techniques.

Based on sludge sampling conducted by Microbac Laboratories in 1983, asbestos fibers may also have been present in sludge and water that discharged to the bay through outfalls. Based on MACTEC's experience with other shingle manufacturing facilities, asbestos in building dust may also be a potential issue.

7.4 OFF-SITE RECOGNIZED ENVIRONMENTAL CONDITIONS

Two former manufactured gas plants (MGP) operated outside of southeast corner of Site. MGP sites often have lingering environmental issued related to tar and other oils in soil and groundwater. Given that these facilities were immediately upgradient of the Site, it is possible that the associated constituents could have migrated onto the Site from the former MGP Plants. Therefore, the off-Site MGP planes are considered to be a REC. No other off-Site RECs were identified in the vicinity of the Site.

7.5 DE MINIMIS CONDITIONS

Conditions on the Site that are considered *de minimis* include smaller areas of staining, remaining municipal trash type wastes, remnants of roofing sands, scrap metal, etc. These conditions are not expected to contribute significantly to ant environmental issues present of the Site.

7.6 DATA GAPS

The lack of historic aerial photographs for the Site is considered a data gap. Aerial photographs could potentially identify the locations and history of the on-Site lagoons as well as the progression of the expansion of the property northward into the bay.

The Site contact lacked specific knowledge of some of the potential Site issues. Issues related to hazardous wastes generated, contents and disposal of the shingle scraps, former USTs, and historical environmental issues could not definitively be answered. This lack of Site knowledge on the part of the person available for interview is considered a data gap.

8.0 OPINIONS

It is the opinion of MACTEC that RECs exist on the Site, which could result in significant environmental liabilities and a Phase II investigation is warranted. The specific RECs are presented in Section 7.0. Assuming the waste shingles would be allowed to remain on the Site, soil and groundwater would have to meet one of the available Act 2 standards in order to receive regulatory closure of the issues. The existence of the shingles as a major component of the fill could potentially complicate a closure under Act 2 since the Act 2 soil standards are only applicable to soil or soil-like material as defined in the regulations, and not to waste. In order to obtain an Act 2 closure for non-soil materials, additional laboratory analytical work, beyond that normally necessary, may need to be performed. Additionally, there is the potential that the shingle wastes are not structurally stable enough to allow buildings construction on portion of the site. Evidence of potential structural instability can be seen in depressions in the concrete in Building 1 and in some small areas of subsidence in the former lagoon area.

9.0 CONCLUSIONS

MACTEC has completed a Phase I ESA of the former GAF Building Materials Inc. facility located at 218 Bayfront Parkway in the City of Erie, Erie County, PA. The Phase I ESA was conducted in general conformance with ASTM Standard Practice E1527-05. The conclusions of the Phase I ESA are that current and historical RECs do exist on the Site as well as one off-Site REC. The on-Site RECs are associated with former USTs, spills, management of tar and other petroleum compounds, the existence of former wastewater lagoons, the unknown fate of a PCB-containing articles, the presence of waste in the fill materials, potential contamination of surface water and sediment, and confirmed contamination of soil and groundwater with petroleum products. The historical REC is related to a transformer that formerly contained approximately 200 gallons of PCB dielectric fluid, which was changed out. The off-Site REC is related to two former MGP sites that were located in close proximity to the Site. In order to evaluate the significance of the RECs, a Phase II investigation of the Site would be necessary.

10.0 DEVIATIONS

No significant deviations from ASTM Standard Practice E1527-05 occurred during the preparation of this Phase I ESA.

11.0 ADDITIONAL SERVICES

No services outside of the scope of a Phase I ESA as defined by ASTM Standard Practice E1527-05 were performed in this Phase I ESA except the documentation of an asbestos inspection, the leaded paint inspection, and reporting the results of the preliminary Site investigation. These materials are generally not available during a Phase I ESA: however, because they were completed and made available to MACTEC, the results were included in this document.

12.0 REFERENCES

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Andrew Martin Associates, 1993, *Geophysical Survey*, Dated August 13, 1993

EDR, 2008, *EDR Radius Map Report with Geocheck for the GAF Site 218 West Bayfront Parkway, Erie, PA 16507*, Dated September 10, 2008

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GAF Building Materials, Inc., 1983, *Preparedness, Prevention and Contingency Plan*, Dated May 9, 1983.

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McCoy, H.J. 1985, "Pennsylvania Ground-Water Resources" in "National Water Summary 1984, Hydrologic Events Selected Water-Quality Trends and Ground-Water Resources," U.S. Geological Survey Water Supply Paper 2275, Washington, D.C.

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O'Brien & Gere, 2008, *Preliminary Soil and Groundwater Investigation Report*, February 6, 2008.

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United States Geological Survey (USGS), 1998. *Groundwater Atlas of the United States*, Robert Renken. HA 730-F.

United States Geological Survey 1996, 7.5 minute topographic quadrangle (Erie North, PA), photorevised 1996.

Urban Engineers, 1987, *Geotechnical Borings – Warehouse Building*, Dated September 1987.

13.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

I declare that, to the best of my professional knowledge and belief, I meet the definition of an Environmental Professional as defined in §312.10 of 40 CFR Part 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Site. I have developed and performed the All Appropriate Inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Robert E. Crowley
Senior Principal Scientist
MACTEC Engineering and Consulting, Inc.

14.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONAL

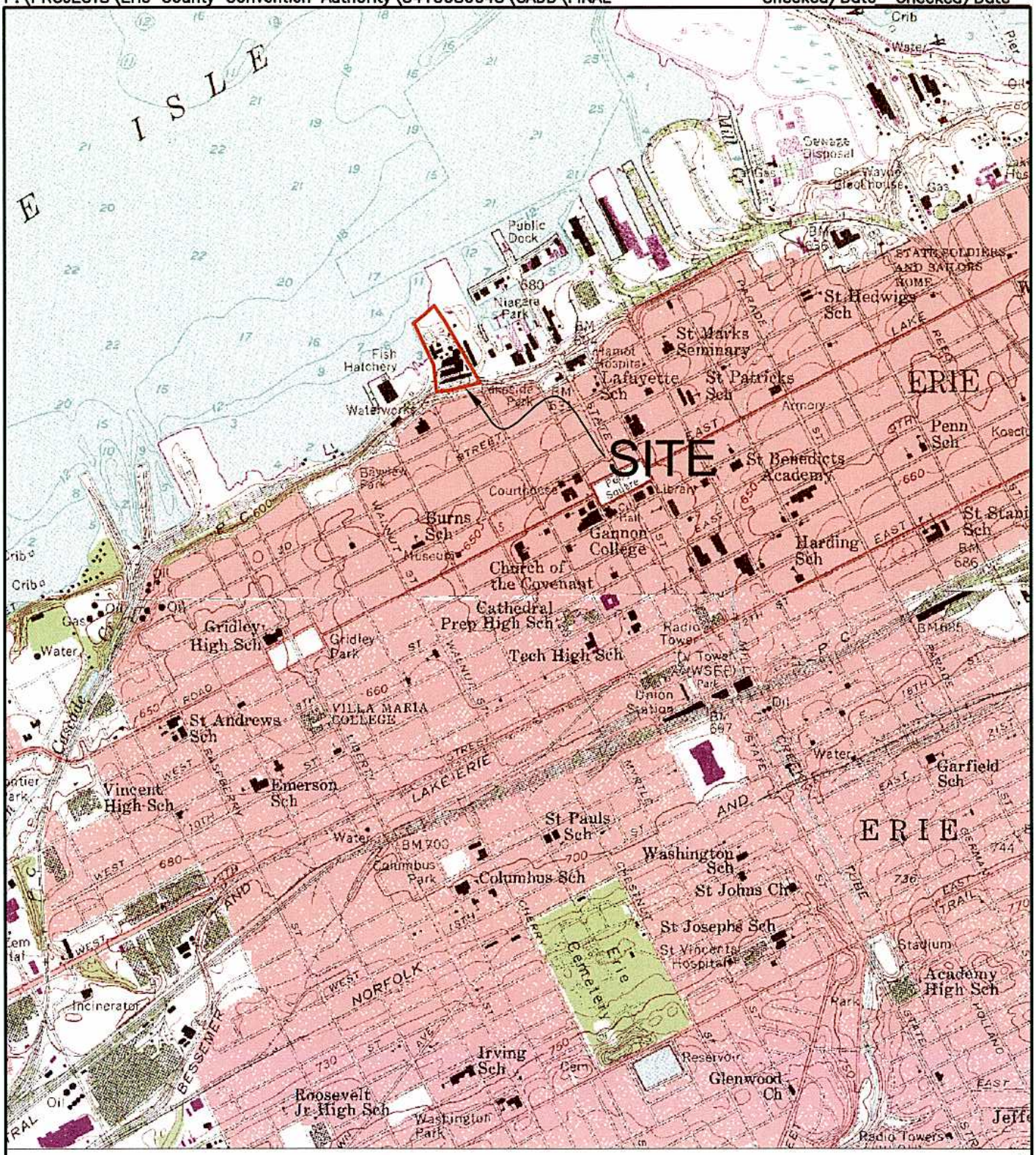
This report was prepared by MACTEC, Inc. under the supervision of Mr. Robert E. Crowley. Mr. Crowley was the principal investigator. A resume for Mr. Crowley is provided in Appendix H.

The findings, recommendations, specifications, and professional opinions presented in this report were prepared in accordance with generally accepted professional practice, and within the scope of the project. There is no other warranty, either express or implied.

FIGURES

P:\PROJECTS\Erie County Convention Authority\3410080643\CADD\FINAL

Prepared/Date NEL/9-4-08
Checked/Date Checked/Date



SCALE 1:24000

1 0.5 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 0.5 0 1 KILOMETER

CONTOUR INTERVAL 20 FEET

ERIE QUADRANGLE

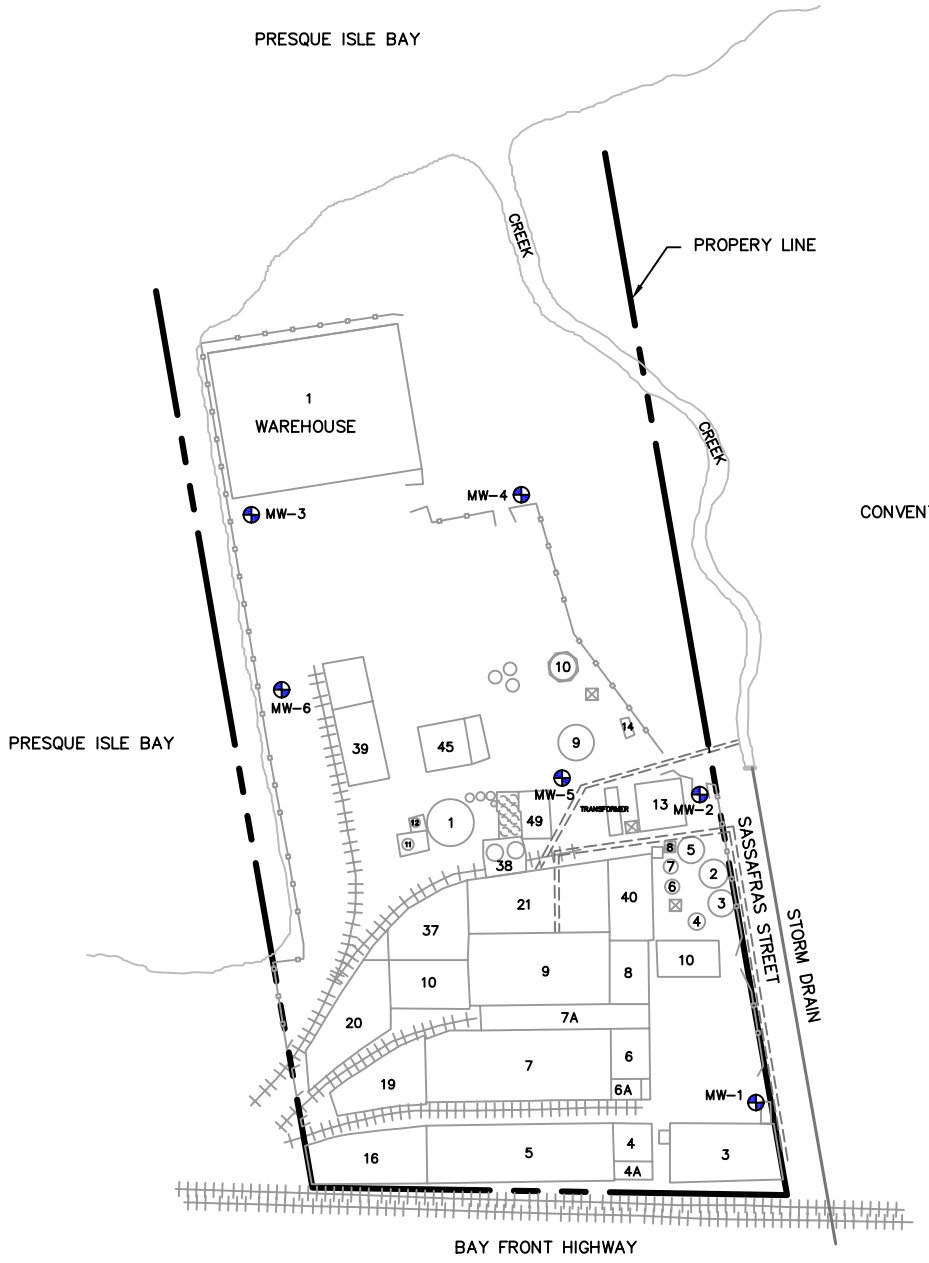
GAF MATERIALS
ERIE, PENNSYLVANIA

MACTEC

SITE LOCATION MAP
Proj: 3410080643
FIGURE 1

P:\PROJECTS\Erie County Convention Authority\3410080643\CADD\FINAL\A02.dwg

PREPARED/DATE NEL/9-9-08
CHECKED/DATE Checked/Date



LEGEND

MONITORING WELL

200 0 200

SCALE: 1"=200'

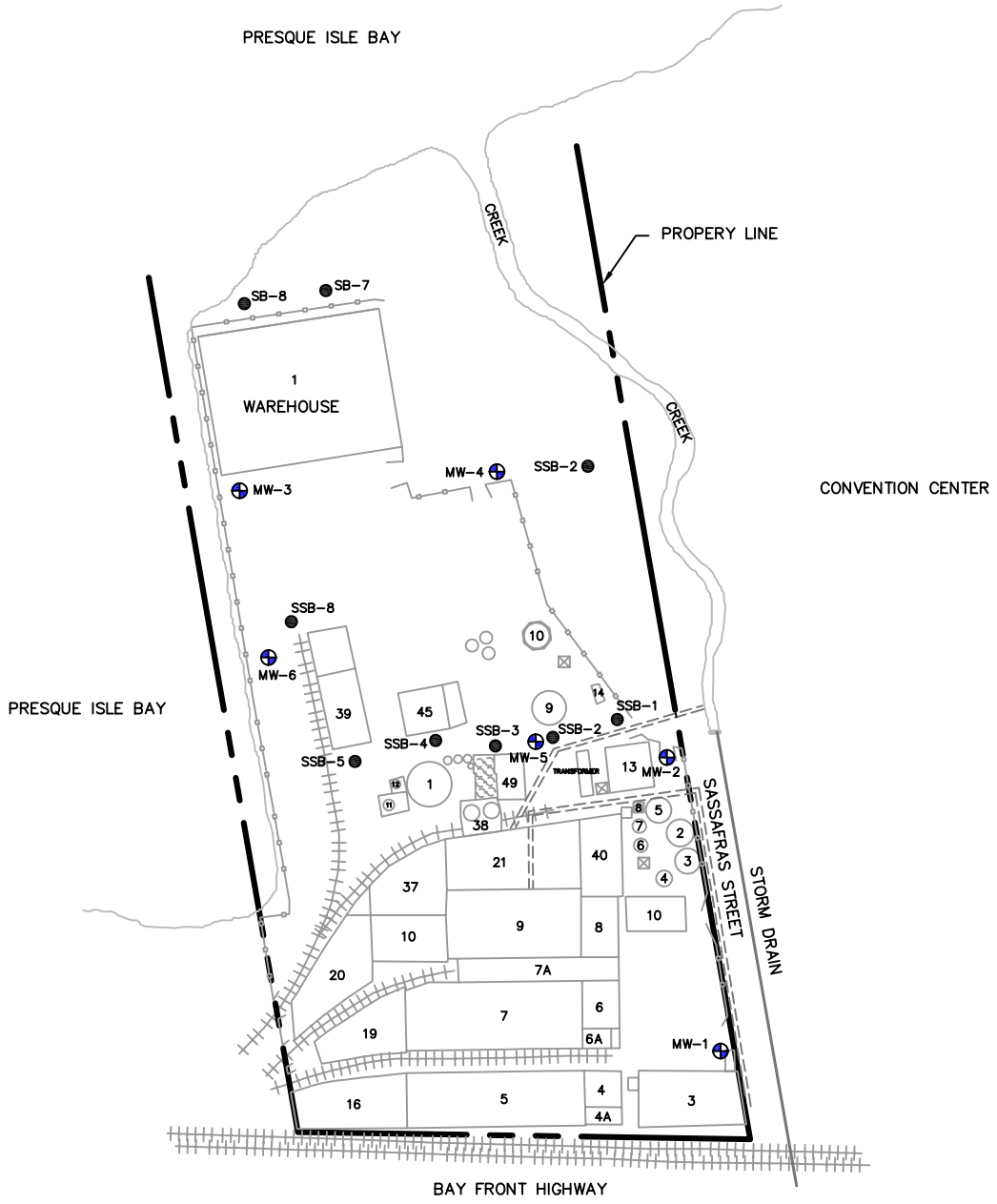
GAF MATERIALS
ERIE, PENNSYLVANIA

MACTEC

SITE PLAN
Proj: 3410080643
FIGURE 2

P:\PROJECTS\Erie County Convention Authority\3410080643\CADD\FINAL\A02.dwg

PREPARED/DATE NEL/9-18-08
CHECKED/DATE Checked/Date



LEGEND

MONITORING WELL

SSB-2

200 0 200

SCALE: 1"=200'

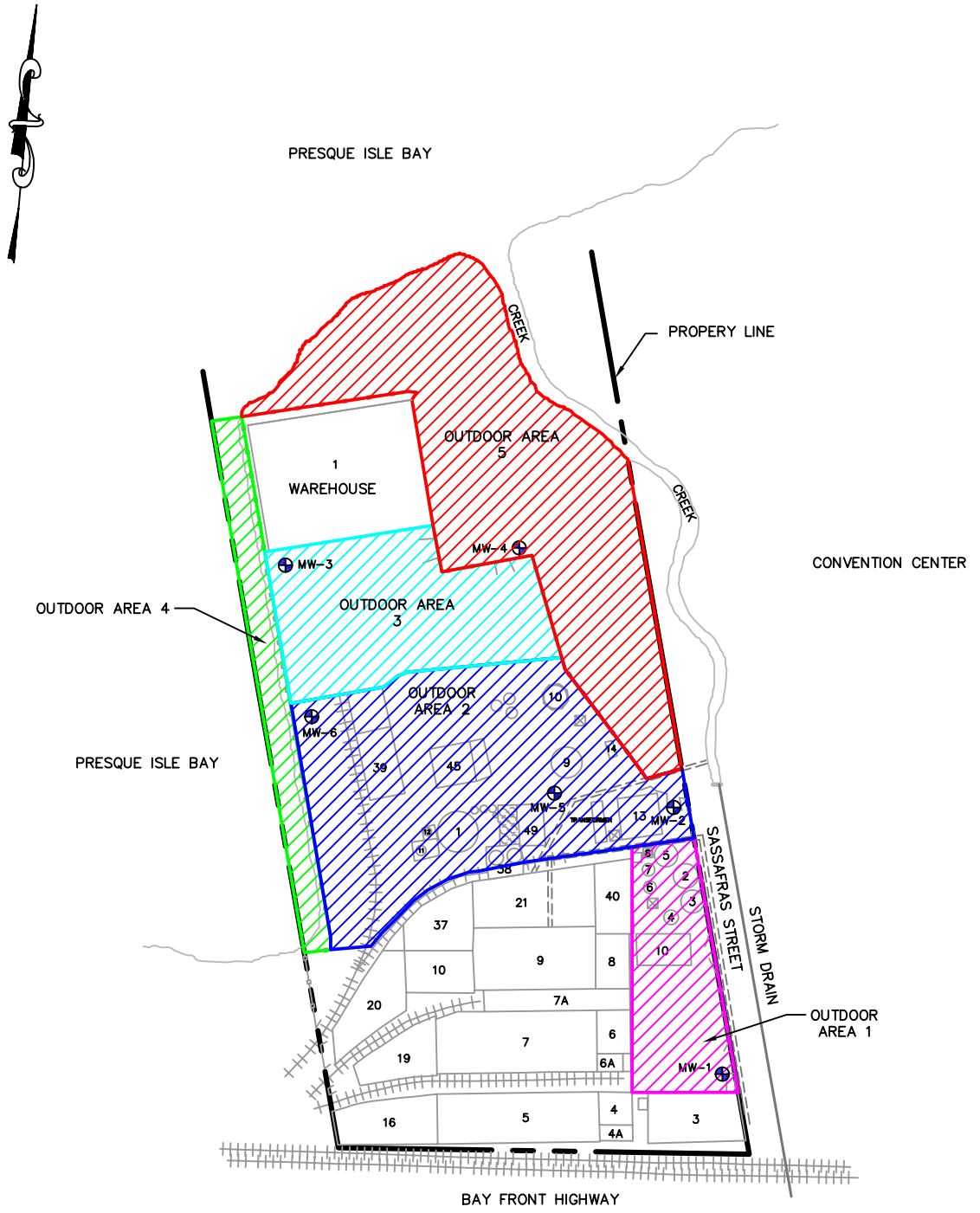
GAF MATERIALS
ERIE, PENNSYLVANIA

MACTEC

BORING LOCATIONS
Proj: 3410080643
FIGURE 3

P:\PROJECTS\Erie County Convention Authority\3410080643\CADD\FINAL\A02.dwg

PREPARED/DATE NEL/9-9-08
CHECKED/DATE Checked/Date



LEGEND

MONITORING WELL

200 0 200

SCALE: 1"=200'

GAF MATERIALS
ERIE, PENNSYLVANIA

MACTEC

OUTDOOR AREAS
Proj: 3410080643
FIGURE 4

APPENDIX A

ERIE COUNTY AUDITOR TAX CARD

Address: 216 BAYFRONT ROAD **Parcel: 17040048010000**

Parcel Profile

Profile

ADDRESS	216 | BAYFRONT | ROAD
STREET STATUS	PAVED
NEIGHBORHOOD / ID	CITY OF ERIE NEIGHBORHOOD OR SPOT / 17C06000
SCHOOL DISTRICT	CITY OF ERIE SCHOOL
ACREAGE	11.3880
CLASSIFICATION	I
LAND USE CODE	HEAVY INDUSTRIAL
LEGAL DESCRIPTION	WATER LOTS 101 TO 115 INCL
TOPO	LEVEL
UTILITY	ALL PUBLIC
ZONING	WATERFRONT COMMERCIAL
DEED BOOK	0326
DEED PAGE	2174

2008 Tax Values

LAND VALUE / TAXABLE	382,500 / 382,500.00
BUILDING VALUE / TAXABLE	744,100 / 735,500.00
TOTAL VALUE / TAXABLE	1,126,600 / 1,118,000.00
CLEAN & GREEN	Inactive
HOMESTEAD STATUS	Inactive
FARMSTEAD STATUS	Inactive
LERTA AMOUNT	8600.00
LERTA EXPIRATION YEAR	2016

Commercial Data

CARD 1	WAREHOUSE
	Business Living Area - 30340
	Year Built - 1903
CARD 2	WAREHOUSE
	Business Living Area - 86829
	Year Built - 1910
CARD 3	WAREHOUSE
	Business Living Area - 30000
	Year Built - 1990

CARD 4	WAREHOUSE
	Business Living Area - 2500
	Year Built - 1980

Other Buildings & Yards

DESCRIPTION	BUILT	WIDTH	LENGTH	AREA	NOTE 1	NOTE 2
FRAME UTILITY SHED	1989	10	16	160		
RESIDENTIAL FINISHED OUTBUILD	2006	12	22	264		
FOUR SIDE CLOSED MTL POLE BLDG	1960	42	130	5460		
FOUR SIDE CLOSED MTL POLE BLDG	1960	70	40	2800		
FOUR SIDE CLOSED MTL POLE BLDG	1970	30	28	840		
FOUR SIDE CLOSED MTL POLE BLDG	1970	20	50	1000		
FRAME UTILITY SHED	1970	10	36	360		
FENCE CHAIN LINK	1960	6	1450	8700		

Sales History

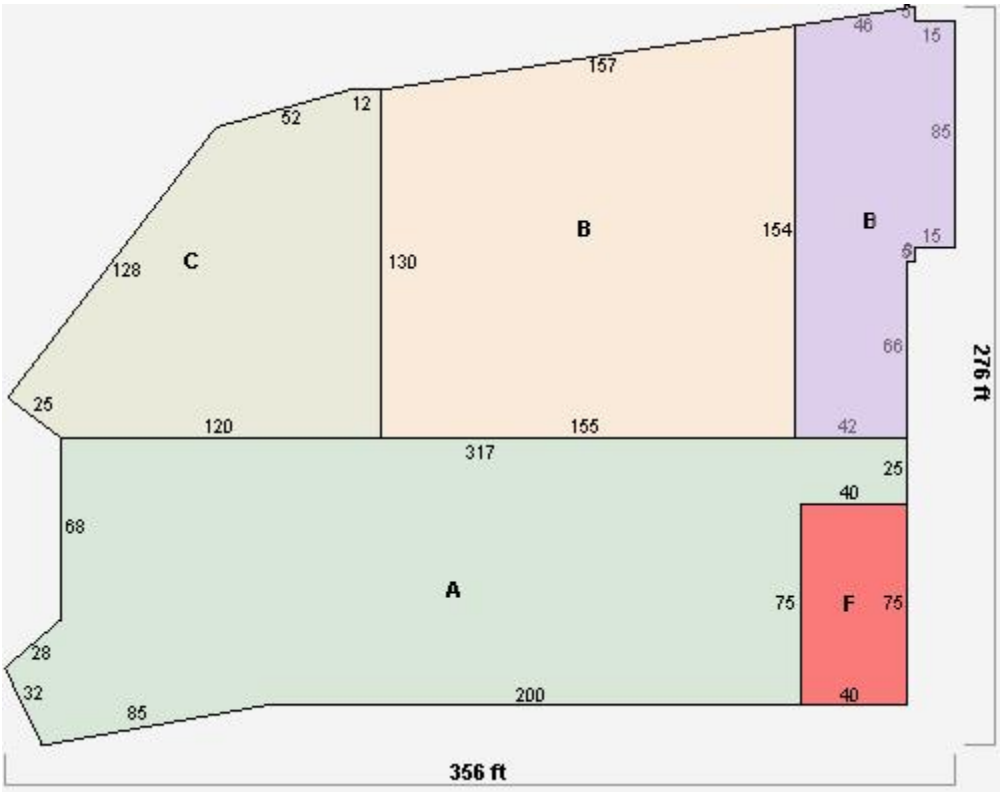
SALE DATE	TYPE	PRICE	BOOK / PAGE	OTHER INFO
3/31/1994		0	0326 / 2174	

Parcel Sketches

Commercial Card 1

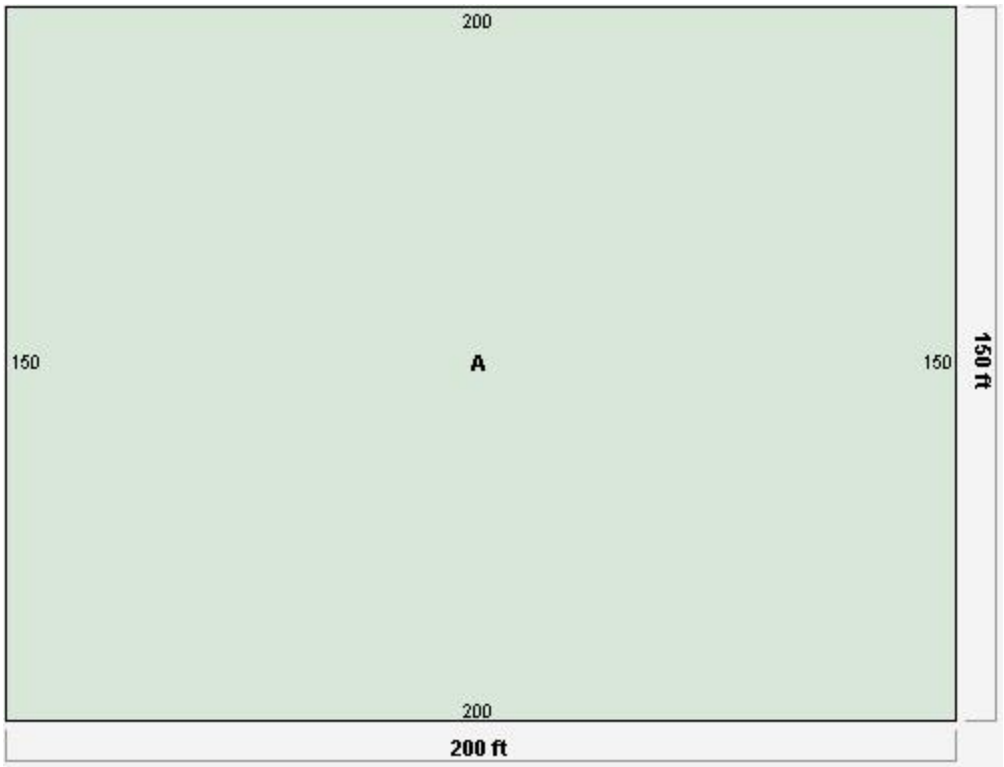
A	MAIN	6840 square feet
B	MAIN	2400 square feet
C	MAIN	2400 square feet
D	MAIN	18700 square feet
	Estimated Total	**30340 square feet**

Commercial Card 2



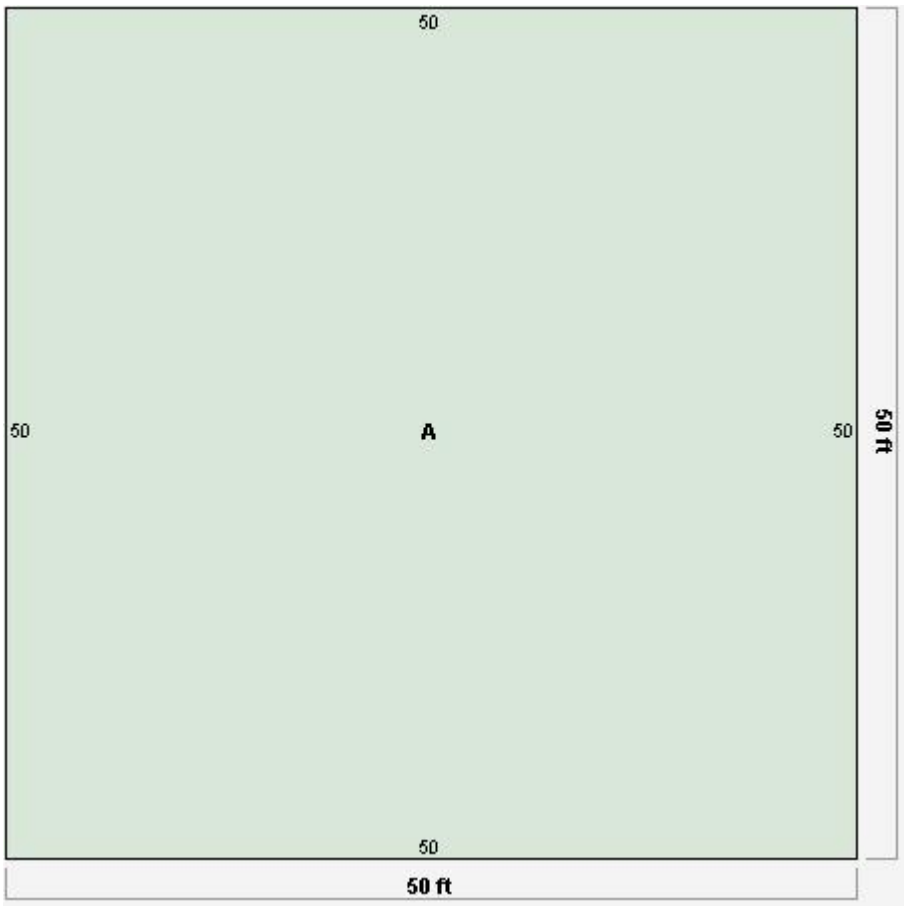
A	MAIN	29820 square feet
B	MAIN	22010 square feet
C	MAIN	12669 square feet
D	MAIN	8165 square feet
E	MAIN	8165 square feet
F	MAIN	3000 square feet
G	MAIN	3000 square feet
	Estimated Total	**86829 square feet**

Commercial Card 3



A	MAIN	30000 square feet
	Estimated Total	**30000 square feet**

Commercial Card 4



A	MAIN	2500 square feet

Estimated Total	**2500 square feet**

Parcel Images


GAF

APPENDIX B

EDR RADIUS SEARCH WITH GEOCHECK®

GAF Site
218 West Bayfront Parkway
Erie, PA 16507

Inquiry Number: 2313284.1s
September 10, 2008

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

218 WEST BAYFRONT PARKWAY
ERIE, PA 16507

COORDINATES

Latitude (North):	42.133600 - 42° 8' 1.0''
Longitude (West):	80.093300 - 80° 5' 35.9''
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	574935.9
UTM Y (Meters):	4664794.0
Elevation:	583 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	42080-B1 ERIE NORTH, PA
Most Recent Revision:	1996
South Map:	42080-A1 ERIE SOUTH, PA
Most Recent Revision:	1997

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 6 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
BUILDING MATERIALS MANUFACTURING 218 W BAYFRONT PKWY ERIE, PA 16507	TRIS	16507BLDNG12
BLDG MATERIALS MFG CORP/ERIE 218 W BAYFRONT PKWY ERIE, PA 16507	FINDS	110035908765

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

NPL	National Priority List
Proposed NPL	Proposed National Priority List Sites
Delisted NPL	National Priority List Deletions
NPL LIENS	Federal Superfund Liens
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
LIENS 2	CERCLA Lien Information
CORRACTS	Corrective Action Report
RCRA-TSDF	RCRA - Transporters, Storage and Disposal
RCRA-LQG	RCRA - Large Quantity Generators
RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generator
US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls
ERNS	Emergency Response Notification System
HMIRS	Hazardous Materials Information Reporting System
DOT OPS	Incident and Accident Data
US CDL	Clandestine Drug Labs
US BROWNFIELDS	A Listing of Brownfields Sites
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
LUCIS	Land Use Control Information System
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
ODI	Open Dump Inventory
MINES	Mines Master Index File
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
RADINFO	Radiation Information Database
RAATS	RCRA Administrative Action Tracking System
SCRD DRYCLEANERS	State Coalition for Rededication of Drycleaners Listing

STATE AND LOCAL RECORDS

SHWS	Hazardous Sites Cleanup Act Site List
HSCA	HSCA Remedial Sites Listing
SWF/LF	Operating Facilities
UNREG LTANKS	Unregulated Tank Cases
UST	Listing of Pennsylvania Regulated Underground Storage Tanks
ARCHIVE UST	Archived Underground Storage Tank Sites

EXECUTIVE SUMMARY

LAST ---------- Storage Tank Release Sites
AST ---------- Listing of Pennsylvania Regulated Aboveground Storage Tanks
ARCHIVE AST ---------- Archived Aboveground Storage Tank Sites
MANIFEST ---------- Manifest Information
ACT 2-DEED ---------- Act 2-Deed Acknowledgment Sites
ENG CONTROLS ---------- Engineering Controls Site Listing
INST CONTROL ---------- Institutional Controls Site Listing
VCP ---------- Voluntary Cleanup Program Sites
DRYCLEANERS ---------- Drycleaner Facility Locations
BROWNFIELDS ---------- Brownfields Sites
AIRS ---------- Permit and Emissions Inventory Data

TRIBAL RECORDS

INDIAN RESERV ---------- Indian Reservations
INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands
INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land
INDIAN UST ---------- Underground Storage Tanks on Indian Land
INDIAN VCP ---------- Voluntary Cleanup Priority Listing

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

FEDERAL RECORDS

CERC-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 12/03/2007 has revealed that there are 2 CERC-NFRAP sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
GAF CORP	***FOOT OF SASSAFRAS ST***	***0 - 1/8 WSW***	***3***	***6***
PENELEC-FRONT STREET	***FRONT ST***	***1/4 - 1/2 E***	***12***	***15***

EXECUTIVE SUMMARY

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 08/20/2008 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
ERIE SAND & GRAVEL	***2 E BAY DR/PORT ACCESS***	***1/8 - 1/4 N***	***5***	***9***

RCRA-NonGen: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA-NonGen list, as provided by EDR, and dated 08/20/2008 has revealed that there are 3 RCRA-NonGen sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
GAF CORP	***FOOT OF SASSAFRAS ST***	***0 - 1/8 WSW***	***3***	***6***
NIAGARA MACHINE INC	***325 W FRONT ST***	***1/8 - 1/4 SW***	***6***	***11***
MEDI-CENTER HOSPITAL	***137 W 2ND ST***	***1/8 - 1/4 ESE***	***B8***	***13***

STATE AND LOCAL RECORDS

HIST LF: The report provides facility information recorded in the Pennsylvania Department of Environmental Protection ALI database. Some of this information has been abstracted from old records and may not accurately reflect the current conditions and status at these facilities.

A review of the HIST LF list, as provided by EDR, and dated 01/04/2005 has revealed that there is 1 HIST LF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
HAMOT MEDICAL CENTER - INCINER	HAMOT MEDICAL CENTER, 2	1/4 - 1/2 E	C9	14

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Resources' List of Confirmed Releases.

A review of the LUST list, as provided by EDR, and dated 07/03/2008 has revealed that there are 2 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
FRONT STREET GENERATING STA Facility Status: Cleanup Completed Facility Status: Cleanup Completed	FRONT ST / STATE ST	1/4 - 1/2 E	C10	14

Lower Elevation	Address	Dist / Dir	Map ID	Page
MCALLISTER MARINA Facility Status: Cleanup Completed	E BAY FRONT	1/4 - 1/2 NNE	11	15

EXECUTIVE SUMMARY

EDR PROPRIETARY RECORDS

Manufactured Gas Plants: The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

A review of the Manufactured Gas Plants list, as provided by EDR, has revealed that there are 2 Manufactured Gas Plants sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
ERIE GAS CO	BAYFRONT PARKWAY	0 - 1/8 E	4	8
PENNSYLVANIA GAS CO	W 2ND STREET	1/8 - 1/4 ESE	B7	13

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
CONRAIL SWITCHING YARD SITE	CERC-NFRAP
CATHY COURT	CERC-NFRAP
CRANBERRY STREET SITE	CERC-NFRAP
WAYNE STREET DUMP	CERC-NFRAP
PENNSYLVANIA AVENUE SITE	CERC-NFRAP
PENINSULA DRIVE SITE	CERC-NFRAP
EAST 14TH & PARADE STREET SITE	VCP
GPU FRONT ST STA PENELEC	VCP, UNREG LTANKS, ACT 2-DEED
WAYNE ST DUMP	HIST LF
ERIE BOAT PENELEC	UNREG LTANKS
DAIRY MART 1018	UNREG LTANKS
DISTR & METER DEPT CTR	LUST
SEARS SVC CTR	LUST
ERIE CITY WATER AUTHORITY	MANIFEST
ERIE COUNTY CONVENTION AUTHORITY	MANIFEST

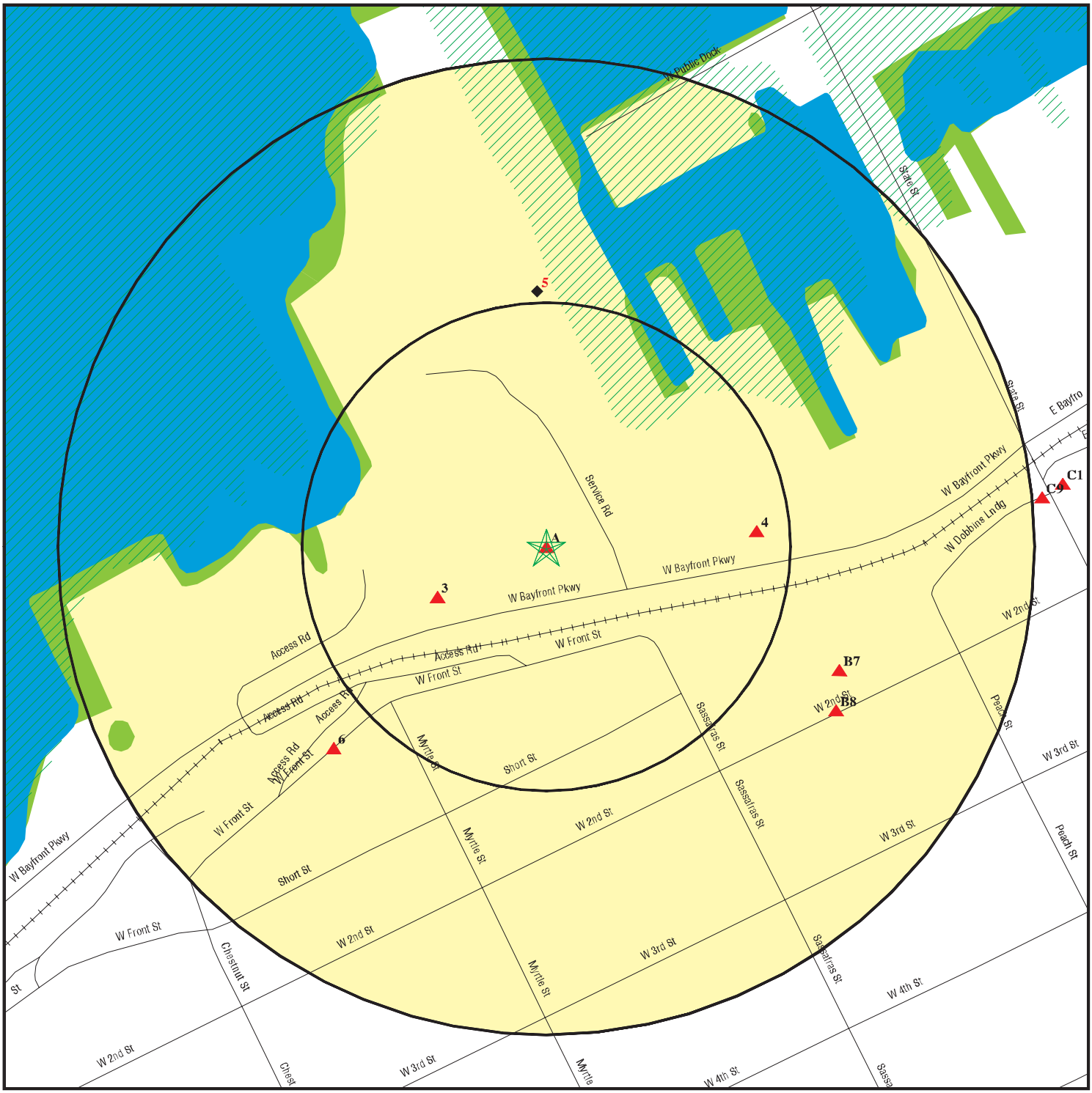
OVERVIEW MAP - 2313284.1s

0 1/4 1/2 1 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory

SITE NAME: GAF Site ADDRESS: 218 West Bayfront Parkway Erie PA 16507 LAT/LONG: 42.1336 / 80.0933	CLIENT: MACTEC, Inc. CONTACT: Rob Crowley INQUIRY #: 2313284.1s DATE: September 10, 2008 8:11 am

DETAIL MAP - 2313284.1s



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Oil & Gas pipelines

100-year flood zone

500-year flood zone

National Wetland Inventory

0 1/16 1/8 1/4 Miles

N

SITE NAME: GAF Site	CLIENT: MACTEC, Inc.
ADDRESS: 218 West Bayfront Parkway Erie PA 16507	CONTACT: Rob Crowley
LAT/LONG: 42.1336 / 80.0933	INQUIRY #: 2313284.1s DATE: September 10, 2008 8:11 am

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FEDERAL RECORDS								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL LIENS		TP	NR	NR	NR	NR	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.500	1	0	1	NR	NR	2
LIENS 2		TP	NR	NR	NR	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRA-TSDF		0.500	0	0	0	NR	NR	0
RCRA-LQG		0.250	0	0	NR	NR	NR	0
RCRA-SQG		0.250	0	1	NR	NR	NR	1
RCRA-CESQG		0.250	0	0	NR	NR	NR	0
RCRA-NonGen		0.250	1	2	NR	NR	NR	3
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
ERNS		TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
DOT OPS		TP	NR	NR	NR	NR	NR	0
US CDL		TP	NR	NR	NR	NR	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
LUCIS		0.500	0	0	0	NR	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
DEBRIS REGION 9		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
TRIS	X	TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
HIST FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
RADINFO		TP	NR	NR	NR	NR	NR	0
FINDS	X	TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
SCRD DRYCLEANERS		0.500	0	0	0	NR	NR	0
STATE AND LOCAL RECORDS								
SHWS		1.000	0	0	0	0	NR	0
HSCA		1.000	0	0	0	0	NR	0
SWF/LF		0.500	0	0	0	NR	NR	0
HIST LF		0.500	0	0	1	NR	NR	1

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LUST		0.500	0	0	2	NR	NR	2
UNREG LTANKS		0.500	0	0	0	NR	NR	0
UST		0.250	0	0	NR	NR	NR	0
ARCHIVE UST		0.250	0	0	NR	NR	NR	0
LAST		0.500	0	0	0	NR	NR	0
AST		0.250	0	0	NR	NR	NR	0
ARCHIVE AST		TP	NR	NR	NR	NR	NR	0
MANIFEST		0.250	0	0	NR	NR	NR	0
ACT 2-DEED		0.500	0	0	0	NR	NR	0
ENG CONTROLS		0.500	0	0	0	NR	NR	0
INST CONTROL		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
BROWNFIELDS		0.500	0	0	0	NR	NR	0
AIRS		TP	NR	NR	NR	NR	NR	0
TRIBAL RECORDS								
INDIAN RESERV		1.000	0	0	0	0	NR	0
INDIAN ODI		0.500	0	0	0	NR	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
INDIAN VCP		0.500	0	0	0	NR	NR	0
EDR PROPRIETARY RECORDS								
Manufactured Gas Plants		1.000	1	1	0	0	NR	2

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1
Target Property
Actual: 583 ft.

BUILDING MATERIALS MANUFACTURING CORP
218 W BAYFRONT PKWY
ERIE, PA 16507

Site 1 of 2 in cluster A

TRIS **1005446603**
16507BLDNG12

A2
Target Property
Actual: 583 ft.

BLDG MATERIALS MFG CORP/ERIE
218 W BAYFRONT PKWY
ERIE, PA 16507

Site 2 of 2 in cluster A

FINDS **1011459699**
110035908765

FINDS:
Other Pertinent Environmental Activity Identified at Site

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

3
WSW
< 1/8
0.061 mi.
323 ft.

Relative: Equal

Actual: 583 ft.

GAF CORP
FOOT OF SASSAFRAS ST
ERIE, PA 16507

FINDS **1000113696**
CERC-NFRAP **PAD005032495**
RCRA-NonGen

FINDS:
Other Pertinent Environmental Activity Identified at Site

TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

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CERC-NFRAP:

Site ID:	0300824
Federal Facility:	Not a Federal Facility
NPL Status:	Not on the NPL
Non NPL Status:	NFRAP

GAF CORP (Continued) **1000113696**

Site Description: Not reported

CERCLIS-NFRAP Assessment History:

Action:	DISCOVERY
Date Started:	Not reported
Date Completed:	03/29/1985
Priority Level:	Not reported
Action:	ARCHIVE SITE
Date Started:	Not reported
Date Completed:	05/20/1985
Priority Level:	Not reported
Action:	PRELIMINARY ASSESSMENT
Date Started:	05/20/1985
Date Completed:	05/20/1985
Priority Level:	NFRAP (No Futher Remedial Action Planned

RCRA-NonGen:

Date form received by agency:	06/21/2007
Facility name:	GAF BLDG MATERIALS
Facility address:	218 W BAYFRONT PKWY ERIE, PA 16507
EPA ID:	PAD005032495
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	03
Land type:	Other land type
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	Unknown
Used oil transporter:	No
Off-site waste receiver:	Commercial status unknown

Historical Generators:

Date form received by agency:	11/18/1980
Facility name:	GAF BLDG MATERIALS

GAF CORP (Continued) **1000113696**

Site name: GAF MATERIALS CORP
Classification: Not a generator, verified

Date form received by agency: 08/18/1980
Facility name: GAF BLDG MATERIALS
Site name: GAF MATERIALS CORP
Classification: Conditionally Exempt Small Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 12/10/1987
Date achieved compliance: 01/12/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/23/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 06/19/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/12/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/10/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 01/12/1988
Evaluation lead agency: State

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4 **ERIE GAS CO** **Manufactured Gas Plants** **1008408538**
East **BAYFRONT PARKWAY** **N/A**
< 1/8 **ERIE, PA 16507**
0.108 mi.
570 ft.

Relative:
Higher

Actual:
585 ft.

5
North
1/8-1/4
0.131 mi.
691 ft.

ERIE SAND & GRAVEL
2 E BAY DR/PORT ACCESS RD
ERIE, PA 16507

RCRA-SQG **1001128223**
FINDS **PAR000028324**

Relative:
Lower

Actual:
579 ft.

RCRA-SQG:

Date form received by agency:	03/14/1997
Facility name:	ERIE SAND & GRAVEL
Facility address:	2 E BAY DR/PORT ACCESS RD ERIE, PA 16507
EPA ID:	PAR000028324
Mailing address:	PO BOX 179 ERIE, PA 16512
Contact:	TOD EAGLETON
Contact address:	PO BOX 179 ERIE, PA 16512
Contact country:	US
Contact telephone:	(814) 453-6721
Contact email:	Not reported
EPA Region:	03
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	ERIE SAND & GRAVEL CO
Owner/operator address:	PO BOX 179 ERIE, PA 16512
Owner/operator country:	Not reported
Owner/operator telephone:	(814) 453-6721
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	Unknown
Mixed waste (haz. and radioactive):	Unknown
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	Unknown
Furnace exemption:	Unknown
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No
Off-site waste receiver:	Commercial status unknown

ERIE SAND & GRAVEL (Continued) **1001128223**

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D006
Waste name: CADMIUM

Waste code: D008
Waste name: LEAD

Waste code: D018
Waste name: BENZENE

Waste code: D035
Waste name: METHYL ETHYL KETONE

Waste code: D039
Waste name: TETRACHLOROETHYLENE

Waste code: D040
Waste name: TRICHLOROETHYLENE

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site

Not reported

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PCS (Permit Compliance System) is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

6
SW
1/8-1/4
0.150 mi.
791 ft.

NIAGARA MACHINE INC
325 W FRONT ST
ERIE, PA 16507

FINDS **1000232984**
RCRA-NonGen **PAD005030200**

Relative:
Higher

Actual:
620 ft.

FINDS:
Other Pertinent Environmental Activity Identified at Site

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RCRA-NonGen:

Date form received by agency:	05/05/2003
Facility name:	NIAGARA MACHINE INC
Facility address:	325 W FRONT ST ERIE, PA 16507
EPA ID:	PAD005030200
Contact:	GARY R CHRISTENSEN
Contact address:	325 W FRONT ST ERIE, PA 16507
Contact country:	US
Contact telephone:	(814) 455-8838
Contact email:	Not reported
EPA Region:	03
Land type:	Private
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	NIAGARA MACHINE INC
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	01/01/1969
Owner/Op end date:	Not reported
Owner/operator name:	OPERNAME
Owner/operator address:	OPERSTREET OPERCITY, AK 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(215) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	01/01/0001
Owner/Op end date:	Not reported
Owner/operator name:	CHRISTENSEN ROBERT
Owner/operator address:	OWNERSTREET OWNERCITY, AK 99999

NIAGARA MACHINE INC (Continued) **1000232984**

Owner/operator country: Not reported
Owner/operator telephone: (215) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/0001
Owner/Op end date: Not reported

Owner/operator name: NIAGARA MACHINE INC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1969
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 11/13/1989
Facility name: NIAGARA MACHINE INC
Classification: Small Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 04/09/2003
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

B7
ESE
1/8-1/4
0.163 mi.
860 ft.

PENNSYLVANIA GAS CO
W 2ND STREET
ERIE, PA 16507

Site 1 of 2 in cluster B

Manufactured Gas Plants **1008408537**
N/A

Relative:
Higher

Actual:
623 ft.

B8
ESE
1/8-1/4
0.170 mi.
900 ft.

MEDI-CENTER HOSPITAL
137 W 2ND ST
ERIE, PA 16503

Site 2 of 2 in cluster B

FINDS **1000245113**
RCRA-NonGen **PAD074991878**

Relative:
Higher

Actual:
628 ft.

FINDS:
Other Pertinent Environmental Activity Identified at Site

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RCRA-NonGen:

Date form received by agency:	06/27/1980
Facility name:	MEDI-CENTER HOSPITAL
Facility address:	137 W 2ND ST ERIE, PA 16503
EPA ID:	PAD074991878
Mailing address:	137 W 2ND STREET ERIE, PA 16507
Contact:	PATRICIA LOJEWSKI
Contact address:	137 W 2ND ST ERIE, PA 16503
Contact country:	US
Contact telephone:	(814) 453-5602
Contact email:	Not reported
EPA Region:	03
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	Not reported
Owner/operator address:	OWNERSTREET OWNERCITY, AK 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(215) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	OPERNAME
Owner/operator address:	OPERSTREET OPERCITY, AK 99999
Owner/operator country:	Not reported

MEDI-CENTER HOSPITAL (Continued) **1000245113**

Owner/operator telephone: (215) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Violation Status: No violations found

C9 **HAMOT MEDICAL CENTER - INCINERATOR** **HIST LF** **S101101663**
East **HAMOT MEDICAL CENTER, 201 STATE STR** **N/A**
1/4-1/2 **ERIE, PA 16550**
0.255 mi.
1347 ft. **Site 1 of 2 in cluster C**

Relative:
Higher

Actual:
603 ft.

HIST LF INACTIVE:
Size Acres: Not reported
Cont ID: Not reported
Contact Name: Not reported
Contact Tele: Not reported

C10 **FRONT STREET GENERATING STA** **LUST** **S105802962**
East **FRONT ST / STATE ST** **N/A**
1/4-1/2 **ERIE, PA**
0.266 mi.
1407 ft. **Site 2 of 2 in cluster C**

Relative:
Higher

Actual:
600 ft.

LUST:
Facility Address2: Not reported
Facility Id: 25-16342
Facility Type: Undergroung Storage Tank Containing Petroleum
Facility Status: Cleanup Completed
Status Date: 11/3/1997
Release Date: 8/5/1989
Region: 4600

Facility Address2: Not reported
Facility Id: 25-16342
Facility Type: Undergroung Storage Tank Containing Haz Substances
Facility Status: Cleanup Completed

FRONT STREET GENERATING STA (Continued) **S105802962**

Status Date: 6/1/1994
Release Date: 8/5/1989
Region: 4600

11
NNE
1/4-1/2
0.307 mi.
1622 ft.

MCALLISTER MARINA **LUST** **S104180609**
E BAY FRONT **N/A**
ERIE, PA

Relative:
Lower

Actual:
571 ft.

LUST:
Facility Address2: Not reported
Facility Id: 25-31259
Facility Type: Undergroung Storage Tank Containing Petroleum
Facility Status: Cleanup Completed
Status Date: 12/4/1995
Release Date: 8/5/1989
Region: 4600

12
East
1/4-1/2
0.344 mi.
1814 ft.

PENELEC-FRONT STREET **FINDS** **1000204171**
FRONT ST **CERC-NFRAP** **PAD000621748**
ERIE, PA 16507 **RCRA-CESQG**
MANIFEST

Relative:
Higher

Actual:
629 ft.

FINDS:
Other Pertinent Environmental Activity Identified at Site

CAMDBS (Clean Air Markets Division Business System) is a national information system that supports the implementation of market-based air pollution control programs administered by the Clean Air Markets Division, within the Office of Air and Radiation. These programs include the Acid Rain Program, established by Title IV of the Clean Air Act Amendments of 1990, and regional programs designed reduce the transport of ozone. These emissions trading programs allows regulated facilities (primarily electric utilities) to adopt the most cost-effective strategies to reduce emissions at their units. Units that reduce their emissions below the number of allowances they hold -- each allowance is equivalent to one ton of sulfur dioxide or nitrogen oxides -- may trade allowances with other units in their system, sell them to other utilities on the open market or through EPA auctions, or bank them to cover emissions in future years. CAMDBS functions include registering responsible officials, establishing allowance accounts, reporting hourly emissions data, and transferring allowances between accounts.

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CERC-NFRAP:
Site ID: 0300462

PENELEC-FRONT STREET (Continued) **1000204171**

Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP

Site Description: ALLEGED PCB DISPOSAL SITE.

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: Not reported
Date Completed: 10/01/1984
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 11/01/1984
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: 10/01/1984
Date Completed: 11/01/1984
Priority Level: NFRAP (No Futher Remedial Action Planned

RCRA-CESQG:
Date form received by agency: 02/23/1990
Facility name: PENELEC - FRONT STREET STATION
Site name: PENNSYLVANIA ELECTRIC COMPANY
Facility address: FRONT STREET GENERATING STA
P.O.BOX 1700,E.FRONT&HOLLAND
ERIE, PA 165070000
EPA ID: PAD000621748
Mailing address: FRONT STREET GENERATION STA
P.O.BOX L700,E.FRONT&HOLLAND
ERIE, PA 165070000
Contact: JAMES E KING
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: (814) 533-8568
Contact email: Not reported
EPA Region: 03
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

PENELEC-FRONT STREET (Continued) **1000204171**

Owner/Operator Summary:
Owner/operator name: OPERNAME
Owner/operator address: OPERSTREET
OPERCITY, AK 99999
Owner/operator country: Not reported
Owner/operator telephone: (215) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: PA ELECTRIC CO
Owner/operator address: 1001 BROAD ST
JOHNSTOWN, PA 15907
Owner/operator country: Not reported
Owner/operator telephone: (814) 533-8568
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: Unknown
Transporter of hazardous waste: Unknown
Treater, storer or disposer of HW: No
Underground injection activity: Unknown
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: Unknown
Used oil processor: Unknown
User oil refiner: Unknown
Used oil fuel marketer to burner: Unknown
Used oil Specification marketer: Unknown
Used oil transfer facility: Unknown
Used oil transporter: Unknown
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 11/13/1980
Facility name: PENELEC - FRONT STREET STATION
Classification: Not a generator, verified

Date form received by agency: 08/18/1980
Facility name: PENELEC - FRONT STREET STATION
Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:
Waste code: F001
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF

PENELEC-FRONT STREET (Continued) **1000204171**

ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: D000
Waste name: Not Defined

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D007
Waste name: CHROMIUM

Waste code: D008
Waste name: LEAD

Waste code: D009
Waste name: MERCURY

Waste code: F001
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: U122
Waste name: FORMALDEHYDE

PENELEC-FRONT STREET (Continued) **1000204171**

Violation Status: No violations found

NY MANIFEST:

Document ID:	NYA6329214
Manifest Status:	Completed copy
Trans1 State ID:	87961GHNY
Trans2 State ID:	Not reported
Generator Ship Date:	870702
Trans1 Recv Date:	870702
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	870702
Part A Recv Date:	870715
Part B Recv Date:	870714
Generator EPA ID:	PAD000621748
Trans1 EPA ID:	NYD080336241
Trans2 EPA ID:	Not reported
TSDF ID:	NYD080336241
Waste Code:	U122 - FORMALDEHYDE
Quantity:	02400
Units:	P - Pounds
Number of Containers:	004
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00800
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	87
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported
EPA ID:	PAD000621748
Facility Name:	PENNSYLVANIA ELECTRIC
Facility Address:	EAST FRONT STREET
Facility City:	ERIE
Facility Address 2:	Not reported
Country:	USA
Mailing Name:	PENNSYLVANIA ELECTRIC
Mailing Contact:	PENNSYLVANIA ELECTRIC
Mailing Address:	P. O. BOX 1700-EAST FRONT ST
Mailing Address 2:	Not reported
Mailing City:	ERIE
Mailing State:	PA
Mailing Zip:	16507
Mailing Zip4:	Not reported

PENELEC-FRONT STREET (Continued) **1000204171**

Mailing Country: USA
Mailing Phone: 814-868-8796

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ERIE	S105802956	DISTR & METER DEPT CTR	W 12TH MYRTLE ST		LUST
ERIE	1003866711	CONRAIL SWITCHING YARD SITE	E. 18TH ST. AND PERRY ST.	16501	CERC-NFRAP
ERIE	1003865196	CATHY COURT	E 3RD ST	16501	CERC-NFRAP
ERIE	1003866710	CRANBERRY STREET SITE	4TH - 5TH ST. ON CRANBERRY	16507	CERC-NFRAP
ERIE	1003864884	WAYNE STREET DUMP	EAST BAYFRONT RD - END OF	16501	CERC-NFRAP
ERIE	S108988691	EAST 14TH & PARADE STREET SITE	SOUTHEAST CORNER OF 14TH ST. / PARADE ST		VCP
ERIE	1003866635	PENNSYLVANIA AVENUE SITE	FOOT OF PA AVE., NORTH OF FRONT STREET	16507	CERC-NFRAP
ERIE	S101478386	GPU FRONT ST STA PENELEC	FRONT ST		VCP, UNREG LTANKS, ACT 2-DEED
ERIE	1009246268	ERIE CITY WATER AUTHORITY	P O BOX 1729 FOOT OF CHESTNUT	16507	MANIFEST
ERIE	1003865489	PENINSULA DRIVE SITE	W OF PENINSULA DRIVE	16507	CERC-NFRAP
ERIE	S105920987	ERIE BOAT PENELEC	PEACH ST		UNREG LTANKS
ERIE	S105920986	DAIRY MART 1018	830 US ROUTE 19 NORTH		UNREG LTANKS
ERIE	S108653327	ERIE COUNTY CONVENTION AUTHORITY	WEST SLIP STATE ST		MANIFEST
ERIE	S105802981	SEARS SVC CTR	TENTH / HOLLAND ST		LUST
ERIE	S106544582	WAYNE ST DUMP	SOUTH WEST OF BAYFRONT- ACROSS FROM		HIST LF

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/30/2008
Date Data Arrived at EDR: 05/06/2008
Date Made Active in Reports: 06/09/2008
Number of Days to Update: 34

Source: EPA
Telephone: N/A
Last EDR Contact: 07/28/2008
Next Scheduled EDR Contact: 10/27/2008
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/30/2008
Date Data Arrived at EDR: 05/06/2008
Date Made Active in Reports: 06/09/2008
Number of Days to Update: 34

Source: EPA
Telephone: N/A
Last EDR Contact: 08/27/2008
Next Scheduled EDR Contact: 10/27/2008
Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/30/2008
Date Data Arrived at EDR: 05/06/2008
Date Made Active in Reports: 06/09/2008
Number of Days to Update: 34

Source: EPA
Telephone: N/A
Last EDR Contact: 07/28/2008
Next Scheduled EDR Contact: 10/27/2008
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/09/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 34

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 07/22/2008
Next Scheduled EDR Contact: 09/15/2008
Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 12/03/2007
Date Data Arrived at EDR: 12/06/2007
Date Made Active in Reports: 02/20/2008
Number of Days to Update: 76

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 06/17/2008
Next Scheduled EDR Contact: 09/15/2008
Data Release Frequency: Quarterly

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 08/19/2008
Date Data Arrived at EDR: 08/29/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Varies

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/25/2008
Date Data Arrived at EDR: 06/30/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 56

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/02/2008
Next Scheduled EDR Contact: 12/01/2008
Data Release Frequency: Quarterly

RCRA-TSDF: RCRA - Transporters, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 08/20/2008
Date Data Arrived at EDR: 08/21/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 19

Source: Environmental Protection Agency
Telephone: 800-438-2474
Last EDR Contact: 08/21/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Quarterly

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 08/20/2008
Date Data Arrived at EDR: 08/21/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 19

Source: Environmental Protection Agency
Telephone: 800-438-2474
Last EDR Contact: 08/21/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 08/20/2008
Date Data Arrived at EDR: 08/21/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 19

Source: Environmental Protection Agency
Telephone: 800-438-2474
Last EDR Contact: 08/21/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 08/20/2008
Date Data Arrived at EDR: 08/21/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 19

Source: Environmental Protection Agency
Telephone: 800-438-2474
Last EDR Contact: 08/21/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Varies

RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 08/20/2008
Date Data Arrived at EDR: 08/21/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 19

Source: Environmental Protection Agency
Telephone: 800-438-2474
Last EDR Contact: 08/21/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 07/23/2008
Date Data Arrived at EDR: 07/29/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 06/30/2008
Next Scheduled EDR Contact: 09/29/2008
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 07/23/2008
Date Data Arrived at EDR: 07/29/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 06/30/2008
Next Scheduled EDR Contact: 09/29/2008
Data Release Frequency: Varies

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 01/23/2008
Date Made Active in Reports: 03/17/2008
Number of Days to Update: 54

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 07/25/2008
Next Scheduled EDR Contact: 10/20/2008
Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 04/30/2008
Date Data Arrived at EDR: 07/15/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 41

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 07/15/2008
Next Scheduled EDR Contact: 10/13/2008
Data Release Frequency: Annually

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 05/14/2008
Date Data Arrived at EDR: 05/28/2008
Date Made Active in Reports: 08/08/2008
Number of Days to Update: 72

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/29/2008
Next Scheduled EDR Contact: 11/24/2008
Data Release Frequency: Varies

CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 12/28/2007
Number of Days to Update: 25

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 06/27/2008
Next Scheduled EDR Contact: 09/22/2008
Data Release Frequency: Quarterly

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 08/25/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 07/15/2008
Next Scheduled EDR Contact: 10/13/2008
Data Release Frequency: Semi-Annually

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 703-692-8801
Last EDR Contact: 08/08/2008
Next Scheduled EDR Contact: 11/03/2008
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 08/31/2007
Date Made Active in Reports: 10/11/2007
Number of Days to Update: 41

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 09/05/2008
Next Scheduled EDR Contact: 09/29/2008
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 09/09/2008
Next Scheduled EDR Contact: 12/08/2008
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 04/25/2008
Date Data Arrived at EDR: 06/12/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 74

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/21/2008
Next Scheduled EDR Contact: 10/20/2008
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 06/18/2008
Date Data Arrived at EDR: 07/11/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 45

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/30/2008
Next Scheduled EDR Contact: 09/29/2008
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 07/13/2007
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 06/16/2008
Next Scheduled EDR Contact: 09/15/2008
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 03/25/2008
Date Data Arrived at EDR: 04/17/2008
Date Made Active in Reports: 05/15/2008
Number of Days to Update: 28

Source: EPA, Region 9
Telephone: 415-972-3336
Last EDR Contact: 06/23/2008
Next Scheduled EDR Contact: 09/22/2008
Data Release Frequency: Varies

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/28/2008
Date Data Arrived at EDR: 06/25/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 61

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 06/25/2008
Next Scheduled EDR Contact: 09/22/2008
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 06/16/2008
Next Scheduled EDR Contact: 09/15/2008
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 46

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 08/11/2008
Next Scheduled EDR Contact: 10/13/2008
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/12/2008
Date Data Arrived at EDR: 07/18/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 38

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 06/16/2008
Next Scheduled EDR Contact: 09/15/2008
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 07/12/2008
Date Data Arrived at EDR: 07/18/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 38

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 06/16/2008
Next Scheduled EDR Contact: 09/15/2008
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 03/14/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 35
Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/14/2008
Next Scheduled EDR Contact: 10/13/2008
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/31/2008
Date Data Arrived at EDR: 08/13/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 27
Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 07/14/2008
Next Scheduled EDR Contact: 10/13/2008
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 12/04/2007
Date Data Arrived at EDR: 02/07/2008
Date Made Active in Reports: 03/17/2008
Number of Days to Update: 39
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 08/07/2008
Next Scheduled EDR Contact: 11/03/2008
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/08/2008
Date Data Arrived at EDR: 08/05/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 20
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 06/30/2008
Next Scheduled EDR Contact: 09/29/2008
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/29/2008
Date Data Arrived at EDR: 07/31/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 25
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/31/2008
Next Scheduled EDR Contact: 10/27/2008
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/09/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 47

Source: EPA
Telephone: (215) 814-5000
Last EDR Contact: 06/30/2008
Next Scheduled EDR Contact: 09/29/2008
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/06/2007
Date Made Active in Reports: 04/13/2007
Number of Days to Update: 38

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/11/2008
Next Scheduled EDR Contact: 09/08/2008
Data Release Frequency: Biennially

SCRD DRYCLEANERS: State Coalition for Redediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 05/14/2008
Date Data Arrived at EDR: 05/28/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 89

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/25/2008
Next Scheduled EDR Contact: 11/10/2008
Data Release Frequency: Varies

STATE AND LOCAL RECORDS

SHWS: Hazardous Sites Cleanup Act Site List

The Hazardous Sites Cleanup Act Site List includes sites listed on PA Priority List, sites delisted from PA Priority List, Interim Response Completed sites, and Sites Being Studied or Response Being Planned.

Date of Government Version: 07/03/2008
Date Data Arrived at EDR: 08/13/2008
Date Made Active in Reports: 09/04/2008
Number of Days to Update: 22

Source: Department Environmental Protection
Telephone: 717-783-7816
Last EDR Contact: 08/13/2008
Next Scheduled EDR Contact: 11/10/2008
Data Release Frequency: Semi-Annually

HSCA: HSCA Remedial Sites Listing

A list of remedial sites on the PA Priority List. This is the PA state equivalent of the federal NPL superfund list.

Date of Government Version: 12/07/2007
Date Data Arrived at EDR: 02/13/2008
Date Made Active in Reports: 03/18/2008
Number of Days to Update: 34

Source: Department of Environmental Protection
Telephone: 717-783-7816
Last EDR Contact: 08/14/2008
Next Scheduled EDR Contact: 11/10/2008
Data Release Frequency: Varies

SWF/LF: Operating Facilities

The listing includes Municipal Waste Landfills, Construction/Demolition Waste Landfills and Waste-to-Energy Facilities.

Date of Government Version: 06/20/2008
Date Data Arrived at EDR: 08/01/2008
Date Made Active in Reports: 08/19/2008
Number of Days to Update: 18

Source: Department of Environmental Protection
Telephone: 717-787-7564
Last EDR Contact: 06/20/2008
Next Scheduled EDR Contact: 09/15/2008
Data Release Frequency: Semi-Annually

HIST LF INVENTORY: Facility Inventory

A listing of solid waste facilities. This listing is no longer updated or maintained by the Department of Environmental Protection. At the time the listing was available, the DEP?s name was the Department of Environmental Resources.

Date of Government Version: 06/02/1999
Date Data Arrived at EDR: 07/12/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 30

Source: Department of Environmental Protection
Telephone: 717-787-7381
Last EDR Contact: 09/19/2005
Next Scheduled EDR Contact: 12/19/2005
Data Release Frequency: No Update Planned

HIST LF INACTIVE: Inactive Facilities List

A listing of inactive non-hazardous facilities (10000 & 300000 series). This listing is no longer updated or maintained by the Department of Environmental Protection. At the time the listing was available, the DEP?s name was the Department of Environmental Resources.

Date of Government Version: 12/20/1994
Date Data Arrived at EDR: 07/12/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 30

Source: Department of Environmental Protection
Telephone: 717-787-7381
Last EDR Contact: 06/21/2005
Next Scheduled EDR Contact: 12/19/2005
Data Release Frequency: No Update Planned

HIST LF: Abandoned Landfill Inventory

The report provides facility information recorded in the Pennsylvania Department of Environmental Protection ALI database. Some of this information has been abstracted from old records and may not accurately reflect the current conditions and status at these facilities

Date of Government Version: 01/04/2005
Date Data Arrived at EDR: 01/04/2005
Date Made Active in Reports: 02/04/2005
Number of Days to Update: 31

Source: Department of Environmental Protection
Telephone: 717-787-7564
Last EDR Contact: 06/13/2008
Next Scheduled EDR Contact: 09/15/2008
Data Release Frequency: Varies

LUST: Storage Tank Release Sites

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 07/03/2008
Date Data Arrived at EDR: 07/10/2008
Date Made Active in Reports: 08/19/2008
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: 717-783-7509
Last EDR Contact: 07/10/2008
Next Scheduled EDR Contact: 10/06/2008
Data Release Frequency: Semi-Annually

UNREG LTANKS: Unregulated Tank Cases

Leaking storage tank cases from unregulated storage tanks.

Date of Government Version: 04/12/2002
Date Data Arrived at EDR: 08/14/2003
Date Made Active in Reports: 08/29/2003
Number of Days to Update: 15

Source: Department of Environmental Protection
Telephone: 717-783-7509
Last EDR Contact: 08/14/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST: Listing of Pennsylvania Regulated Underground Storage Tanks

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 05/01/2008
Date Data Arrived at EDR: 07/10/2008
Date Made Active in Reports: 08/15/2008
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: 717-772-5599
Last EDR Contact: 07/10/2008
Next Scheduled EDR Contact: 10/06/2008
Data Release Frequency: Varies

ARCHIVE UST: Archived Underground Storage Tank Sites

The list includes tanks storing highly hazardous substances that were removed from the DEP's Storage Tank Information database because of the Department's policy on sensitive information. The list also may include tanks that are removed or permanently closed.

Date of Government Version: 05/01/2008
Date Data Arrived at EDR: 07/10/2008
Date Made Active in Reports: 08/19/2008
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: 717-772-5599
Last EDR Contact: 07/10/2008
Next Scheduled EDR Contact: 10/06/2008
Data Release Frequency: Varies

LAST: Storage Tank Release Sites

Leaking Aboveground Storage Tank Incident Reports.

Date of Government Version: 07/03/2008
Date Data Arrived at EDR: 07/10/2008
Date Made Active in Reports: 08/19/2008
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: 717-783-7509
Last EDR Contact: 07/10/2008
Next Scheduled EDR Contact: 10/06/2008
Data Release Frequency: Semi-Annually

AST: Listing of Pennsylvania Regulated Aboveground Storage Tanks

Registered Aboveground Storage Tanks.

Date of Government Version: 05/01/2008
Date Data Arrived at EDR: 07/10/2008
Date Made Active in Reports: 08/18/2008
Number of Days to Update: 39

Source: Department of Environmental Protection
Telephone: 717-772-5599
Last EDR Contact: 07/10/2008
Next Scheduled EDR Contact: 10/06/2008
Data Release Frequency: Varies

ARCHIVE AST: Archived Aboveground Storage Tank Sites

The list includes aboveground tanks with a capacity greater than 21,000 gallons that were removed from the DEP's Storage Tank Information database because of the Department's policy on sensitive information. The list also may include tanks that are removed or permanently closed.

Date of Government Version: 05/01/2008
Date Data Arrived at EDR: 07/10/2008
Date Made Active in Reports: 08/19/2008
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: 717-772-5599
Last EDR Contact: 07/10/2008
Next Scheduled EDR Contact: 10/06/2008
Data Release Frequency: Varies

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 12/21/2007
Date Made Active in Reports: 01/10/2008
Number of Days to Update: 20
Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 09/08/2008
Next Scheduled EDR Contact: 12/08/2008
Data Release Frequency: Annually

ACT 2-DEED: Act 2-Deed Acknowledgment Sites
This listing pertains to sites where the Department has approved a cleanup requiring a deed acknowledgment under Act 2. This list includes sites remediated to a non-residential Statewide health standard (Section 303(g)); all sites demonstrating attainment of a Site-specific standard (Section 304(m)); and sites being remediated as a special industrial area (Section 305(g)). Persons who remediated a site to a standard that requires a deed acknowledgment shall comply with the requirements of the Solid Waste Management Act or the Hazardous Sites Cleanup Act, as referenced in Act 2. These statutes require a property description section in the deed concerning the hazardous substance disposal on the site. The location of disposed hazardous substances and a description of the type of hazardous substances disposed on the site shall be included in the deed acknowledgment. A deed acknowledgment is required at the time of conveyance of the property.

Date of Government Version: 08/25/2008
Date Data Arrived at EDR: 08/25/2008
Date Made Active in Reports: 09/04/2008
Number of Days to Update: 10
Source: Department of Environmental Protection
Telephone: 717-783-9470
Last EDR Contact: 08/11/2008
Next Scheduled EDR Contact: 11/10/2008
Data Release Frequency: Varies

ENG CONTROLS: Engineering Controls Site Listing
Under the Land Recycling Act (Act 2) persons who perform a site cleanup using the site-specific standard or the special industrial area standard may use engineering or institutional controls as part of the response action. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 05/15/2008
Date Data Arrived at EDR: 05/16/2008
Date Made Active in Reports: 06/12/2008
Number of Days to Update: 27
Source: Department of Environmental Protection
Telephone: 717-783-9470
Last EDR Contact: 08/14/2008
Next Scheduled EDR Contact: 11/10/2008
Data Release Frequency: Varies

INST CONTROL: Institutional Controls Site Listing
Under the Land Recycling Act (Act 2) persons who perform a site cleanup using the site-specific standard or the special industrial area standard may use engineering or institutional controls as part of the response action. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 05/15/2008
Date Data Arrived at EDR: 05/16/2008
Date Made Active in Reports: 06/12/2008
Number of Days to Update: 27
Source: Department of Environmental Protection
Telephone: 717-783-9470
Last EDR Contact: 08/14/2008
Next Scheduled EDR Contact: 11/10/2008
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Sites
Sites involved in the Voluntary Cleanup Program

Date of Government Version: 08/25/2008
Date Data Arrived at EDR: 08/25/2008
Date Made Active in Reports: 09/04/2008
Number of Days to Update: 10
Source: Department of Environmental Protection
Telephone: 717-783-2388
Last EDR Contact: 08/11/2008
Next Scheduled EDR Contact: 11/10/2008
Data Release Frequency: Semi-Annually

DRYCLEANERS: Drycleaner Facility Locations
A listing of drycleaner facility locations.

Date of Government Version: 07/15/2008
Date Data Arrived at EDR: 07/15/2008
Date Made Active in Reports: 08/19/2008
Number of Days to Update: 35
Source: Department of Environmental Protection
Telephone: 717-787-9702
Last EDR Contact: 07/14/2008
Next Scheduled EDR Contact: 10/13/2008
Data Release Frequency: Varies

BROWNFIELDS: Brownfields Sites
Brownfields are generally defined as abandoned or underused industrial or commercial properties where redevelopment is complicated by actual or perceived environmental contamination. Brownfields vary in size, location, age and past use. They can range from a small, abandoned corner gas station to a large, multi-acre former manufacturing plant that has been closed for years.

Date of Government Version: 02/07/2008
Date Data Arrived at EDR: 02/07/2008
Date Made Active in Reports: 02/11/2008
Number of Days to Update: 4
Source: Department of Environmental Protection
Telephone: 717-783-1566
Last EDR Contact: 08/14/2008
Next Scheduled EDR Contact: 11/10/2008
Data Release Frequency: Varies

AIRS: Permit and Emissions Inventory Data
Permit and emissions inventory data.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 01/25/2007
Date Made Active in Reports: 03/12/2007
Number of Days to Update: 46
Source: Department of Environmental Protection
Telephone: 717-787-9702
Last EDR Contact: 07/21/2008
Next Scheduled EDR Contact: 10/20/2008
Data Release Frequency: Annually

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations
This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34
Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 08/08/2008
Next Scheduled EDR Contact: 11/03/2008
Data Release Frequency: Semi-Annually

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52
Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 08/25/2008
Next Scheduled EDR Contact: 11/24/2008
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 07/11/2008
Date Data Arrived at EDR: 07/11/2008
Date Made Active in Reports: 08/08/2008
Number of Days to Update: 28
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/21/2008
Date Data Arrived at EDR: 09/04/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 5
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 03/17/2008
Date Data Arrived at EDR: 03/27/2008
Date Made Active in Reports: 05/06/2008
Number of Days to Update: 40
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 06/16/2008
Date Data Arrived at EDR: 06/16/2008
Date Made Active in Reports: 08/08/2008
Number of Days to Update: 53
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 03/17/2008
Date Data Arrived at EDR: 03/27/2008
Date Made Active in Reports: 05/06/2008
Number of Days to Update: 40
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 03/12/2008
Date Data Arrived at EDR: 03/14/2008
Date Made Active in Reports: 03/20/2008
Number of Days to Update: 6
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 08/22/2008
Date Data Arrived at EDR: 08/22/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 18
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land
A listing of underground storage tank locations on Indian Land.

Date of Government Version: 03/12/2008
Date Data Arrived at EDR: 03/14/2008
Date Made Active in Reports: 03/20/2008
Number of Days to Update: 6
Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
No description is available for this data

Date of Government Version: 03/17/2008
Date Data Arrived at EDR: 03/27/2008
Date Made Active in Reports: 05/06/2008
Number of Days to Update: 40

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land
No description is available for this data

Date of Government Version: 12/21/2007
Date Data Arrived at EDR: 12/21/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 34

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
No description is available for this data

Date of Government Version: 06/16/2008
Date Data Arrived at EDR: 06/16/2008
Date Made Active in Reports: 08/08/2008
Number of Days to Update: 53

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land
No description is available for this data

Date of Government Version: 06/01/2007
Date Data Arrived at EDR: 06/14/2007
Date Made Active in Reports: 07/05/2007
Number of Days to Update: 21

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land
No description is available for this data

Date of Government Version: 08/21/2008
Date Data Arrived at EDR: 09/04/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 5

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
No description is available for this data

Date of Government Version: 07/11/2008
Date Data Arrived at EDR: 07/11/2008
Date Made Active in Reports: 08/08/2008
Number of Days to Update: 28

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land
No description is available for this data

Date of Government Version: 08/22/2008
Date Data Arrived at EDR: 08/22/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 18

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 04/02/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 07/21/2008
Next Scheduled EDR Contact: 10/20/2008
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/21/2008
Next Scheduled EDR Contact: 10/20/2008
Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 06/15/2007
Date Made Active in Reports: 08/20/2007
Number of Days to Update: 66

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 06/13/2008
Next Scheduled EDR Contact: 09/08/2008
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 09/30/2007
Date Data Arrived at EDR: 12/04/2007
Date Made Active in Reports: 12/31/2007
Number of Days to Update: 27

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 08/08/2008
Next Scheduled EDR Contact: 11/03/2008
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 05/27/2008
Date Data Arrived at EDR: 05/29/2008
Date Made Active in Reports: 07/10/2008
Number of Days to Update: 42

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/28/2008
Next Scheduled EDR Contact: 11/24/2008
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 06/03/2008
Date Made Active in Reports: 08/07/2008
Number of Days to Update: 65

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 06/16/2008
Next Scheduled EDR Contact: 09/15/2008
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 03/17/2008
Date Data Arrived at EDR: 03/26/2008
Date Made Active in Reports: 04/09/2008
Number of Days to Update: 14

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 08/11/2008
Next Scheduled EDR Contact: 11/10/2008
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 08/22/2008
Date Made Active in Reports: 09/08/2008
Number of Days to Update: 17

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 08/22/2008
Next Scheduled EDR Contact: 10/06/2008
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: PennWell Corporation
Telephone: (800) 823-6277
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Facility List
Source: Department of Public Welfare
Telephone: 717-783-3856

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

STREET AND ADDRESS INFORMATION

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

GAF SITE
218 WEST BAYFRONT PARKWAY
ERIE, PA 16507

TARGET PROPERTY COORDINATES

Latitude (North):	42.13360 - 42° 8' 1.0''
Longitude (West):	80.0933 - 80° 5' 35.9''
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	574935.9
UTM Y (Meters):	4664794.0
Elevation:	583 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	42080-B1 ERIE NORTH, PA
Most Recent Revision:	1996
South Map:	42080-A1 ERIE SOUTH, PA
Most Recent Revision:	1997

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

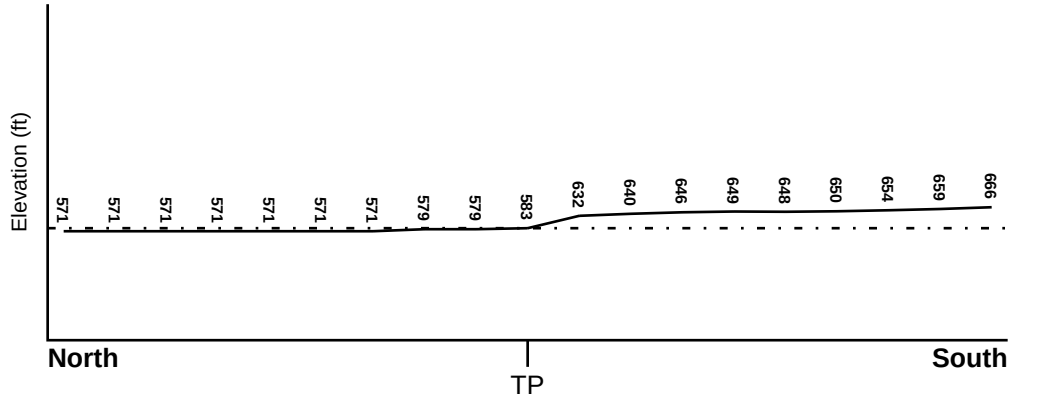
TOPOGRAPHIC INFORMATION

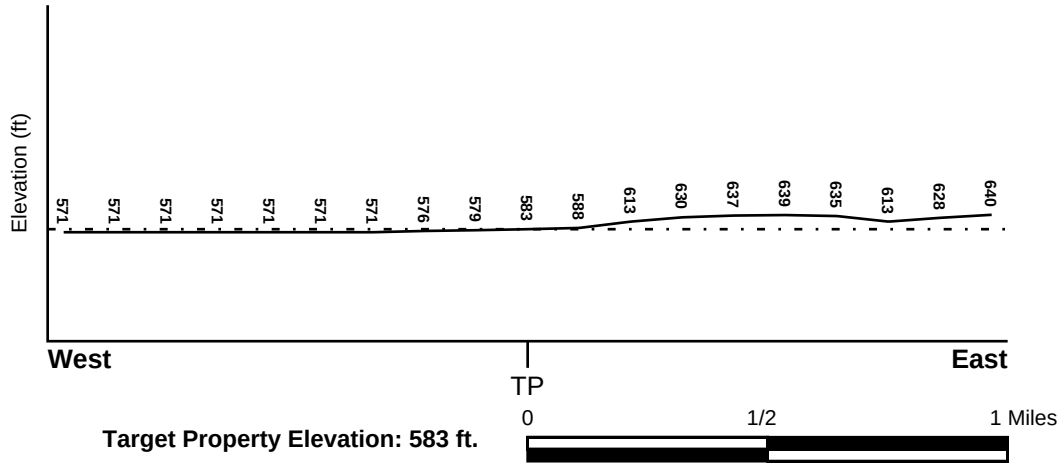
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 583 ft.

0 1/2 1 Miles

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
ERIE, PA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 4204490005B

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
ERIE NORTH	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Paleozoic
System:	Devonian
Series:	Upper Devonian
Code:	D3 *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	CONOTTON
Soil Surface Texture:	gravelly - loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: LOW

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	9 inches	gravelly - loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 6.50 Min: 4.50
2	9 inches	62 inches	very gravelly - sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 20.00 Min: 6.00	Max: 7.30 Min: 4.50
3	62 inches	80 inches	stratified	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILIS, Gravels, Clean Gravels, Well-graded gravel. COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel.	Max: 20.00 Min: 6.00	Max: 7.80 Min: 5.60

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silt loam
loamy sand
gravelly - loamy sand
loamy fine sand

Surficial Soil Types: silt loam
loamy sand
gravelly - loamy sand
loamy fine sand

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: silt loam
fine sand
very gravelly - sand

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	USGS2273752	1/2 - 1 Mile SSE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	PA6250392	1/2 - 1 Mile SE

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 2313284.1s

- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location

SITE NAME:	GAF Site	CLIENT:	MACTEC, Inc.
ADDRESS:	218 West Bayfront Parkway Erie PA 16507	CONTACT:	Rob Crowley
		INQUIRY #:	2313284.1s
LAT/LONG:	42.1336 / 80.0933	DATE:	September 10, 2008 8:11 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
SE
1/2 - 1 Mile
Higher | **FRDS PWS** | **PA6250392**

PWS ID:	PA6250392	PWS Status:	Active
Date Initiated:	Not Reported	Date Deactivated:	Not Reported
PWS Name:	RAMADA INN 6101 WATTSBURG ROAD MILLCREEK TWP, PA 16509		

Pwsid:	PA6250392	Epa region:	03
State:	PA	County:	Erie
Pws name:	TRAVEL LODGE		
Population Served:	40	Pwssvcconn:	1
PWS Source:	Groundwater		
Pws type:	NTNCWS		
Status:	Active	Owner type:	Private
Facility id:	001		
Facility name:	WELL 1		
Facility type:	Well	Treatment process:	hypochlorination, post
Treatment objective:	disinfection		
Contact name:	GENERAL MANAGER, RAMADA INN		
Original name:	TRAVEL LODGE		
Contact phone:	814-825-3100	Contact address1:	6101 WATTSBURG ROAD
Contact address2:	Not Reported	Contact city:	ERIE
Contact zip:	16509		

Pwsid:	PA6250392	Epa region:	03
State:	PA	County:	Erie
Pws name:	TRAVEL LODGE		
Population Served:	40	Pwssvcconn:	1
PWS Source:	Groundwater		
Pws type:	NTNCWS		
Status:	Active	Owner type:	Private
Facility id:	002		
Facility name:	WELL 2		
Facility type:	Well	Treatment process:	hypochlorination, post
Treatment objective:	disinfection		
Contact name:	GENERAL MANAGER, RAMADA INN		
Original name:	TRAVEL LODGE		
Contact phone:	814-825-3100	Contact address1:	6101 WATTSBURG ROAD
Contact address2:	Not Reported	Contact city:	ERIE
Contact zip:	16509		

Pwsid:	PA6250392	Epa region:	03
State:	PA	County:	Erie
Pws name:	TRAVEL LODGE		
Population Served:	40	Pwssvcconn:	1
PWS Source:	Groundwater		
Pws type:	NTNCWS		
Status:	Active	Owner type:	Private
Facility id:	100		
Facility name:	RAMADA INN		
Facility type:	Sampling_station	Treatment process:	hypochlorination, post
Treatment objective:	disinfection		

Contact name:	GENERAL MANAGER, RAMADA INN		
Original name:	TRAVEL LODGE		
Contact phone:	814-825-3100	Contact address1:	6101 WATTSBURG ROAD
Contact address2:	Not Reported	Contact city:	ERIE
Contact zip:	16509		
Pwsid:	PA6250392	Epa region:	03
State:	PA	County:	Erie
Pws name:	TRAVEL LODGE		
Population Served:	40	Pwssvcconn:	1
PWS Source:	Groundwater		
Pws type:	NTNCWS		
Status:	Active	Owner type:	Private
Facility id:	300		
Facility name:	PUMPHOUSE		
Facility type:	Treatment_plant	Treatment process:	hypochlorination, post
Treatment objective:	disinfection		
Contact name:	GENERAL MANAGER, RAMADA INN		
Original name:	TRAVEL LODGE		
Contact phone:	814-825-3100	Contact address1:	6101 WATTSBURG ROAD
Contact address2:	Not Reported	Contact city:	ERIE
Contact zip:	16509		
Pwsid:	PA6250392	Epa region:	03
State:	PA	County:	Erie
Pws name:	TRAVEL LODGE		
Population Served:	40	Pwssvcconn:	1
PWS Source:	Groundwater		
Pws type:	NTNCWS		
Status:	Active	Owner type:	Private
Facility id:	001		
Facility name:	WELL 1		
Facility type:	Well	Treatment process:	ion exchange
Treatment objective:	softening (hardness removal)		
Contact name:	GENERAL MANAGER, RAMADA INN		
Original name:	TRAVEL LODGE		
Contact phone:	814-825-3100	Contact address1:	6101 WATTSBURG ROAD
Contact address2:	Not Reported	Contact city:	ERIE
Contact zip:	16509		
Pwsid:	PA6250392	Epa region:	03
State:	PA	County:	Erie
Pws name:	TRAVEL LODGE		
Population Served:	40	Pwssvcconn:	1
PWS Source:	Groundwater		
Pws type:	NTNCWS		
Status:	Active	Owner type:	Private
Facility id:	002		
Facility name:	WELL 2		
Facility type:	Well	Treatment process:	ion exchange
Treatment objective:	softening (hardness removal)		
Contact name:	GENERAL MANAGER, RAMADA INN		
Original name:	TRAVEL LODGE		
Contact phone:	814-825-3100	Contact address1:	6101 WATTSBURG ROAD
Contact address2:	Not Reported	Contact city:	ERIE
Contact zip:	16509		

Pwsid:	PA6250392	Epa region:	03
State:	PA	County:	Erie
Pws name:	TRAVEL LODGE		
Population Served:	40	Pwssvcconn:	1
PWS Source:	Groundwater		
Pws type:	NTNCWS		
Status:	Active	Owner type:	Private
Facility id:	100		
Facility name:	RAMADA INN		
Facility type:	Sampling_station	Treatment process:	ion exchange
Treatment objective:	softening (hardness removal)		
Contact name:	GENERAL MANAGER, RAMADA INN		
Original name:	TRAVEL LODGE		
Contact phone:	814-825-3100	Contact address1:	6101 WATTSBURG ROAD
Contact address2:	Not Reported	Contact city:	ERIE
Contact zip:	16509		

Pwsid:	PA6250392	Epa region:	03
State:	PA	County:	Erie
Pws name:	TRAVEL LODGE		
Population Served:	40	Pwssvcconn:	1
PWS Source:	Groundwater		
Pws type:	NTNCWS		
Status:	Active	Owner type:	Private
Facility id:	300		
Facility name:	PUMPHOUSE		
Facility type:	Treatment_plant	Treatment process:	ion exchange
Treatment objective:	softening (hardness removal)		
Contact name:	GENERAL MANAGER, RAMADA INN		
Original name:	TRAVEL LODGE		
Contact phone:	814-825-3100	Contact address1:	6101 WATTSBURG ROAD
Contact address2:	Not Reported	Contact city:	ERIE
Contact zip:	16509		

Addressee / Facility: Mailing
RAMADA INN
CARMEN FIERO
6101 WATTSBURG ROAD
ERIE, PA 16509

Facility Latitude:	42 05 36	Facility Longitude:	080 00 12
Facility Latitude:	42 04 37	Facility Longitude:	080 00 13
Facility Latitude:	42 07 45	Facility Longitude:	080 05 07
City Served:	Not Reported		
Treatment Class:	Mixed (treated and untreated)	Population:	00000040

PWS currently has or had major violation(s) or enforcement: YES

VIOLATIONS INFORMATION:

Violation ID:	9305966	Source ID:	Not Reported	PWS Phone:	8148253100
Vio. beginning Date:	12/01/92	Vio. end Date:	12/31/92	Vio. Period:	001 Months
Num required Samples:	Not Reported	Number of Samples Taken:		Not Reported	
Analysis Result:	Not Reported	Maximum Contaminant Level:		Not Reported	
Analysis Method:	Not Reported				
Violation Type:	Monitoring, Routine Major (TCR)				
Contaminant:	COLIFORM (TCR)				
Vio. Awareness Date:	Not Reported				

ENFORCEMENT INFORMATION:

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0118783	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	1/1/2000 0:00:00		
Complperen:	12/31/2000 0:00:00	Enfdate:	9/1/2001 0:00:00
Enf action:	0		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0118783	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	1/1/2000 0:00:00		
Complperen:	12/31/2000 0:00:00	Enfdate:	8/16/2001 0:00:00
Enf action:	0		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0215920	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	1/1/2002 0:00:00		
Complperen:	3/31/2002 0:00:00	Enfdate:	3/6/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309916	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	12/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309916	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	12/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309916	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	12/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/8/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309917	Contaminant:	1,2,4-TRICHLOROBENZENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309917	Contaminant:	1,2,4-TRICHLOROBENZENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309917	Contaminant:	1,2,4-TRICHLOROBENZENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/8/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309918	Contaminant:	CIS-1,2-DICHLOROETHYLENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309918	Contaminant:	CIS-1,2-DICHLOROETHYLENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309918	Contaminant:	CIS-1,2-DICHLOROETHYLENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/8/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309919	Contaminant:	XYLENES, TOTAL
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309919	Contaminant:	XYLENES, TOTAL
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309919	Contaminant:	XYLENES, TOTAL
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/8/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309920	Contaminant:	METHYLENE CHLORIDE (DICHLOROMETHANE)
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309920	Contaminant:	METHYLENE CHLORIDE (DICHLOROMETHANE)
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309920	Contaminant:	METHYLENE CHLORIDE (DICHLOROMETHANE)
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/8/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309921	Contaminant:	O-DICHLOROBENZENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309921	Contaminant:	O-DICHLOROBENZENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309921	Contaminant:	O-DICHLOROBENZENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/8/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309922	Contaminant:	P-DICHLOROBENZENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309922	Contaminant:	P-DICHLOROBENZENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309922	Contaminant:	P-DICHLOROBENZENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/8/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309923	Contaminant:	1,1-DICHLOROETHYLENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309923	Contaminant:	1,1-DICHLOROETHYLENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309923	Contaminant:	1,1-DICHLOROETHYLENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/8/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309924	Contaminant:	TRANS-1,2-DICHLOROETHYLENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309924	Contaminant:	TRANS-1,2-DICHLOROETHYLENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309924	Contaminant:	TRANS-1,2-DICHLOROETHYLENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/8/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309925	Contaminant:	1,2-DICHLOROETHANE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309925	Contaminant:	1,2-DICHLOROETHANE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309925	Contaminant:	1,2-DICHLOROETHANE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/8/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309926	Contaminant:	1,1,1-TRICHLOROETHANE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309926	Contaminant:	1,1,1-TRICHLOROETHANE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309926	Contaminant:	1,1,1-TRICHLOROETHANE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/8/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309927	Contaminant:	CARBON TETRACHLORIDE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309927	Contaminant:	CARBON TETRACHLORIDE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309927	Contaminant:	CARBON TETRACHLORIDE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/8/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309928	Contaminant:	1,2-DICHLOROPROPANE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309928	Contaminant:	1,2-DICHLOROPROPANE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309928	Contaminant:	1,2-DICHLOROPROPANE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/8/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309929	Contaminant:	TRICHLOROETHYLENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309929	Contaminant:	TRICHLOROETHYLENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309929	Contaminant:	TRICHLOROETHYLENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/8/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309930	Contaminant:	1,1,2-TRICHLOROETHANE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309930	Contaminant:	1,1,2-TRICHLOROETHANE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309930	Contaminant:	1,1,2-TRICHLOROETHANE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/8/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309931	Contaminant:	TETRACHLOROETHYLENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309931	Contaminant:	TETRACHLOROETHYLENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309931	Contaminant:	TETRACHLOROETHYLENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/8/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309932	Contaminant:	MONOCHLOROBENZENE (CHLOROBENZENE)
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309932	Contaminant:	MONOCHLOROBENZENE (CHLOROBENZENE)
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309932	Contaminant:	MONOCHLOROBENZENE (CHLOROBENZENE)
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/8/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309933	Contaminant:	BENZENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309933	Contaminant:	BENZENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309933	Contaminant:	BENZENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/8/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309934	Contaminant:	TOLUENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309934	Contaminant:	TOLUENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309934	Contaminant:	TOLUENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/8/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309935	Contaminant:	ETHYLBENZENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309935	Contaminant:	ETHYLBENZENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309935	Contaminant:	ETHYLBENZENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/8/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309936	Contaminant:	STYRENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309936	Contaminant:	STYRENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/30/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0309936	Contaminant:	STYRENE
Viol. Type:	3		
Complperbe:	1/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	4/8/2003 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0431209	Contaminant:	0999
Viol. Type:	Monitoring and Reporting Stage 1		
Complperbe:	1/1/2004 0:00:00		
Complperen:	3/31/2004 0:00:00	Enfdate:	2/1/2005 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0431209	Contaminant:	0999
Viol. Type:	Monitoring and Reporting Stage 1		
Complperbe:	1/1/2004 0:00:00		
Complperen:	3/31/2004 0:00:00	Enfdate:	2/1/2005 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0539880	Contaminant:	0999
Viol. Type:	Monitoring and Reporting Stage 1		
Complperbe:	7/1/2005 0:00:00		
Complperen:	9/30/2005 0:00:00	Enfdate:	11/29/2005 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0539880	Contaminant:	0999
Viol. Type:	Monitoring and Reporting Stage 1		
Complperbe:	7/1/2005 0:00:00		
Complperen:	9/30/2005 0:00:00	Enfdate:	11/29/2005 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0730013	Contaminant:	0999
Viol. Type:	Monitoring and Reporting Stage 1		
Complperbe:	7/1/2007 0:00:00		
Complperen:	9/30/2007 0:00:00	Enfdate:	12/6/2007 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0730013	Contaminant:	0999
Viol. Type:	Monitoring and Reporting Stage 1		
Complperbe:	7/1/2007 0:00:00		
Complperen:	9/30/2007 0:00:00	Enfdate:	12/6/2007 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

Truedate:	03/31/2008	Pwsid:	PA6250392
Pwsname:	TRAVEL LODGE		
Retpopsrvd:	40	Pwstypecod:	NTNC
Vioid:	0730013	Contaminant:	0999
Viol. Type:	Monitoring and Reporting Stage 1		
Complperbe:	7/1/2007 0:00:00		
Complperen:	9/30/2007 0:00:00	Enfdate:	12/6/2007 0:00:00
Enf action:	Not Reported		
Violmeasur:	Not Reported		

System Name:	TRAVEL LODGE		
Violation Type:	3		
Contaminant:	NITRATE		
Compliance Period:	1/1/2000 0:00:00 - 12/31/2000 0:00:00		
Violation ID:	0118783		
Enforcement Date:	8/16/2001 0:00:00	Enf. Action:	State Formal NOV Issued

System Name:	TRAVEL LODGE		
Violation Type:	3		
Contaminant:	NITRATE		
Compliance Period:	1/1/2000 0:00:00 - 12/31/2000 0:00:00		
Violation ID:	0118783		
Enforcement Date:	9/1/2001 0:00:00	Enf. Action:	State Compliance Achieved

System Name:	TRAVEL LODGE		
Violation Type:	3		
Contaminant:	NITRATE		
Compliance Period:	1/1/2000 0:00:00 - 12/31/2000 0:00:00		
Violation ID:	0118783		
Enforcement Date:	8/16/2001 0:00:00	Enf. Action:	State Formal NOV Issued

System Name:	TRAVEL LODGE		
Violation Type:	3		
Contaminant:	NITRATE		
Compliance Period:	1/1/2000 0:00:00 - 12/31/2000 0:00:00		
Violation ID:	0118783		
Enforcement Date:	9/1/2001 0:00:00	Enf. Action:	State Compliance Achieved

System Name:	TRAVEL LODGE		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1/1/2002 0:00:00 - 3/31/2002 0:00:00		
Violation ID:	0215920		
Enforcement Date:	3/6/2003 0:00:00	Enf. Action:	State Compliance Achieved

System Name:	TRAVEL LODGE		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1/1/2002 0:00:00 - 3/31/2002 0:00:00		
Violation ID:	0215920		
Enforcement Date:	3/6/2003 0:00:00	Enf. Action:	State Compliance Achieved

System Name:	TRAVEL LODGE		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	12/1/2002 0:00:00 - 12/31/2002 0:00:00		
Violation ID:	0309916		
Enforcement Date:	4/8/2003 0:00:00	Enf. Action:	State Violation/Reminder Notice

ENFORCEMENT INFORMATION:

System Name:	TRAVEL LODGE		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	12/1/2002 0:00:00 - 12/31/2002 0:00:00		
Violation ID:	0309916		
Enforcement Date:	4/30/2003 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	TRAVEL LODGE		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	12/1/2002 0:00:00 - 12/31/2002 0:00:00		
Violation ID:	0309916		
Enforcement Date:	4/30/2003 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	TRAVEL LODGE		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	12/1/2002 0:00:00 - 12/31/2002 0:00:00		
Violation ID:	0309916		
Enforcement Date:	4/8/2003 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	TRAVEL LODGE		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	12/1/2002 0:00:00 - 12/31/2002 0:00:00		
Violation ID:	0309916		
Enforcement Date:	4/30/2003 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	TRAVEL LODGE		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	12/1/2002 0:00:00 - 12/31/2002 0:00:00		
Violation ID:	0309916		
Enforcement Date:	4/30/2003 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	TRAVEL LODGE		
Violation Type:	3		
Contaminant:	1,2,4-TRICHLOROBENZENE		
Compliance Period:	1/1/2002 0:00:00 - 12/31/2002 0:00:00		
Violation ID:	0309917		
Enforcement Date:	4/8/2003 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	TRAVEL LODGE		
Violation Type:	3		
Contaminant:	1,2,4-TRICHLOROBENZENE		
Compliance Period:	1/1/2002 0:00:00 - 12/31/2002 0:00:00		
Violation ID:	0309917		
Enforcement Date:	4/30/2003 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	TRAVEL LODGE		
Violation Type:	3		
Contaminant:	1,2,4-TRICHLOROBENZENE		
Compliance Period:	1/1/2002 0:00:00 - 12/31/2002 0:00:00		
Violation ID:	0309917		
Enforcement Date:	4/30/2003 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	TRAVEL LODGE		
Violation Type:	3		
Contaminant:	1,2,4-TRICHLOROBENZENE		
Compliance Period:	1/1/2002 0:00:00 - 12/31/2002 0:00:00		
Violation ID:	0309917		
Enforcement Date:	4/30/2003 0:00:00	Enf. Action:	State Violation/Reminder Notice

ENFORCEMENT INFORMATION:

System Name:	TRAVEL LODGE		
Violation Type:	3		
Contaminant:	1,2,4-TRICHLOROBENZENE		
Compliance Period:	1/1/2002 0:00:00 - 12/31/2002 0:00:00		
Violation ID:	0309917		
Enforcement Date:	4/8/2003 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	TRAVEL LODGE		
Violation Type:	3		
Contaminant:	1,2,4-TRICHLOROBENZENE		
Compliance Period:	1/1/2002 0:00:00 - 12/31/2002 0:00:00		
Violation ID:	0309917		
Enforcement Date:	4/30/2003 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	TRAVEL LODGE		
Violation Type:	3		
Contaminant:	CIS-1,2-DICHLOROETHYLENE		
Compliance Period:	1/1/2002 0:00:00 - 12/31/2002 0:00:00		
Violation ID:	0309918		
Enforcement Date:	4/30/2003 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	TRAVEL LODGE		
Violation Type:	3		
Contaminant:	CIS-1,2-DICHLOROETHYLENE		
Compliance Period:	1/1/2002 0:00:00 - 12/31/2002 0:00:00		
Violation ID:	0309918		
Enforcement Date:	4/8/2003 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	TRAVEL LODGE		
Violation Type:	3		
Contaminant:	CIS-1,2-DICHLOROETHYLENE		
Compliance Period:	1/1/2002 0:00:00 - 12/31/2002 0:00:00		
Violation ID:	0309918		
Enforcement Date:	4/8/2003 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	TRAVEL LODGE		
Violation Type:	3		
Contaminant:	CIS-1,2-DICHLOROETHYLENE		
Compliance Period:	1/1/2002 0:00:00 - 12/31/2002 0:00:00		
Violation ID:	0309918		
Enforcement Date:	4/30/2003 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	TRAVEL LODGE		
Violation Type:	3		
Contaminant:	CIS-1,2-DICHLOROETHYLENE		
Compliance Period:	1/1/2002 0:00:00 - 12/31/2002 0:00:00		
Violation ID:	0309918		
Enforcement Date:	4/30/2003 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	TRAVEL LODGE		
Violation Type:	3		
Contaminant:	CIS-1,2-DICHLOROETHYLENE		
Compliance Period:	1/1/2002 0:00:00 - 12/31/2002 0:00:00		
Violation ID:	0309918		
Enforcement Date:	4/30/2003 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	TRAVEL LODGE		
Violation Type:	3		
Contaminant:	XYLENES, TOTAL		
Compliance Period:	1/1/2002 0:00:00 - 12/31/2002 0:00:00		
Violation ID:	0309919		
Enforcement Date:	4/8/2003 0:00:00	Enf. Action:	State Violation/Reminder Notice

ENFORCEMENT INFORMATION:

System Name:	TRAVEL LODGE		
Violation Type:	3		
Contaminant:	XYLENES, TOTAL		
Compliance Period:	1/1/2002 0:00:00 - 12/31/2002 0:00:00		
Violation ID:	0309919		
Enforcement Date:	4/30/2003 0:00:00	Enf. Action:	State Compliance Achieved

System Name:	TRAVEL LODGE		
Violation Type:	3		
Contaminant:	XYLENES, TOTAL		
Compliance Period:	1/1/2002 0:00:00 - 12/31/2002 0:00:00		
Violation ID:	0309919		
Enforcement Date:	4/30/2003 0:00:00	Enf. Action:	State Violation/Reminder Notice

CONTACT INFORMATION:

Name:	TRAVEL LODGE	Population:	40
Contact:	GENERAL MANAGER,	Phone:	814-825-3100
Address:	6101 WATTSBURG ROAD ERIE, PA 16509		

2
SSE **FED USGS** **USGS2273752**
1/2 - 1 Mile
Higher

Agency cd:	USGS	Site no:	420717080051301
Site name:	ER 2506		
Latitude:	420717		
Longitude:	0800513	Dec lat:	42.12138889
Dec lon:	-80.08694444	Coor meth:	G
Coor accr:	S	Latlong datum:	NAD83
Dec latlong datum:	NAD83	District:	42
State:	42	County:	049
Country:	US	Land net:	Not Reported
Location map:	ERIE SOUTH	Map scale:	24000
Altitude:	670		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	North American Vertical Datum of 1988		
Hydrologic:	ChautauquaConneaut. New York, Ohio, Pennsylvania. Area = 874 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	2001
Date inventoried:	20011009	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	NORTHEAST SHALE		
Well depth:	19.34	Hole depth:	19.34
Source of depth data:	reporting agency (generally USGS)		
Project number:	444233300		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Peak flow data count: 0
Water quality data end date: 2001-10-09
Ground water data begin date: 2001-10-09
Ground water data count: 1

Water quality data begin date: 2001-10-09
Water quality data count: 1
Ground water data end date: 2001-10-09

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
2001-10-09	5.88	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: PA Radon

Test Result Statistics

Zip	Total Sites	Min pCi/L	Max pCi/L	Avg pCi/L
16507	56	.2	10.6	1.9

EPA Region 3 Statistical Summary Readings for Zip Code: 16507

Number of sites tested: 21.

Maximum Radon Level: 19.7 pCi/L.
Minimum Radon Level: 0.5 pCi/L.

pCi/L <4	pCi/L 4-10	pCi/L 10-20	pCi/L 20-50	pCi/L 50-100	pCi/L >100
16 (76.19%)	3 (14.29%)	2 (9.52%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

Federal EPA Radon Zone for ERIE County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Pennsylvania Public Water Supply Wells
Source: Pennsylvania Department of Environmental Resources Bureau of Water Supply
Telephone: 717-787-5017

Pennsylvania Groundwater Information System
Source: Department of Conservation and Natural Resources
Telephone: 717-702-2045

OTHER STATE DATABASE INFORMATION

RADON

State Database: PA Radon
Source: Department of Environmental Protection
Telephone: 717-783-3594
Radon Test Results Statistics by Zip Code

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

EPA Region 3 Statistical Summary Readings
Source: Region 3 EPA
Telephone: 215-814-2082
Radon readings for Delaware, D.C., Maryland, Pennsylvania, Virginia and West Virginia.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

APPENDIX C

EDR CITY DIRECTORY ABSTRACT

The EDR-City Directory
Abstract

GAF Site
218 West Bayfront Parkway
Erie, PA 16507

Inquiry Number: 1917818.6

Monday, May 07, 2007

EDR® Environmental Data Resources Inc

The Standard in Environmental Risk Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR City Directory Abstract

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening report designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

SUMMARY

- ***City Directories:***

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1961 through 2005. (These years are not necessarily inclusive.) A summary of the information obtained is provided in the text of this report.

Date EDR Searched Historical Sources: May 7, 2007

Target Property:
218 West Bayfront Parkway
Erie, PA 16507

Year	Uses	Source
1961	Street Not Listed in Research Source	Polk's City Directory
1966	Street Not Listed in Research Source	Polk's City Directory
1970	Street Not Listed in Research Source	Polk's City Directory
1975	Street Not Listed in Research Source	Polk's City Directory
1980	Street Not Listed in Research Source	Polk's City Directory
1985	Street Not Listed in Research Source	Polk's City Directory
1990	Street Not Listed in Research Source	Polk's City Directory
1995	Street Not Listed in Research Source	Polk's City Directory
2000	GAF Building Materials Corp	Polk's City Directory
2005	GAF Building Materials Corp	Polk's City Directory

Adjoining Properties

SURROUNDING

Multiple Addresses
Erie, PA 16507

Year	Uses	Source
1961	Street Not Listed in Research Source	Polk's City Directory
1966	Street Not Listed in Research Source	Polk's City Directory
1970	Street Not Listed in Research Source	Polk's City Directory
1975	Street Not Listed in Research Source	Polk's City Directory
1980	Street Not Listed in Research Source	Polk's City Directory
1985	Street Not Listed in Research Source	Polk's City Directory
1990	Street Not Listed in Research Source	Polk's City Directory
1995	Street Not Listed in Research Source	Polk's City Directory

Year	***Uses***	***Source***
2000	****West Bayfront Parkway****	Polk's City Directory
	Barton Malow Co (340)	Polk's City Directory
	Erie City Water Authority (340)	Polk's City Directory
	No other addresses in 100-399 range	Polk's City Directory
2005	****West Bayfront Parkway****	Polk's City Directory
	Barton Malow Co (340)	Polk's City Directory
	Erie City Water Authority (340)	Polk's City Directory
	No other addresses in 100-399 range	Polk's City Directory

APPENDIX D

EDR AERIAL PHOTOGRAPH "NO COVERAGE" REPORT

The EDR Aerial Photo Decade Package

GAF Site
218 West Bayfront Parkway
Erie, PA 16507

Inquiry Number: 1917818.5

May 02, 2007

EDR® Environmental Data Resources Inc

The Standard in Environmental Risk Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDRs professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

This document reports that EDR searched its own collection or select outside repository collections of aerial photography, and based on client-supplied target property information, aerial photography, including the target property was not deemed reasonably ascertainable by Environmental Data Resources, Inc. (EDR). This no coverage determination reflects a search only of aerial photography repository collections that EDR accessed. It can not be concluded from this search that no coverage for the target property exists anywhere, in any collection.

NO COVERAGE

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

APPENDIX E

EDR HISTORIC TOPOGRAPHIC MAP REPORT

EDR Historical Topographic Map Report

GAF Site
218 West Bayfront Parkway
Erie, PA 16507

Inquiry Number: 1917818.4

May 03, 2007

EDR® Environmental Data Resources Inc

The Standard in Environmental Risk Information

440 Wheelers Farms Rd
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR Historical Topographic Map Report

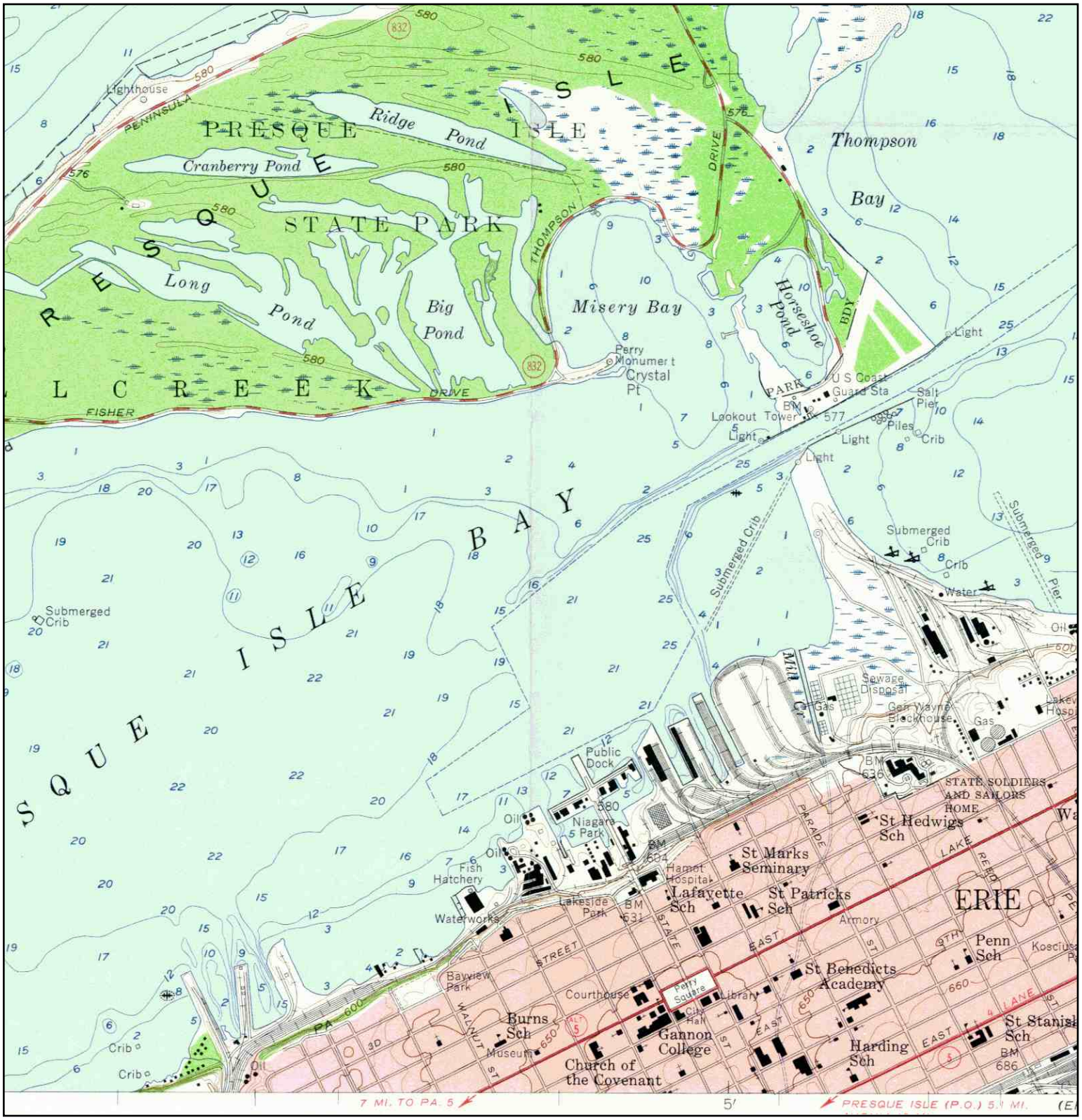
Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Historical Topographic Map

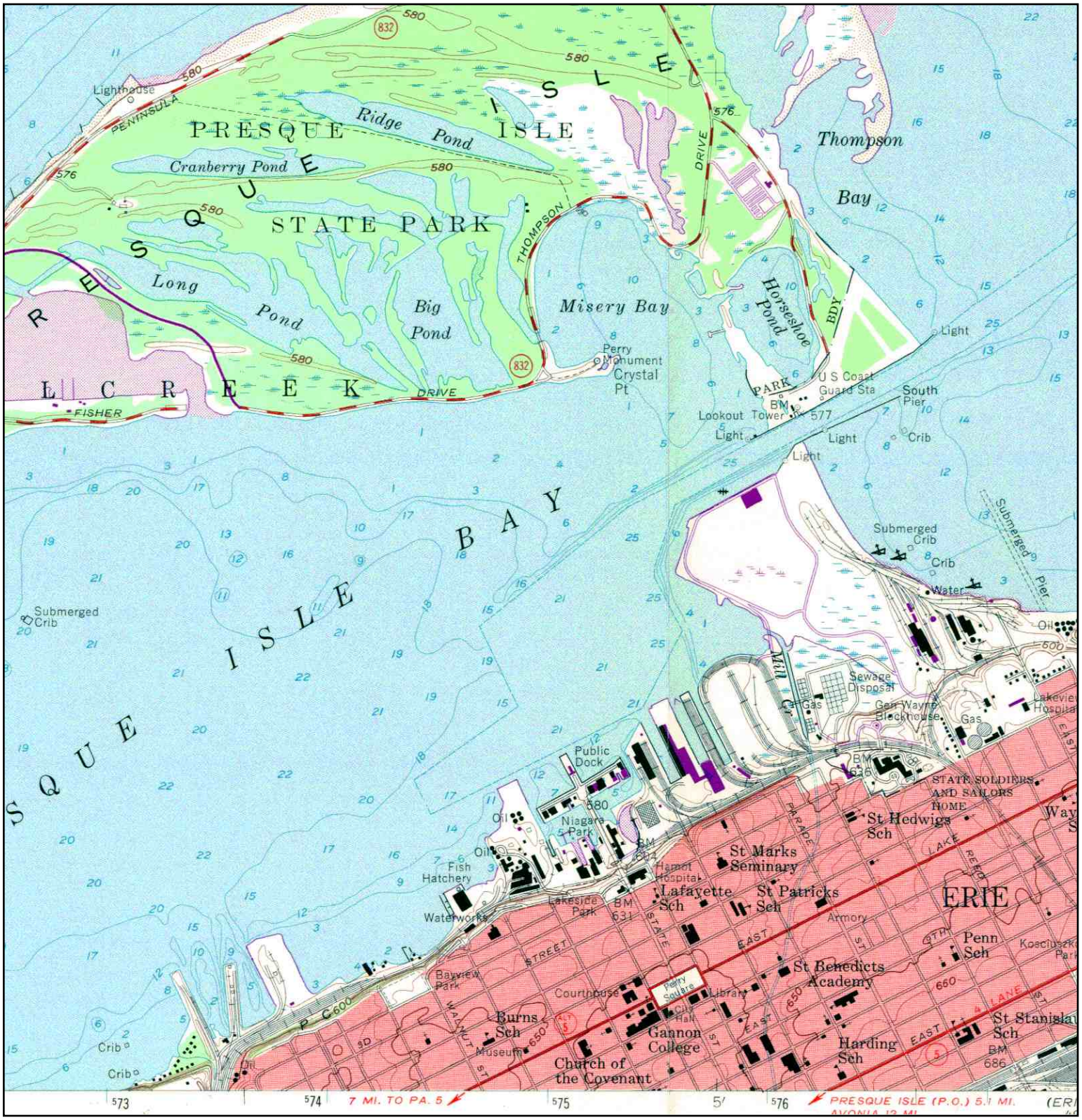
N	TARGET QUAD NAME: ERIE MAP YEAR: 1899 SERIES: 15 SCALE: 1:62500	SITE NAME: GAF Site ADDRESS: 218 West Bayfront Parkway Erie, PA 16507 LAT/LONG: 42.1336 / 80.0933	CLIENT: MACTEC, Inc. CONTACT: Pat Pontoriero INQUIRY#: 1917818.4 RESEARCH DATE: 05/03/2007

Historical Topographic Map



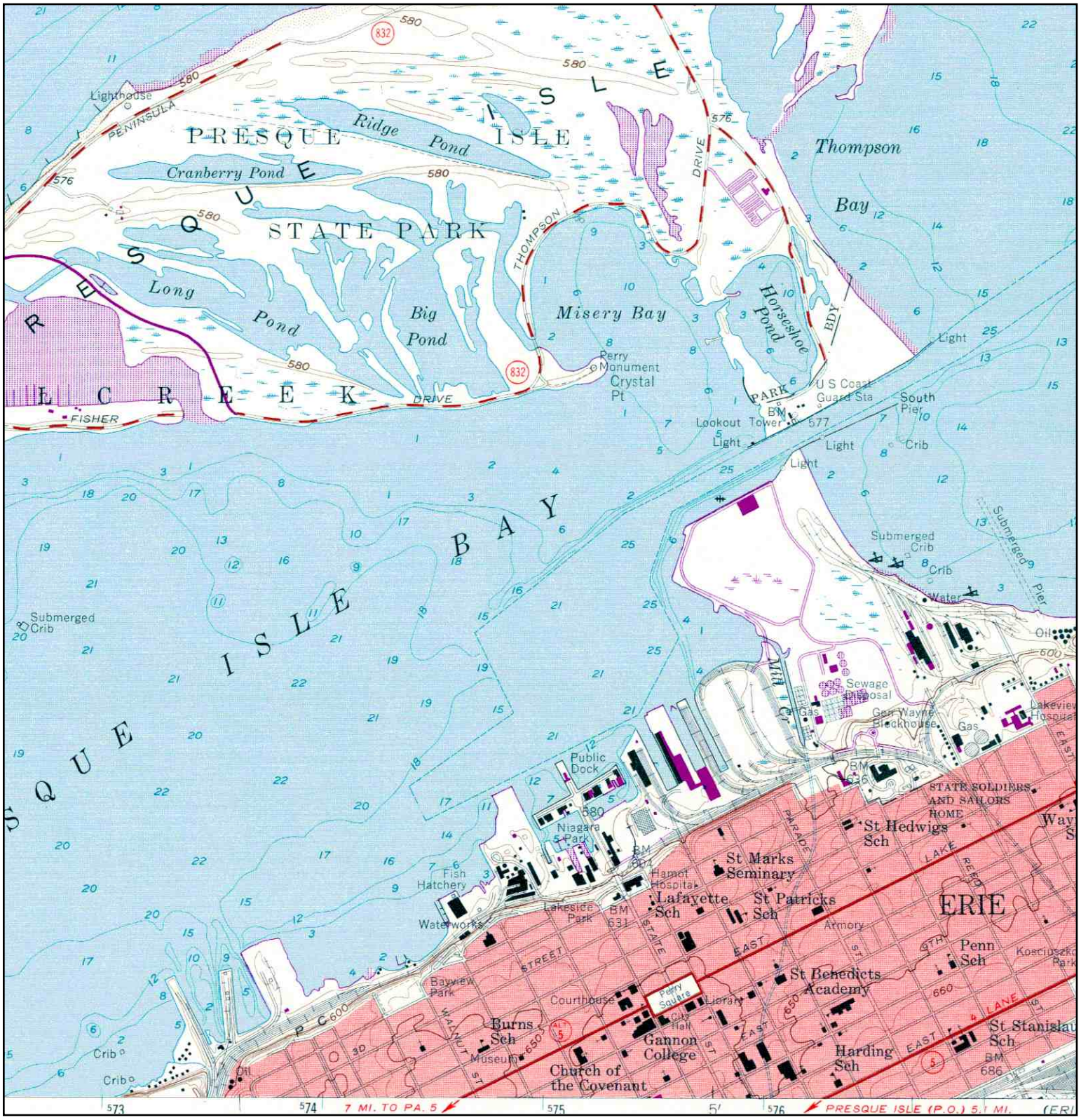
N	TARGET QUAD NAME: ERIE NORTH MAP YEAR: 1957 SERIES: 7.5 SCALE: 1:24000	SITE NAME: GAF Site ADDRESS: 218 West Bayfront Parkway Erie, PA 16507 LAT/LONG: 42.1336 / 80.0933	CLIENT: MACTEC, Inc. CONTACT: Pat Pontoriero INQUIRY#: 1917818.4 RESEARCH DATE: 05/03/2007

Historical Topographic Map



N	TARGET QUAD NAME: ERIE NORTH MAP YEAR: 1969 PHOTOREVISED FROM:1957 SERIES: 7.5 SCALE: 1:24000	SITE NAME: GAF Site ADDRESS: 218 West Bayfront Parkway Erie, PA 16507 LAT/LONG: 42.1336 / 80.0933	CLIENT: MACTEC, Inc. CONTACT: Pat Pontoriero INQUIRY#: 1917818.4 RESEARCH DATE: 05/03/2007

Historical Topographic Map

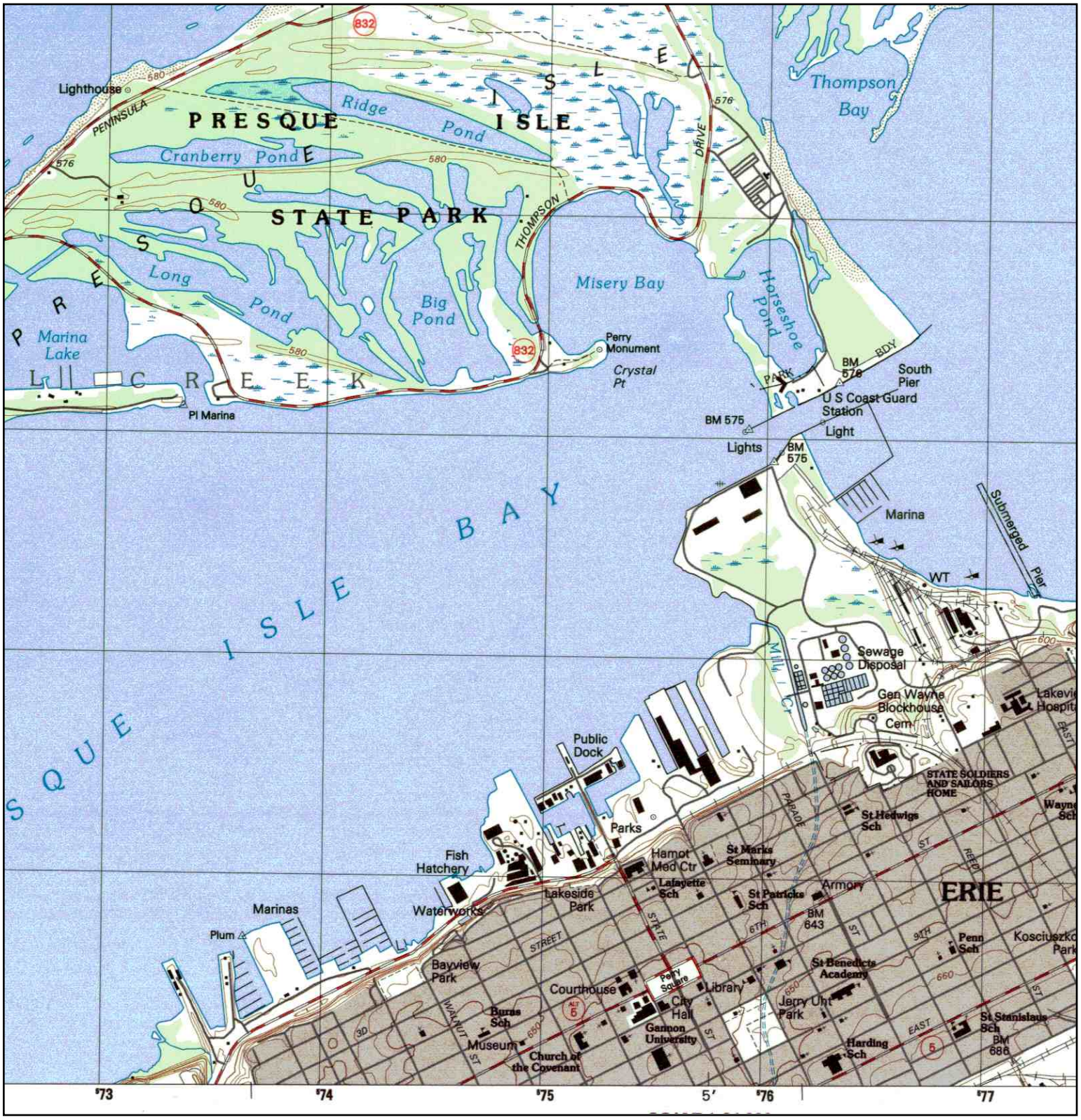


N	TARGET QUAD NAME: ERIE NORTH MAP YEAR: 1975 PHOTOREVISED FROM:1957 SERIES: 7.5 SCALE: 1:24000	SITE NAME: GAF Site ADDRESS: 218 West Bayfront Parkway Erie, PA 16507 LAT/LONG: 42.1336 / 80.0933	CLIENT: MACTEC, Inc. CONTACT: Pat Pontoriero INQUIRY#: 1917818.4 RESEARCH DATE: 05/03/2007

Historical Topographic Map

N	TARGET QUAD NAME: ERIE NORTH MAP YEAR: 1977 PHOTOINSPECTED FROM: 1957 SERIES: 7.5 SCALE: 1:24000	SITE NAME: GAF Site ADDRESS: 218 West Bayfront Parkway Erie, PA 16507 LAT/LONG: 42.1336 / 80.0933	CLIENT: MACTEC, Inc. CONTACT: Pat Pontoriero INQUIRY#: 1917818.4 RESEARCH DATE: 05/03/2007

Historical Topographic Map



N	TARGET QUAD NAME: ERIE NORTH MAP YEAR: 1996 SERIES: 7.5 SCALE: 1:24000	SITE NAME: GAF Site ADDRESS: 218 West Bayfront Parkway Erie, PA 16507 LAT/LONG: 42.1336 / 80.0933	CLIENT: MACTEC, Inc. CONTACT: Pat Pontoriero INQUIRY#: 1917818.4 RESEARCH DATE: 05/03/2007

APPENDIX F

EDR SANBORN FIRE INSURANCE MAP REPORT

"Linking Technology with Tradition"®

Sanborn® Map Report

Ship To: Pat Pontoriero
MACTEC, Inc.
700 N. Bell Avenue
Pittsburgh, PA 15106

Order Date: 5/4/2007 **Completion Date:** 5/4/2007
Inquiry #: 1920512.1s
P.O. #: NA
Site Name: GAF Site
Address: 218 West Bayfront Parkway
City/State: Erie, PA 16507
Cross Streets:

Customer Project: GAF
3171565KFG 412-279-6661

Based on client-supplied information, fire insurance maps for the following years were identified

1921 - 2 Maps
1950 - 2 Maps
1951 - 2 Maps
1965 - 2 Maps
1970 - 2 Maps

Limited Permission to Photocopy Total Maps: 10

USER'S GUIDE

This User's Guide provides guidelines for accessing Sanborn Map® images and for transferring them to your Word Processor.

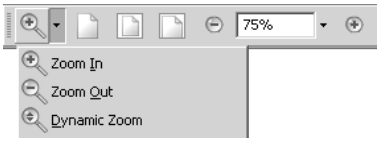
Reading Sanborn Maps

- Sanborn Maps document historical property use by displaying property information through words, abbreviations, and map symbols. The Sanborn Map Key provides information to help interpret the symbols and abbreviations used on Sanborn Maps. The Key is available from EDR's Web Site at: http://www.edrnet.com/reports/samples/key.pdf

Organization of Electronic Sanborn Image File

- Sanborn Map Report, listing years of coverage
- User's Guide
- Oldest Sanborn Map Image
- Most recent Sanborn Map Image

Navigating the Electronic Sanborn Image File

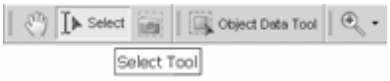


1. Open file on screen.
2. Identify TP (Target Property) on the most recent map.
3. Find TP on older printed images.
4. Using Acrobat® Reader®, zoom to 250% in order to view more clearly. (200-250% is the approximate equivalent scale of hardcopy Sanborn Maps.)
   A. On the menu bar, click "View" and then "Zoom to..."
   B. Or, use the magnifying tool and drag a box around the TP

Printing a Sanborn Map From the Electonic File

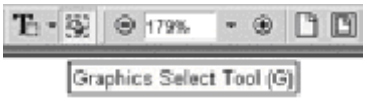
- EDR recommends printing images at 300 dpi (300 dpi prints faster than 600 dpi)
- To print only the TP area, cut and paste from Acrobat to your word processor application.

Acrobat Versions 6 and 7



1. Go to the menu bar
2. Click the "Select Tool"
3. Draw a box around the area selected
4. "Right click" on your mouse
5. Select "Copy Image to Clipboard"
6. Go to Word Processor such as Microsoft Word, paste and print.

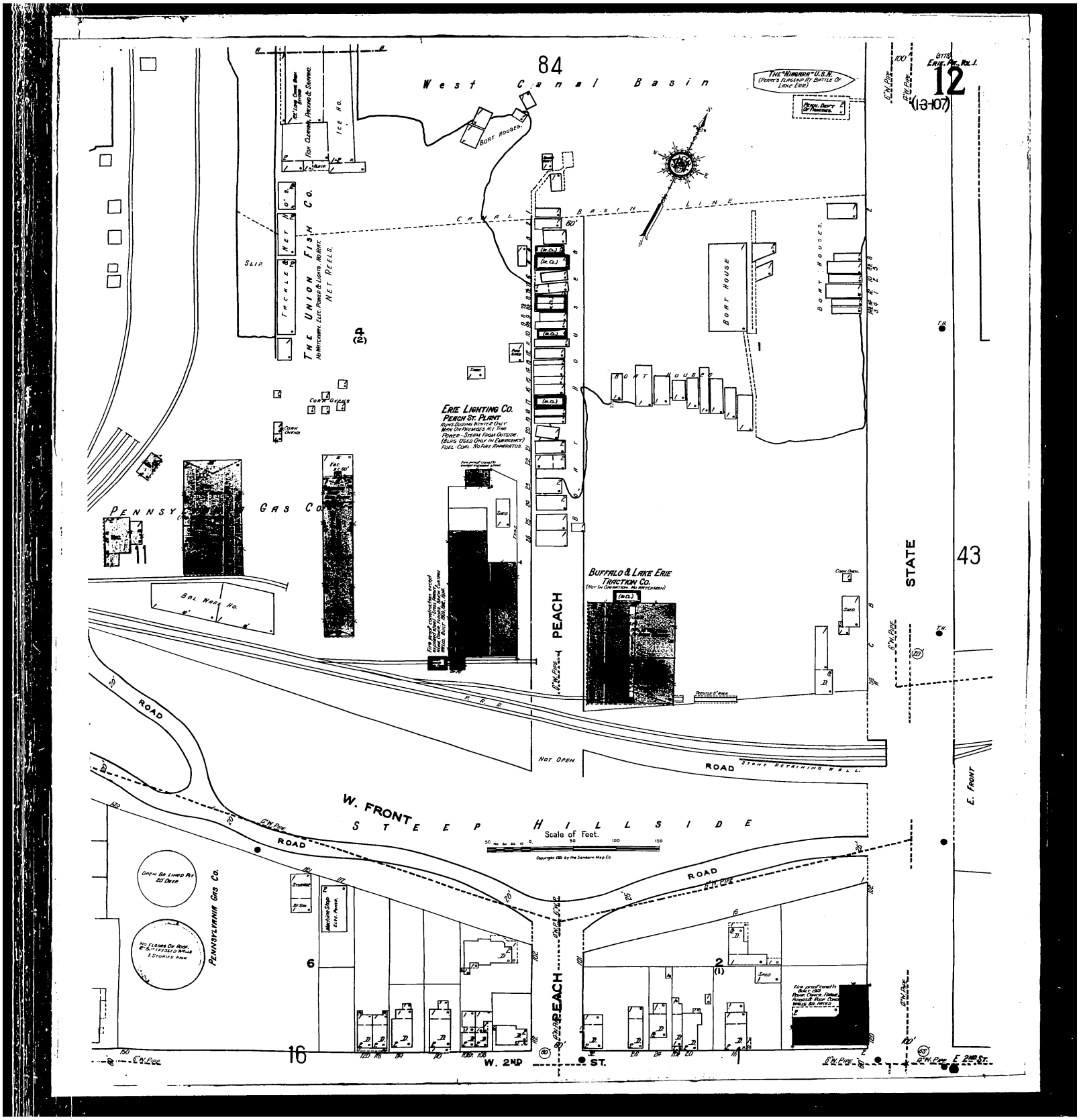
Acrobat Version 5

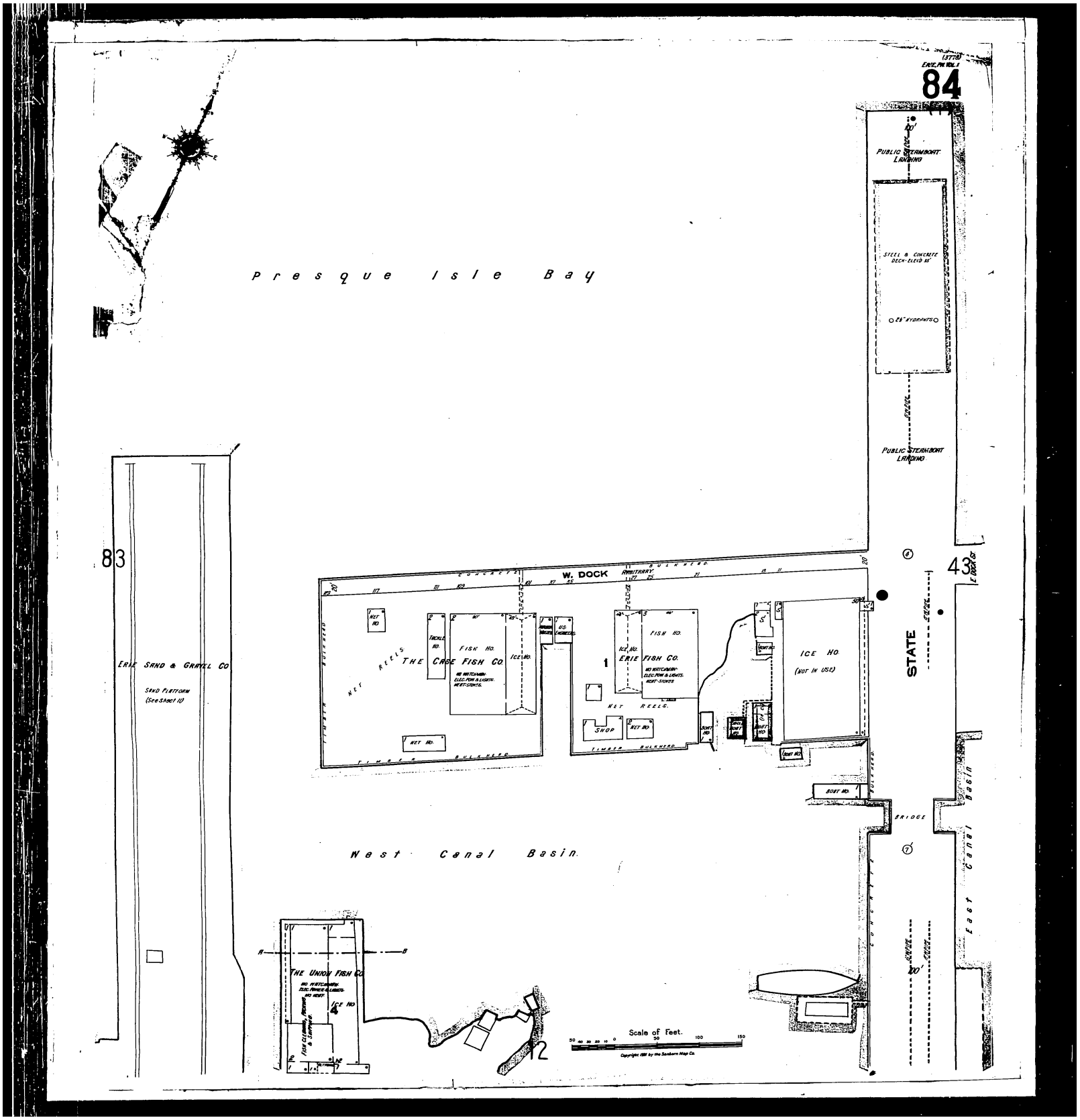


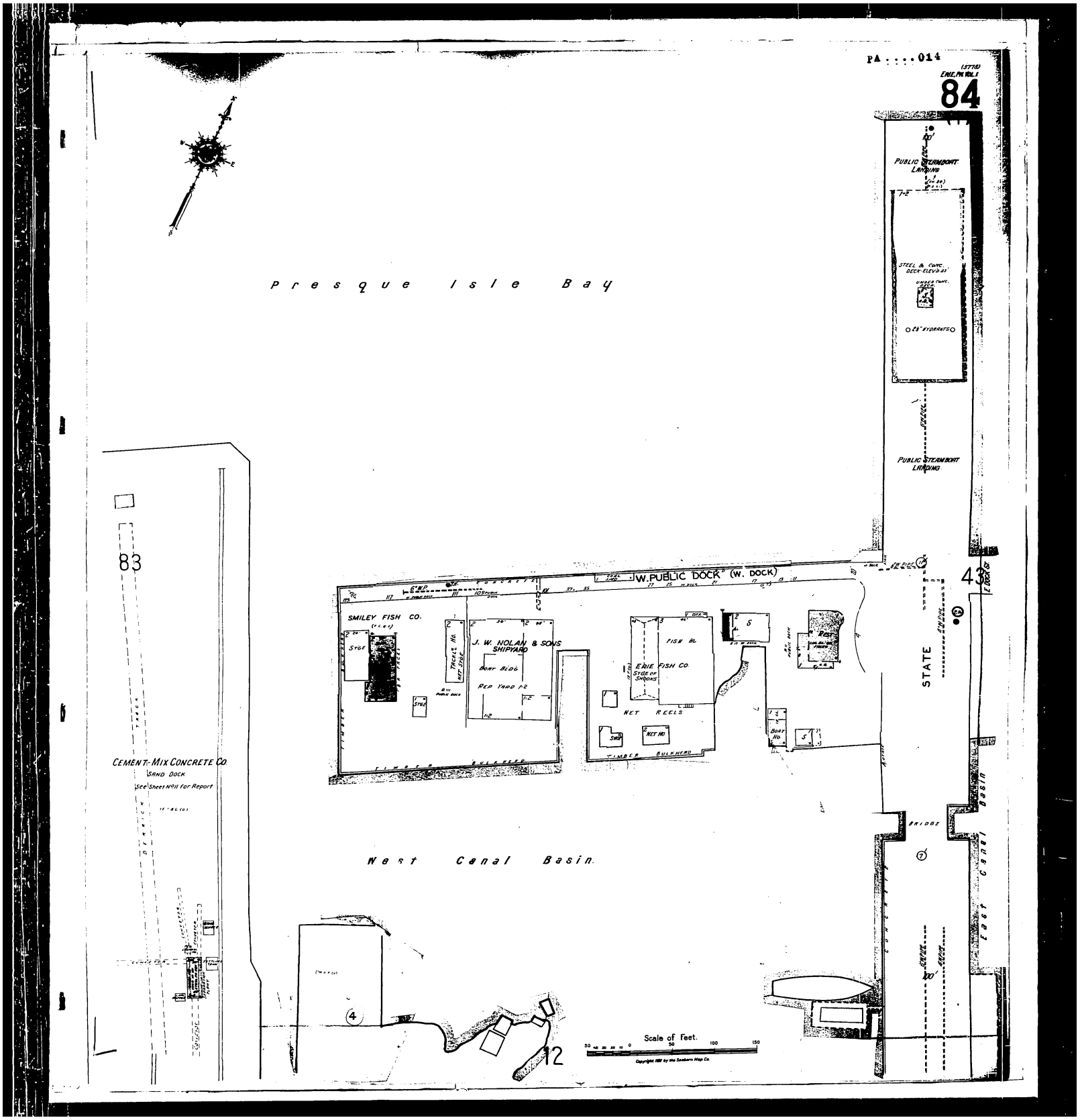
1. Go to the menu bar
2. Click the "Graphics Select Tool"
3. Draw a box around the area selected
4. Go to "Menu"
5. Highlight "Edit"
6. Highlight "Copy"
7. Go to Word Processor such as Microsoft Word, paste and print.

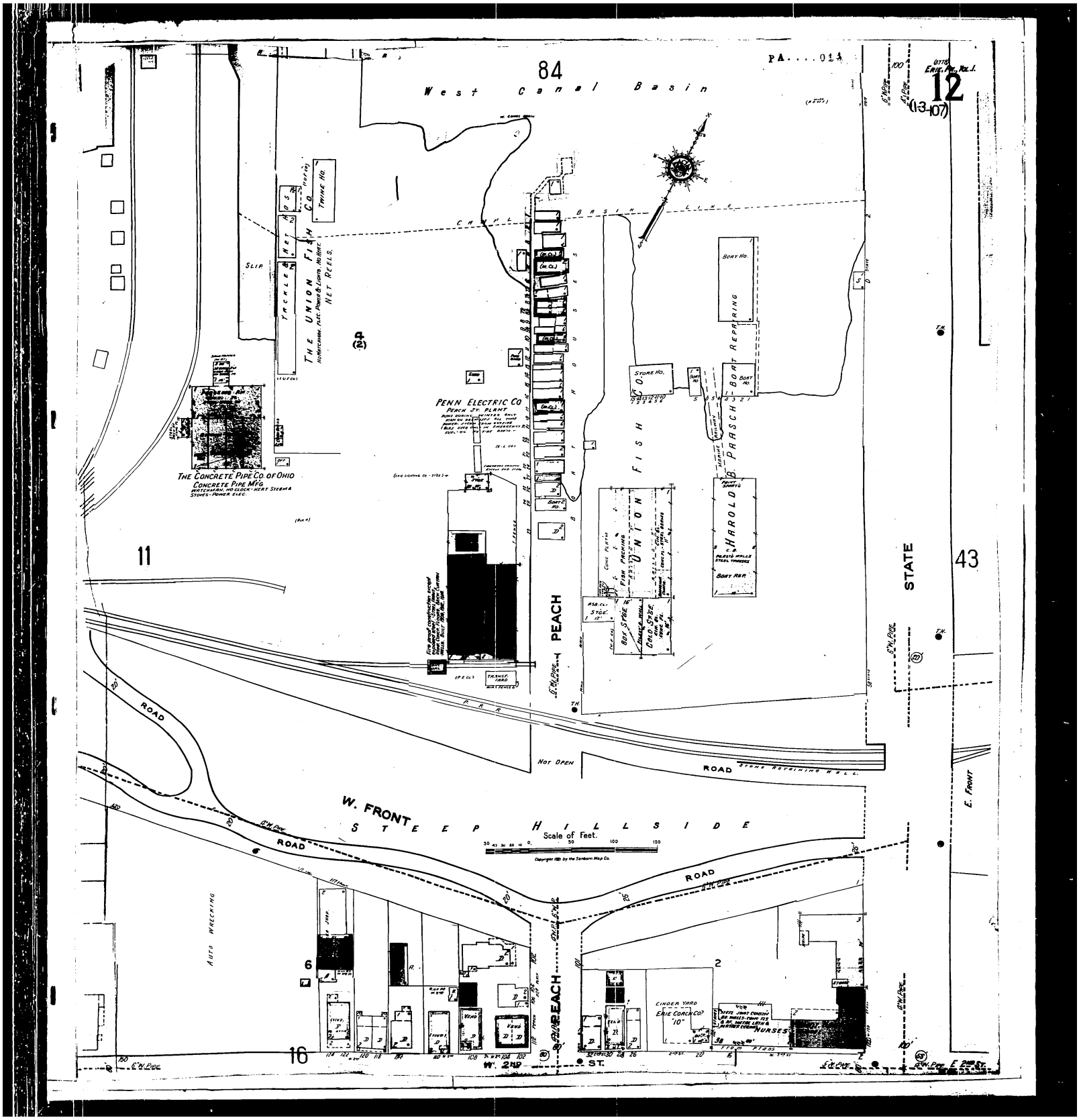
Important Information about Email Delivery of Electronic Sanborn Map Images

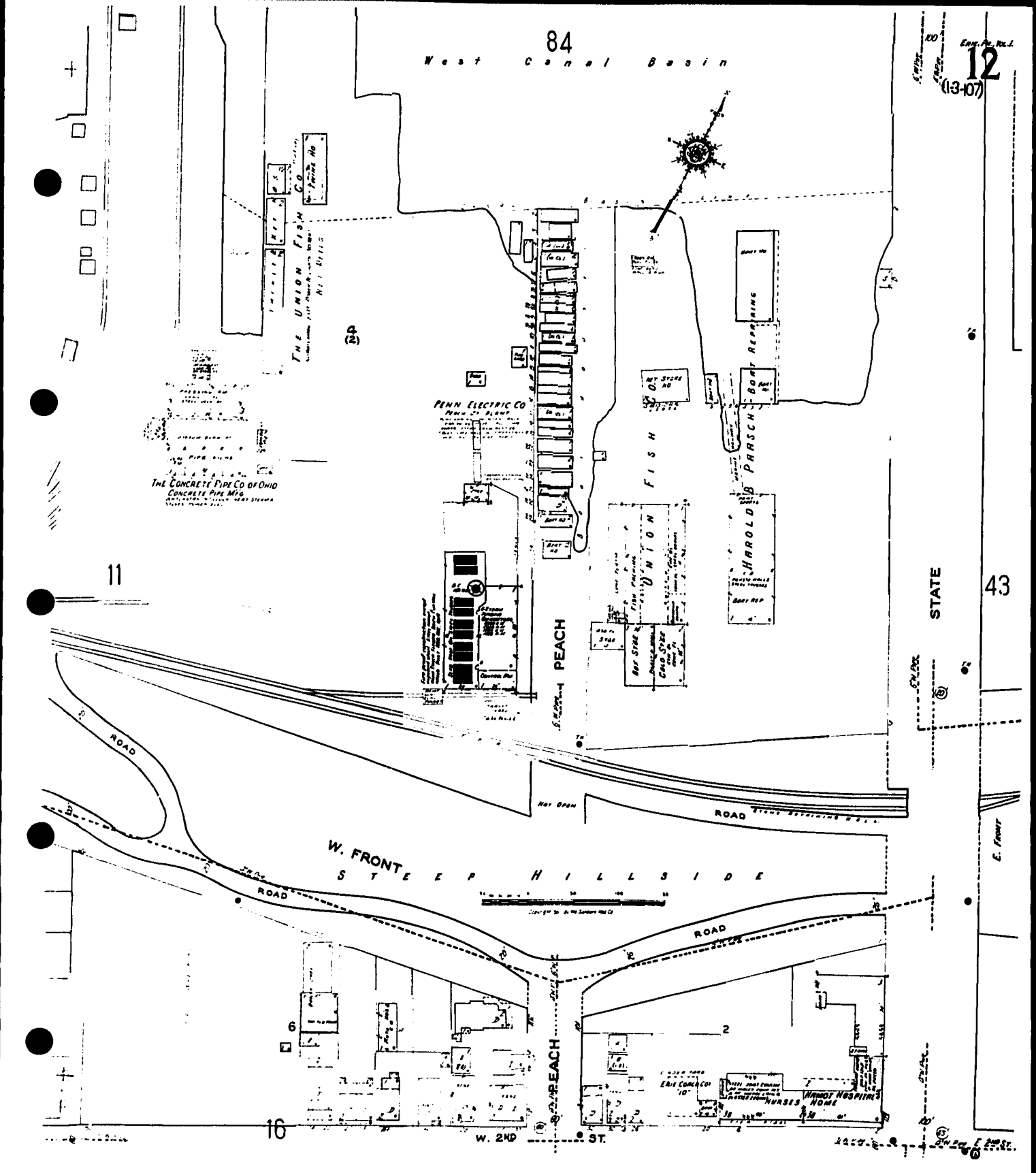
- Images are grouped intro one file, up to 2MB.
- In cases where in excess of 6-7 map years are available, the file size typically exceeds 2MB. In these cases, you will receive multiple files, labeled as "1 of 3", "2 of 3", etc. including all available map years.
- Due to file size limitations, certain ISPs, including AOL, may occasionally delay or decline to deliver files. Please contact your ISP to identify their specific file size limitations.

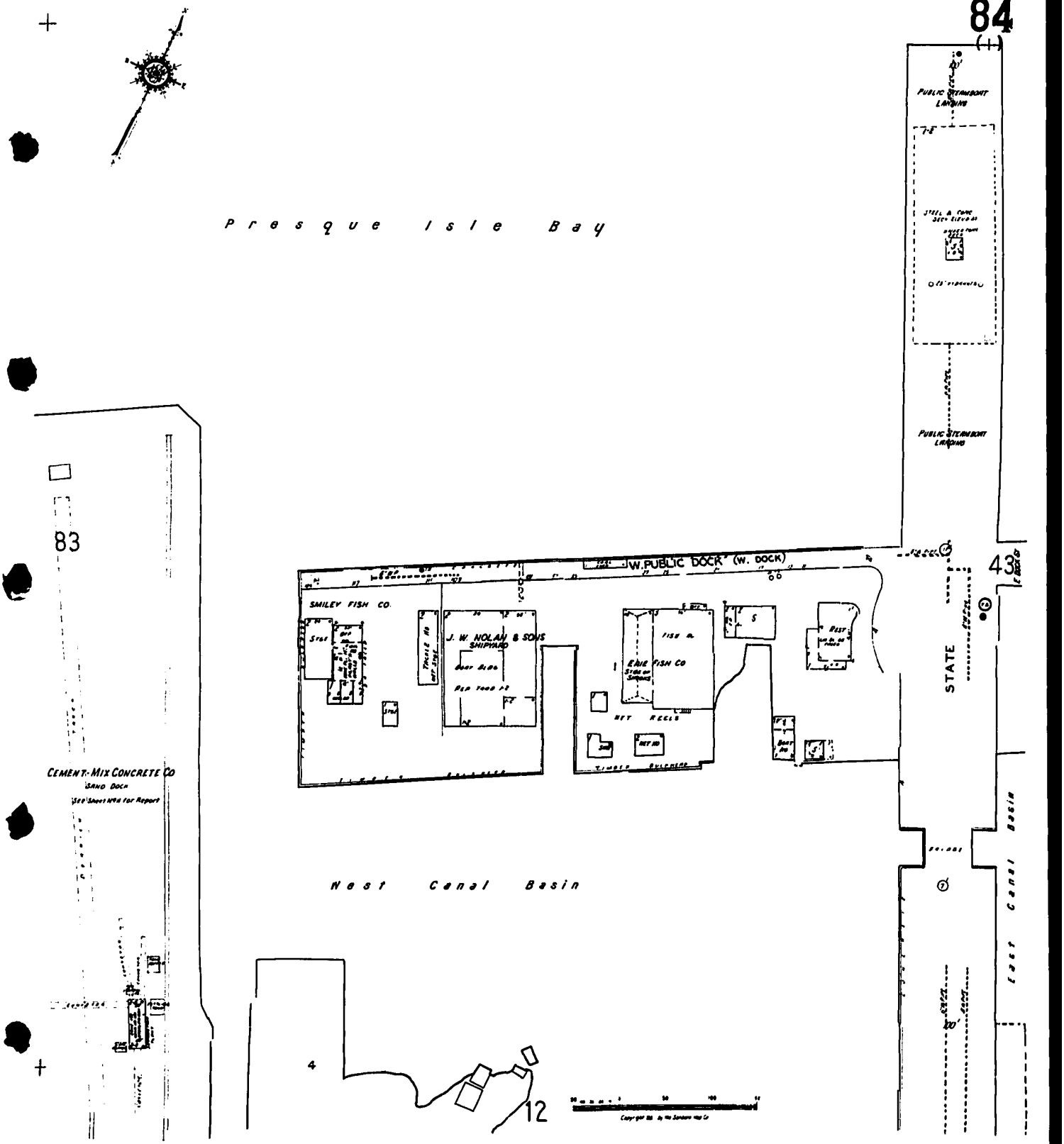


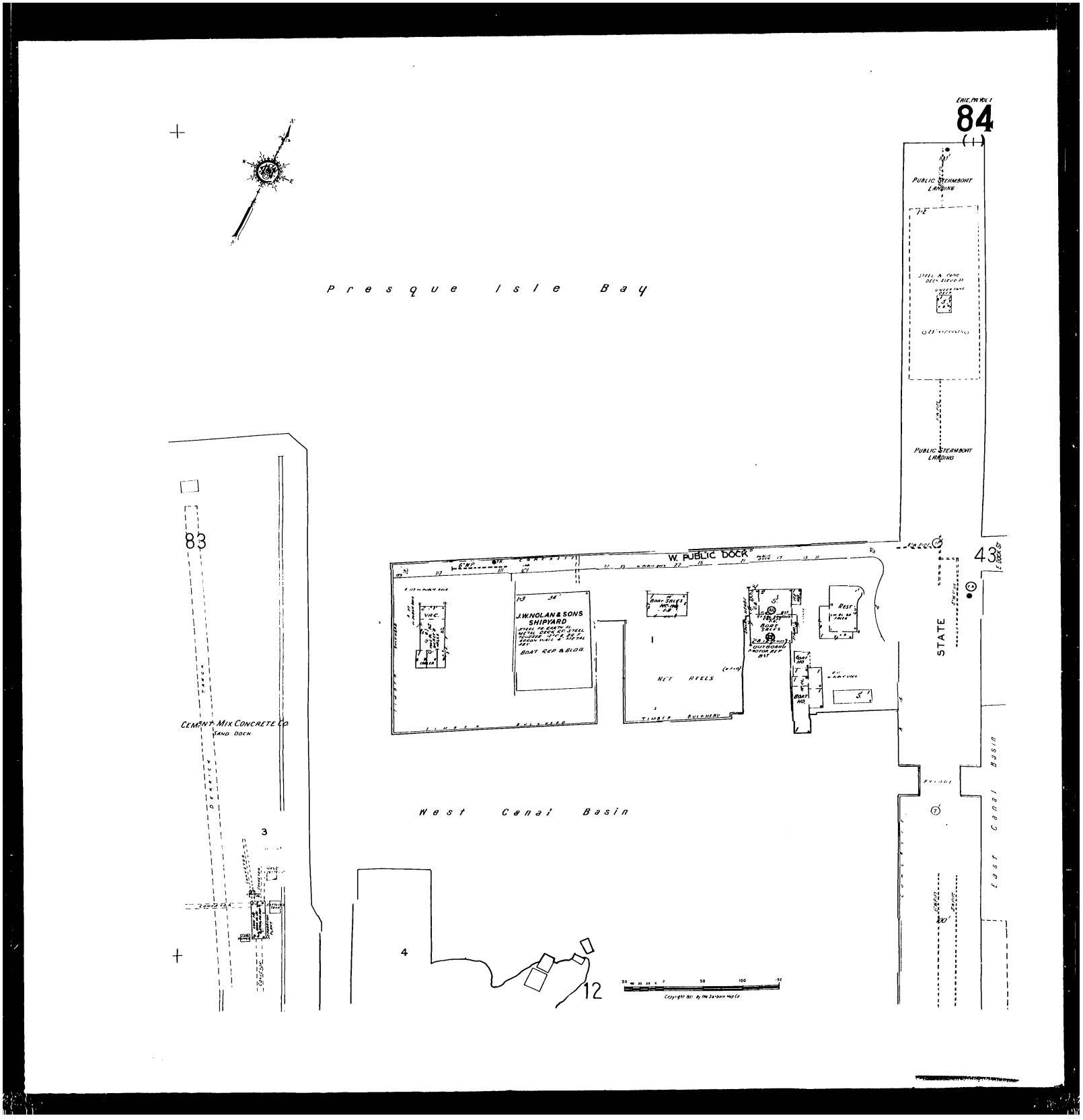


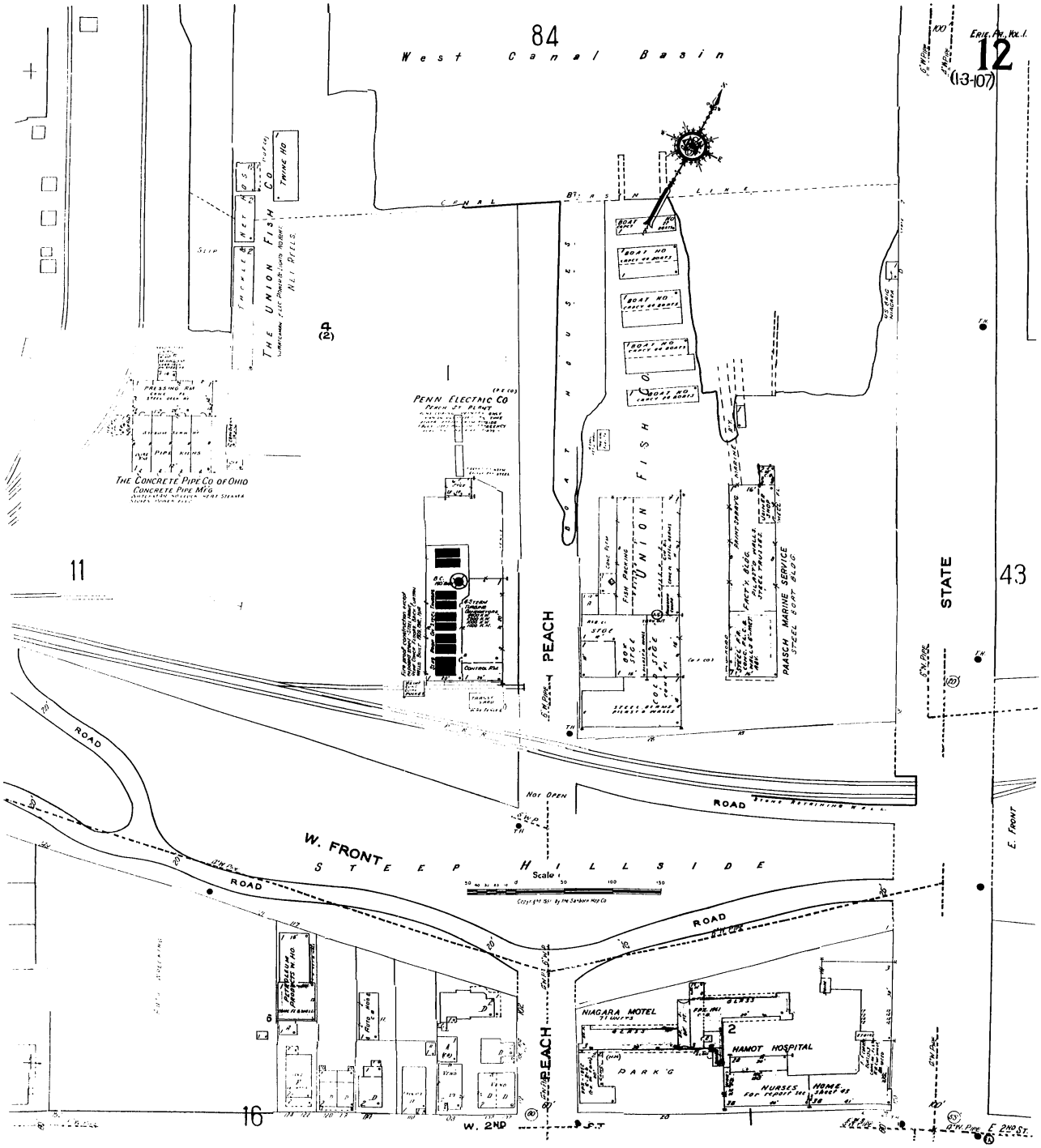


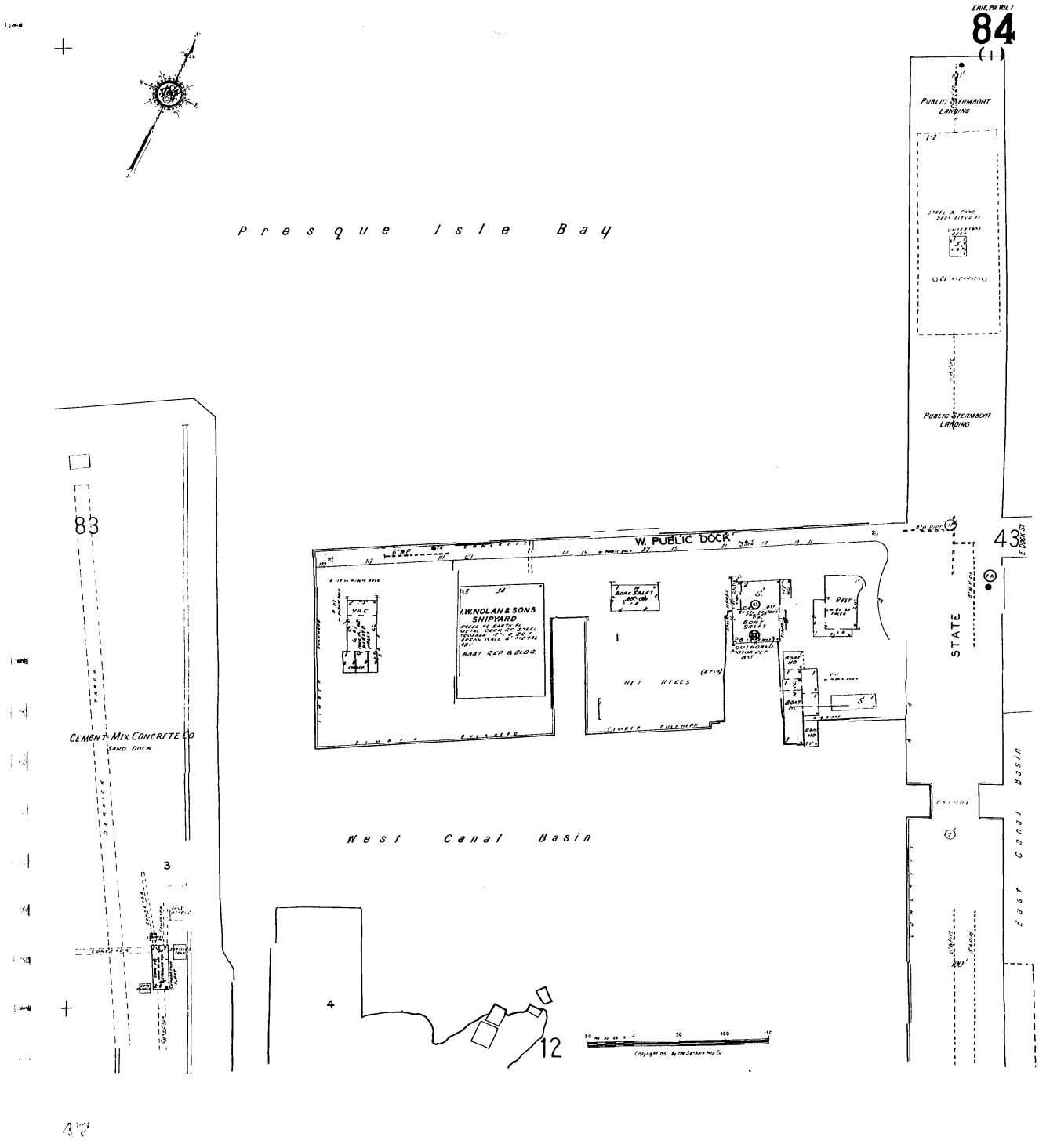


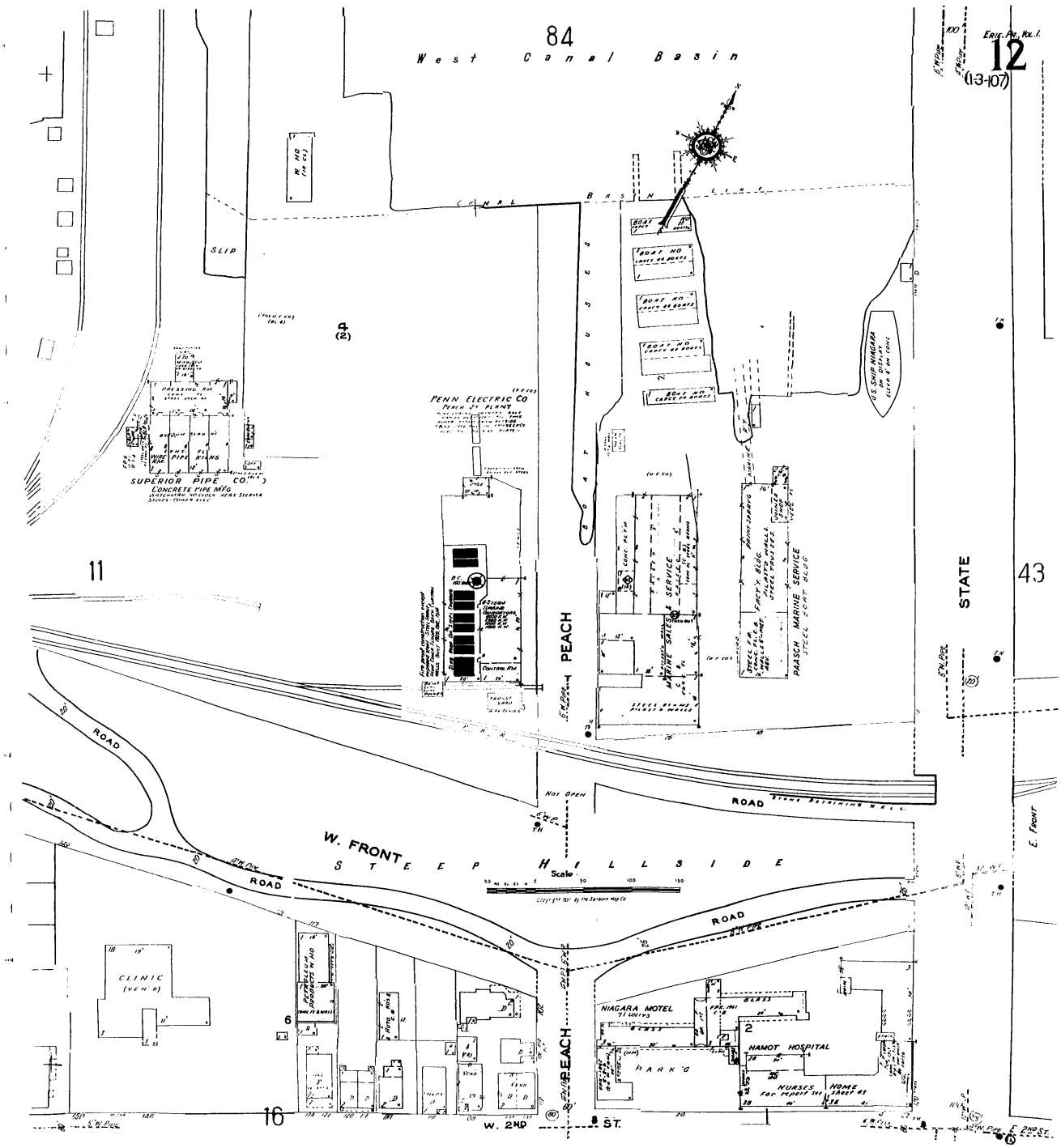












"Linking Technology with Tradition"®

Sanborn® Map Report

Ship To: Pat Pontoriero
MACTEC, Inc.
700 N. Bell Avenue
Pittsburgh, PA 15106

Order Date: 5/2/2007 **Completion Date:** 5/3/2007
Inquiry #: 1917818.3S
P.O. #: NA
Site Name: GAF Site
Address: 218 West Bayfront Parkway
City/State: Erie, PA 16507
Cross Streets:

Customer Project: GAF
3171565KFG 412-279-6661

Based on client-supplied information, fire insurance maps for the following years were identified

1921 - 2 Maps
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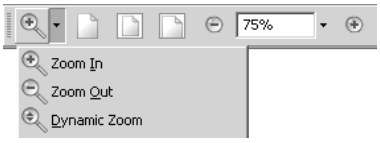
- Sanborn Map Report, listing years of coverage
- User's Guide
- Oldest Sanborn Map Image
- Most recent Sanborn Map Image

Navigating the Electronic Sanborn Image File



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4. Using Acrobat® Reader®, zoom to 250% in order to view more clearly. (200-250% is the approximate equivalent scale of hardcopy Sanborn Maps.)
   A. On the menu bar, click "View" and then "Zoom to..."
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Printing a Sanborn Map From the Electonic File

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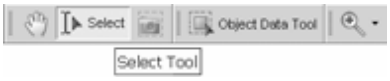
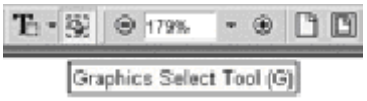
Acrobat Versions 6 and 7



1. Go to the menu bar
2. Click the "Select Tool"
3. Draw a box around the area selected
4. "Right click" on your mouse
5. Select "Copy Image to Clipboard"
6. Go to Word Processor such as Microsoft Word, paste and print.

Acrobat Version 5



1. Go to the menu bar
2. Click the "Graphics Select Tool"
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4. Go to "Menu"
5. Highlight "Edit"
6. Highlight "Copy"
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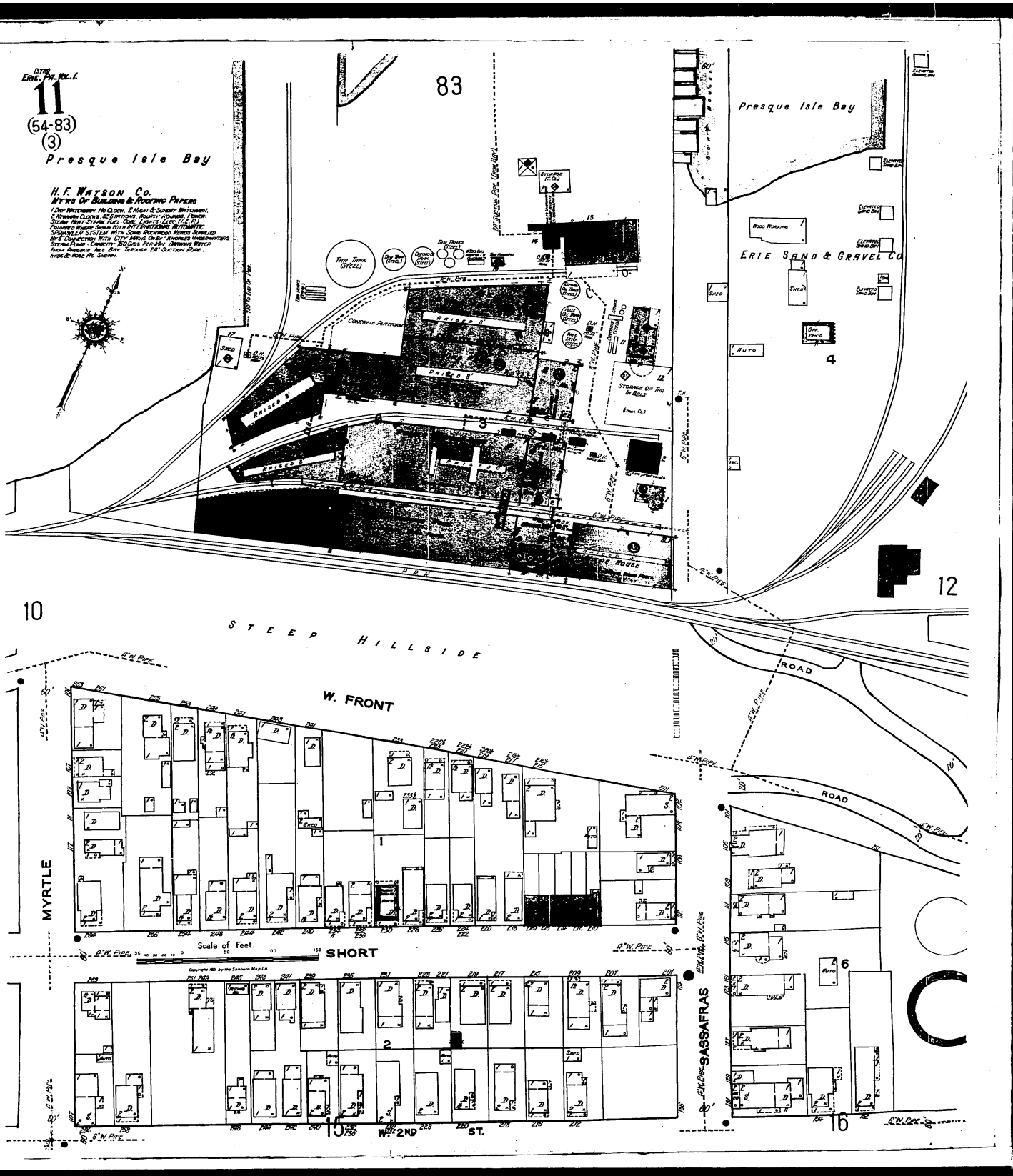


(3778)
ERIE, PA. VOL. 1.

83

Presque Isle Bay

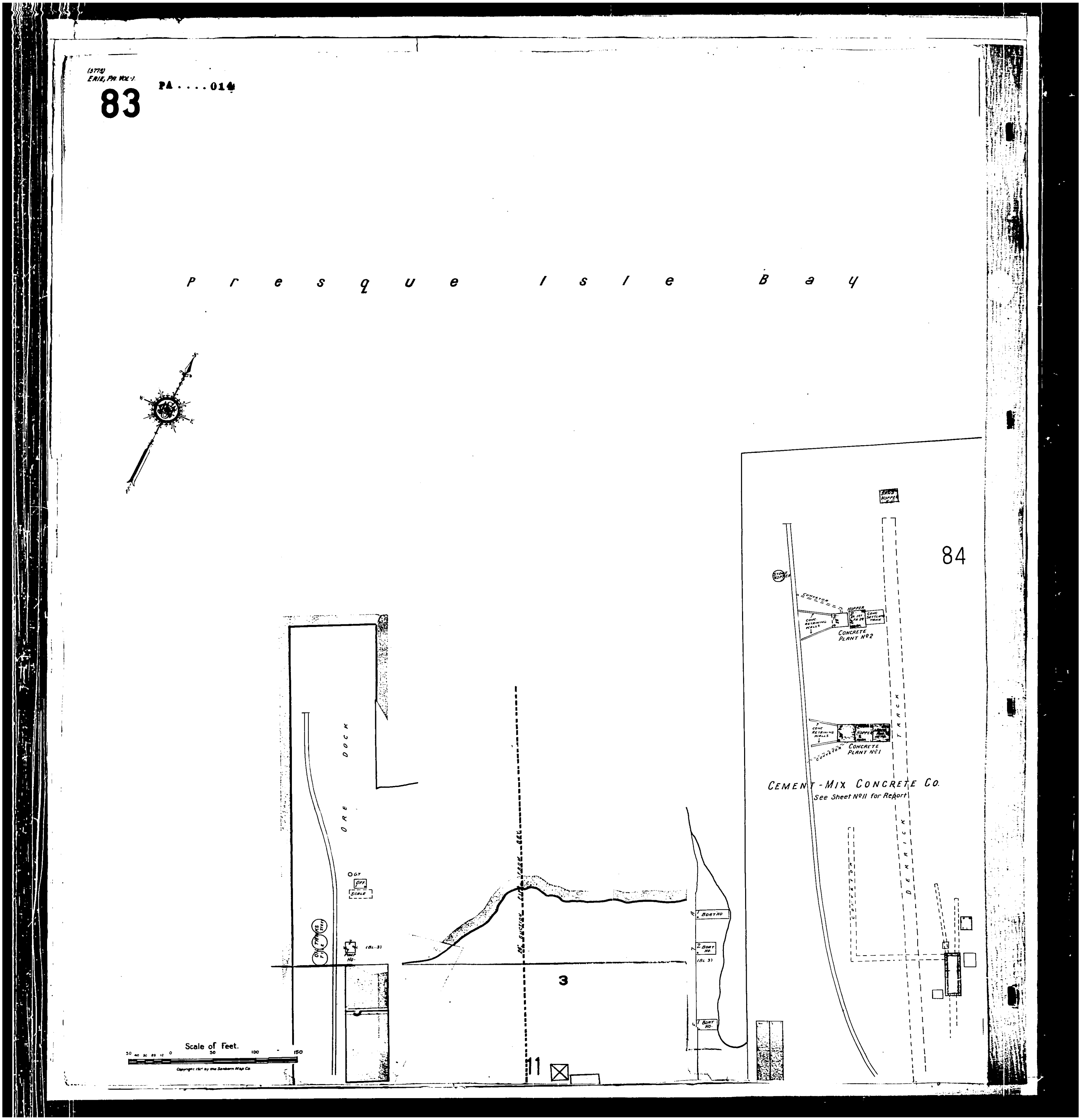
84

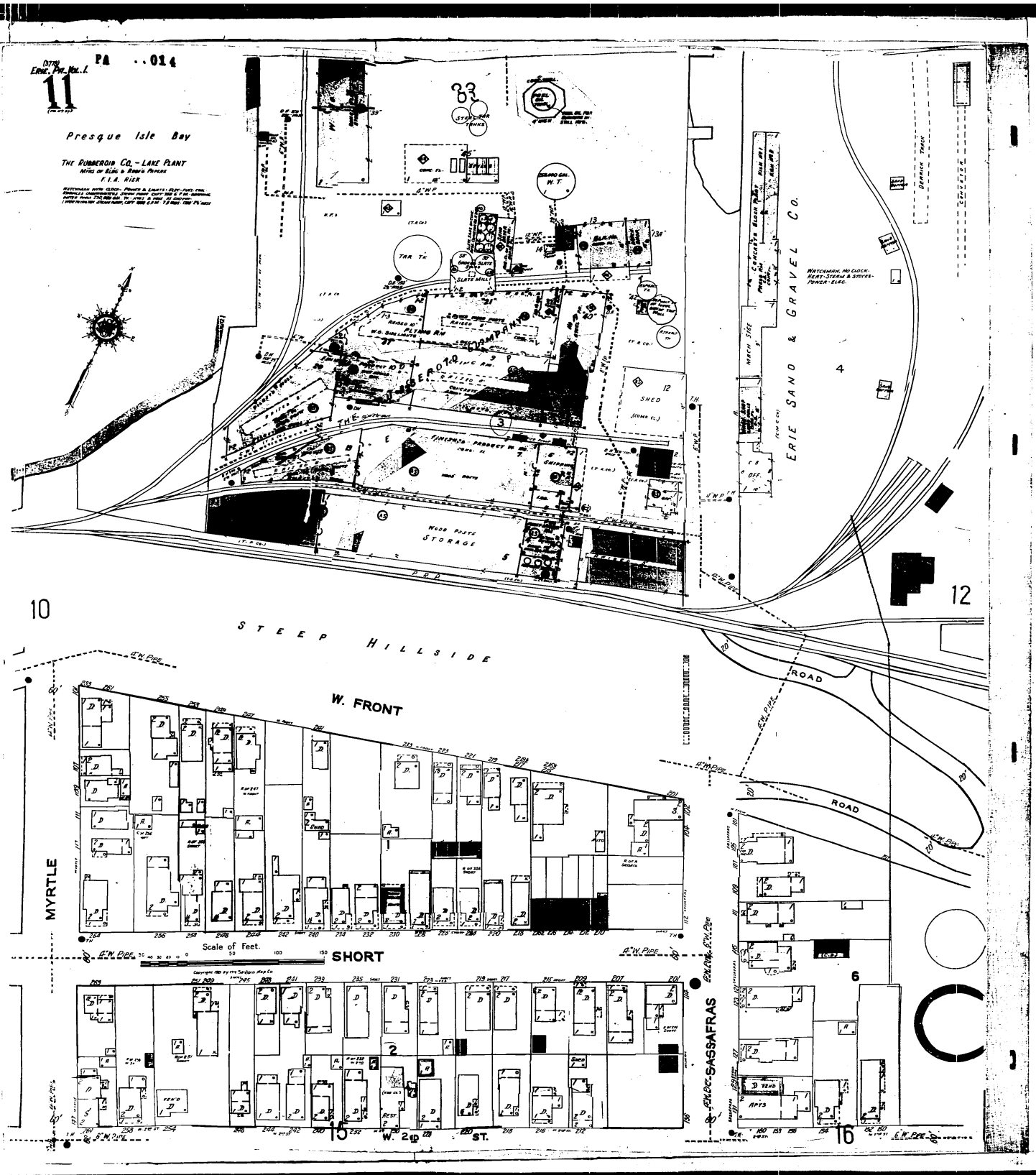
3

11

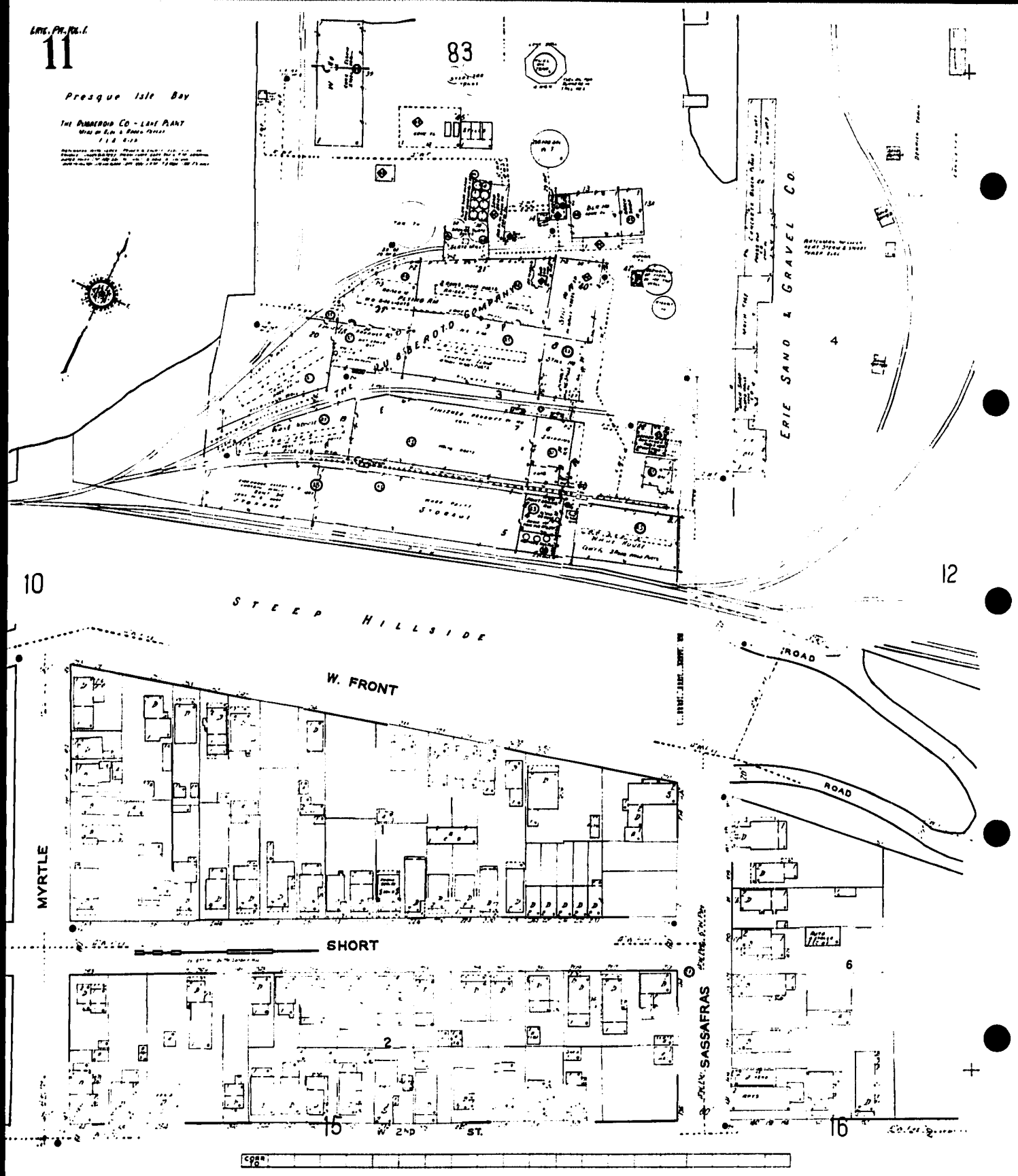
SASSAFRAS

Scale of Feet.
50 40 30 20 10 0 50 100 150





P r e s q u e I s l e B a y



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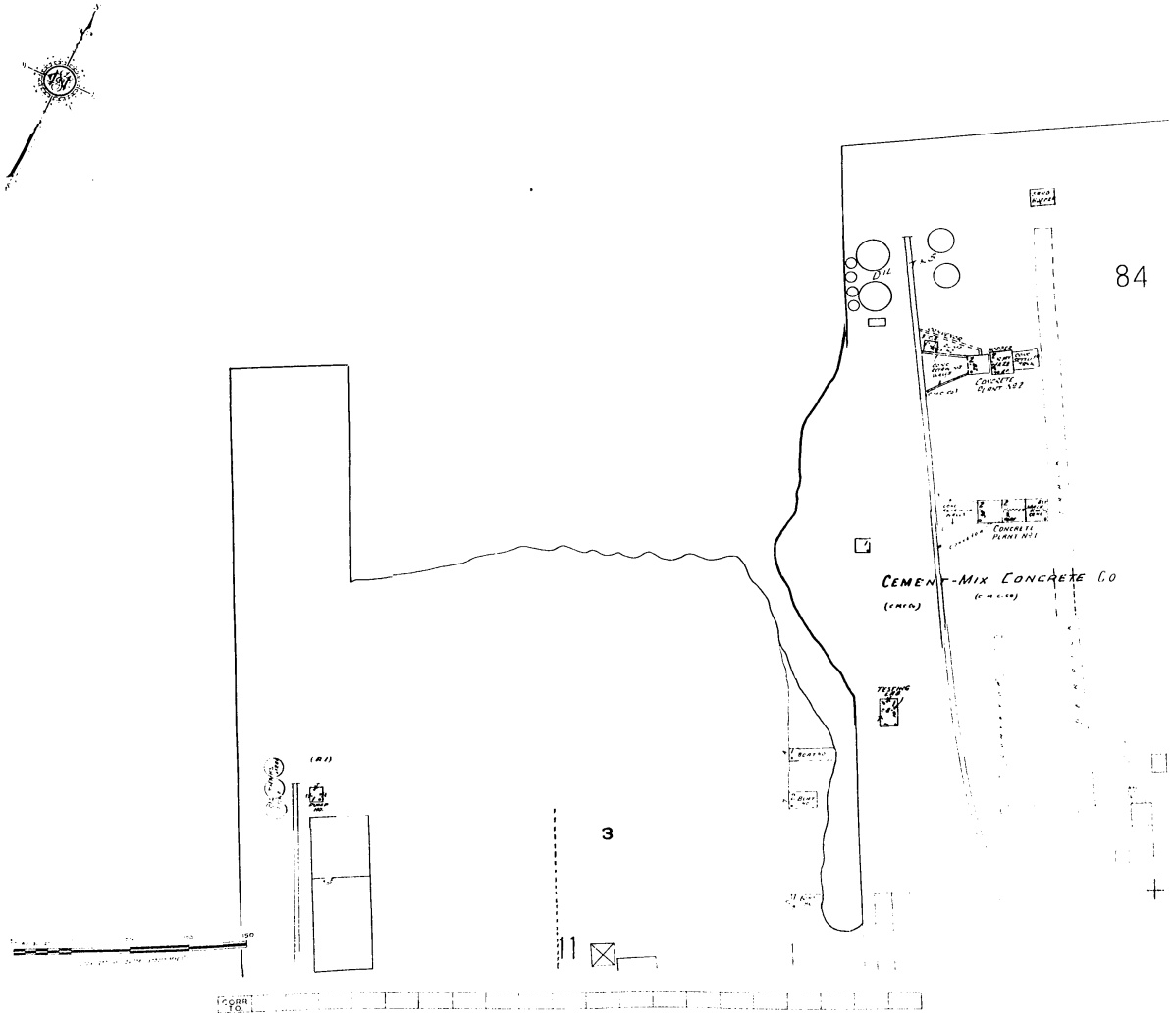
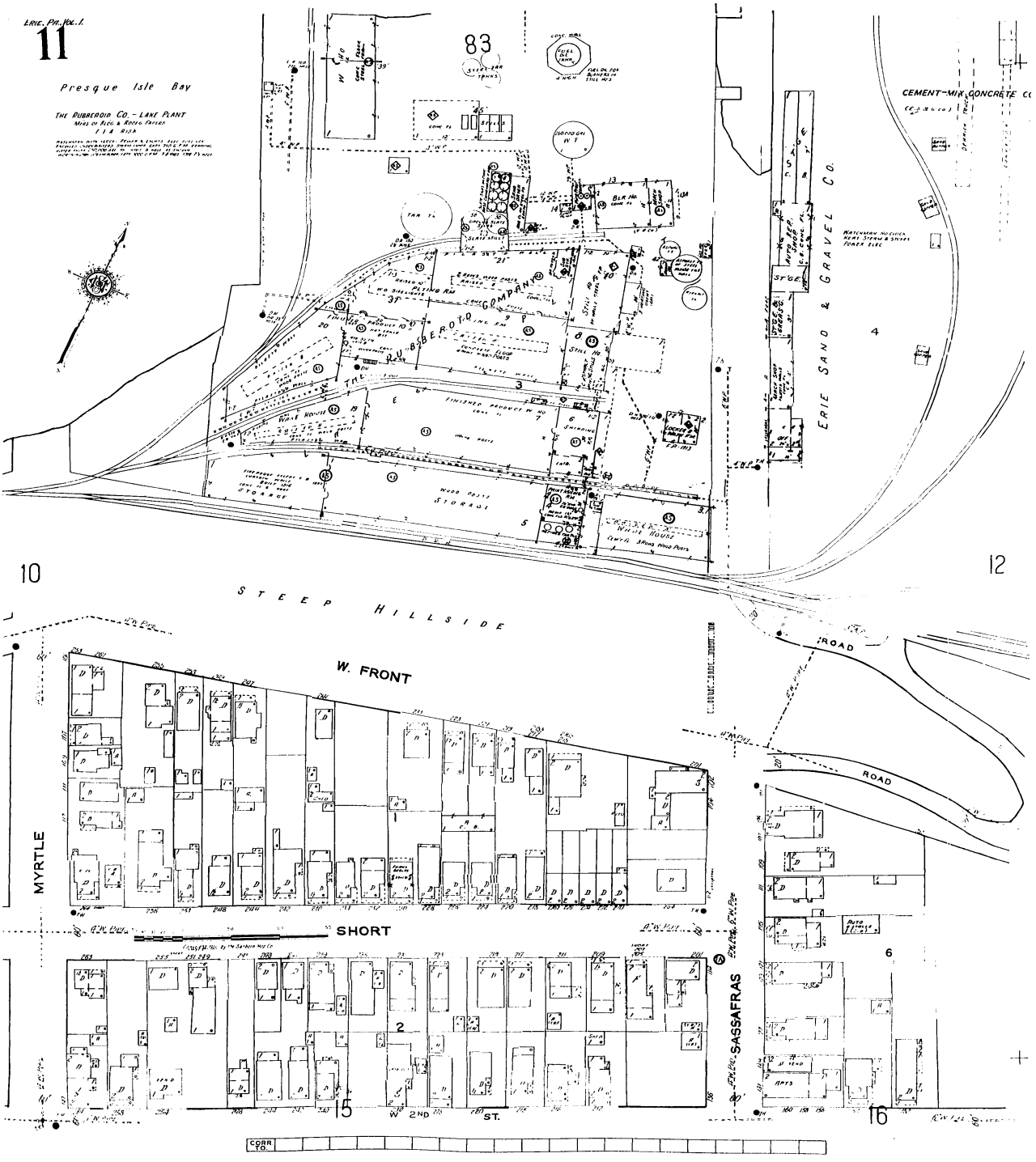
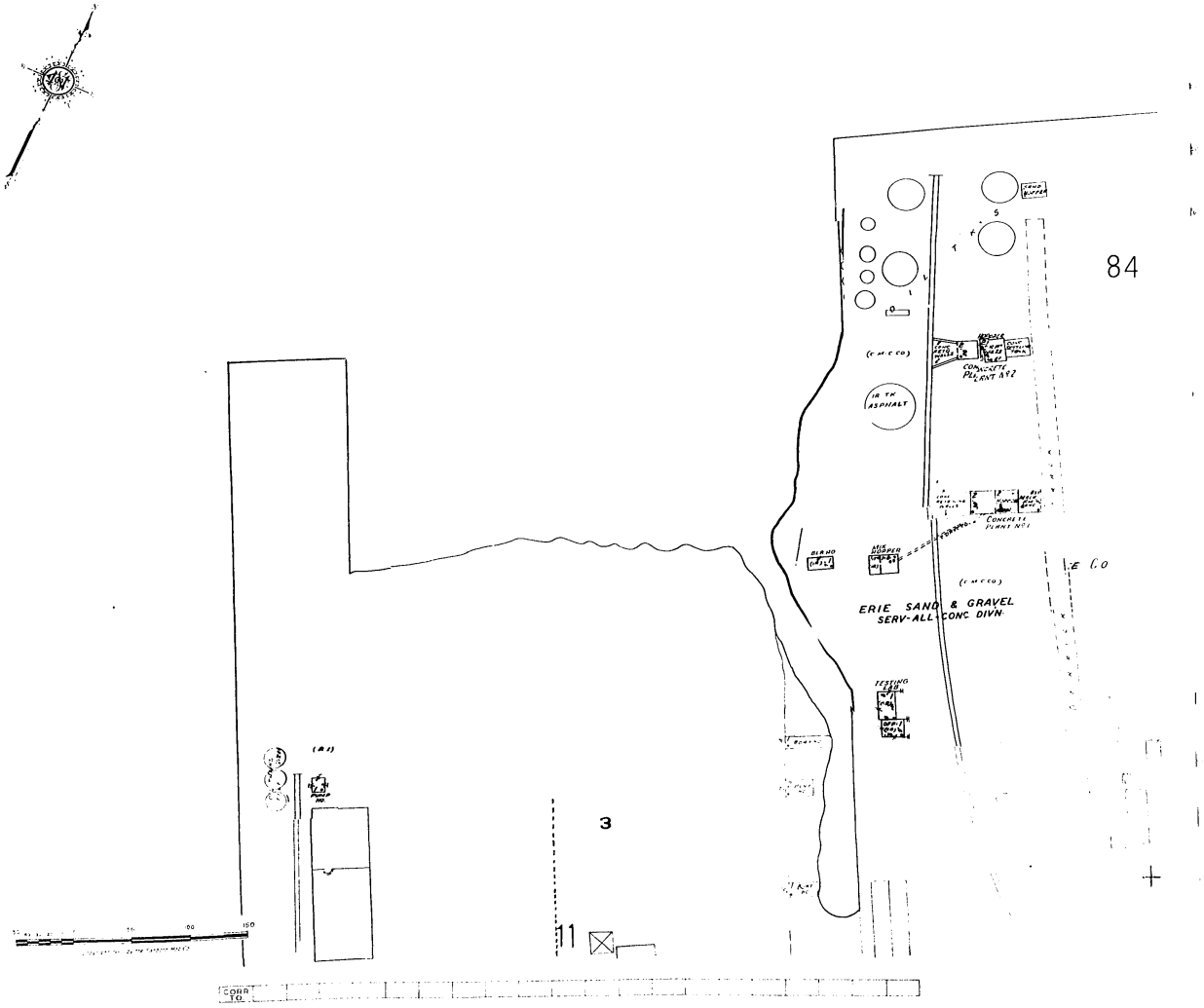
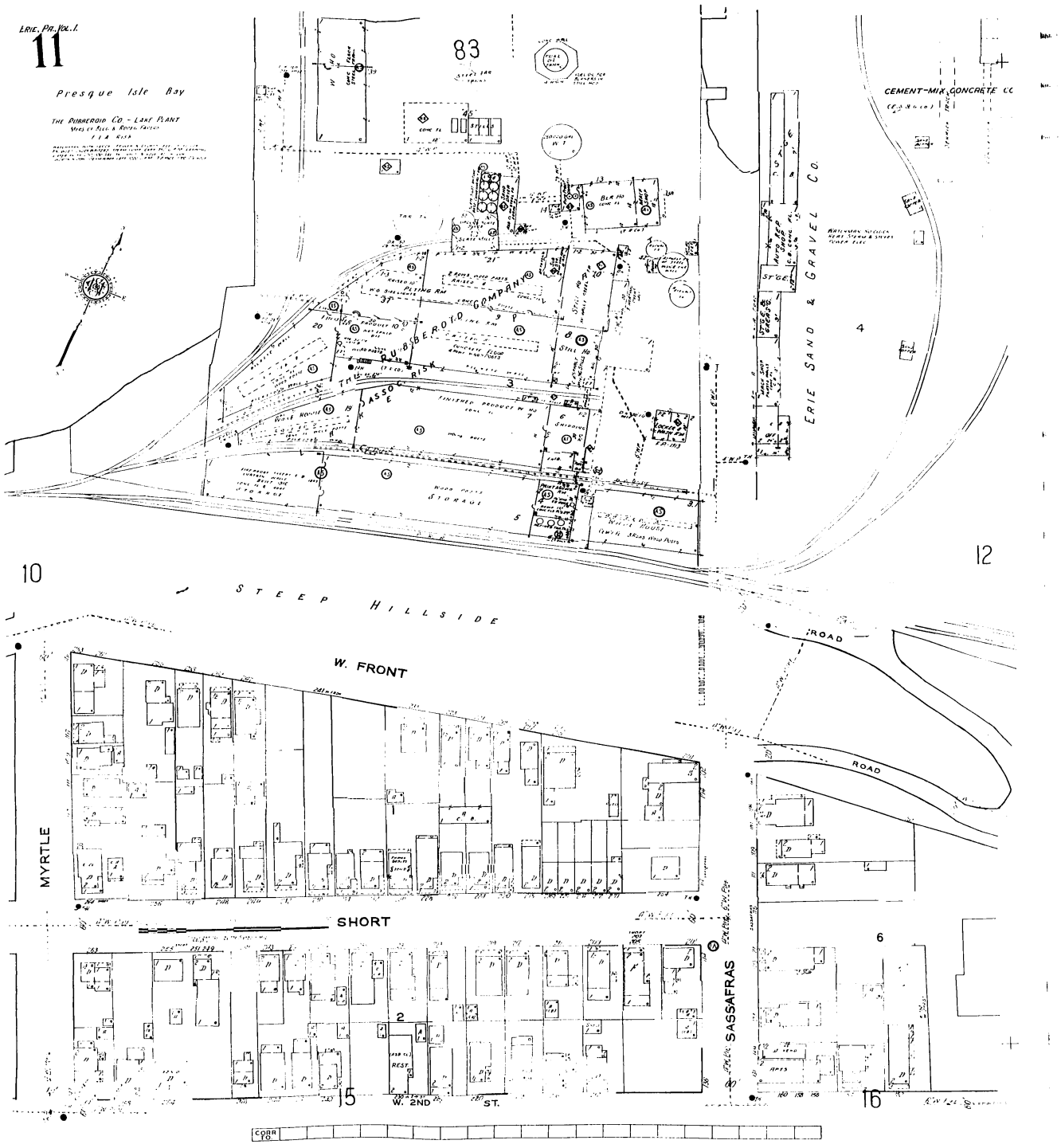




p r e s q u e I s l e B a y





APPENDIX G

SITE PHOTOGRAPHIC LOG

MACDONALD ILLIG JONES & BRITTON LLP

MEMORANDUM

TO: File

FROM: REG

RE: GAF Photo Log from 8/28/08 Tour

DATE: 8/28/08

Photo #1	End of northernmost old alphalt tank in Bldg. 8. Historically, tanks were heated with fires below tank.
Photo #2	View of hallway of old tanks looking south in Bldg 8.
Photo #3	View looking north in hallway in Bldg. 40 below new heated asphalt tanks. Note prevalent spilled/leaked asphalt.
Photo #4	View looking west in Bldg 40 below new heated asphalt tanks.
Photo #5	View of gas fired heater on east side of bldg. 40 used to heat raw asphalt product.
Photo #6	View of new oil water separator north of front loading docks near Tank 4.
Photo #7	View of old oil water separator north of front loading docks near Tank 4.
Photo #8	View looking east of MW near northeast corner of office building. Note drums of purge water onsite.
Photo #9	View of oil water separators and heated product tanks looking north from front loading docks.
Photo #10	View of fairly recently stained soils near tank 4 or 5?
Photo #11	View looking north in second floor of Bldg. 40 above asphalt tanks.
Photo #12	View looking west in second floor of Bldg. 40 above asphalt tanks.

Photo #13	View of asphalt contaminated walls and ground in or near Bldg. 40.
Photo #14	View of facility flare facing south/southwest.
Photo #15	View looking southwest of MW north of boiler house. Note drums of purge water onsite.
Photo #16	View of former blown coating tanks east of flare.
Photo #17	View of former blown coating tanks east of flare.
Photo #18	View of new oil/water separator north of flare looking north.
Photo #19	Photo near rolled roofing line in area w/ basement.
Photo #20	Photo of rolled roofing line.
Photo #21	Photo of air pollution control device for rolled roofing line.
Photo #22	Photo of air pollution control device for rolled roofing line.
Photo #23	Photo near new construction area of shingle line.
Photo #24	Photo of equipment on shingle line.
Photo #25	Photo of self-seal shingle adhesive tank.
Photo #26	View looking south of MW east of sand/slate silos. Note drums of purge water onsite.
Photo #27	View looking northeast of waste oil (light end fraction) tank.
Photo #28	View looking east of MW west of Bldg. 39. Note drums of purge water onsite.
Photo #29	View looking west of MW southwest of Bldg. 1. Note drums of purge water onsite.
Photo #30	View looking north of MW southeast of Bldg. 1. Note drums of purge water onsite.
Photo #31	View from hallway of Building 6A looking east.
Photo #32	View looking north into Building 10 (area w/ basement).
Photo #33	View looking west into Building 19.

Photo #34 View looking east into Building 7.

Photo #35 View looking east between Building 7 and Building 5.

Photo #36 View looking west between Building 7 and Building 5.

Photo #37 View looking west into Building 10.

Photo #38 View looking east into Building 5.

Photo #39 View looking west along front of Office Building.

Photo #40 View looking east along front of Office Building.

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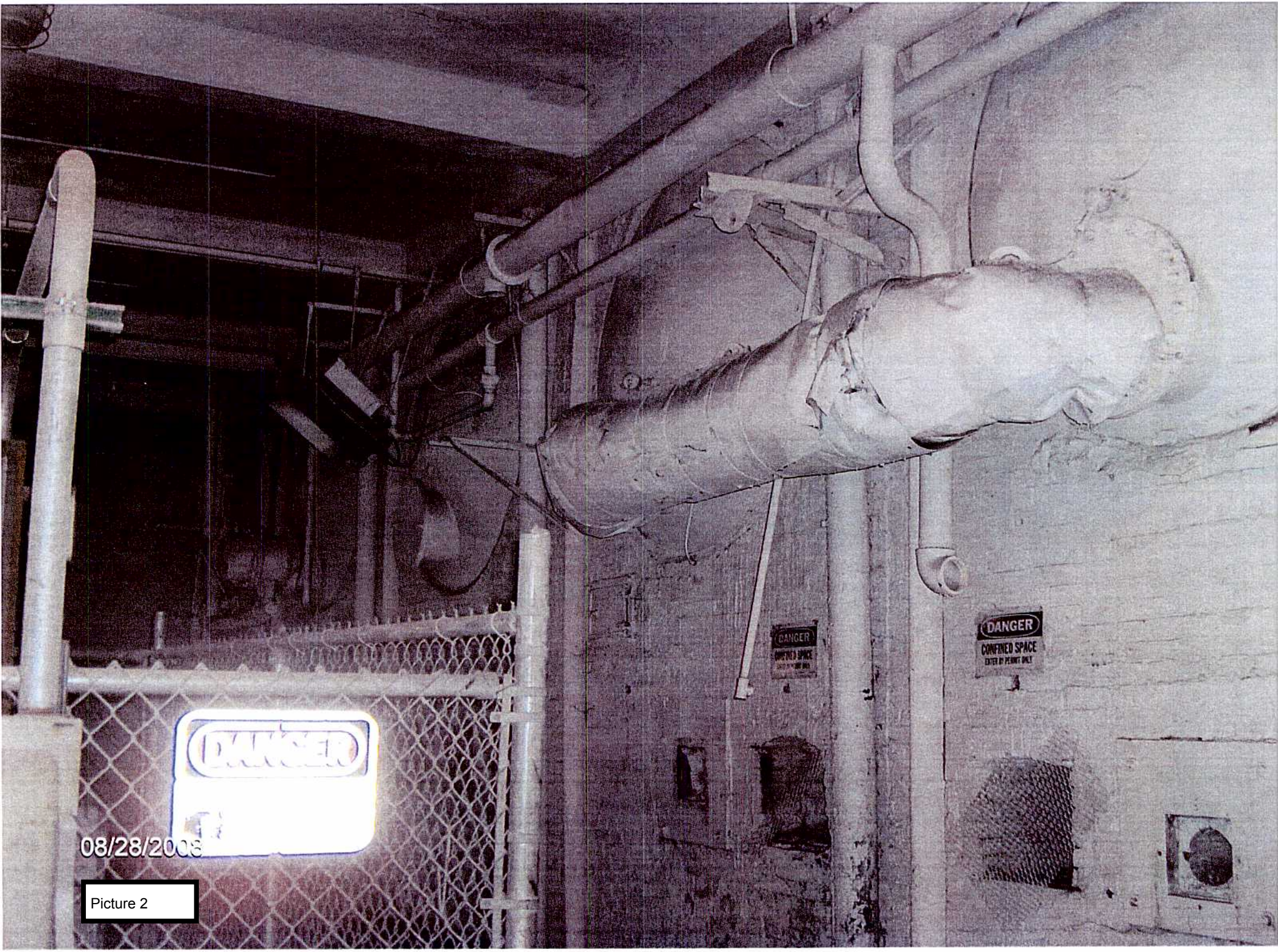
Picture 1



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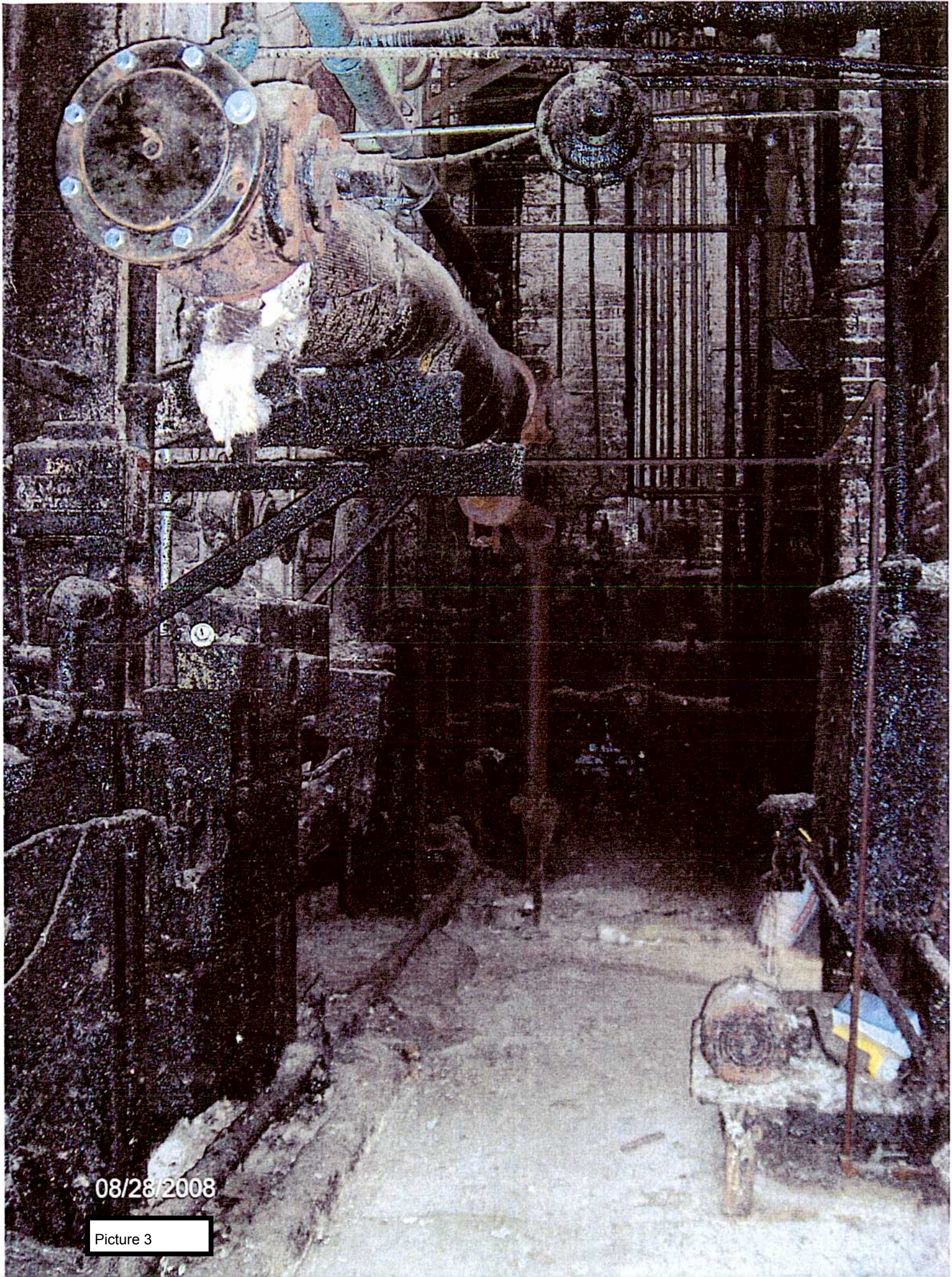

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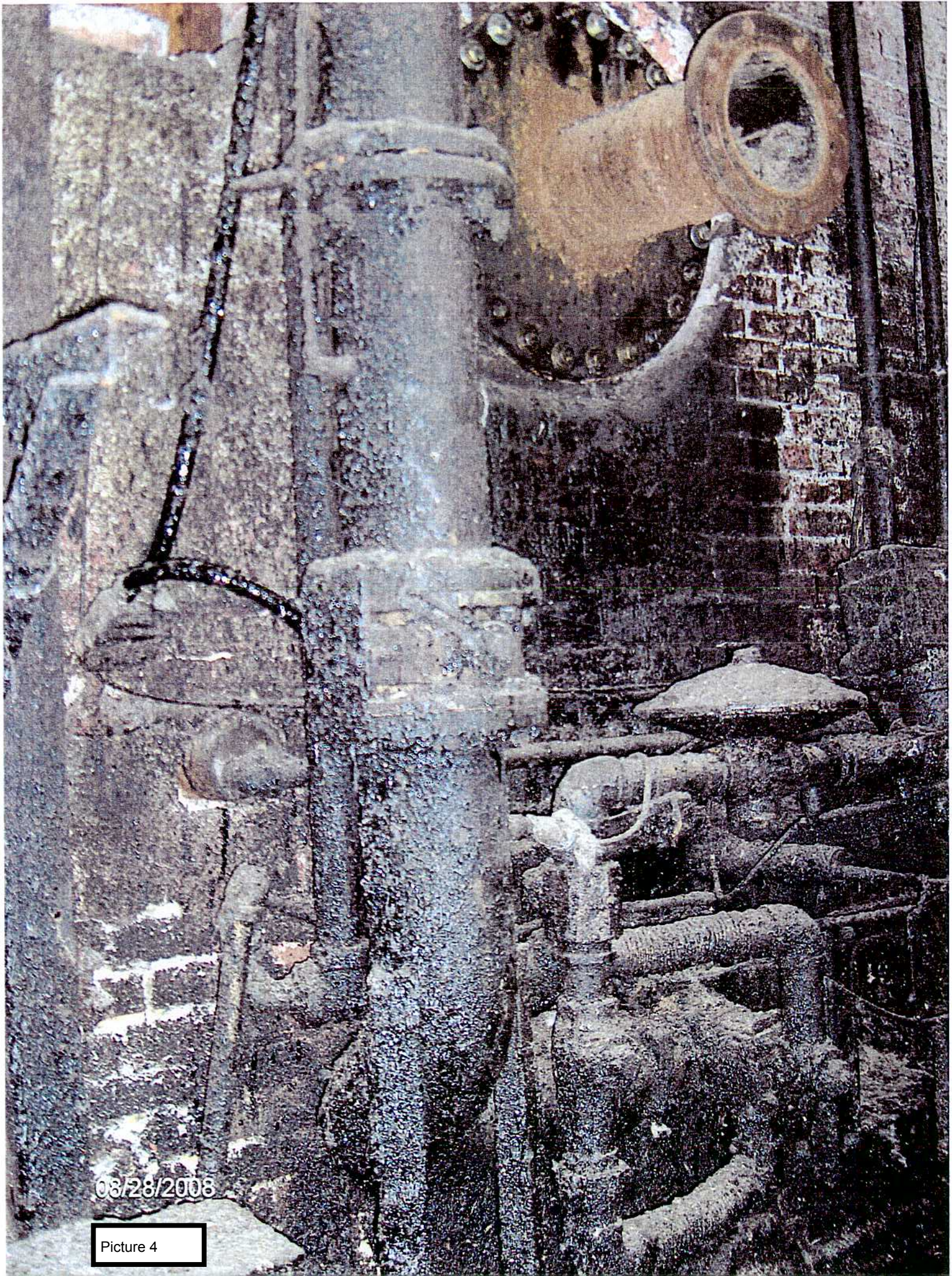

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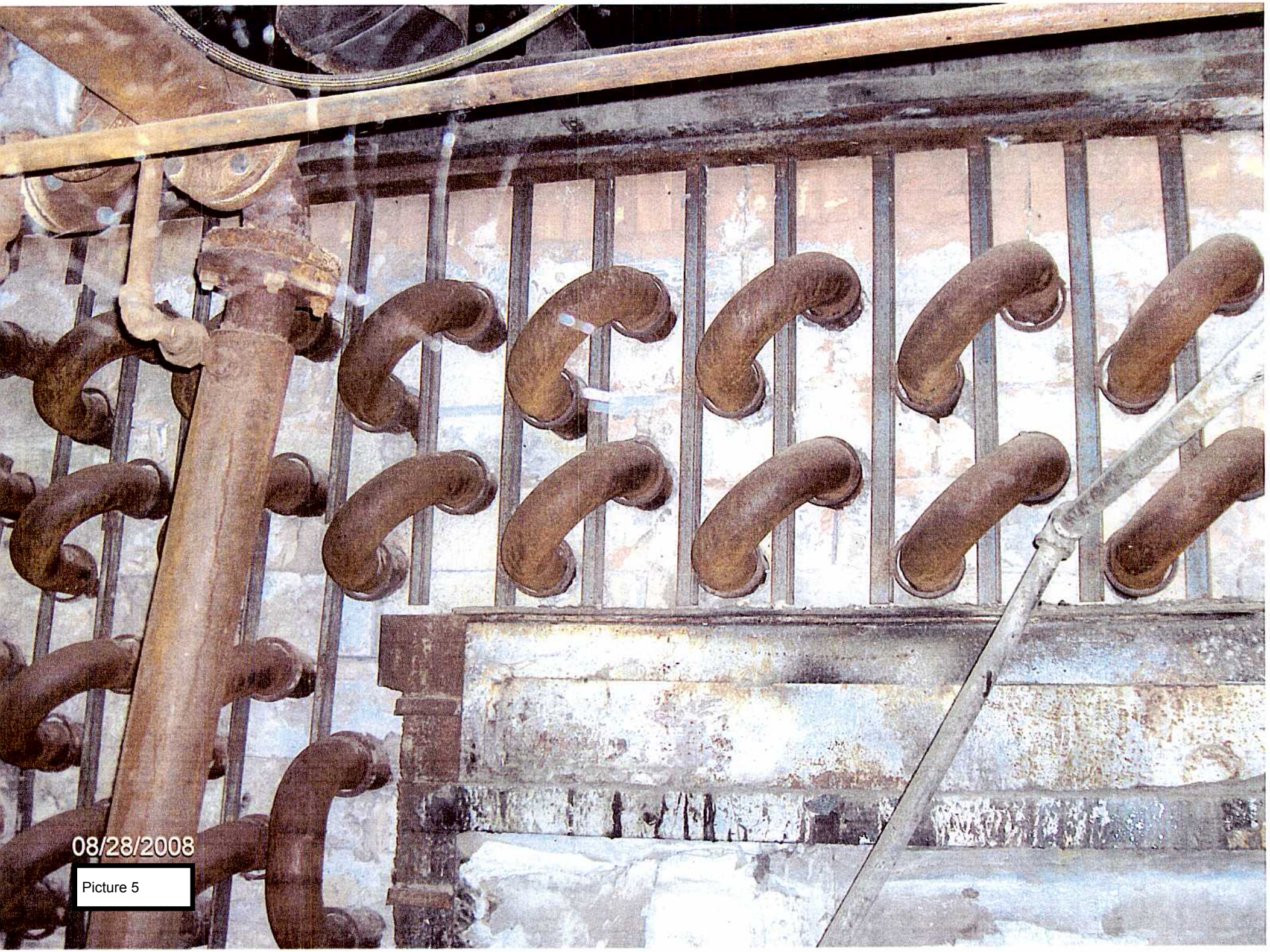
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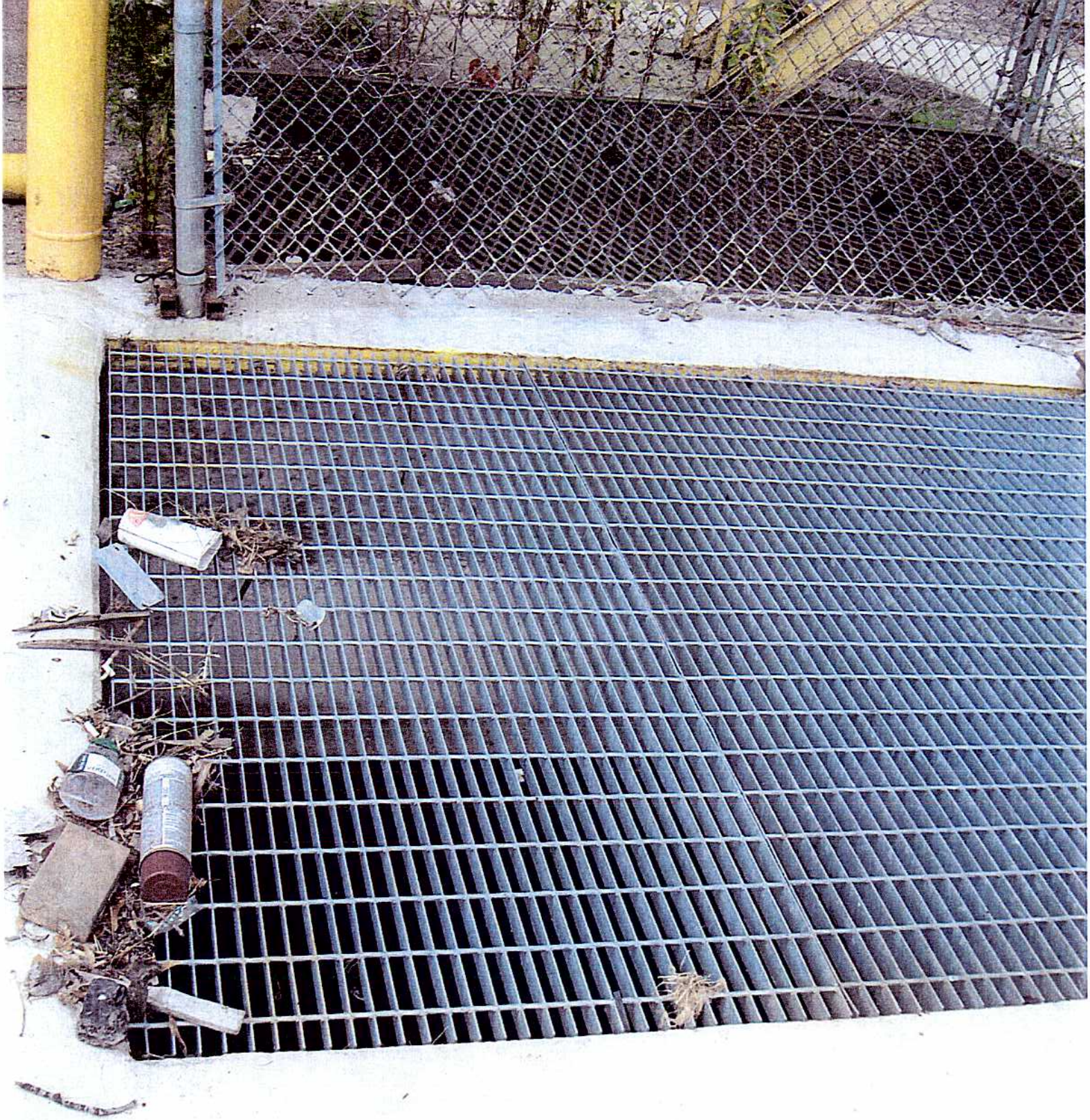

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Picture 6


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Picture 7


ONLY ONLY
BAYFRONT
CONVENTION
CENTER
VISITOR
PARKING
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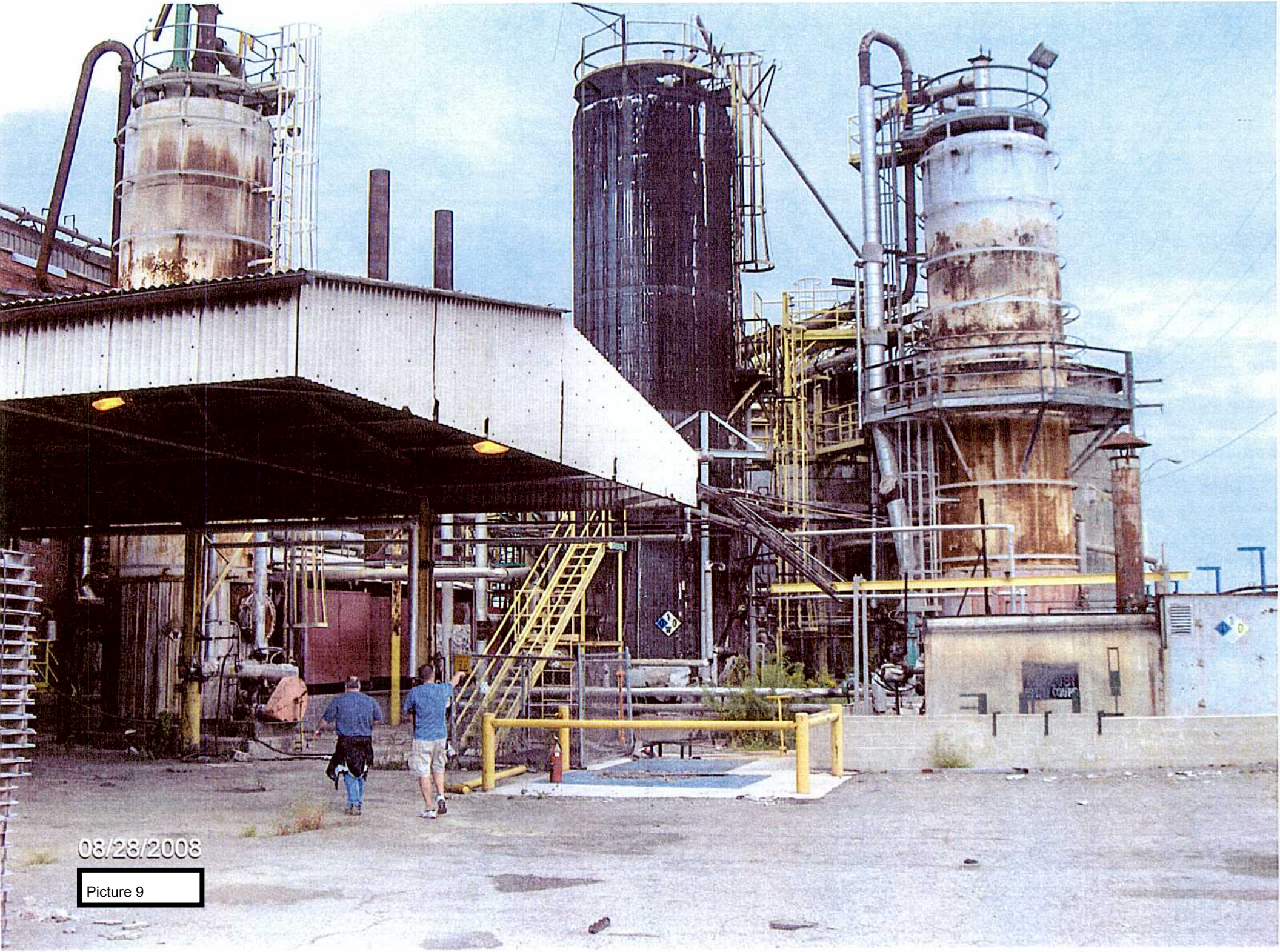
Picture 8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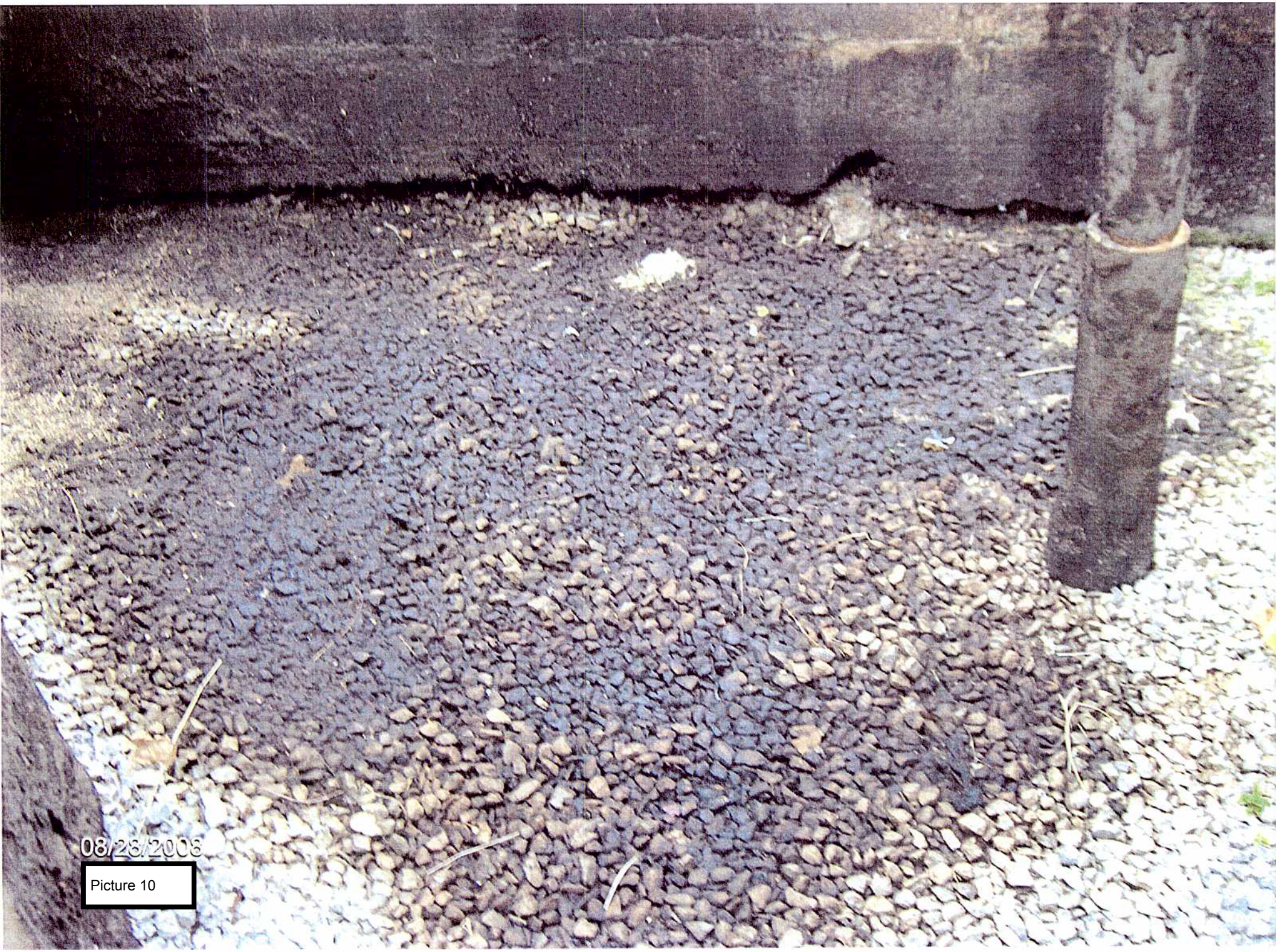

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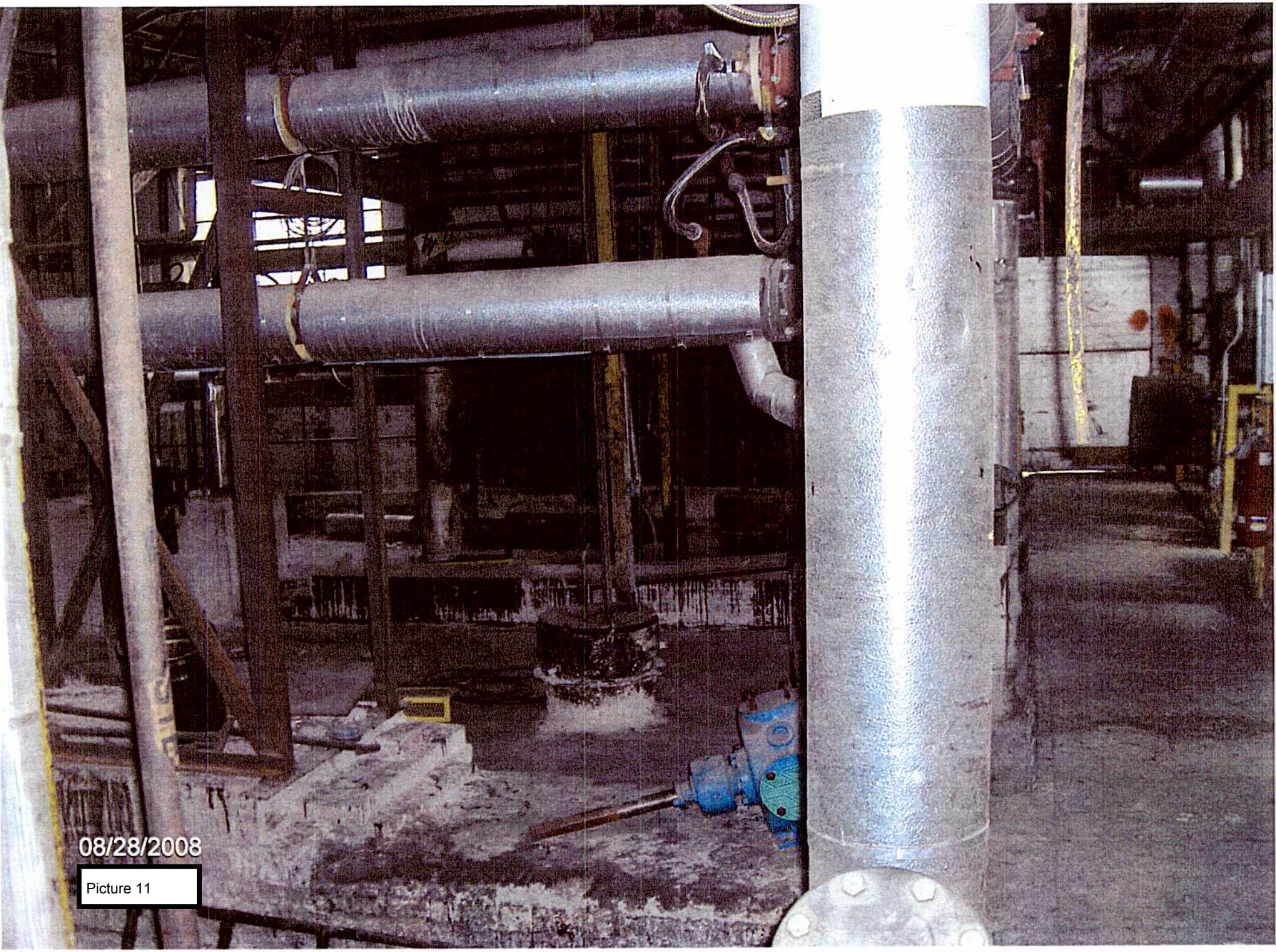
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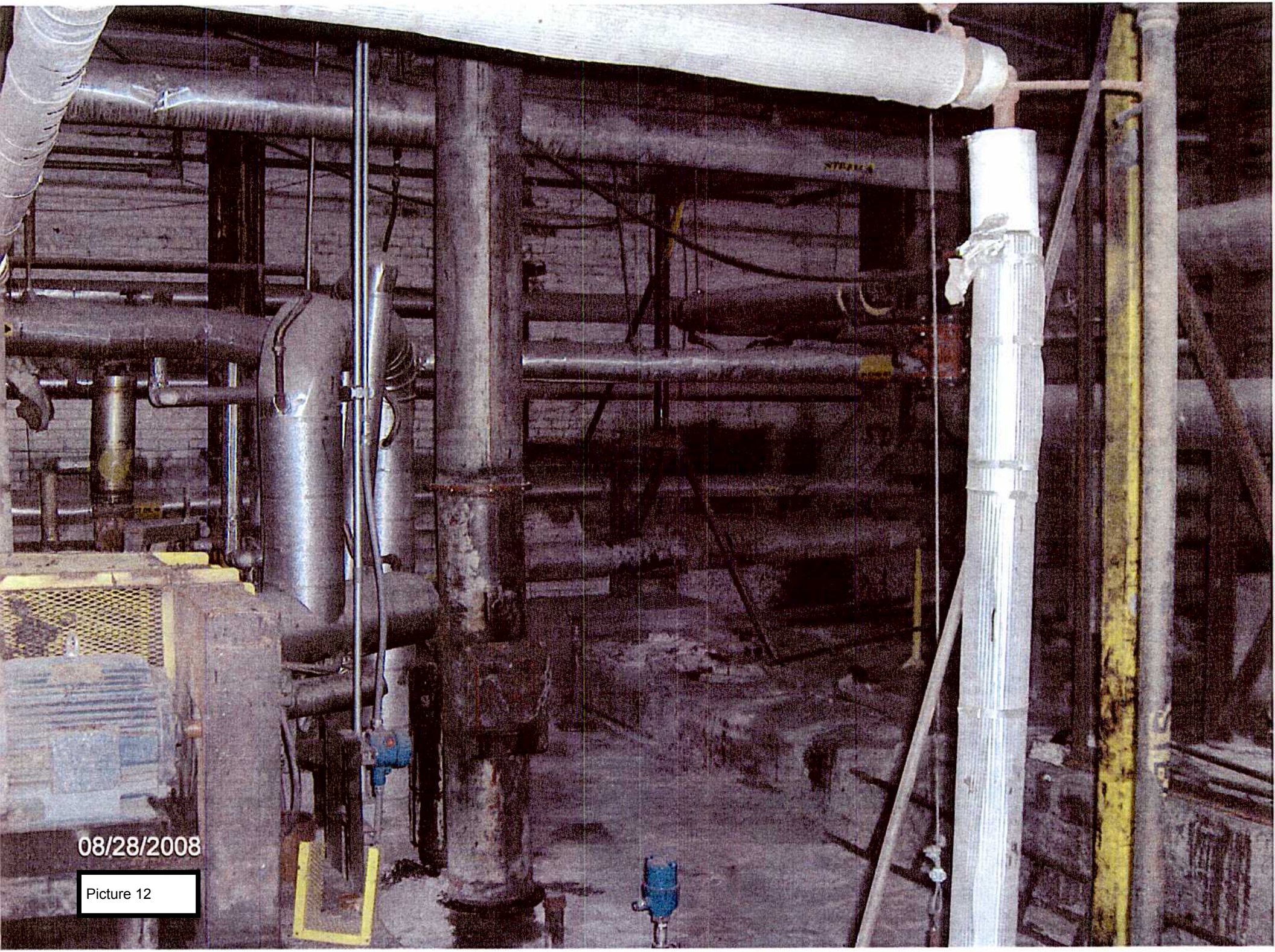
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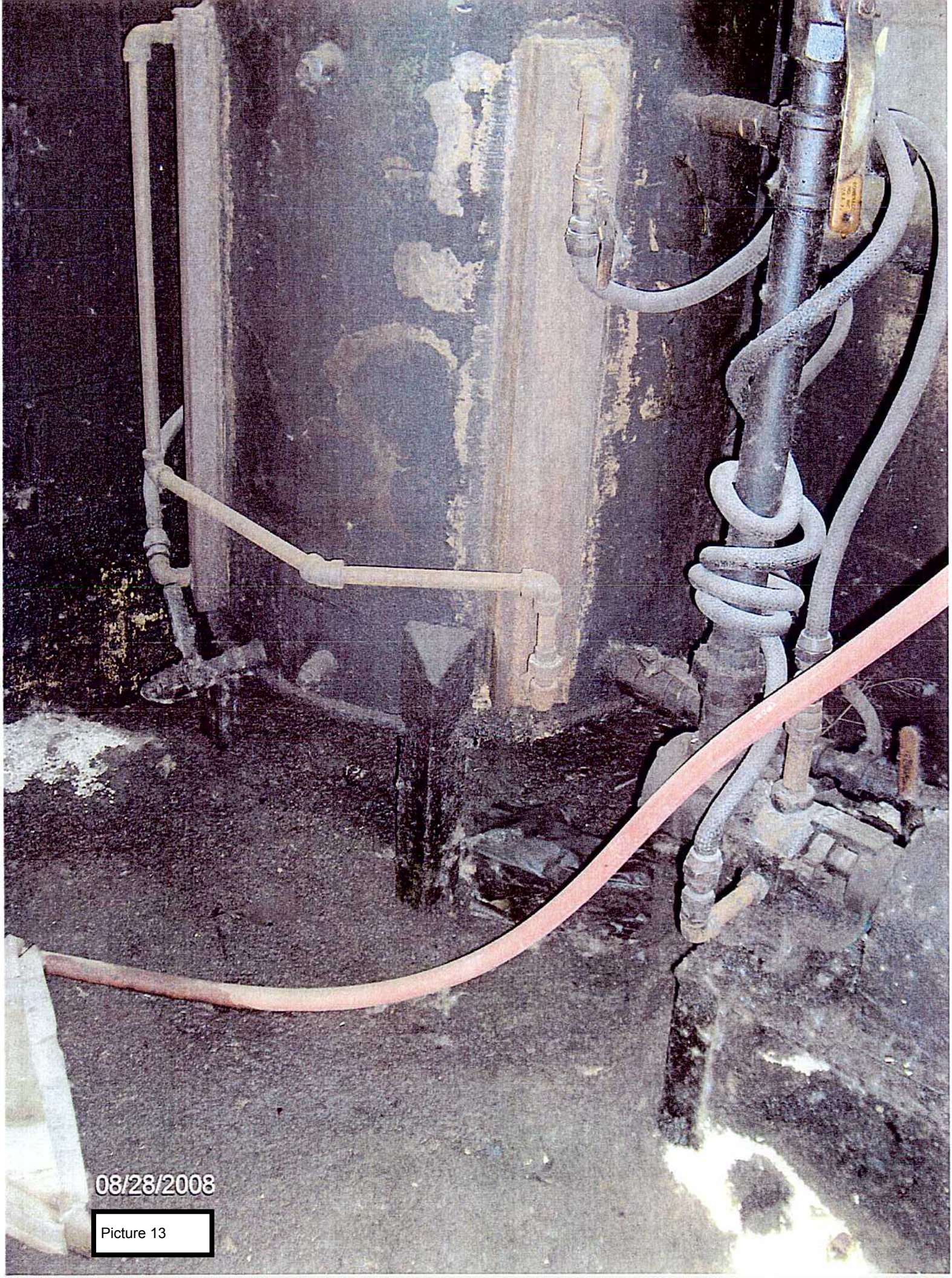

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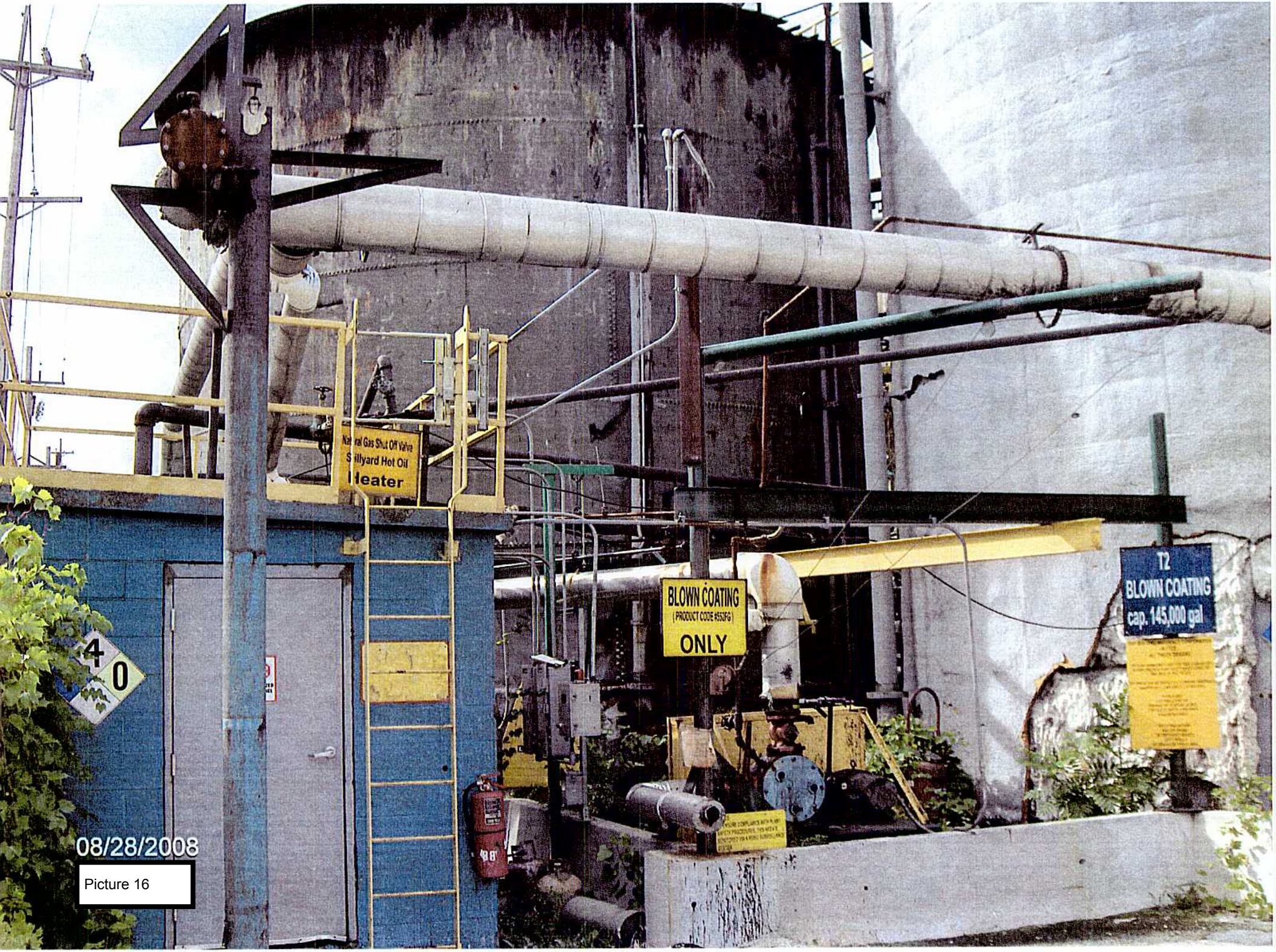
Picture 14

Picture 15


Natural Gas Shut Off Valve
Shipyard Hot Oil
Heater
BLOWN COATING
(PRODUCT CODE #553FG)
ONLY
T2
BLOWN COATING
cap. 145,000 gal
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Picture 16

Picture 17

Picture 18


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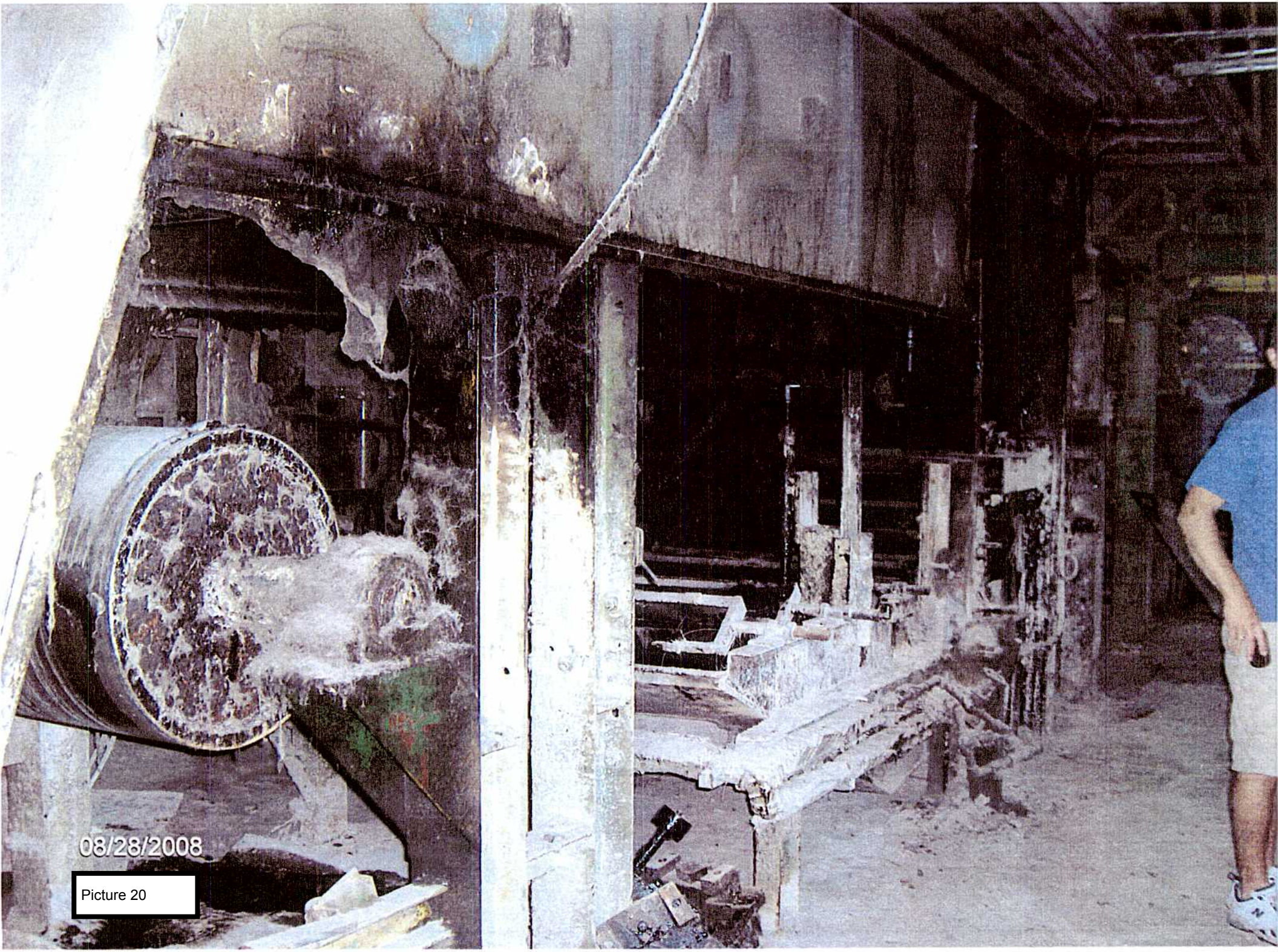
Picture 19



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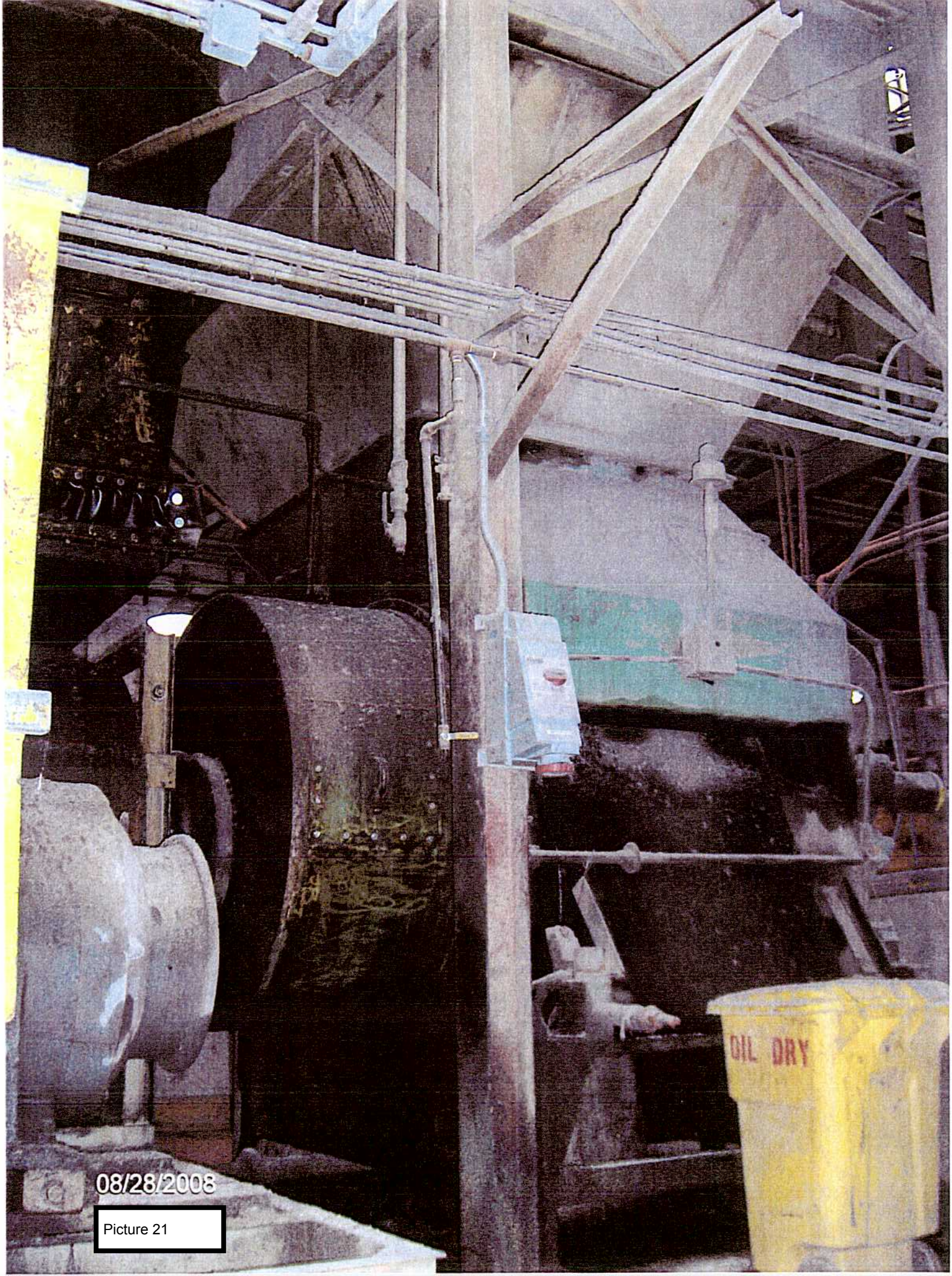

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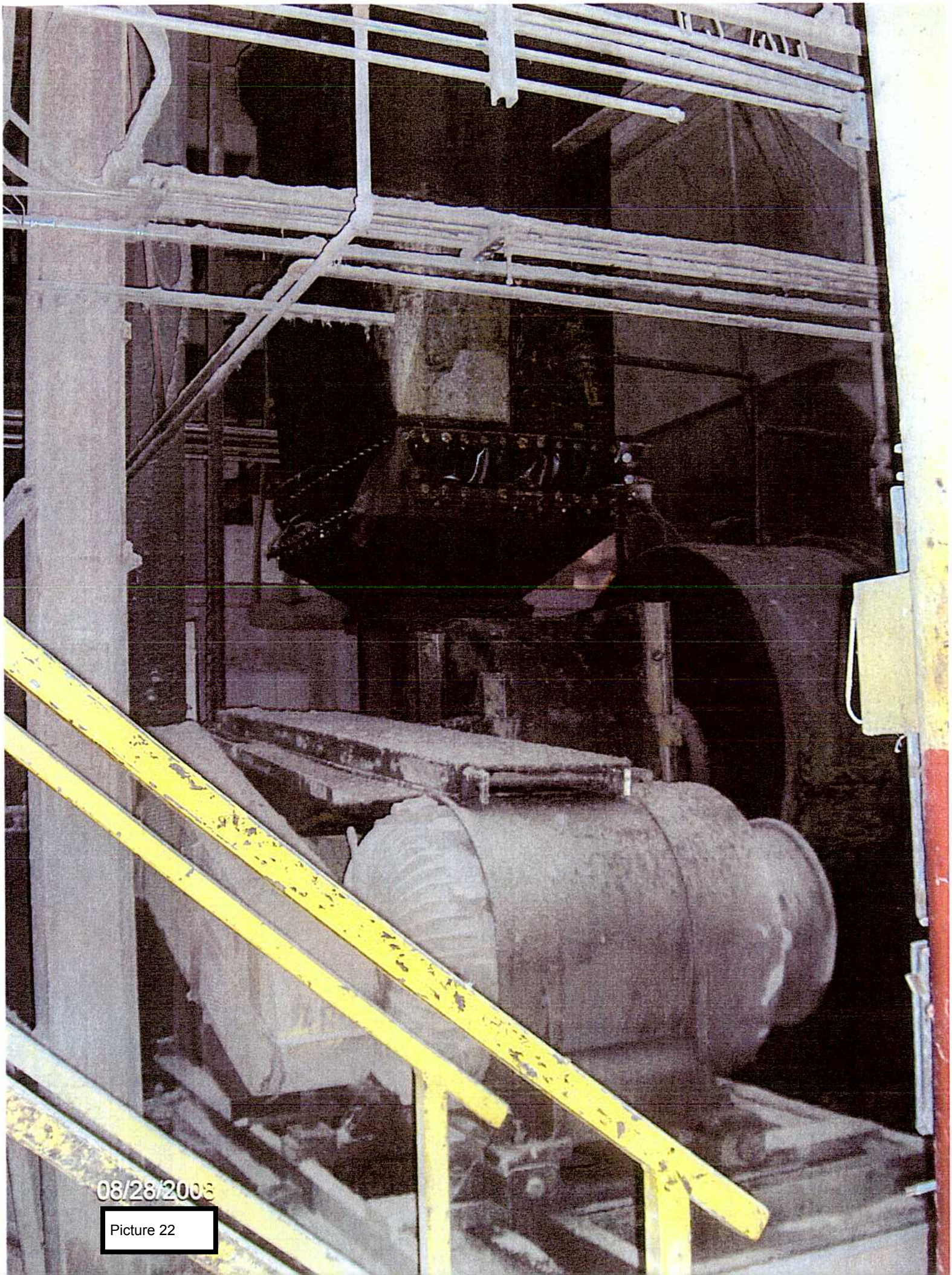

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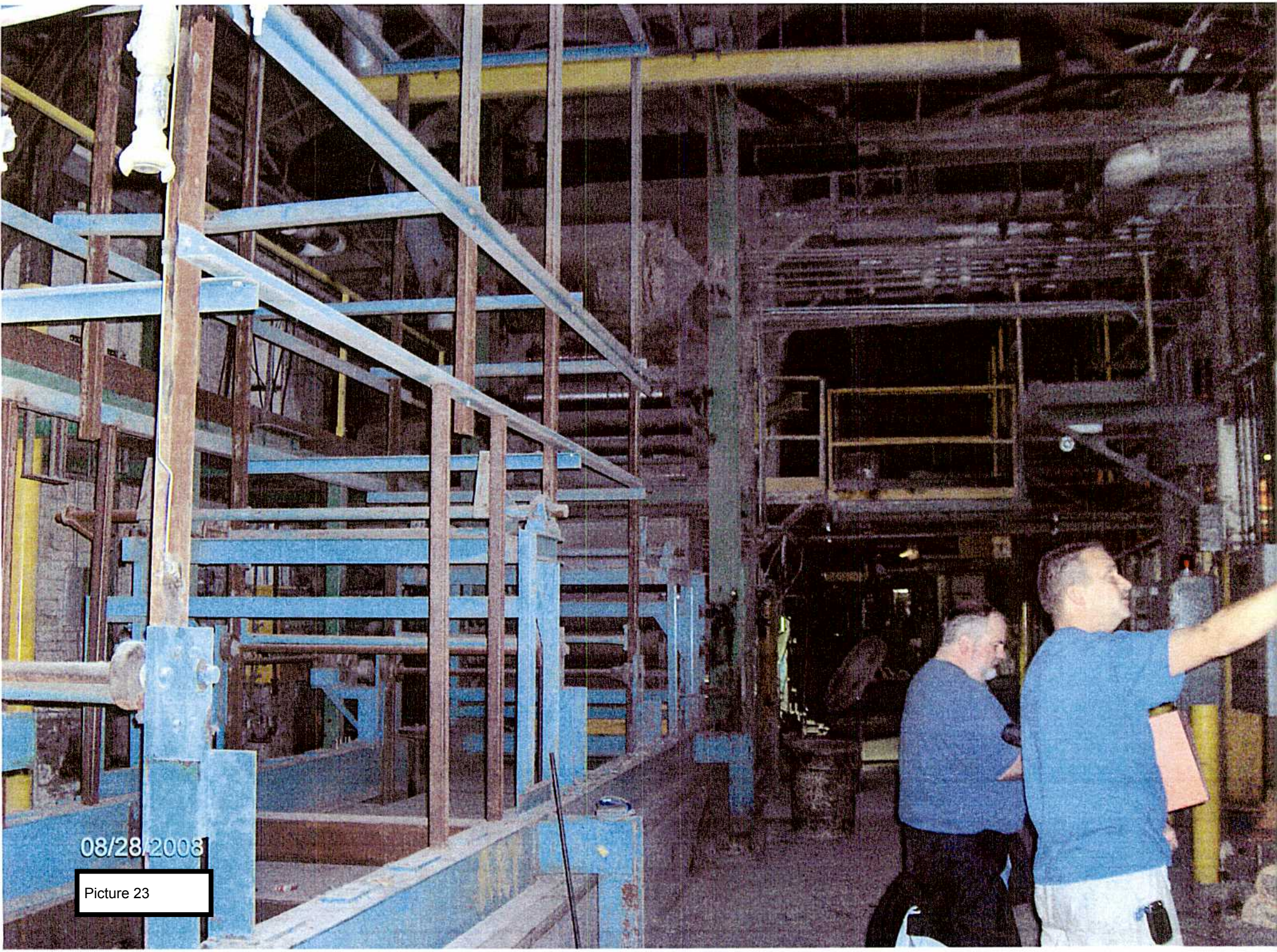

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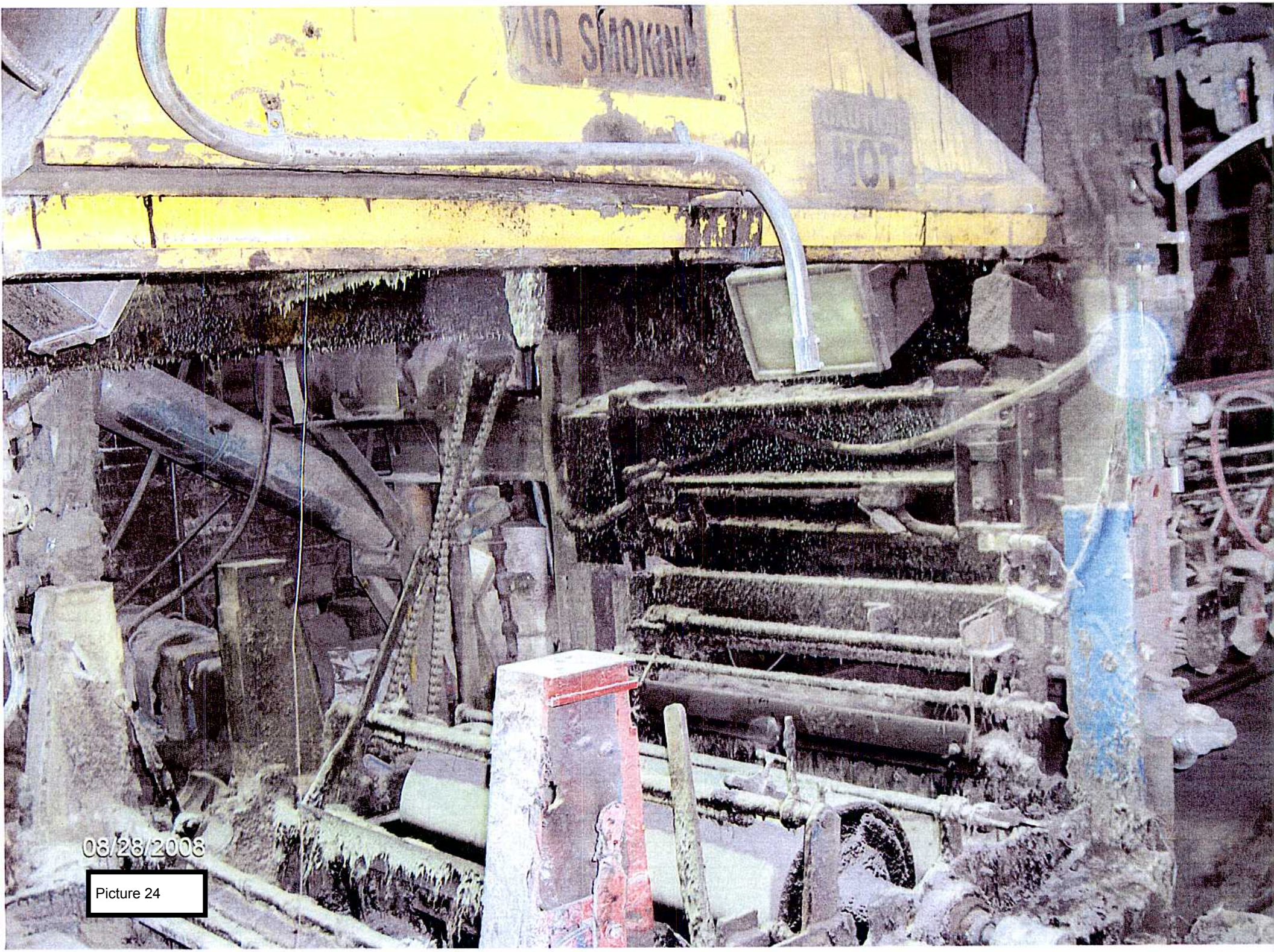

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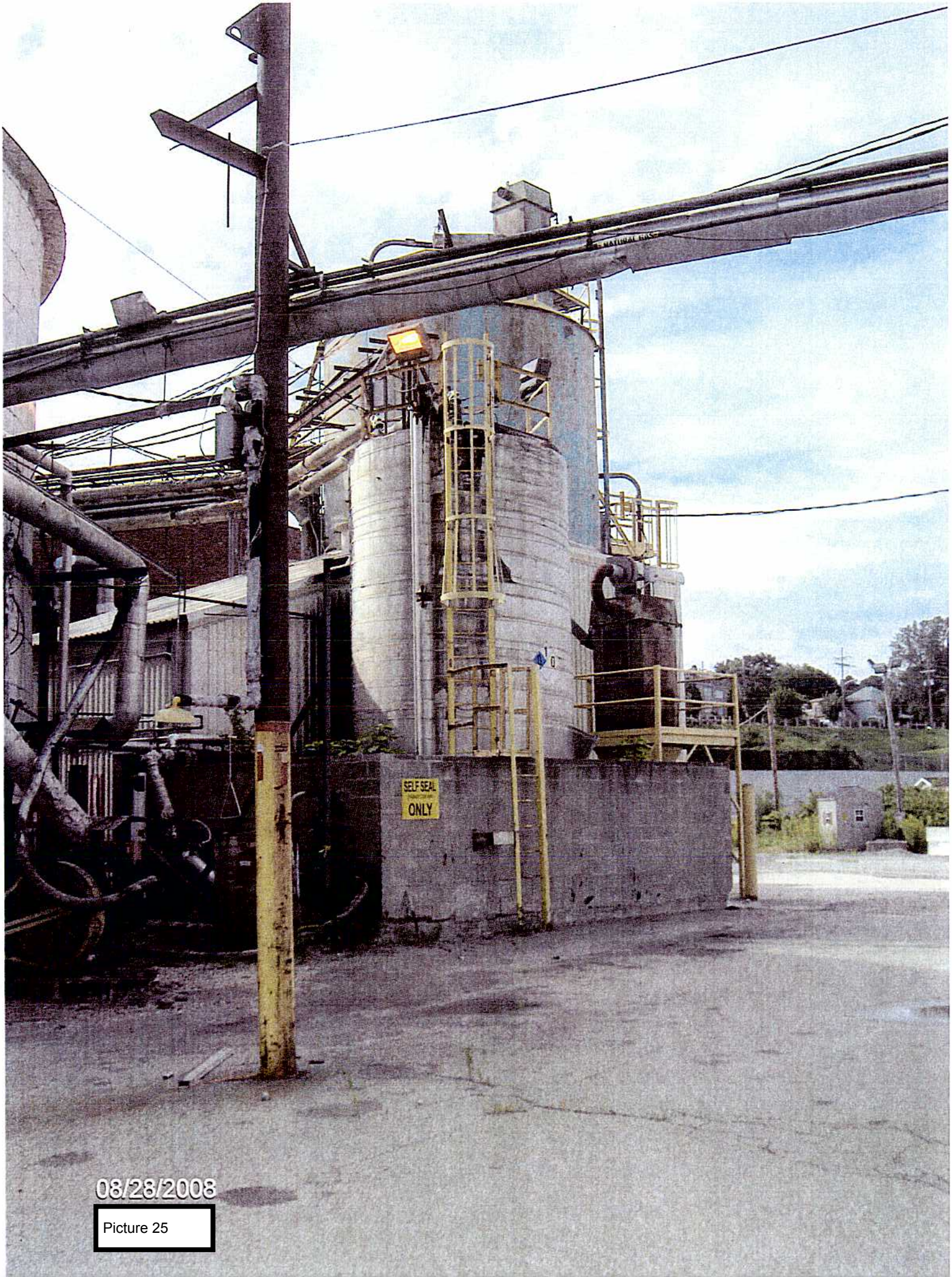

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Picture 25

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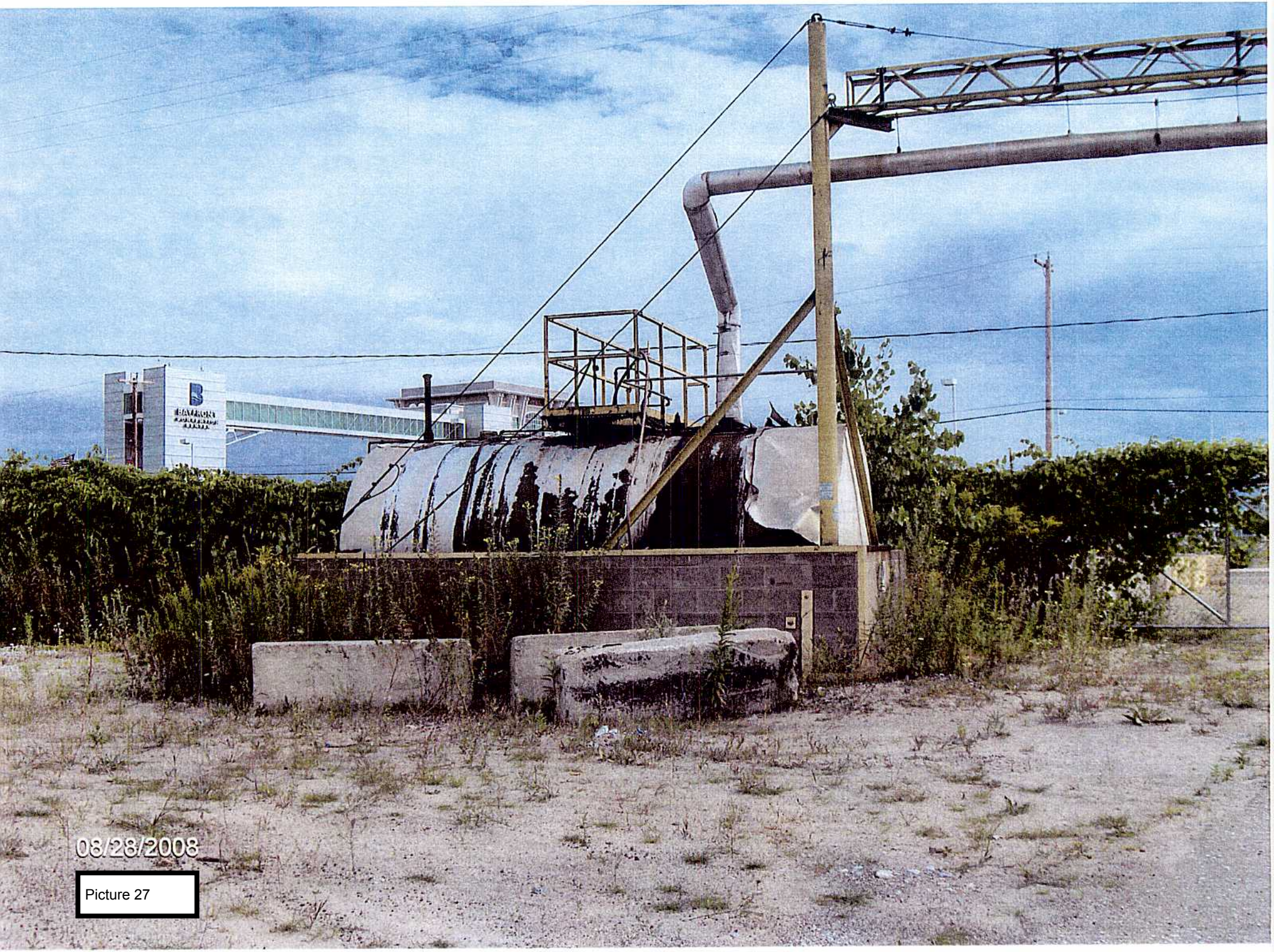
Picture 26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Picture 27

Picture 28

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Picture 29


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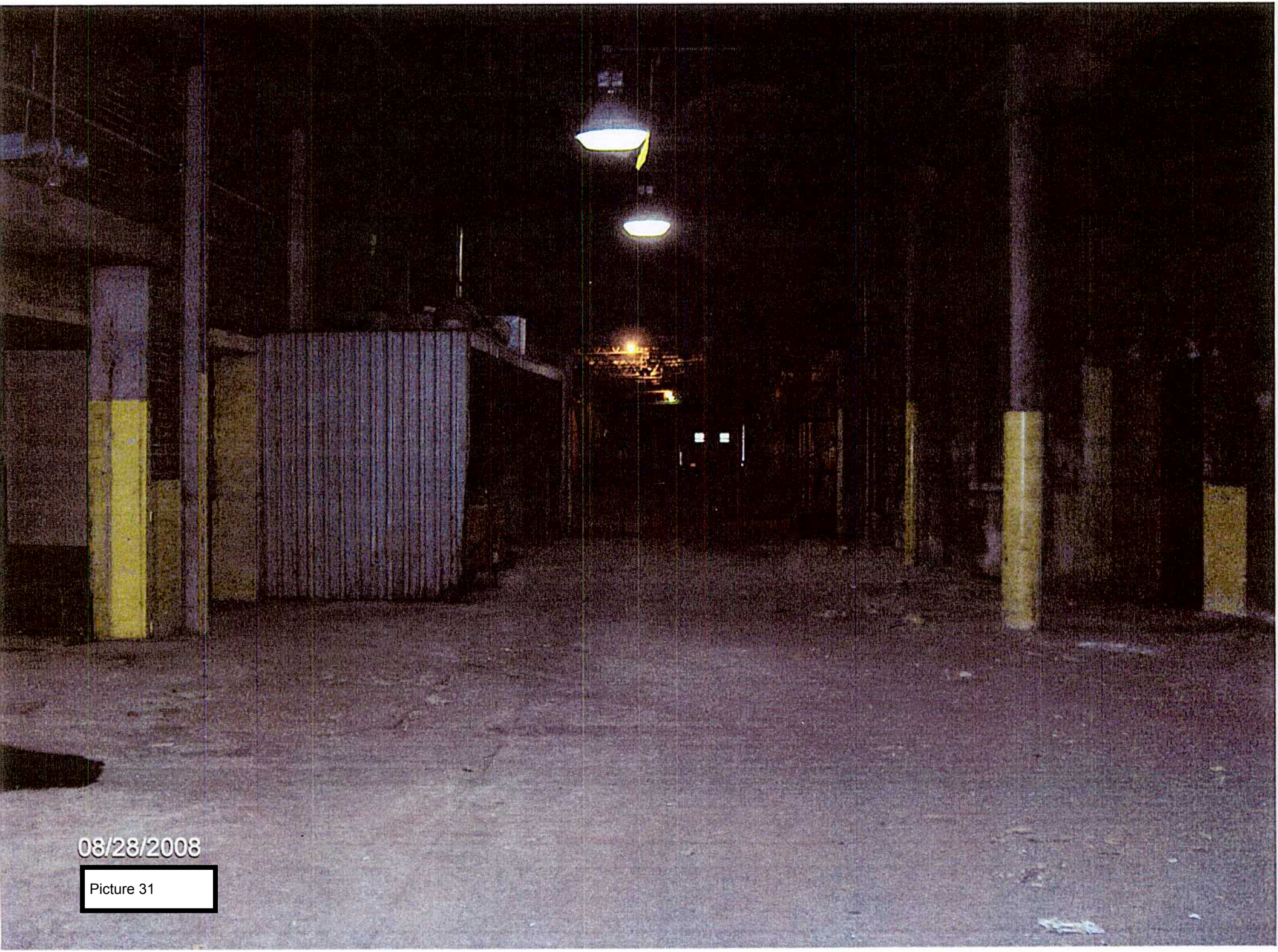
Picture 30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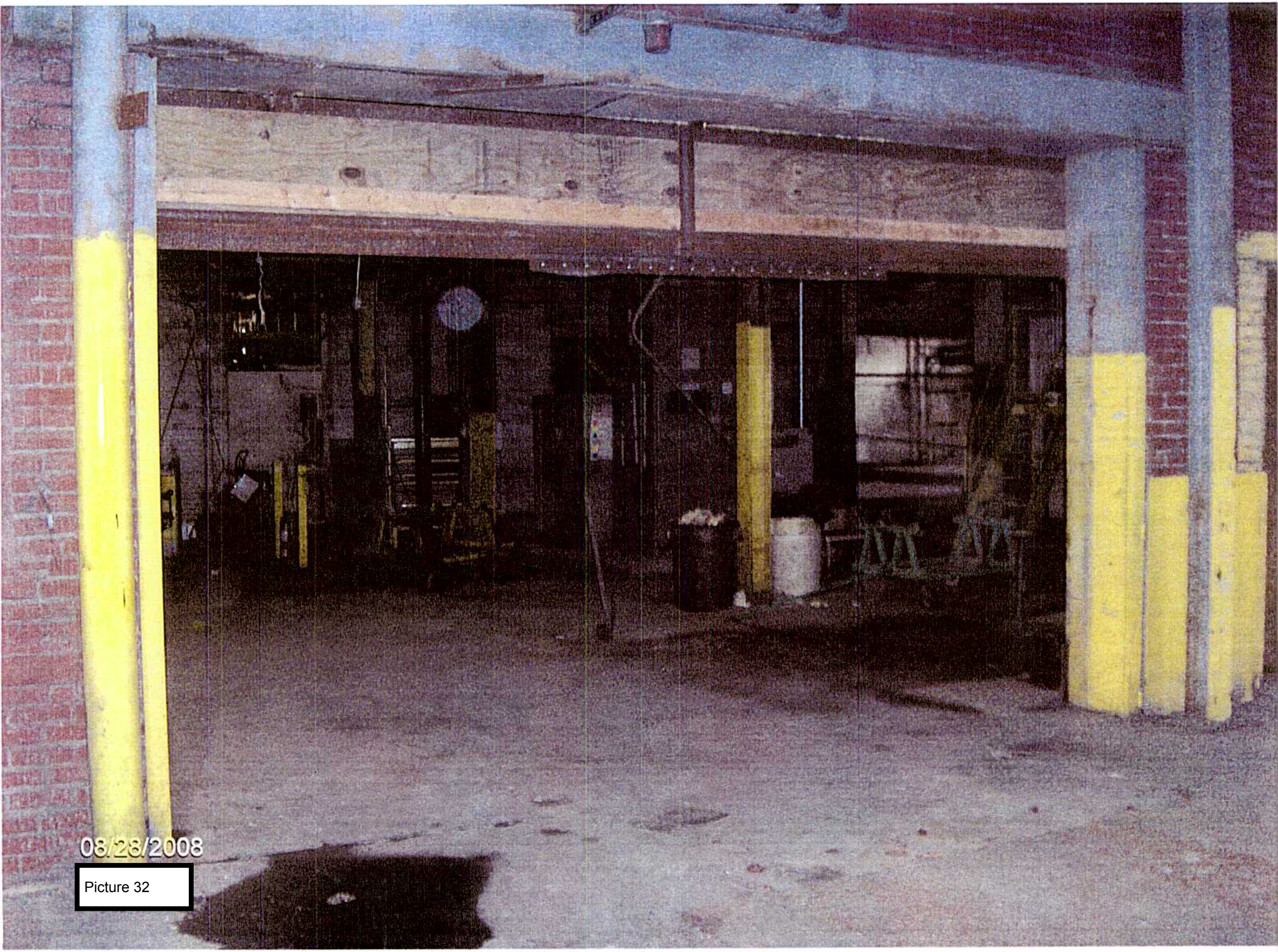

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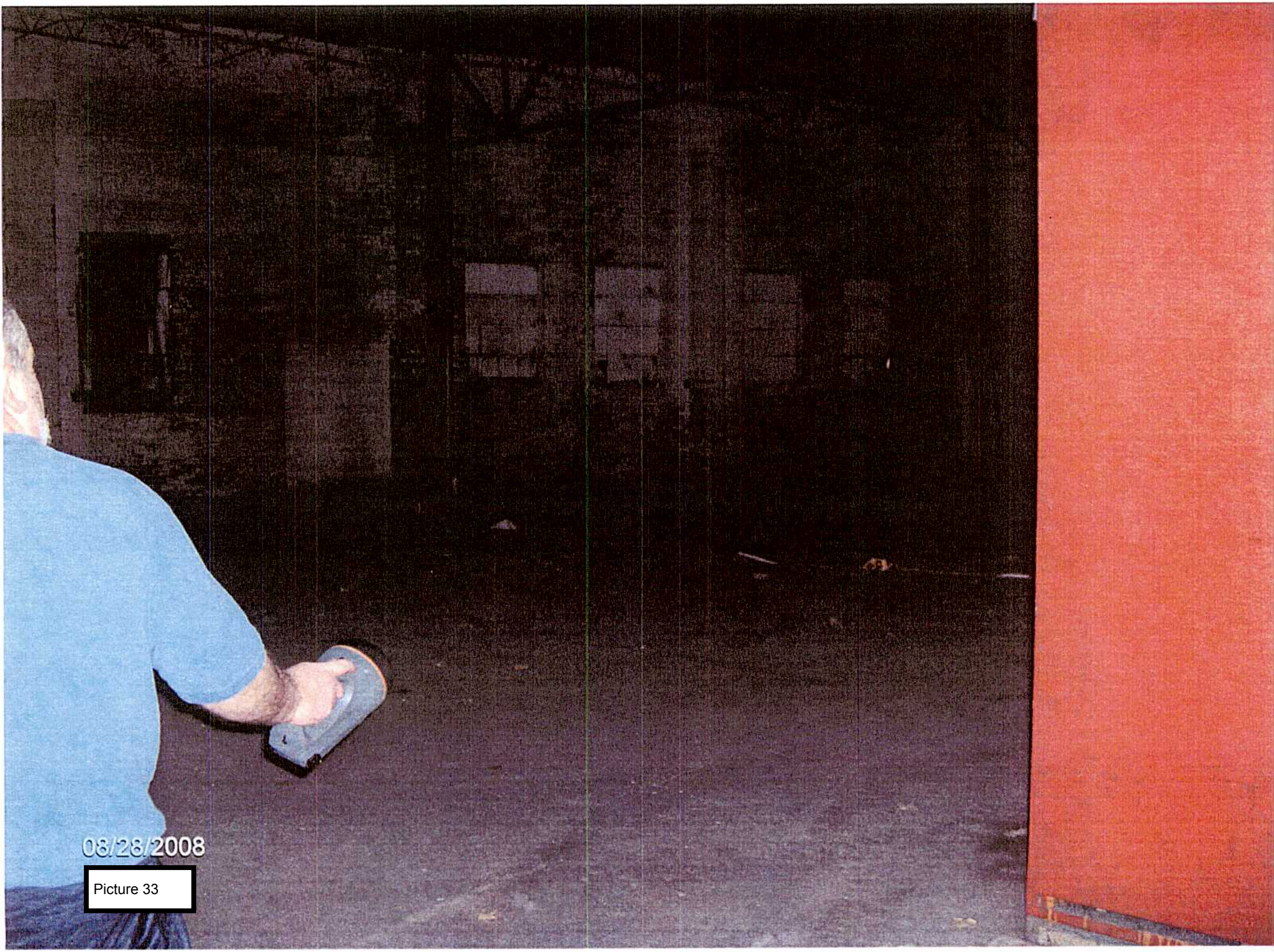

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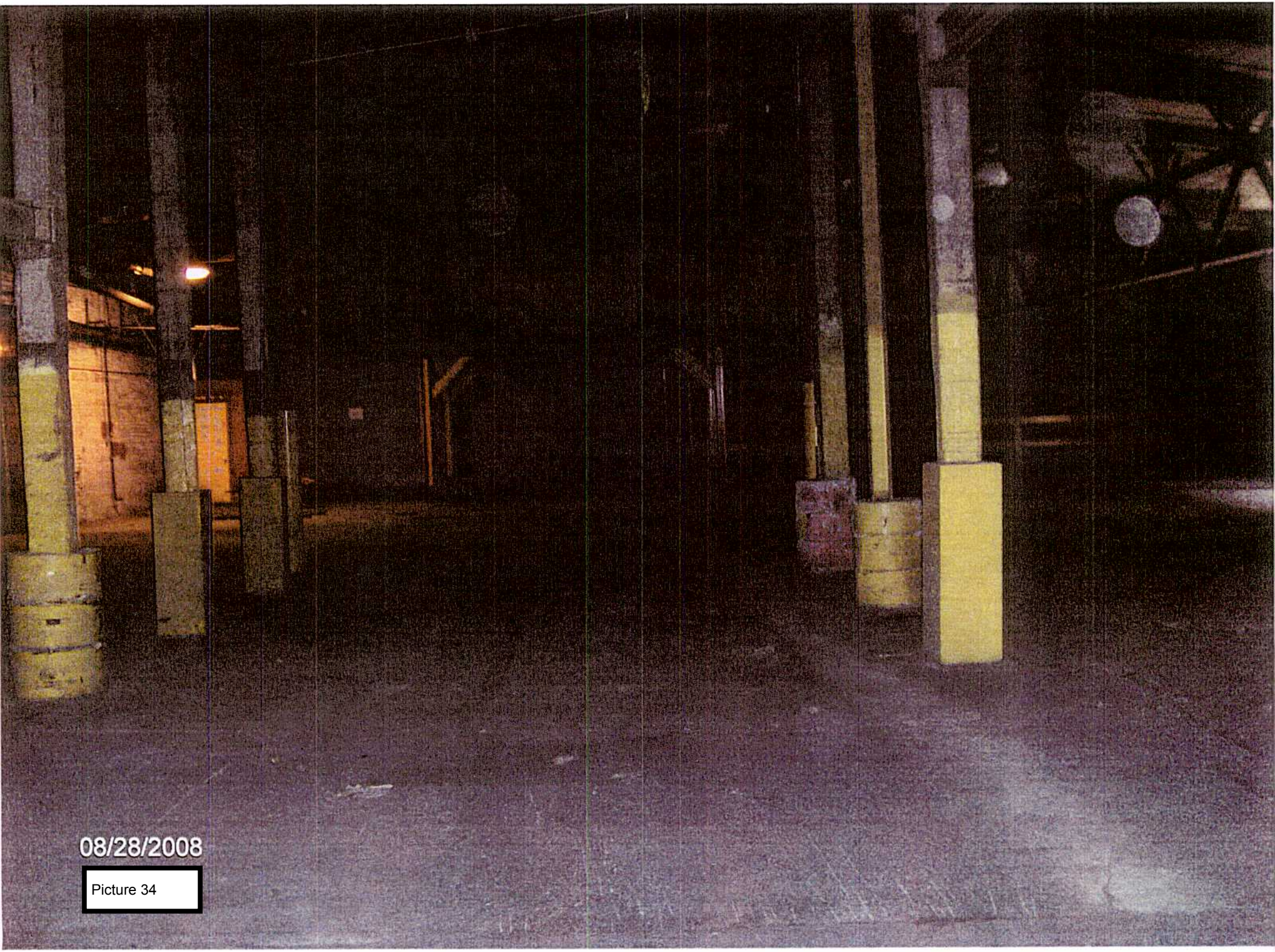
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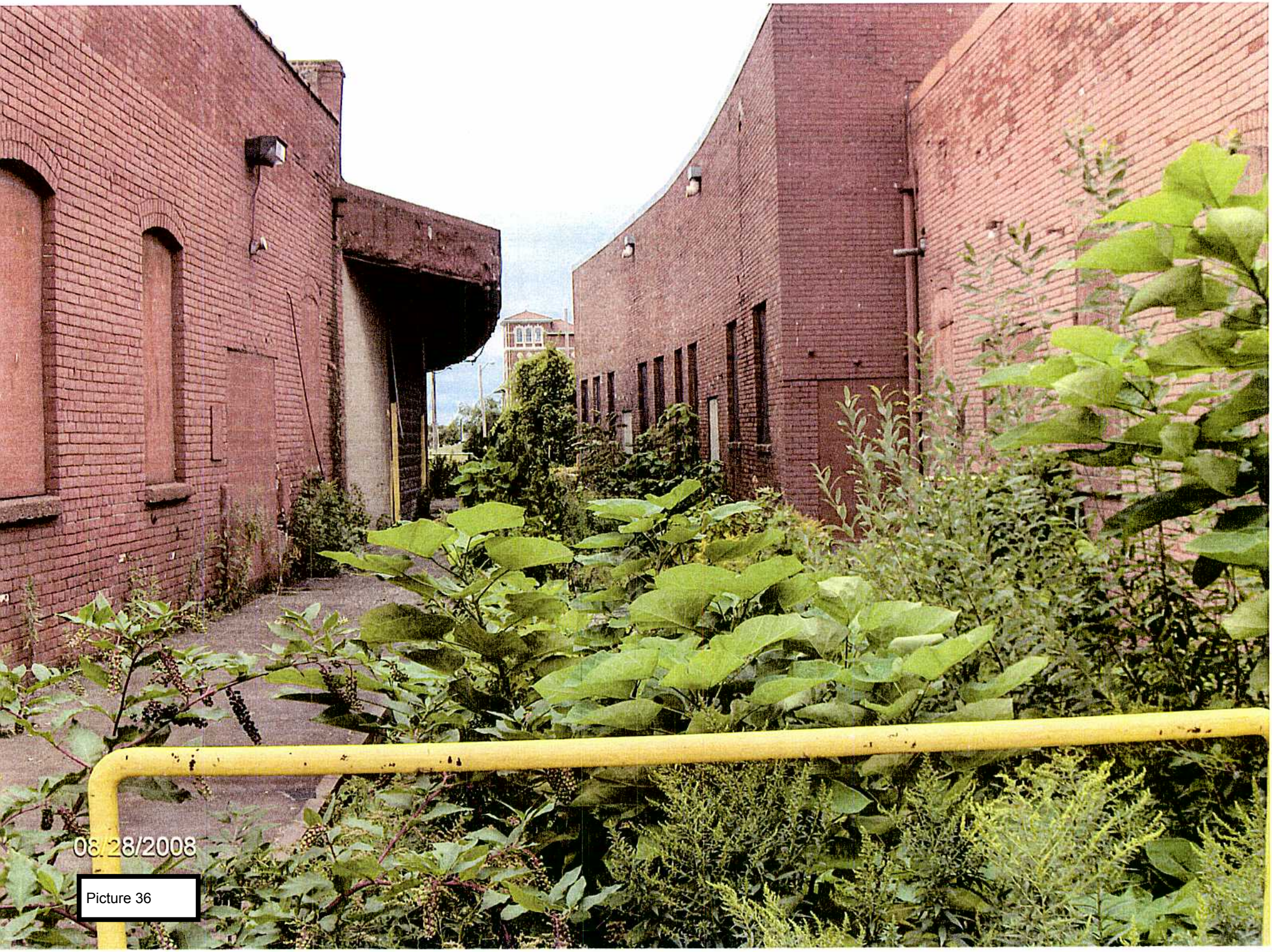

Picture 36

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Picture 37


08/28/2008
Picture 38


GAF
GOD BLESS AMERICA
08/28/2008
Picture 39

08/28/2008

Picture 40

Tank Key

T-1 - 500,000 gal asphalt

T-2 100,000 gal out of service

T 4 30,000 gal. cont loop tank

T-5 94,000 gal out of service

T-9 250,000 gal cooling water

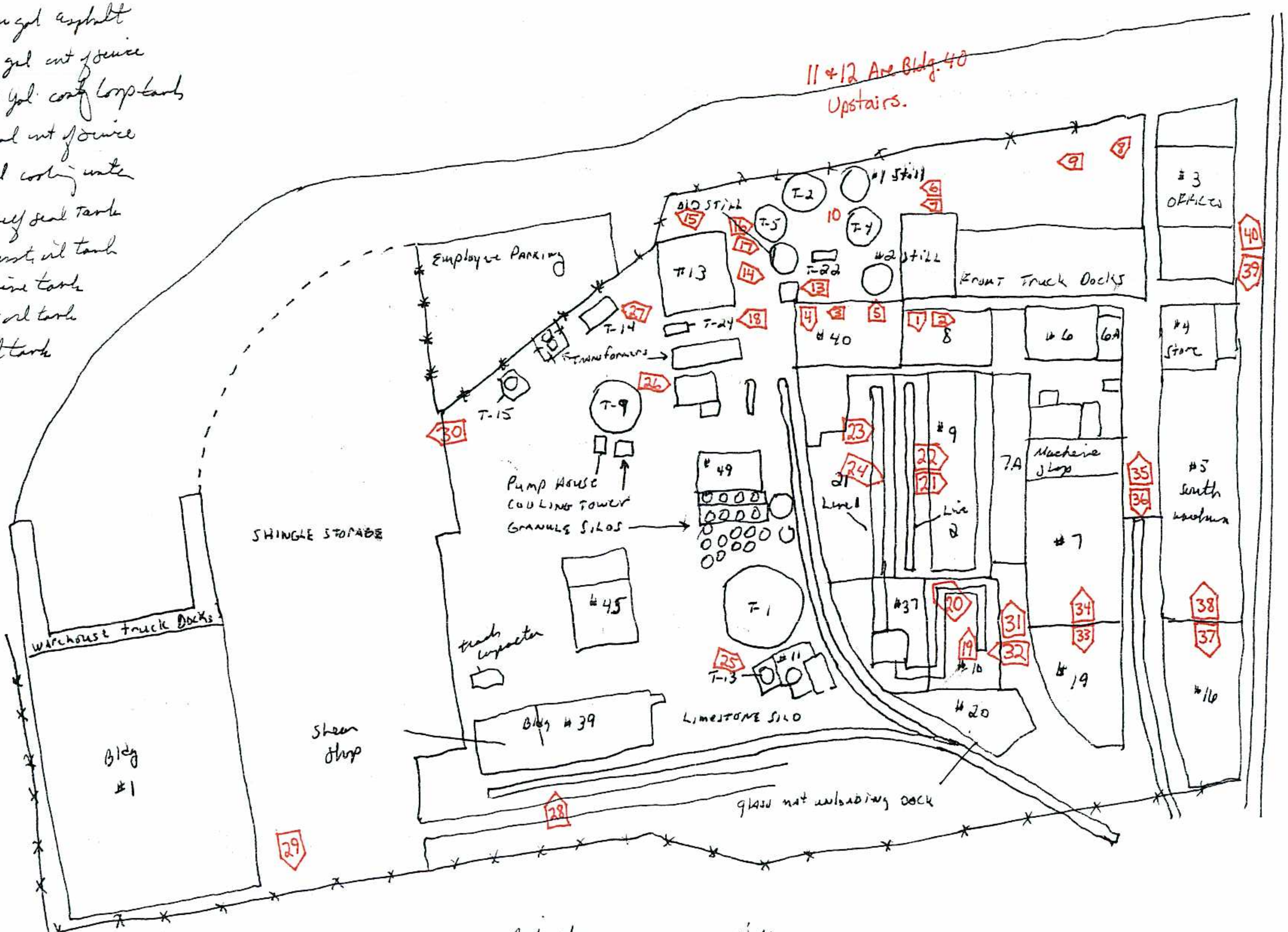
T-13 12,000 gal self seal tank

T-14 6000 gal inst. oil tank

T-15 2100 gal brine tank

T-22 500 gal hot oil tank

T-24 500 gal diesel tank



Building Key

1- warehouse

3-Main office

4-Storeroom

5-Storage

6 Compressor Room

6A Locker-lunch room

7 Storage Breezeway

7A

8 Old Tar Stills

9 Line 2

10 Warehouse / Palletizer

13 Boilerhouse

16 Storage

19 Storage

20 Storage

21 Line 1 Backend

37 Cutter / ATO's

40 Stills

45 Main Storage

49 Sand Dryer

APPENDIX H

RESUME OF ENVIRONMENTAL PROFESSIONAL

EXPERTISE

Mr. Crowley has 20 years of experience in the environmental field. He has worked on over 130 sites in 22 states throughout the eastern, southern, and midwestern United States. Experience on these sites includes Phase I Environmental Site Assessments, Remedial Investigations, Human Health and Ecological Risk Assessments, Regulatory Compliance and Remedial Planning and Implementation. Mr. Crowley has represented clients from the wood treating, chemical, utility, primary metals, and other industries on sites under RCRA and CERCLA enforcement actions by the USEPA, TSCA actions by the USEPA, various State enforcement and voluntary actions and brownfields redevelopment sites. Mr. Crowley's experience includes strategic planning, site investigation, fate and transport analysis, ecological and human health risk assessment, remediation and project management. He has provided strategic technical planning, evaluation, risk assessment and remedial support for sites with LNAPL, dioxins, pentachlorophenol, 1,4-dioxane, polynuclear aromatic hydrocarbons, volatile organics, metals and radioactive constituents. Mr. Crowley has also represented clients in the presentation of technical information at agency and public meetings. He is currently a Senior Principal Scientist responsible for management and coordination of the technical and financial aspects of remedial projects, and specializes in integrating risk assessment and fate and transport modeling services into the remedial process.

PROJECT EXPERIENCE

PROJECT AND TASK MANAGEMENT

- **ARCO Chemical Company/Beazer East Inc., Monaca Pennsylvania.** Project Manager for a $1.1 million investigation/risk assessment/report consolidation project for a chemical plant being remediated under Pennsylvania's Land Recycling and Environmental Remediation Standards Act of 1995 (Act 2). The Site was contaminated with petroleum hydrocarbons and LNAPL. In his role, Mr. Crowley successfully coordinated personnel from numerous disciplines in the consolidation of existing reports for six operable units on the site, while managing the budget on this multi-task project. Budget management was complicated by the need to separate costs on a site-by-site basis due to cost allocation issues between two former owners of the property. The project included using existing site data collected over a 10-year span supplemented by data collected to support the risk assessments and extensive fate-and-transport modeling in support of the selected remedial alternatives. Significant achievements were made by Mr. Crowley in strategic planning of the fate and transport modeling aspect of the project to show that the site was in compliance with the requirements of Pennsylvania's Act 2. This effort significantly reduced the amount of remediation required in all of the six site units.

- **PPG Industries Inc., Circleville, Ohio.** Project Manager for the implementation of a remediation plan to clean up groundwater contaminated with 1,4-dioxane. The project is being implemented under the Ohio EPA Department of Remedial Response under the State CERCLA program. A groundwater plume, historically controlled by a neighboring industrial entity, began migrating toward a municipal pumping field when industrial water demand dropped. Mr. Crowley led a feasibility study of options and found that the most cost-effective option was to construct two 750-gpm pumping wells to replace the lost groundwater production. Discharge water treatment options were evaluated and it was concluded that the water could be discharged to the nearby river, untreated, under a NPDES permit. The plan

was approved by the Ohio EPA and the wells and over a mile of discharge pipeline were constructed. The wells also have the beneficial effect of shortening the cleanup period by an estimated seven years, or by nearly 50%, while protecting the municipal pumping field and producing no substantial degradation to the high-quality water in the river.

- **Fike/Artel Chemical Superfund Site, Nitro, West Virginia.** Project Manager for a site-wide Remedial Investigation and Feasibility Study (RI/FS) at a Superfund Site in West Virginia. The site was formerly a specialty chemical manufacturing facility that produced various batch chemical products for local chemical companies, and was listed on the national Priorities List (NPL) due to the presence of dioxins and other organic chemicals. The USEPA identified 54 Potentially Responsible Parties (PRPs), who assumed responsibility for investigation and remediation. In addition to his project management duties, Mr. Crowley was designated as a member of the Community Liaison Panel for the site, responsible for presenting technical information to the community of Nitro, West Virginia. Mr Crowley initially served as the Risk Assessment Task Manager for this site. In this role, he was responsible for coordinating the risk assessment strategy and negotiating the human health and ecological risk assessment issues with USEPA Region III. Significant contributions were made to the project through justification of USEPA SW-846 Method 8280 for dioxins over the more expensive Method 8290 using risk assessment target concentrations to show Method 8280 would produce data of sufficient quality for risk management.

- **Former Textile Dye Facility, Bayer Corporation, Damascus, Virginia.** Task manager for the completion of a sitewide RCRA facility investigation (RFI) at a former textile dye manufacturing facility in Damascus, Virginia. Responsibilities in the task management role included field operations lead for the final round of field sampling and preparation of the RFI Report. The fieldwork included the collection of 50 surface soil samples for laboratory analysis and coordination of subcontractors onsite to excavate test pits to delineate an area of stained soil. This effort also included the direction of a laboratory in analysis of sulfur compounds that could not be identified by routine analytical procedures and in the analysis of bioavailability of lead and dioxins for risk assessment purposes. The responsibility of writing the RFI report entailed rewriting a previous version of the draft RFI report to include the new data. Responsibilities to this project continued through completion of the project, and included negotiations with USEPA Region III, presentation of technical information to the public, providing support to the remediation and assisting in the transfer of the property to the community for use as a park. Bayer ultimately received a release from the RCRA consent order, and the Site was deemed to have met the current RCRA Corrective Action Indicators.

- **Morgantown Technical Committee, Morgantown, West Virginia.** Task manager for preparation of remedial investigation report for a CERCLA Site in West Virginia. The goal for this effort was to expedite remediation under the Superfund Accelerated Cleanup Model (SACM) process. This project required that a remedial investigation report and risk assessment be prepared under a very aggressive schedule of less than 30 days. Significant accomplishments, in addition to meeting the short schedule, were made in assembling and directing a team in performing a complete risk assessment in six hours to show the PRP committee that minimal removal would be required to meet acceptable risks.

- **PPG Industries Inc., Natrium, West Virginia.** Task Manager for the preparation of the Phase 2 Report for a three-phase RCRA facility investigation at a chemical plant in USEPA Region III. In this role, Mr. Crowley was responsible for determining the appropriate

approach for the successful integration of the remedial investigation and the risk assessment reports, and directing the project team in the completion of the report on time and within budget. Mr. Crowley developed an innovative approach to use the USEPA Soil Screening Guidance (USEPA, 1996) to calculate site-specific soil-screening levels for the soil-to-groundwater migration pathway. This approach eliminated the need for further evaluation of the groundwater pathway on most of the 66 SWMUs on the site.

- **Beazer East, North Little Rock, Arkansas.** Project Manager for project scoping, work plan preparation, and field sample collection for an investigation at a creosote, pentachlorophenol (PCP) and chromated copper arsenate (CCA) wood treatment site in North Little Rock, Arkansas. The project focused on delineation of the nature and extent of site-related PCP, dioxins, polynuclear aromatic hydrocarbons and metals in several site-associated drainage ditch systems and a nearby swamp. Mr. Crowley designed and executed an approach that used conservative ecological benchmarks as delineation criteria. Field screening kits were then calibrated to the delineation criteria and used to guide and limit the sampling effort. Successful completion of this project required significant interaction with USEPA personnel to negotiate the selected approach. .

- **Beazer East, Port Newark, New Jersey.** Project Manager for a risk assessment at a site contaminated with polynuclear aromatic hydrocarbons (PAHs) in New Jersey. This project required delineation of zones representing target risks of $1x10^{-6}$, $1x10^{-5}$ and $1x10^{-4}$ to identify the amount of soil removal that would be necessary given each of these targets. Samples were iteratively removed from the data set and the 95% upper confidence level of the mean of the data recalculated until arriving at the smallest remediation area for each target risk.

- **Beazer East, Monaca, Pennsylvania.** Project Manager for a mercury remediation project performed under Pennsylvania's Act 2. In this role, Mr. Crowley assumed responsibility for the financial and technical aspects of a soil excavation project. Since the project was performed under the Pennsylvania Act 2 Statewide Health Standard, the excavation, confirmatory sampling and reporting aspects of the project had to be performed in compliance with the regulatory framework set forth by the Commonwealth of Pennsylvania. In addition to the excavation of mercury containing soils, Mr. Crowley was responsible for building the technical strategy and approach to show that remaining organic and inorganic constituents at the site posed no threat to groundwater through leaching. This was accomplished through vadose zone modeling that satisfied the requirements of an equivalency demonstration under 250.308(d) of the Act 2 Regulations.

- **Fairmont Site, Philadelphia PA.** Consultant to Vertex Engineering for Act 2 support on a redevelopment site in Philadelphia. The Site was an apartment complex contaminated with BTEX and PAHs from historical fuel oil tanks. Project support included guidance to perform the investigation risk assessment and remediation to obtain a release from liability under the Site-Specific Standard.

- **Castor and Wingohawking Site, Philadelphia, PA.** Provided consulting support to obtain a release from liability under the Act 2 Site-Specific Standard. The work included performing a site-specific pathway elimination risk assessment, and performing fate and transport modeling to obtain the release from liability for the Site.

ENVIRONMENTAL ASSESSMENTS/SITE INVESTIGATIONS

- **Consolidated Natural Gas, Eleven Gate Station Sites, Pennsylvania.** Field lead on a successful effort to investigate, remediate and perform confirmatory sampling at eleven gate stations on a natural gas pipeline in north central Pennsylvania. The project was being completed in advance of installation of a new natural gas pipeline. Completion of the project required coordination with a mobile laboratory due to the remote nature of the Sites. Project duties included collection of samples to assess the sites, coordination with the mobile laboratory, directing the excavation and collection of confirmatory samples.

- **Pennzoil Oil Company Oil City, Pennsylvania.** Provided assessment and optimization services for an existing LNAPL pumping system in an oil refinery in northeastern Pennsylvania. The objective of the project was to optimize the pumping to control LNAPL seeps to two creeks adjacent to the Site. The constituents in groundwater ranged from crude oil to light end distillates, to heavy waxes and grease-type materials. The project consisted of monitoring the groundwater levels and the LNAPL thickness while varying the pumping rates to manage product capture.

- **Confidential Client, Nuclear Materials Processing Plant, Pennsylvania.** Project lead on a successful effort to prepare a work plan for the site wide characterization of a special nuclear materials processing plant in Pennsylvania. This project presented unique problems in that the site contained chemical, radiological and mixed wastes. In addition to the unique waste problems, the work plan had to be written to address the concerns of both the Nuclear Regulatory Commission and the Pennsylvania Department of Environmental Resources. This project required the ICF Kaiser Project team to work very closely with the customer who was responsible for most of the radiological issues. Successful completion of this project also required the ICF Kaiser Project team to work very closely with a number of competing consulting firms in a joint effort to develop the work plan.

- **PPG Industries, Chemical Division, Natrium, West Virginia.** Assisted in the preparation of a RCRA facility investigation work plan for a sitewide investigation of 46 solid waste management units (SWMUs) and 19 areas of concern (AOCs). Specific tasks performed on this project included writing the sample collection methodologies for the various types of samples to be collected in association with the project, determination of appropriate sampling locations to address concerns in each SWMU and AOC, and writing parts of the quality assurance project plan (QAPP). Responsibilities to this job also included the field investigation in one of the SWMUs, a flyash disposal landfill. This field effort included the installation of approximately 20 soil borings and four piezometers. Wells around the perimeter of the landfill were also sampled as part of this effort.

- **Rhone-Poulenc Chemical Plant, Institute, West Virginia.** Participated in various sampling tasks of a verification investigation of 23 SWMUs at a chemical plant. Major responsibilities included data management of results of several hundred soil and groundwater samples. This task was accomplished by designing and writing a data management system in DBase IV to accept electronically delivered sample analytical data and manipulate it and a report deliverable for data analysis. Design of the data management system also included a module to write sample bottle labels to make field-sampling operations more efficient.

- **PPG Industries, Barberton, Ohio.** Analytical data management for quarterly monitoring data collected over a 10-year period, and analytical data collected in association with an RFI. The data were managed in a system utilizing DBase III+ software. The overall goal of this project was to support PPG in the effort to obtain a license to reclaim an area of the site. The data management included importing the data into Lotus 1-2-3 spreadsheets and performing a regression analysis to determine if data trends could be identified. The regression analysis included directing a team of five people to complete this effort in a timely manner for presentation to the Ohio Environmental Protection Agency. Successful completion of the data management task for this project required significant interface with a competing consulting firm that was in the process of implementing a site wide RFI. Mr. Crowley also prepared a document for the client that justified reducing the quarterly monitoring at the site to an annual event, and narrowing the list of parameters analyzed. The acceptance of this document by the regulating agency saved the client in excess of $40,000 annually in monitoring expenses.

PHASE I ENVIRONMENTAL SITE ASSESSMENTS

- **Avis Budget Group, Inc. Various Sites.** Mr. Crowley performed Phase I ESAs on various sites throughout Arkansas, Georgia, South Carolina, Ohio, Kentucky, West Virginia and Pennsylvania as part of site acquisition. The ESAs included meeting the requirements of ASTM Standard Practices E 1527-97, E 1527-00 and E 1527-05 as well as evaluating various other environmentally related issues, and assisting in negotiations with the owners for settlement of the identified environmental issues. Issues on these sites ate generally related to underground storage tanks containing petroleum products.
- **Prudential Realty, Inc. CNG Tower, Pittsburgh, PA.** Performed a Phase I ESA on the CNG Tower located in the downtown area of Pittsburgh. The ESA included meeting the requirements of ASTM Standard Practice E-1527-97 as well as evaluation of the building for the potential presence of asbestos, radon gas and *Legionella sp*. bacteria.
- **SuperValue, Inc. Various Sites.** Performed three Phase I ESAs on various sites intended to be used as grocery stores. The ESAs included meeting the requirements of ASTM Standard Practice E-1527-00 as well as evaluating various other environmentally related issues.
- **Alcoa, Inc., Eastalco Plant, Frederick Maryland**. Performed a Phase I Assessment and Buffer Zone Analysis for a 2,200-acre primary aluminum smelting site located in Frederick Maryland. The purpose of the Phase I was to determine if recognized environmental conditions exist on the property. The Buffer Zone analysis was performed to determine what portions of the 2,200-acre property could be divested with minimal environmental risk to current or future industrial operations on the property. Mr. Crowley evaluated the site with regard to past and present uses, current zoning, the environmental setting and potential future uses in order to determine which portions of the property could be offered for redevelopment. Consideration was given to maintaining an adequate buffer zone around the existing operation, and mitigating potential future contamination to the existing operation from future industrial users. The current buffer zone areas were categorized into three groups based on their potential for environmental risks to or from the existing operation. The groups were also divided into subgroups with suggested future use scenarios that would meet the objectives of the current property owner. The recommended future use scenarios included residential, commercial and industrial uses in different areas of the property based on current zoning, planned future growth, proximity to the existing operation, aesthetic issues,

groundwater flow direction and surface drainage. The project required integrating a number of disciplines including geology/hydrogeology, chemistry, risk assessment and geographic information systems (GIS) to evaluate the site and present the findings. The results of the evaluation were presented graphically in GIS overlays on both aerial photographs and USGS topographic maps. As a result of the project, an Asset Management Plan is being developed to manage the divestiture of the property surrounding the plant.

- **Alcoa, Inc., Various Sites.** Performed seven Phase I Environmental Site Assessments on various properties for acquisition/divestiture purposes. The Phase I ESAs were performed in accordance with the requirements of the ASTM Standard Practice E-1527-00 and Alcoa-specific ESA requirements.
- **PPG Chemfil, Inc. Troy, MI.** Performed a Phase I ESA on a former chemical manufacturing facility located in Troy, MI in support of property divestiture. The ESA included meeting the requirements of ASTM Standard Practice E-1527-00 as well as evaluating various other environmentally related issues.

HUMAN HEALTH AND ECOLOGICAL RISK ASSESSMENT

- **Beazer East Inc., North Little Rock, Arkansas.** Assisted in the preparation of a human health and ecological risk assessment for a wood-treating plant. This risk assessment required the integration of data collected as part of the sitewide RCRA facility investigation and data collected as part of a supplemental studies investigation. The risk assessment was completed to support a corrective measures study. Responsibilities to this task included project scoping and delineation of risk assessment areas on the site. The risk assessment included evaluation of exposure to constituents in PCP (including dioxins), CCA and creosote for their relevance human health and ecological risks. Significant accomplishments were also made in coordinating the data management and determining representative concentrations of constituents in the various areas on the site.

- **Beazer East, Follansbee, West Virginia.** Assisted in the preparation of a human health risk assessment for a coke gas recovery plant. Responsibilities in this role included Monte Carlo modeling of human health risks using Lotus 1-2-3 and @RISK modeling software.

- **Alcoa Inc., Ferndale, Washington.** Coordinated the preparation of a human health risk assessment to support the placement of TSCA waste into an existing Dangerous Waste (RCRA Permitted) Landfill. This risk assessment was performed in accordance with the requirements of the PCB Disposal Regulations promulgated under 40 CFR §761.61(c) (Risk Based Disposal Option). The risk assessment evaluated the realistic potential future exposure pathways associated with disposal of PCB contaminated soils in the landfill. The risk assessment was submitted to the USEPA and the State Regulators and was accepted, allowing the disposal to proceed. The successful completion of the project allowed on-site management of the waste, rather than expensive, off-site treatment and disposal.

- **PPG Chromium Sites, Various Sites, New Jersey**. Performed Monte Carlo modeling of the potential human health risks associated with chromium in soil. The Monte Carlo modeling was performed in conjunction with deterministic human health risk assessments to illustrate the overly conservative nature of risk assessments performed by USEPA standard (deterministic) risk assessment approaches.

PROFESSIONAL EMPLOYMENT HISTORY

Senior Principal Scientist – MACTEC, Inc. Pittsburgh, PA (2007–Present)
Office Manager/Senior Project Manager – Tetra Tech MM, Inc., Pittsburgh, PA (1999–2007)
Scientist IV – IT Corporation, Pittsburgh, PA (1999)
Project Manager – ICF Kaiser Engineers, Inc. Pittsburgh, PA (1993–1999)
Assistant Project Environmental Scientist – Remcor, Inc., Pittsburgh, PA (1988–1993)
Microscopist – Law Engineering, Inc., Charlotte, NC (1988)
Fisheries Biologist – Aquatic Systems, Inc, Pittsburgh, PA (1986)

EDUCATION

Bachelor of Science, Biology – Waynesburg College (1986)

PROFESSIONAL DEVELOPMENT/SPECIALIZED TRAINING

Media Training, Ann Green Communications, Charleston, WV, 1999

Risk Based Corrective Action (RBCA) ASTM Method E-1739, ASTM Technical & Professional Training, Cleveland, OH. April 1996.

8-hour Supervisory Training for Hazardous Waste Cleanup Operations, Remcor, 1991.

Groundwater Pollution and Hydrology, Omni Environmental Corporation, Princeton University, 1991.

AHERA Building Inspection/Management Planning Course, University of Cincinnati, 1989.

40-hour OSHA Hazardous Waste Cleanup Operation Health and Safety Training, CHMR 1988.

Microscopal Identification of Asbestos, McCrone Research Institute, 1988.

DISTRIBUTION
PHASE I ENVIRONMENTAL SITE ASSESSMENT
GAF BUILDING MATERIALS CORPORATION, INC. SITE

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