

FINAL RCRA FACILITY INVESTIGATION REPORT

Former Bethlehem Steel Corporation Facility Lackawanna, New York

PART II - APPENDICES

Appendix A.1: Summary Report of Monitoring Well Program. 2/16/81

Appendix A.2: NYSDEC Spill Records

Appendix A.3: Climatological Data

Appendix A.4: Potable Water Well Survey

October 2004

Submitted by:

TECUMSEH REDEVELOPMENT, INC. 4020 Kinross Lakes Parkway Richfield, Ohio 44286-9000



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APPENDIX A.1

SUMMARY REPORT OF MONITORING WELL PROGRAM 2/16/81

SUMMARY REPORT
MONITORING WELL PROGRAM
0120-079-10
FEBRUARY 16, 1981

Dames & Moore

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TABLE OF CONTENTS

			Page
1.0	Intro	duction	1
	1.1 1.2	Purpose and Scope Site Description	1 2
2.0	Field	l Investigation	3
	2.1	Monitoring Well Construction and Installation	3
		2.1.1 Solid Waste Area 2.1.2 Main Plant Area	3 5
	2.2 2.3	Pump Testing Sampling	7
3.0	Geob	nydrology	9
		Stratigraphy Ground Water Flow Direction Permeability	9 10 12
4.0	Moni	itoring Well Water Analysis Evaluation	14
5.0	Dilu	tion Analysis	15
	5.1 5.2	Introduction Methodology	15 16
		5.2.1 Two-Dimensional Steady-StateNumerical Circulation Model5.2.2 Stream-Tube Dispersion Model	16 17
	5.3	Results	17
•		5.3.1 Flow Field 5.3.2 Dispersion Effects	17 18
6.0	Con	clusions	20
Tab	les	·	
Plat	es		
App	endix	A - Estimate for Ground Water Discharge/Recharge for the Solid Waste Facility	
Ann	endix	B - Surface Water Runoff Analysis	

LIST OF TABLES

Table 1	Ground Water Chemical Analysis
Table 2	Ground Water Levels of Monitoring Wells
Table 3	Pump Test Data
Table 4	Dimensionless Nearshore Concentration $\overline{\mathbb{C}}$ Downstream of the Discharge Location
Table 5	Selected Contaminant Discharge Estimate — Solid Waste Facility Pounds/Sec.
Table 6	List of Symbols for the Dispersion Model
Table 7	Selected Contaminant Concentrations at North End of Solid Waste Facility
Table 8	Available Boring Information

LIST OF PLATES

Plate 1	Location of Ground Water Monitoring Wells
Plate 1A	Peak Rates of On-Site Surface Runoff
Plate 2	Cross Section I-F
Plate 2A	Cross Section I-F - Extended
Plate 3	Cross Section II-II'
Plate 3A	Cross Section II-II' - Extended
Plate 4	Cross Section III-III'
Plate 4A	Cross Section III-III' - Extended
Plate 5	Cross Section IV-IV'
Plate 6	Cross Section V-V'
Plate 7	Cross Section VI-VI
Plates 8A through 8I	Log And Monitoring Well Details
Plate 9	Flow Pattern From Late Erie to Niagara River
Plate 10	Bathymetry of the Study Area Used As Input Data to the Two- Dimensional Circulation Model/Flow Field of the Nearshore Area Obtained From a Two-Dimensional Circulation Model
Plate 11	Dimensionless Concentration of Non-Decaying Contaminants Discharged at the Shoreline From a Unit Line Source or Plane Source vs Dimensionless Downstream Distance
Plate 12	Dimensionless Concentration at the Shoreline vs Dimensionless Downstream Distance Assuming Each Unit Source Discharges at a Constant Uniform Rate

SUMMARY REPORT MONITORING WELL PROGRAM

1.0 INTRODUCTION

This summary report presents the results of the monitoring well program designed to provide limited geohydrologic and ground water quality data as part of the requirements by New York State Department of Conservation (NYSDEC) to operate a Solid Waste Disposal Facility of the Bethlehem Steel Lackawanna plant.

1.1 PURPOSE AND SCOPE

A report prepared by Dames & Moore entitled "Surface and Ground Water Monitoring Program for the Solid Waste Disposal Area", dated October 1978 provided background data and a proposed monitoring program to satisfy the 1978 NYSDEC requirements for obtaining a permit to operate a solid waste facility. A monitoring program, based upon the recommendations of the above report, was submitted to NYSDEC for review. This program was conditionally accepted and provided the design criteria for the ground water monitoring portion of the program. This included, the construction of eleven (11) monitoring wells at eight (8) locations, and limited test pumping and water sampling at regular intervals (Plate 1). Subsequent to the installation of the 11 wells, two additional wells were installed to further define ground water conditions in the Solid Waste Disposal Area.

Dames & Moore was retained by the Bethlehem Steel Company (BSC) to; provide drawings and specifications for the purpose of securing bids for installation of the monitoring wells, provide field supervision for the construction of wells, obtain samples, construct descriptive/graphic logs of the subsurface strata, and provide a summary report of data obtained from the installation of monitoring wells and chemical analysis of water obtained therefrom.

Bethlehem Steel directly contracted for well construction, provided for site preparation and surveying, performed pump testing where required, sampled the monitoring wells and provided for chemical analysis of water samples. Bethlehem Steel further provided supervision of the last four wells drilled.

1.2 SITE DESCRIPTION

The Lackawanna Plant occupies an area of approximately 2200 acres on the eastern shore of Lake Erie south of metropolitan Buffalo but lying within the City of Buffalo, Lackawanna and the Town of Hamburg. Topographically it is a gently sloping erosion surface developed on glacio-fluvial/lacustrine sediments. The surface is disected by three surface drainage systems; namely Blasdell and Smokes Creeks and the North Trench. Surface elevations vary from 590 ft near the eastern limits of the Lackawanna plant to 575 ft on the shore of Lake Erie to the west (Plate 1A). The Solid Waste Area has a maximum elevation of approximately 600 ft. Approximately 1/3 of the site area adjacent to the Lake is "made-land", having been reclaimed by the deposition of slag to a height of some 30 ft above former shorefront.

1.2.1 The Solid Waste Facility

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This solid waste disposal facility is composed primarily of the slag produced from the operation of both the blast furnace and the open hearth/basicoxygen furnace. The composition of the slag is predominantly calcium oxide with lesser quantity elements such as magnesium, iron, phosphorus, carbon, sulphur and minor constituents. Also disposed of in this solid waste facility is a relatively small percentage of other wastes, characteristic of the iron/steel making operation and some construction debris. Disposal in the solid waste area was begun early in the 20th Century at the inception of production at the Lackawanna facility. Disposal of slag (and probably early construction debris) was started near the original Lake Erie shoreline and progressed lakeward parallel to the original shoreline for a distance of The elevation was increased lakeward as the slag waste area || over 1,000 feet. enlarged, resulting in a wedge-shaped section (in profile) due to the increased depth of the lake with distance from the shoreline, and the increased elevation of slag above the lake with continued disposal. Apparently the slag fill was found to be a suitable base for building construction, in that today, some plant facilities exist over what originally was a nearshore slag waste area.

2.0 FIELD INVESTIGATION

A field program was implemented with the objectives and considerations outlined in Section 2 of the 1978 Dames & Moore report. While the present number of wells is insufficient to provide data necessary for a more comprehensive geohydrologic investigation, the information obtained from the limited number of wells appears sufficient to broadly characterize the water quality and ground water flow at the Lackawanna site.

Limited pump testing of three wells penetrating bedrock and five wells adjacent to Lake Erie, provided an indication of relative permeability in the upper bedrock aquifer and the solid waste, respectively. Water level data obtained during the sampling program permits a preliminary assessment of ground water gradients in the bedrock, in shallow sediments and within the Solid Waste Area. Thirteen weekly rounds of water samples have been obtained and analyzed. These data are presented in Table 1 and provide the basis for a preliminary evaluation of ground water quality.

2.1 MONITORING WELL CONSTRUCTION AND INSTALLATION

2.1.1 Solid Waste Area

The location of and design for monitoring wells was based upon the objectives in the Dames & Moore 1978 report to assess stratigraphy and ground water quality on the Solid Waste Area near Lake Erie and east and south of the main portion of the plant in both the shallow sediments and in the bedrock.

Because of the nature of the material in the disposal area a cable tool method of drilling was recommended wherein 8" or 12" steel casing would be driven to the desired depth. A PVC screen and casing was then installed inside this steel casing and the annulus backfilled with gravel and sealing material as the steel casing was removed.

Three types of wells were installed: 1) Type "A", designed to monitor water table conditions in the natural or artificial (slag) unconsolidated strata and installed with fully penetrating screens terminating on the first significant impermeable strata; 2) Type "B", designed to monitor water level and quality in the bedrock strata; and 3)

two steel wells with perforated casing installed in the central portion of the Solid Waste Area to provide for water level measurements.

Five Type "A" wells with fully penetrating screens were installed in the Solid Waste Area adjacent to Lake Erie, MW-1, 2, 3, 4 and 5 at depths ranging from 35 to 40 feet below the ground surface (see Appendix, Section A). The two steel monitoring wells 9 and 10 installed in the control portion of the Solid Waste Area were drilled to a depth of 87 and 57 feet respectively.

Construction of Well MW-1, located on the southwestern portion of the Solid Waste Area near the Buffalo Slag Plant, commenced on June 23 and was completed on June 25, 1980. (Pinkish-gray clay was encountered after penetrating 35 feet of slag and fill.

Well MW-2 is situated near the Lake Erie shore adjacent to the sludge pits west of the spare parts storage area. Very difficult site conditions forced removal of the drilling equipment after the hole was partially completed due to severe shoreline surf conditions. This well was started on July 7 and completed on July 15, 1980 at a depth of 39 feet. Approximately 25 feet of slag was found overlying 10 feet of gray sand and a sequence of interlayered sandy gravel and clay. Brown Marcellus shale was encountered at 38 feet at which depth the well was terminated.

Well MW-3A was started on June 10 and completed at a depth of 39 feet on June 12, 1980. This well is situated just north of Smokes Creek on the shore of Lake Erie. Approximately thirty-three (33) feet of slag, scrap steel and fill overlies what may be material deposited in an earlier channel of Smokes Creek (gravel with fragments of hard gray shale, flint, wood, reworked till). This, in turn, overlies a pale pinkish-gray silty clay with some trace of gravel.

Well MW-4A is situated between Smokes Creek and the government containment area and west of the liquor disposal area. This well was started on June 4 and completed June 9, 1980 at a depth of 40 feet on a multicolored sandy clay. Approximately 30 feet of gray slag overlies a sequence of pale red silty clay with layers of coarse sand and red and gray sandy clayey gravel, a thin layer of quartzose sand more clayey gravel and finally silty clay. Water bailed from the hole during construction near the base of the slag fill was very dark, containing finely divided

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black material. Also, an ignitable gas was observed escaping while drilling through the thin layer of sand found to occur between 36 and 37 feet.

Well MW-5A, situated on the shore south of the government containment area was started on May 27 and completed at a depth of 40 feet on June 2, 1980. Approximately 33 feet of slag and iron fragments overlie a gray silty clay and sand, with some gravel containing rounded fragments of shale.

Construction of wells MW-1 through MW-5 was almost identical. A fully penetrating 4" PVC screen was installed from the water table (Lake Erie) down to the first significant layer of clay in the underlying lake sediments. The annular space between the temporary steel construction casing and the PVC pipe was packed with an appropriately graded gravel and sealed with bentonite pellets and cement as the steel casing was removed. Because of the severe ice conditions expected on the shoreline, the 4" PVC casing terminated a few inches below grade and is protected with three (3) feet of eight (8) inch steel casing protected in turn by a concrete apron, the top of which is at grade. The PVC casing is fitted with a vented PVC cap, and the outer steel casing is fitted with a threaded steel cap. It is expected that the ice will override these wells, and, had they been constructed with casings extending above grade as is normal practice, it is believed the upper casing would be destroyed and the well choked with sediments, or obliterated.

2.1.2 Main Plant Area

The wells to the south and east of the main portion of the plant were installed as doublets. That is, one shallow Type "A" well designed to monitor the ground water quality of the water table in the natural shallow sediments adjacent to a deeper Type "B" well designed to monitor water quality in the upper bedrock. Shallow doublet Type "A" wells are installed with fully penetrating screens; the deeper bedrock Type "B" wells are constructed such that only the upper bedrock and where present, the immediately overlying sand is screened.

Type "A" and "B" wells are less than 10 feet apart, therefore only the deeper Type "B" well is logged. The Type "B" well was drilled first, to enable the field engineer to determine the exact depth and range for screen installation in the adjacent Type "A" well in advance of construction. Type "B" wells are gravel packed to an

elevation approximately two feet above the top of the screen. A minimum of two feet of bentonite pellets was placed over the gravel and the remainder of the annular space sealed with cement grout to isolate the upper bedrock ground water from overlying ground and surface water sources.

Doublet drilling began on April 29 with Well MW-6B and was completed by May 13, 1980 when the casing was in place for MW-8A. After completion of the monitoring wells, development was effected by bailing to remove fine grained portions of the gravel pack adjacent to the screen and to obtain an estimate of well yield.

After analysis of data resulting from the planned drilling program revealed the need for ground water level information in the central portion of the Solid Waste Area, two additional monitoring wells were installed (MW-9 and MW-10). Because the primary purpose of these additional wells is to provide only for water level measurements, well construction requirements were modified. After the steel cased wells were drilled to the desired depth, the casing was perforated at three levels within the solid waste with a "knife" designed for this use. The bottom of the casing was sealed by driving into clayey lake bottom sediments. Additionally, bentonite pellets were placed in the bottom of the casing to prevent any possible downward flow of degraded water through the open casing to underlying sediments.

Well MW-9 was completed in shale at a depth of 87 feet on November 18, 1980. Approximately 70 feet of slag and fill overlie lake sediments. The shale bedrock was encountered at a depth of 85.6 feet. Directly overlying this shale is an eight foot thick unit of clayey gravel, overlain by seven feet of gray gravel and sandy gravel. After perforating the casing the well was "bailed" at a rate of forty (40) gpm for approximately one-half hour.

Well MW-10 was completed on December 12, 1980 at a depth of 57 feet, in a dense brown clay. The surface elevation being approximately 25 feet lower than that of Well MW-9 results in encountering lake sediments at a depth of only 36 feet. The occurrence of fine gray gravel and slag between 36 and 42 feet may represent the transition to lake sediments. A section of interlayered fine sand and clayey gravel underlies this transition zone and overlies the six feet of dense brown clay penetrated before the well was terminated. After the casing was perforated this well was "bailed" at a rate of 20 gpm.

Bethlehem Steel Company personnel surveyed the completed wells to provide a reference for water level measurements to be used for evaluation of ground water flow direction and velocity.

2.2 PUMP TESTING

Provision was made by NYSDEC, in the conditional acceptance of the monitoring program submitted by Bethlehem Steel Company, for the installation of a downgradient bedrock well in the event a "significant" flow of water was encountered in any of the three planned Type "B" bedrock wells. Consequently, a limited test pumping program was performed to provide for an estimate of ground water flow.

It is important to note that pump tests performed on wells in fractured rock are difficult to meaningfully interpret because of the dependency on fracture intensity and direction. Such structural features will influence ground water flow within a rock aquifer system. Pump test results should only be used with caution in an evaluation of permeability. The inter-relationship between overlying (and possibly adjacent) sediments and the fractured bedrock is considered in the 1978 Dames & Moore Report on p. 10 and became apparent when testing MW-7B.

Dames & Moore provided Bethlehem Steel Company with a test procedure and completion form to guide their personnel in performing a 120 min. limited pumping test, with equipment purchased for the purpose of obtaining water samples for the monitoring program. Bethlehem Steel personnel were instructed and for the first test, assisted by a Dames & Moore field engineer. The submersible pump used for performing the test has a maximum capacity of eight (8) gallons per minute (GPM). This pump was installed at a depth determined by results obtained during the "bailer" test performed with the drilling equipment after completion of the well. A valve installed on the pump discharge pipe enabled a constant water flow to be maintained as the water level in the well dropped. Water levels were measured by the wetted tape method.

The results obtained from the pump testing of Type "A" MW-l, 2, 3, 4, 5, and Type "B" MW-6, 7 and 8, wells are discussed in Section 3 and included as Table 3. A wide range of transmissibility was observed between the three Type "B"

wells. However, these data do permit an evaluation at least sufficient to provide for a preliminary assessment of ground water flow characteristics.

2.3 SAMPLING

After completion of the monitoring wells, a program was initiated to obtain ground water samples on a bi-weekly interval commencing July 8, 1980. Thirteen sample rounds have been completed and the resulting chemical analyses are provided in Table 1. A sampling protocol was established part of which required that a minimum of three casing volumes of water be removed from the well before drawing the sample. Samples were delivered to the Bethlehem Steel laboratory within one hour of the time they were drawn to reduce the potential for deterioration before analysis. The submersible pump tentatively planned for obtaining water samples was difficult to use and maintain, consequently a small self-priming centrifugal pump was used.

3.0 GEOHYDROLOGY

Ground water migration is a function of hydraulic gradients and permeability of the material through which the water moves. Data obtained during the construction and monitoring program, although limited by the relatively few wells installed for a site of this size, does enable us to provide a preliminary evaluation of ground water flow at the Lackawanna Plant. Available data does not, however, permit a detailed analysis because of the wide range of permeabilities encountered; our limited knowledge of the sediments, the character of the upper bedrock topography, the amount, location and direction of bedrock fracturing and the heterogeneous nature of the solid waste.

3.1 STRATIGRAPHY

An interpretation of the alluvial stratigraphy, based upon information available from previous borings, was presented in the form of cross sections I through IV in the 1978 Dames and Moore report. In the present summary report the stratigraphic interpretation is expanded to include data obtained during the monitoring well construction program (Plates 2 through 7).

Boreholes drilled for monitoring wells MW-1A through MW-5A adjacent to Lake Erie on the Solid Waste Disposal Area indicate that approximately eighteen (18) to twenty-five (25) feet of slag exists below the lake level. A gray silty sand and clay containing an occasional thin layer of clayey gravel underlies the slag fill. One boring, MW-2A, encountered the shale bedrock under twelve (12) feet of lake sediments (Plate 6). This occurrence is along the line of a projected bedrock high found in the offshore boring line and illustrated on cross section IV-IV' in the 1978 report (Plate 5).

If the elevations of the bottom of the slag obtained in borings represents the original lake bottom profile, the shallow depression in the sediments found to exist near MW-2A may be related to the possible existence of a former erosion channel caused by discharge from Smokes Creek. An apparent rise in the original lake bottom profile exists south of this depression directly over the assumed bedrock high.

If the fine grained clayey sediments found to exist in the boreholes MW-1A through 5A and MW 9 and 10 are indicative of sediments under the slag fill generally,

vertical flow downward into the underlying shale would probably be very slow and largely a function of the relative amount of clay present in the sediments. A sample of the clay encountered at a depth of 53.5 feet in the sediments underlying the solid waste in Well MW-10 was tested in the laboratory and found to have a vertical permeability of approximatley 2×10^{-8} cm/sec. The possibility exists, however, that such relatively impermeable sediments may be absent in some areas, particularly over the bedrock shale high which may traverse the slag fill area.

Cluster wells MW-6A and B, 7A and B, and 8A and B were installed south and east of the main portion of the plant. Based upon a review of logs obtained during the construction of these wells and other available boring data (Plates 8A through 8I), a somewhat complex subsurface stratigraphy was found to exist. The Marcellus shale bedrock (which was found to contain intercalated dolomite limestone beds) was eroded by glacial ice apparently leaving a pronounced topographic relief on the bedrock surface. Although insufficient control exists to permit a definite analyses; it would appear the bedrock surface was deeply gouged in the vicinity of boring 210 and subsequently partially filled with glacial till. Superimposed upon this surface is a sequence of generally fine grained lake sediments. A significant effect of this gouging is the exposure to the sediments of up to fifty (50) feet of bedrock which may contain permeable fissures within beds of limestone, (see Plate 7).

3.2 GROUND WATER FLOW DIRECTION

Ground water level and pump test data obtained from the construction and testing of monitoring wells appears to provide an adequate data base for a limited assessment of permeability characteristics, gradient and direction of flow, within the Solid Waste Facility, the sediments and the bedrock at the Lackawanna site.

An evaluation of the ground water levels obtained from the Type "B" wells reveal a potentiometric surface in the upper bedrock which is approximately equal to, or slightly higher than the level of Lake Erie. Water table elevations obtained from the Type "A" wells illustrates the influence of surface elevations and the relative permeability of shallow sediments. Type "A" wells adjacent to Lake Erie reflect lake level, whereas Type "A" wells east of the plant approach a ten (10) foot positive difference in water table/Lake Erie level elevation. This difference in vertical gradient suggests that the fine grained lake sediments act to retard the vertical

movement of water (aquiclude - perhaps leaky) downward, to the upper bedrock ground water regime.

Direction of ground water flow in the upper bedrock in the vicinity of well MW-6B would probably be southward toward Blasdell Creek. The difference in hydraulic head is approximately 2.8 feet. The horizontal distance between the well and the creek is approximately 800 feet. The direction of flow in the water table sediments at the MW-6 location is probably also toward Blasdell Creek.

No apparent gradient exists between the piezometric head in MW-7B and the level of Lake Erie; therefore, direction of flow in the vicinity of the well is uncertain. However, the upper bedrock would probably be hydraulically closely connected to the adjacent sediments (see Plate 7). The water table elevation in the shallow MW-7A well is approximately 5.5 feet higher than the Lake level. Ground water flow in the upper sediments would tend to be toward Smokes Creek.

The piezometric surface in well MW-8B is only slightly higher than the Lake level (approximately one foot). The direction of flow could be either toward Buffalo Harbor, or directly toward Lake Erie. Well MW-8A encountered the highest water table elevation observed in all monitoring wells; approximately 583.4 feet, or 8.9 feet above the Lake. Flow direction of the water table in the vicinity may be to the northwest and west.

Lackawanna's Solid Waste Facility, (the slag fill area) has become, over the years, a man-made water table aquifer of considerable proportions. Rainfall on the fill area provides recharge in sufficient quantity to establish a ground water gradient from the higher elevations in the fill to the Lake level and to other low lying drainage areas surrounding this fill; for example, Blasdell Creek, Smokes Creek, the Ship Canal, North Trench, etc.

Water levels observed in all wells installed along the lake shore, MW-1A through MW-5A, are essentially equal to Lake level as would be expected with wells in relatively permeable fill adjacent to the Lake.

Two wells, MW-9 and 10 were drilled in the central Solid Waste Area to determine ground water elevations at these locations in order to assess gradients

between the central area and Lake Erie. Wells MW-9 and 10 were found to have levels of 2.4 feet and 2.0 feet higher than the lake, respectively on December 18, 1980. If an approximate distance of 1,000 feet is used to represent the distance from the ground water level at these locations to the Lake or Creek banks then the estimated gradient is approximately 1.7 X 10⁻³ (dimensionless). (Ground water flow direction would be away from the ground water table high toward the lake and other adjacent drainage features. Generally, the water table is a subtle reflection of the surface topography and consequently, contours drawn on this water table surface would probably appear to be elongated parallel to Lake Erie within the central Solid Waste Area.

PERMEABILITY

Short term, pump tests performed on wells MW-6B, MW-7B, and MW-8B were sufficient to establish preliminary permeability data to assess ground water flow rate in the upper bedrock. Well MW-6B was pumped down and a subsequent recovery 2.93 x10 cm/s test indicated a permeability (K) in the upper bedrock of approximately 0.62 gallons/day/square foot (gpd/ft²). This relatively low permeability is consistent with the steeper gradient found between this well and the Lake level.

A short pump test of well MW-7B revealed an unexpectedly high permeability of approximately 1400 gpd/ft². The only plausible explanation for this high value may be the possible existence of solution channels in the limestone, or very fractured bedrock. The potentiometric level in this well is very close to that of Lake Erie, as would be expected with the high transmissibility encountered.

MW-8B is the deepest of the monitoring wells and encountered limestone and shale and terminated at a depth of 71 feet, in shale. Apparently this well is drilled into what appears to be a buried valley, see Figure 7. Permeability of the upper limestone bedrock in the vicinity of this well is estimated to be 137 gpd/ft. This is 6.48 y10 cm/s reasonable in consideration of the presence of an overlying sand layer and possible connection with adjacent sediments.

In order to assess ground water flow out of the solid waste and into Lake Erie it was necessary to obtain a permeability estimate for the slag fill. A limited (120 min.) pump test was performed on each of the five lakeside wells, MW-1A through MW-5A. Although proximity to the lake resulted in stabilization after a few minutes,

sufficient data was obtained to provide an adequate level of confidence in timedrawdown curves.

Analysis of that, apart from zones (solution cavities) of unusually high permeability results, indicate the permeability ("K") of the solid/waste pump test is approximately 800 gpd/ft. (see Table 3). By applying; 1) the 800 gpd/ft. value of K, 2) the estimated saturated thickness of the solid waste at discharge areas; 3) the approximate length of discharge zones, and 4) the gradient found to exist between the central area and the discharge zones, in a calculation for total estimated ground water flow, it would appear that approximately 80,000 ft. 3/day of ground water is entering Lake Erie from the Solid Waste Facility. This appears to correlate with the estimate for recharge to the ground water system by rainfall. See Appendix A.

12 = 5 GFM

80,000 FT3/DAY = /CFS

4.0 MONITORING WELL WATER ANALYSES EVALUATION

Monitoring wells MW-1A through MW-5A adjacent to Lake Erie, fully penetrate the saturated portion of the slag of the solid waste facility. Therefore, the chemical analyses should be representative of the liquids draining from the disposal areas upgradient of each well and toward the lake.

The analysis of samples obtained from these wells indicate a very high pH. This indicates free hydroxide, which may originate from waste lime disposal or possibly the slag. Slaked lime can have a pH slightly above 12 and analysis of samples obtained in wells MW 1A through 5A consistently have a pH in the range of 11 to 12.

There are strong indications of other types of contamination, since the total dissolved solids are several times that of any other water samples taken in the monitoring program. The lake shore wells, particularly Wells 1, 2 and 3 also have significantly high eyanide content and both Wells 2 and 3 have significantly high phenol content which probably originates from the tar bottoms disposed of over the years.

At Well Location 6 and 7, there does not seem to be a significant difference in the chemical analysis between the shallow and deep well. Therefore, it appears that contamination in the area has penetrated down through the surficial soils into the underlying bedrock.)

In the case of Well Location 8, the shallow well seems to be very high in total dissolved solids, particularly sulfates, while the deep well (much deeper than any of the other monitoring wells) has a significant but small amount of contamination.

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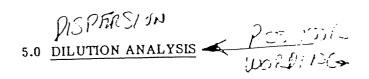
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INTRODUCTION 5.1

The Solid Waste Facility begins at the southernmost end of the Lackawanna plant, near Blasdell Creek and extends over a shorefront distance of approximately 13,000 feet due north towards Buffalo Harbor. Contaminants can enter the Lake through two routes; surface runoff from the disposal area entering Blasdell Creek and Smokes Creek (which eventually discharges into the lake) and leachate through the ground water system. The purpose of this study is to investigate and evaluate the dispersion effect of the Lake Erie flow regime on these possible sources of pollutant input into the lake environment under normal flow conditions.

The complex flow dynamics and turbulent dispersion mechanisms in the coastal area of the Great Lakes have attracted attention of many investigators. Circulation in the Great Lakes is wind-driven in nature. Data collected by USGS gauging stations show that normal flows in the Niagara River is about 200,000 cfs. Wind-driven circulation in Lake Erie results in a generally west to east, near-surface flowing direction in response to an eastward surface wind stress. Plate 9 shows the stream-line pattern in Lake Erie from a model study (Silberman, et al. 1969).

In the coastal area, the surface wind stresses act as the main driving force coupled with effects due to Coriolis force, inertial acceleration, friction and sometimes stratification (Csanady 1972 a and b). A nearshore band becomes a unique kind of coastal boundary layer in which the offshore mid-lake motions adjust to the presence of the shore. Currents are shore-parallel and relatively persistent within this boundary layer zone and are in direct response to wind shifts. Sheng (1975) showed that the effect of horizontal diffusion and advective transport are more important in the narrow coastal boundary layer where streamlines generally follow the shorelines than the offshore area. The width of the boundary layer is on the order of less than mile for Lake Erie. Contaminant dispersion in the coastal zone result in "coastal entrapment" of pollutants with the formation of a polluted effluent plume generally following the shorelines (Csanady, 1970). Observations made in Lake Huron (Murthy, 1972) have shown that pollutant discharged near the shoreline could form a welldefined plume hugging the shoreline. Relatively quick dispersal occurred offshore followed by reversals in plume direction in response to reversals in wind direction.

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The general understanding of the complex nearshore flow and mixing mechanisms has therefore led us to investigate the effects of pollutant input into the Lake from the site's slag disposal area by using two models; a two-dimensional circulation model for the nearshore hydraulic regime and a stream-tube dispersion model for the dispersion effect within the narrow coastal boundary layer. The effect of dispersion on pollutants discharged into the lake in response to a northward flow towards Niagara River (Plate 9) was investigated. Discussions of the models and results are presented in the following sections.

5.2 METHODOLOGY

5.2.1 Two-Dimensional Steady-State Numerical Circulation Model

A two-dimensional model was used to produce shore-parallel streamline pattern within the nearshore zone of the lake at the Lackawanna site. This model describes the steady-state circulation in a surface water system. The input data include total flow through the system, boundary locations and depth field. Plate 10 shows the boundary of the study area. The total flow across the southernmost boundary near Blasdell Creek is 20,000 cfs, approximately 10% of the flow through Lake Erie to Niagara River between the shorelines of the site and the easternmost boundary (Plate 9). Normal discharge from Smokes Creek is 200 cfs (Appendix B, Reference 5.6) and was treated as lateral inflow into the system. Hence, the total flow out of the northernmost boundary is 20,200 cfs. Discharge from Blasdell Creek (46 cfs) was small compared to the total flow and was therefore neglected. Normal discharge into the lake from the ground water system along the shorefront section occupied the solid waste area is expected to be small (less than 1 cfs) and was therefore also neglected in the model. Depth field of the study area is obtained from Reference 5.4 (Appendix B). A uniform grid size of 500 ft. x 500 ft. was used. The depth field was assigned at each grid cell representative of this grid size. Boundary conditions were assigned along the boundaries of the study area. The total flow was normalized such that the stream function value is 0.0 along the westernmost boundary and 1.0 along the shoreline representing the total flow through the system. The numerical model then computes stream function value and depth-averaged velocity field at each grid cell by successive iterations. Results from the model, thus show average conditions representative, of a unit dimension of the grid cell size.

5.2.2 Stream-Tube Dispersion Model

Results from the circulation model provided input data for the dispersion model (Appendix B, Reference 5.7). These parameters include flow quantity within the narrow near-shore coastal boundary layer, the average depth-averaged velocity and typical depth of flow. A flow of 1000 to 1010 cfs representing 5% of the total flow is confined to the nearshore zone with a width of 1500 feet, approximately i mile which represents typical width of the coastal boundary layer in Lake Erie. Steady-state currents generally follow the shoreline within this stream-tube bounded by streamline value 0.95 and the shoreline (Plate 10). The dispersion model was then applied to this stream tube to evaluate the nearshore downstream effluent concentration. A turbulent diffusion coefficient value of 1.1 ft. 2/sec. (1000 cm 2/sec.) was chosen to be representative of the conditions in the nearshore area of Lake Erie (Csanady, 1970).

Results of the dispersion model (Plate 11) considers a vertical line source or a unit plane source at the shoreline discharging at a continuous, steady-state rate. This was used because the downstream concentration of the effluent plume resulted from discharges from a unit plane source or a creek (a line source) into the lake. Leachate through the ground water system enters the lake as a plane area source. A unit length of the shorefront section, 500 feet, was used as the unit plane source dimension since input parameters to the dispersion model obtained from the results of the circulation model represent averaged conditions of the grid cell. The solution shown on Plate 11 was then applied in successive 500 foot intervals along the shorefront face from the southernmost end of the disposal area near Blasdell Creek towards Buffalo Harbor, covering a total distance of 13,000 feet. This enabled us to obtain the downstream effluent concentrations from the discharge locations as shown on Table 4. Assuming each line or plane source discharges at a constant uniform rate, we were able to obtain the cummulative downstream dispersion effects. A summary of the parameters for the dispersion model is shown on Table 5.

5.3 RESULTS

5.3.1 Flow Field

The streamline pattern in the nearshore area obtained from the circulation model and Lake Erie currents from a physical model study (Silberman et al., 1969) are

illustrated on Plate 10. It can be noted that results of the numerical model are in close agreement to the flow pattern obtained from the physical model. Within a distance of approximatley 1500 feet from the shoreline, a flow quantity of about 5% of the total flow through the system occurs, as represented by the streamline function Flow velocity was fairly uniform with an average value of about value 0.95. 0.06 ft./sec. in this coastal zone where average depth of flow was found to be about 5.3.2 Dispersion Effects CHINGÍ COLLINE

Table 4 shows the downstream nearshore dimensionless concentration from The method of obtaining these results is explained in the discharge locations. Section 5.2.2. A unit plane source dimension of 500 feet was used and is equivalent to a dimensionless unit distance of 4×10^{-3} . Therefore, the second discharge point is located at 4×10^{-3} units downstream from the southernmost end of the disposal area at Blasdell Creek (Table 4). The last line of the table shows the cumulative effect at a certain point along the effluent plume as a result of contaminant discharges upstream of that point. It is assumed that all sources discharge at an identical constant rate of W lbs./sec. A plot of these results are illustrated on Plate 12.

Two curves are shown on Plate 12. The dotted line was obtained by plotting and joining the results in the last line of Table 4. The "zig-zag" behavior is the result of numerical instability - a mathematical consequence of the numerical method. The solid line was drawn to represent interpolated idealized conditions along the downstream effluent plume. It can be noted that the nearshore downstream effluent concentration increases as the total quantity of pollutant discharged increases along the shorefront from Blasdell Creek towards the northernmost end of the disposal area.

The peak dimensionless concentration of about 1000 occurs at the shoreline in the vicinity of the northernmost end, Point C (see Plate 12). Downstream of that point, effluent concentration decreases rapidly towards the entrance of Niagara River to a dimensionless concentration value of about 570. From the entrance to Niagara River at Peace Bridge towards Grand Island, an almost linear decrease in dimensionless concentration occurs which results from using a turbulent diffusion coefficient representative of coastal areas of Lake Erie. In reality, flow quantity in Niagara River is, orders of magnitude higher than the flow within the coastal boundary layer of the lake and the velocity of flow is much higher. The highly turbulent flow of Niagara River can therefore generate more intense diffusion and mixing conditions which cause more rapid dilution of lakeshore contaminants entering the river. Dimensionless concentration on the farshore of the streamtube away from the shoreline is much less than those found on the nearshore side. The results therefore show that contaminant discharged from the shoreline can result in a "coastal entrapped" effluent plume with relatively minor impacts on the Paulsboro regime.

With reference to Table 6 (equation 1), the dimensionless concentration \overline{C} is obtained by normalizing resultant effluent concentration C by a ratio of the rate of contaminant loading W (lbs./sec.) to the total flow Q (1000-1010 cfs) in the coastal zone. Rate of waste loading W can be obtained if the unit contaminant concentration (lbs./volume) and the normal volume discharge rate (cfs) are known. From a study on the normal flow conditions in the coastal ground water system, it was found that normal contaminant discharge rate is about 1.0 cfs. The peak effluent concentration occurs in the vicinity of Point C (Plate 12) and is therefore on the order of W lbs./cu. ft. where W is the typical concentration of the contaminant loading. At the entrance to Niagara River, the concentration is about 0.57 W lbs./cu. ft., i.e. 57% bf the contaminant loading concentration. The complete mixing zone where a homogeneous state of the nearshore and farshore concentration field exists will most likely occur at a certain location in the Niagara River south of Grand Island. At that location, the concentration is reduced to approximately 0.03 W lbs./cu. ft, i.e., 3% of the contaminant loading concentration. On Table 7, the dilution analysis for concentration of three selected contaminants, chloride, phenol, and sulphate is illustrated and indicated maximum concentration of 230, .09, and 48.5 ppm respectively.

6.0 CONCLUSIONS

1. The monitoring program as presently designed appears provides the data necessary to permit an assessment of site ground water conditions, as required by the New York State Department of Environmental Conservation, in the BSC application to operate a Solid Waste Management Facility (the slag disposal area) in accordance with Title 6, Chapter 360 "Solid Waste Management Facility".

Qui.

It should be emphasized, however, that the purpose of this assessment is to broadly characterize site geohydrology and further detail would be recommended for an evaluation of ground water conditions at a particular site within the study area.

- 2. Stratigraphy underlying the Lackawanna Plant is complex resulting in complex ground water movement.
- The upper bedrock aquifer has a variable permeability which may be a function of stratigraphic control, structure, solution channels, bedrock surface topography and the character of adjacent or overlying sediments.
 - 4. Hydraulic gradients within the upper bedrock regime are very low, generally resulting in relatively low seepage velocities generally toward Lake Erie.
- 5. An aquatard (leaky aquaclude) appears to exist between the water table regime

 in the upper sediments and the upper bedrock aquifer.

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 - 6. Sediments and fill overlying the relatively impermeable fine grained lake sediments are variable in permeability; therefore, the seepage velocity under the influence of the low to moderate hydraulic gradients found to exist in these sediments and fill is quite valuable.
 - 7. Leachate from the Solid Waste Area, after moving downward to the water table, is migrating toward established natural and man-made drainage features and Lake Erie. Downward migration to the bedrock aquifer may be minor due to the relative impermeability of the natural lake bottom sediments which appear prevalent, lakeward of the original shoreline.

- 8. Groundwater quality in the upper bedrock aquifer appears to be degraded.

 Contaminant levels are in excess of NYSDEC drinking water standards.
- Ground water collected from monitoring wells screened in the shallow sediments and fill south and east of the plant appear to be degraded.
- 10. The solid waste facility (the slag landfill) is generating a caustic leachate which is probably entering Lake Erie via the shoreline, Blasdell Creek, Smokes Creek and the Ship Channel.
- 11. The volume of ground water discharged from the solid waste/slag fill is estimated to be approximately 80,000 ft³/day (1 cfs) based upon a limited test pumping of wells MW lA through 5A and the gradient found to exist between the lake and wells MW 9 and 10 in the central solid waste area. This is in approximate agreement with estimates for recharge to the Solid Waste Area by rainfall.
- 12. Analysis of lake shore currents indicate approximately 1,000 cfs (cubic feet/second) is flowing adjacent to the Solid Waste Area. The discharge of ground water from the Solid Waste Area is approximately 1 cfs, consequently the dilution analysis shows that peak concentration at the north of the Solid Waste Area is on the same order of magnitude as the weighted average contaminant concentration entering the lake and elsewhere along the shore should be some value less than that.
- 13. The dilution study would seem to indicate there is no imminent danger caused by the 1 cfs discharge of contaminated ground water to Lake Erie provided all other factors remain constant.

CHANGE TO NO 1

TABLE 1
GROUND WATER CHEMICAL ANALYSIS

WELL NUMBER

					WE	LL NU	MBER				
ite of	MW-1A	MW-2A	MW-3A	MW-4A	MW-5A	MW-6A	MW-6B	<u>MW-7A</u>	<u>MW-7B</u>	<u>M W -8 A</u>	<u>M W-8B</u>
					IRON (F	PPM)					
							2.40	4.90	4.80	1.70	0.84
7-08-80	8.00		13.8	0.16	0.16	2.40	0.23	0.23	0.65	0.23	0.23
7-21-80	0.71	0.71	0.23	4.12	0.23	0.23 7.17	0.32	0.64	1.27	3.36	0.49
8-04-80	0.32	0.32	1.79	0.38	0.32	4.48	1.20	2.84	6.36	0.38	0.17
8-18-80	0.10	0.10	0.10	0.59	0.10 0.22	5.50	0.60	1.55	3.80	1.40	0.30
9-05-80	0.24	0.28	0.75	0.46 0.42	0.24	4.64	0.48	1.26	3.50	0.84	0.24
9-11-80	0.26	0.20	0.26	0.72	0.2.						
				DĽ	SSOLVED I	RON (PPM	<u>1)</u>				
				0.10	0.05	0.17	0.72	0.12	2.60	0.20	0.10
10-01-80	0.05	0.05	0.05	0.10	0.03	0.09	0.70	0.20	3.31	0.17	0.12
10-15-80	0.08	0.07	0.13	0.15 0.05	0.25	0.30	0.72	0.10	2.60	0.05	0.05
10-29-80	0.05	0.05	0.05	0.03	0.08	0.13	0.71	0.16	6.03	0.18	0.08
11-12-80	0.11	0.08	0.16 0.15	0.18	0.13	0.13	0.13	0.13	1.55	0.35 0.35	0.13
11-19-80	0.05	0.13 0.03	0.09	0.10	0.11	0.13	0.11	0.11	1.13 0.83	0.33	0.15
12-08-80	0.09 0.06	U.05	0.11	0.07	0.10	0.13	0.15	0.11	2.58	0.22	0.12
12-17-80 Average	0.07	0.06	0.11	0.11	0.11	0.15	0.46	0.13	2.30	0	***
					ZINC ((PPM)					
				0.12	0.13	0.22	0.18	0.71	0.10	0.17	0.12 1.30
7-08-80	0.35		0.40 0.15	0.12	0.19	0.35	0.12	0.10	0.09	0.11	0.06
7-21-80	0.49	0.38	0.15	0.11	0.08	0.35	1.06	0.25	0.05	0.53	0.12
8-04-80	0.08	0.08 0.12	0.13	0.26	0.15	0.27	0.15	0.17	0.15	0.15 0.13	0.12
8-18-80	0.12	0.12	0.15	0.18	0.12	0.15	0.18	0.11	0.15	0.13	0.10
9-05-80	0.11 0.16	0.09	0.05	0.10	0.15	0.42	0.18	0.20	0.14	0.11	0.10
9-17-80	0.10	0.00									
				D	ISSOLVED				0.00	0.02	0.02
	0.02	0.02	0.04	0.07	0.02	0.02		0.02	0.02		0.02
.0-01-80	0.02 0.03	0.02			0.02	0.02		0.02 0.02	0.01		0.01
10-15-80 10-19-80	0.03	0.01		0.03	0.01	0.13		0.01	0.03		0.01
11-12-80	0.01	0.01		0.02	0.02	0.01		0.06			0.05
11-12-80	0.03	0.07	0.13		0.08	0.08		0.02			0.01
12-08-80	0.01	0.01			0.01	0.08		0.06			0.06
12-17-80					0.03			0.03		0.03	0.03
Average	0.02	0.02	2 0.04	0.04	0.03		, ,,,				
					LEAD	(PPM)		2.22		1 0.01	01
# 00 00	0.11	***	- 0.13	3 0.08	0.06	0.0					
7-08-80		0.13		-	0.27						
7-21-80 8-04-80		0.10			0.20						
8-18-80		0.1		3 0.18	0.10				_		0.04
9-05-80		0.1	3 0.1	8 0.20			-				
9-17-80			0 0.2		0.28	0.3	9 0.10	, , , ,			
				1	DISSOLVEI) LEAD (P	PM)				
								5 0.0	5 0.0		
10-01-80									8 0.0	_	
10-15-8	0.07					•		g 0.0		_	
10-29-8				-		•		5 0.0			
11-12-8						•	0.0				
11-19-8)5 0.0				_
12-08-8						٠	0.0				·
12-17-8							0.0	6 0.1	0.0	U. U.U	
Average	0.06	, 0.0	,, ,,,								
				~							

Within discharge limits of NYS effluent to Class GA waters.

*New York State Department of Environmental Conservation, Title 6, Official Compilation of Codes, Rules and Regulations.

*Part 703, "Ground Water Classifications, Quality Standards and/or Limitations," effective September 1, 1978. The best use of Tass "GA" waters is a source of potable water supply. Effluent standards...apply to discharge from a point source or outlet of the discharge...which discharge will or may enter the unsaturated or saturated zones.

TABLE 1 (Continued)

WELL NUMBER Date of MW-7B A8-WM MW-8B MW-6B MW-7A MW-6A MW-5A MW-4A MW-3A MW-2A Sample MW-1A CHROMIUM (PPM) 0.02 0.02 0.03 0.04 0.03 0.06 0.05 0.03 0.11 7-08-80 0.15 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 7-21-80 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 8-04-80 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.11 0.10 0.13 8-18-80 0.10 0.10 0.02 0.02 0.03 0.02 0.02 0.04 0.03 0.02 0.03 0.02 9-05-80 0.02 0.01 0.01 0.01 0.01 0.02 0.14 0.03 0.03 0.01 0.02 0.02 9-17-80 DISSOLVED CHROMIUM (PPM) 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.03 0.01 0.01 10-01-80 0.01 0.03 0.01 0.03 0.01 0.01 0.01 0.02 0.02 0.01 10-15-80 0.01 0.01 0.01 0.01 0.01 0.02 0.01 0.08 0.05 0.10 0.01 10-29-80 0.01 0.01 0.01 0.01 0.01 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 11-12-80 0.01 0.01 0.01 0.01 0.02 0.02 0.02 0.01 0.01 0.01 11-19-80 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 12-08-80 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 12-17-80 0.01 0.01 0.01 0.01 0.01 0.02 0.01 0.01 0.01 0.01 Average AMMONIA (N) (PPM) 1.7 0.7 1.1 2.4 0.3 8.0 2.5 1.3 7.0 9.2 7-08-80 1.7 2.5 0.3 1.2 0.5 5.8 5.4 2.0 12.0 27.0 3.0 7-21-80 1.2 0.53 1.7 0.36 2.6 5.3 2.4 4.6 30.0 12.5 1.9 8-04-80 0.2 0.8 0.6 1.0 0.2 1.1 3.6 15.6 3.8 5.7 8-18-80 1.0 2.4 0.9 0.9 2.4 1.2 4.2 8.0 9.8 40.0 9-05-80 5.0 17.0 1.5 2.1 1.5 4.5 1.3 2.3 32.0 3.2 3.6 11.6 9-17-80 4.5 3.0 3.3 0.05 2.0 0.1 6.8 6.0 4.8 3.8 24.0 28.5 10-01-80 1.3 0.3 2.4 1.2 7.0 4.0 1.6 8.5 35.0 7.0 16.5 10-15-80 1.2 1.6 1.4 2.0 1.7 0.8 3.2 20.9 32.8 5.1 10-29-80 1.2 1.2 0.7 1.4 0.8 0.4 0.5 8.2 6.9 1.5 1.6 3.3 11-12-80 0.1 1.1 0.1 1.1 2.2 0.3 4.8 5.2 12.0 4.2 11-19-80 3.8 1.4 0.2 1.6 0.1 2.4 0.5 4.6 6.3 2-08-80 4.0 3.6 11.5 1.6 1.8 2.0 2.4 1.4 5.6 6.0 9.0 8.3 2-17-80 3.3 1.7 0.7 1.4 2.4 5.5 5.1 11.9 22.2 3.8 Average SULFIDES (PPM) 0.1 1.6 0.1 0.4 0.1 0.1 3.6 44.4 2.4 46.4 7-08-80 0.4 0.1 0.1 2.4 0.1 0.1 4.0 3.6 127.2 28.0 7-21-80 37.0 0.1 0.1 0.1 0.1 0.1 0.1 2.2 3.8 31.0 104.0 8-04-80 34.0 0.1 0.8 0.16 5.2 0.1 4.0 0.1 88.88 41.2 4.1 52.8 8-18-80 0.8 0.4 0.4 2.0 0.4 0.8 4.0 8.0 40.0 208.0 9-05-80 51.2 0.4 64.0 0.4 0.8 0.4 4.0 0.8 4.8 36.0 9-17-80 56.0 148.0 1.2 0.2 0.4 0.2 0.2 3.4 5.2 210.0 44.0 10-01-80 48.0 0.2 0.5 0.1 0.5 0.2 5.6 1.2 6.0 224.0 51.5 53.5 10-15-80 0.2 0.1 0.1 0.1 0.1 2.0 0.1 128.0 21.2 5.6 10-29-80 28.4 0.1 0.1 0.1 0.1 3.2 0.6 0.4 6.4 24.0 109.2 11-12-80 30.8 0.5 0.1 0.1 0.5 0.1 0.5 36.0 9.6 3.2 33.6 280.0 11-19-80 0.1 0.2 0.3 0.1 0.1 3.0 0.1 31.2 8.0 19.2 141.0 12-08-80 0.1 0.1 0.1 0.1 3.2 0.1 0.1 18.0 6.4 12-17-80 18.8 0.2 0.5 0.9 0.3 3.5 0.2 160.7 34.3 5.7 39.2 Average <u>PHENOL (PPM)</u>(1),(2) 0.0040.004 0.004 0.004 0.005 0.005 0.006 0.09 0.85 0.006 0.06 7-08-80 0.009 0.008 0.008 0.006 800.0 1.60 6.40 1.20 0.09 7-21-80 0.009 0.010 0.009 0.011 0.015 0.011 0.009 0.30 0.75 0.10 0.01 0.50 8-04-80 0.150 0.006 0.006 0.007 0.005 0.11 0.005 0.09 0.60 1.60 8-18-80 0.05 0.010 0.009 0.010 0.009 0.006 0.006 0.13 0.90 1.10 0.25 0.010 0.06 9-05-80 0.220 0.010 0.012 0.009 0.009 0.14 0.64 0.16 9-17-80 0.83 0.09 0.020 0.080 0.010 0.010 0.030 0.040 0.11 1.65 0.19 0.03 0.83 10-01-80 0.020 0.010 0.020 0.010 0.010 0.010 0.22 0.20 10-15-80 0.01 0.60 1.80 0.009 0.150 0.130 0.120 0.090 0.120 0.22 1.60 1.10 0.27 0.010 0.30 10-29-80 0.009 0.015 0.015 0.010 0.010 0.23 0.03 0.10 0.006 11-12-80 0.01 0.25 0.006 0.006 0.006 0.009 0.007 0.41 0.47 1.60 11-19-80 0.10 0.09 0.010 0.010 0.030 0.016 0.006 0.050 0.009 0.54 1.10 0.01 0.05 0.020 12-08-80 0.050 0.030 0.020 0.050 0.020 0.23 0.45 0.86 0.01 0.010 2-17-80 0.024 0.047 0.028 0.018 0.30 0.040 0.21 1.10 1.15 0.06

(2) Used in dilution analysis.

Average

⁽¹⁾ Some results reported through to only tenths by Bethlehem.

					WE	LL NU	JMBER				
Date of imple	MW-1A	MW-2A	MW-3A	MW-4A	MW-5A	MW-6A	MW-68	MW-7A	MW-7B	MW-8A	MW-8B
	-	-			CYANIDI	E (PPM)					
7-08-80 7-21-80 8-04-80 8-18-80 9-05-80 9-17-80 10-01-80 10-15-80	0.36 0.59 0.52 0.43 0.46 0.27 0.52	0.73 0.10 0.31 0.26 0.37 0.30	0.33 0.26 0.22 0.40 0.40 0.21 0.44 0.46	0.14 0.18 0.13 0.09 0.10 0.08 0.42 0.12	0.15 0.10 0.052 0.16 0.10 0.08 0.12	0.025 0.013 0.07 0.20 0.10 0.16 0.78	0.013 0.026 0.039 0.013 0.10 0.10	0.18 0.039 0.039 0.23 0.30 0.10 0.04	0.30 0.039 0.052 0.30 0.208 0.08 0.10	0.091 0.039 0.039 0.10 0.60 0.39 0.68 0.52	0.026 0.052 0.026 0.013 0.013 0.05 0.02
10-13-80 10-29-80 11-12-80 11-19-80 12-08-80 12-17-80 Average	0.29 0.37 0.47 0.08 0.42 0.44	0.24 0.39 0.36 0.16 —	0.60 1.30 0.59 0.12 0.18 0.42	0.21 1.10 0.16 0.05 0.14 0.22	0.16 0.28 1.20 0.05 0.04 0.19	0.09 0.07 0.09 0.50 0.026 0.16	0.07 0.065 0.12 0.04 0.03 0.05	0.12 0.07 0.08 0.09 0.013 0.16	0.31 0.14 0.12 0.03 0.05 0.13	0.29 0.07 0.07 0.10 0.026 0.23	0.03 0.065 0.09 0.08 0.04 0.04
					L AND GR			0.6	0.4	0.3	0.2
7-08-80 7-21-80 8-04-80 8-18-80 9-05-80 9-17-80 10-01-80 10-15-80 10-29-80 11-12-80 12-08-80 12-17-80 verage	2.8 3.4 2.5 1.6 1.9 1.3 1.1 2.0 2.2 3.0 2.1 1.8 0.6 2.0	2.1 3.2 2.2 2.4 1.8 0.8 1.1 1.8 2.6 1.9 1.1	4.6 3.8 0.7 6.9 3.8 2.0 2.4 1.8 2.4 2.8 2.5 3.2 0.8 2.9	0.3 0.5 0.8 1.4 1.3 1.1 1.0 1.2 1.0 1.4 1.2 1.1	0.2 0.3 0.5 1.5 1.0 1.3 1.8 1.2 1.1 1.0 0.9 2.0 0.6 1.03	0.2 2.0 1.1 1.5 1.2 0.8 1.2 1.0 0.9 0.7 1.5 1.9 2.0 1.23	0.4 2.6 7.5 5.4 3.2 3.8 9.0 3.0 0.7 1.2 1.2 1.6 1.4 3.15	0.6 3.0 1.5 1.3 1.1 1.4 0.8 1.2 0.9 1.0 1.4 1.2	2.4 6.1 4.1 2.8 3.2 4.4 2.4 2.1 2.4 2.1 2.4 2.5 1.0 2.67	3.6 2.4 2.4 2.1 1.8 1.2 0.8 1.0 0.9 1.4 1.0	3.6 2.8 2.5 2.4 3.6 2.0 1.9 2.2 1.8 0.9 1.2 2.16
					<u>pl</u>	1	,				
7-08-80 7-21-80 8-04-80 8-18-80 9-05-80 9-17-80 10-15-80 10-29-80 11-12-80 11-19-80 12-08-80 Average	11.3 11.5 11.4 11.5 11.3 11.6 11.5 11.7 11.5 11.7 11.5	11.6 11.3 11.6 11.5 11.7 11.6 11.6 11.7 11.5 11.5	10.8 11.3 11.2 11.3 11.2 11.0 11.0 11.4 11.2 10.9 10.8 11.2	11.6 12.0 11.9 12.0 11.9 11.8 11.8 11.9 12.2 12.0 11.9 12.0	12.1 12.6 12.4 12.5 12.5 12.5 12.5 12.7 12.4 12.5 12.4	7.1 7.4 7.7 7.4 7.0 7.6 7.6 7.8 7.1 7.8 7.3 7.5 7.5	7.0 7.1 7.3 7.1 7.2 7.1 7.2 7.3 7.2 7.2 7.0 7.1 8.0 7.22	7.2 7.2 7.5 7.2 7.1 7.6 7.6 7.7 8.6 7.5 7.6 7.5	7.2 7.1 7.2 7.1 7.2 7.3 7.3 7.3 8.0 7.1 7.0 7.0 7.3	7.7 7.6 7.8 7.6 7.7 10.5 8.0 8.0 10.3 7.9 7.8 7.9 7.6 8.18	7.8 7.5 7.6 7.5 8.2 7.9 7.8 8.0 8.6 8.1 7.9 7.8
					T.O.C.	(PPM)					
7-08-80 7-21-80 8-04-80 8-18-80	5.5 4.65 3.5	39.15 47.1	60.1 38.35 53.8	4.4 4.55 2.8	19.3 6.75 5.1	63.3 14.6 15.0	52.2 20.25 20.7	22.1 6.25 18.9	11.1 5.65 8.5	17.1 10.75 24.5	9.2 2.85 7.5
9-05-80 9-17-80 10-01-80 10-15-80	4.0 5.8 5.25	62.1 57.4 52.4	53.6 56.5 60.95	4.1 6.3 6.9	9.3 11.6 9.9	6.1 84.8 12.25	8.3 17.0	28.05 25.0 8.2	12.48 15.8	14.65 41.5 9.05	5.0 7.4 3.4
10-29-80 11-12-80 11-19-80 12-08-80 12-17-50	4.8 5.7 2.0 4.2	84.0 40.1 26.6 25.3	45.0 44.9 53.0 36.0	8.1 11.2 8.3 12.0	9.5 9.8 12.5 8.5	13.3 22.2 10.2 17.2	49.1 8.0 16.2 19.6	15.5 3.5 8.5 19.3	14.9 9.5 11.0 12.6	12.8 6.7 4.6 9.1	10.2 6.3 10.7 8.7
Average	4.54	48.24	50.22	6.87	10.23	25.90	22.54	15.53	10.84	15.08	7.13

WELL NUMBER	w	FI	. I.	N	U	M	В	E	H
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Date of	MW-1A	MW-2A	MW-3A	MW-4A	MW-5A	MW-6 A	MW-6B	MW-7 A	MW-7B	MW-8 A	MW-8B
mple	MM-IN	4111				(2)					
					CHLORIDE	(PPM)				-	
							40	4.4	36	112	138
7-08-80	56		60	110	104	51	49	44 39	165	141	107
7-21-80	480	1140	900	1186	164	52	104		156	160	118
8-04-80	145	460	1150	3200	179	32	104	44	146	178	105
8-18-80	84	410	1420	3930	181	45	91	47	160	160	112
9-05-80	65	115	1230	3820	410	56	96	52	136	360	107
9-17-80	40	130	1500	1980	170	57	88	62	144	120	86
10-01-80	70	250	1500	2450	90	46	84	74	126	114	98
10-15-80	110	94	1410	2950	104	58	81	71	176	102	108
10-29-80	110	. 750	1680	6250	95	88	82	134	134	174	103
11-12-80	66	390	1040	1240	150	36	74	54	134	136	108
11-19-80	70	740	1480	3240	250	40	124	128	138	104	104
12-08-80	61	410	968	1138	138	42	76	112	130	92	102
12-17-80	96		1058	1174	144	56	74	98	137	150	107
Average	111.77	444	1184	2512	167	51	87	74	134	130	101
						(2)					
					SULFATE	(PPM)					
					215	30	23	120	223	405	129
7-08-80	794		136	32	86	205	23	143	152	454	16
7-21-80	508	418	119	68	103	221	21	159	222	462	27
8-04-80	737	284	267	111		226	146	179	222	385	78
8-18-80	970	371	233	273	171	212	29	164	172	3 58	26
9-05-80	1008	259	139	131	100 157	148	86	279	287	439	76
9-17-80	950	402	205	191		130	63	198	207	294	59
10-01-80	901	343	158	166	107 92	115	107	133	258	320	106
10-15-80	854	3 30	121	141		16	44	307	255	179	26
10-29-80	1337	249	159	139	40	138	44	198	292	251	84
11-12-80	773	532	150	195	97	240	41	371	325	354	48
11-19-80	783	443	129	160	123 94	210	52	338	214	298	80
12-08-80	738	516	164	145	175	202	194	313	363	280	.180
12-17-80	589		146	206 151	120	161	67	223	245	337	935
`verage	842	377	163	131	120	101	•				
					T.D.S.	(PPM)					
											400
7-08-80	2064		4798	1190	1656	708	700	60	1030	980	472
7-21-80	2210	2202	4474	4437	991	414	497	347	655	739	341
8-04-80	2086	2126	5268	9706	2026	298	670	364	985	1040	480
8-18-80	2404	2158	4394	7622	2010	340	954	550	1288	1060	624 490
9-05-80	2620	3520	4540	6930	3604	756	680	618	874	1082 1390	392
9-17-80	1932	1920	3850	2932	1664	420	612	754	912		506
10-01-80	1906	2408	3260	4340	1440	520	832	734	1188	960	410
10-15-80	2416	2066	2770	5290	1380	454	730	530	1020	1040 466	388
10-29-80	1714	1914	2874	5910	1340	482	450	488	902		496
11-12-80	1576	2328		6544	1384	424		622	1056		472
11-19-80	1660	2064		5800	1614	608	966	940	1000		560
12-08-80	1122	1920	2208	4720	1542			1140	1112 720		482
12-17-80	1054		2160	10,820	1812			662	980		470
Average	1905	2239	3551	5865	1728	493	765	605	, 300	0.20	410
					<u>T.S.S.</u>	(PPM)					
			1100	4	4	1238	927	908	287		
7-08-80	1179	_		34				267		7 1712	75
7-21-80	76	34		5				2250		9350	
8-04-80	44	29		63				640		1232	
8-18-80	10	16						392		588	
9-05-80		12		21				2156			
9-17-80		87		20				184		3 122	
10-01-80		26		4				422			
10-15 - 80		14		2				574			
10-29-80		30		20					-		
11-12 -8 0		258		36			-				
11-19-80		3:		32			2 86		2 22		
12-08-80		9:		26					-		
12-17-80				34			-				
Average	108	5	8 125	23	3 14	. 05.	J J24	3.			

TABLE 2

GROUND WATER LEVELS OF MONITORING WELLS (in feet above mean sea level)

Mean Lake Level 573.5'

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MW-8B	574.6 574.6 574.6 574.6 574.7 574.7 574.5
MW-8A	583.4 583.3 583.4 583.4 583.3 583.1
MW-7B*	572.9 572.9 572.9 572.8 572.5 572.9 572.5
MW-7A	578.9 579.0 579.1 578.8 579.1 579.1 578.9
MW-6B	577.3 571.3 571.3 577.5 577.3 577.9 577.6
MW-6A	877.5 577.6 577.3 577.8 587.9 577.6
MW-5A	582.4 574.5 574.5 574.3 574.8 574.6
MW-4A	574.3 574.3 574.3 574.3 574.3 573.9 573.8
MW-3A	574.9 574.7 575.0 574.8 574.8 574.6 574.5
MW-2A	574.1 573.9 574.5 574.1 574.0 574.0
MW-1A	575.8 575.0 575.8 575.8 575.8 576.3
Date of Sample	7/9-11/80 7/23-24/80 8/6-7/80 8/20-21/80 9/3-4/80 9/19/80 10/1/80

*An apparent discrepancy exists in these levels in that they are consistently lower than Lake Erie by approximately 1 foot and there is no known well operating in the vicinity of MW-7B.

TABLE 3
PUMP TEST DATA

Date	Well Number	Drawdown or Recovery	Time	Water Level	Pumpage Rate (gpm)
10/9/80	1A	DRAWDOWN	0	9.25	20
20,0,00			1	9.33	20
			2	9.42	20
•			3	9.46	20
			4	9.50	20
			6	9.50	
			8	9.50	
			12	9.50	20
			16	9.50	20
			32	9.50	20
			64	9.50	20
			128	9.50	20
		RECOVERY	0	9.50	
			1	9.33	
			2	9.29	
			2 3	9.25	
			4	9.25	
			6	9.25	
10/21/80	2A	DRAWDOWN	0	7.33	20
10/21/00			1	9.92	20
			2	9.92	20
			3	9.67	20
			4	9.75	20
			6	9.83	20
			8	9.83	20
			12	9.75	20
			16	9.75	20
			32	9.83	20
			64	9.67	20
			128	9.67	20
			182	9.25	Stopped Test
		RECOVERY	0	9.25	
			1	7.83	
			2	7.33	
			3	7.33	
			4	7.33	
			6	7.33	
			8	7.33	
			12	7.33	
			16	7.33	
			32	7.33	
			64	7.33	
			128	7.33	
			256	7.33	

TABLE 3 (Continued)

Date	Well Number	Drawdown or Recovery	Time	Water Level	Pumpage Rate (gpm)
9/25/80	3A	DRAWDOWN	0 1 2 3 4 6 8 12 16 32 32 64 128	4.31 4.48 4.49 4.49 4.50 4.50 4.50 4.50 4.50 4.50 4.50	10 10 10 10 10 10 10 10 10 10 10 10 10
		RECOVERY	0 1 2 3 4 6 8 12 16	4.50 4.30 4.31 4.31 4.31 4.31 4.31	
9/24/80	4A	DRAWDOWN	0 1 2 3 4 6 8 12 16 32 64 128 188	7.60 7.58 7.59 7.66 7.66 7.66 7.71 7.75 7.75 7.75 7.75 7.75	10 10 10 10 10 10 10 10 10 10 10 10 10
		RECOVERY	0 1 2 3 4 6 8 12 16 32	7.66 7.60 7.60 7.60 7.60 7.60 7.60 7.60	

TABLE 3 (Continued)

		Drawdown		•.•	Pumpage -
	Well	or		Water	Rate
Date	Number	Recovery	Time	Level	(gpm)
			•		-
10/17/80	5A	DRAWDOWN	0	8.83	20
20,21,00			.1	8.92	20
				8.92	20
•			2 3	8.92	20
		•		8.92	20
			4 6 8	8.92	20
			8	8.92	20
			12	9.0	20
			16	8.92	20
			32	8.83	20
			64	8.92	20
					20
			128	8.92	
			192	8.92	Pump Stopped
		DECOVERY	0	8.92	
		RECOVERY			
			1	8.88	
			2	8.85	
			3	8.83	

Summary Pump Test Data Lake Shore Wells

•	Transmissibility	Permeabili	Thickness Saturated	
Well Number	Gal./Day/Ft. X 10	Gal./Day/Ft.2	Ft./Day	Section Ft.
MW-1A MW-2A MW-3A MW-4A MW-5A	18.8 19.5 90 18.9 33.0	626 557 2571 756 1320	84 74 344 101 176	30' 35' 35' (Void at 12') 25' (Void at 12') 25'
Avg. Trans. less	36.0	814		30' Avg.

Seepage Velocity

Assume — Porosity 30%, Gradient 1.7 x 10^{-3}

Well Number	Seepage Velocity
1A	.47 ft./day
2 A	.72 ft./day
3 A	1.95 ft./day.
4 A	.57 ft./day
5 A	99 ft./day
Average	.88 ft./day

TABLE 3 (Continued)

	Well Number	Drawdown or Recovery	Time	Water Level	Pumpage Rate (gpm)
Date 6/25/80	6B	DRAWDOWN	0	6.0	-
		RECOVERY	0 1 2 3 4 6 8 12 16 32 64	19.46 18.21 17.625 16.875 16.16 15.85 15.19 14.46 13.21	
6/17/80	7 B	DRAWDOWN	0 1 2 3 4 6 8 12 16 32 64 128	12.96 13.125 13.34 13.375 13.44 13.46 13.46 13.42 13.50 13.46 13.50	0 4 4 4 4 4 4 4 4
		RECOVERY	0 1	13.50 12.96	

TABLE 3 (Continued)

	Well	Drawdown or Recovery	Time	Water Level	Pumpage Rate (gpm)
<u>Date</u>	Number	Recovery			
7/1/80	7 B	DRAWDOWN	0	12.54	10 10
(/1/00			1	13.92	10
			2	13.96	10
			3	14.0 14.0	10
			4 . 6	14.0	10
			8	14.0	10
		•	12	14.01	10
			16	14.05	10
			32	14.06	10
			68	14.14	10
			128	14.18	10
			240	14.30	10
		RECOVERY	0	14.30	
			1	13.0	
			2	12.83	
			3	12.83 12.83	
			4	12.83	
			6 8	12.83	
			12	12.83	
			16	12.82	
			32	12.80	
			64	12.73	
			120	12.71	
C /1 D /0 D	8B	DRAWDOWN	0	11.21	7
6/10/80	0D		1	19.125	7 7
			2	20.23	7
			3	20.80	7
			4	21.04	7
			6	21.625	7
			8	23.50 23.875	7
			12	24.50	7
			16 2 0	24.60	7 7
			30	28.21	7
			67	34.10	7
		RECOVERY	0	28.83	
		ILDOOADILI	1	28.30	
			3	22.64	
			6	19.50	
			12	13.60	
			24	10.97	
			36	11.5	

TABLE 3 (Continued)

Date	Well Number	Drawdown or Recovery	Time	Water Level	Pumpage Rate (gpm)
		DRAWDOWN	0	11.67	0
6/13/80	8B	DRAWDOWN	1	15.0	5
			2	16.29	5
			2 3	16.34	5 5 5 5 5 5 5 5 5 5 5 5 5
			4	16.50	5
			6	16.625	5
			8	16.67	5
			12	16.82	5
			16	16.84	-5
			32	17.17	5
			68	17.17	5
			128	17.92	5
			194	17.92	5
		•	210	17.92	5
		RECOVERY	0	17.94	
		16ECC (EIVE	1	13.67	
			2	13.50	
			3	13.34	
			4	12.75	
			6	12.34	
			8	12.125	
			12	11.50	
			16	11.875	
			26	11.70	
			32	11.67	

 ${\tt TABLE~4}$ DIMENSIONLESS NEARSHORE CONCENTRATION $\bar{\mathsf{C}}$ DOWNSTREAM OF THE DISCHARGE LOCATION

Dimensionless Downstream Distance \vec{X}

(1)	(x 10 ⁻⁴)				(x 10 ⁻³)				(x 10 ⁻²)				(x 10 ⁻¹)						
ge ⁽¹⁾	1	2	4	6	8	1	2	4	6	8	1	2	4	6	88	1	2	4	6
1	57.0	40.0	28.0	23.0	20.0	18.0	13.0	9.0	7.3	6.4	5.7	4.0	3.3	2.3	2.0	1.7	1.3	1.1	1.0
0-3								57.0	46.8	40.0	36.8	26.0	18.0	14.7	13.0	12.0	8.0	5.7	4.7
0^{-3}										57.0	52.0	36.0	25.2	20.8	18.0	16.0	11.4	8.0	6.6
0-2							•					44.0	31.5	25.5	22.0	20.0	14.0	10.0	8.0
0^{-2}												52.0	36.0	29.5			16.0		9.4
0-2												57.0		32.5		25.0		13.0	10.0
0-2													42.0		31.0		19.8		11.4
0-2													47.0	38.0	34.0	30.0	21.0		12.3
0-2													53.0	42.0	37.0		23.0		13.2
0-2													56.0	45.0	39.0	35.0	24.5		14.0
0-2													57.0	47.0	40.0	36.0	25.5		14.7
x 10 ⁻²															41.0	37.0	26.0		15.0
0-2														51.0		39.0	28.0	20.0	16.0
0-2														54.0	46.0	41.0		20.5	17.0
0^{-2}														55.0	47.0	42.0	30.0	21.0	18.0
0 ⁻²														57.0	50.0	44.0	31.0	22.0	18.0
.0~2															51.0	44.0	32.0		18.5
															53.0	47.0	33.0	23.5 24.0	19.0 20.0
0-2															54.0	49.0 50.0	35.0		20.0
0 2 0 ⁻²															56.0 57.0	51.0		25.5	21.0
0 ⁻² .0 ⁻²															57.0	54.0	37.0		21.5
.0 ⁻²																55.0		27.0	22.0
.0 ⁻²																56.0		27.5	22.5
.0 ⁻²																57.0	40.0		23.0
.0 -2																57.0		28.5	23.5
	1															31.0		29.0	23.8
x 10 ⁻¹	•																40.3	23.0	20.0

e discharge locations are expressed in terms of dimensionless downstream distance \bar{X} due north from the southernmost end of the slag posal area at \bar{X} = 10⁻⁴

Southernmost end of slag disposal area at Blasdell Creek Smokes Creek Northernmost end of the slag disposal area

iles are shown on Table 5

TABLE 5

SELECTED CONTAMINANT DISCHARGE ESTIMATE.— SOLID WASTE FACILITY (pounds/sec)

Method Used To Proportionate The Contributary Shorefront Length For Different Area Sectors In Table 5

Blasdell Creek			okes eek		End of Waste Area		
	MW-1	MW-2	MW-3	MW-4	M W -5		
Length (ft)	3600	2800	3200	3400	2200		
Total (ft)	6400		88				
Proportional shorefront length	0.56	0.44	0.36	0.39	0.25		
= 1.00			=				

Discharge Rate "Q" Of Ground Water From Zones Assigned To Each Lake Shore Monitoring Well

	M W-1	M W-2	MW-3	MW-4	M W-5
Length (ft)	3600	2800	3200	3400	2200
Area* (k ft ²)	90	70	86.4	102	66
Т	25	25	27	30	30
gal/day	1.22×10^5	.95 x 10 ⁵	1.17 x 10 ⁵	1.39 x 10 ⁵	.90 x 10 ⁵
ft ³ /sec	.19	.15	.18	.22	.14
Total	15,200	414.4		5.63 x 10 ⁵	.88

^{*}Based on assumed average thickness

TABLE 5 (Continued)

Average Concentration (ppm) Of Selected Contaminants Found In Lake Shore Wells

	MW-1A	MW-2A	MW-3A	MW-4A	MW-5A
Phenol	.06	1.15	. 1.10	0.21	0.3
Chlorides	112	444 .	1184	2512	167
Sulfates	842	377	163	151	120

Calculation Pounds of Selected Contaminants Per Cubic Foot Ground Water For Zone Assigned to Each Lake Shore Monitoring Well

	MW-1	MW-2	MW-3	M W -4	MW-5
Phenol					
(lbs/ft ³)* (lbs/sec)	3.75×10^{-6} 7.13 x 10 ⁻⁷	7.19×10^{-5} 1.08×10^{-5}	6.87×10^{-5} 1.24×10^{-5}	1.3×10^{-5} 2.88×10^{-6}	1.88×10^{-5} 2.63×10^{-6}
Cloride					
(lbs/ft ³) (lbs/sec)	7×10^{-3} 1.33 × 10 ⁻³	2.78×10^{-2} 4.17×10^{-3}	7.38×10^{-2} 1.33×10^{-2}	1.57×10^{-1} 3.45×10^{-2}	1.04×10^{-2} 1.46×10^{-3}
Sulfates					
(lbs/ft ³) (lbs/sec)	5.26×10^{-2} 9.99×10^{-3}	2.36×10^{-2} 3.54×10^{-3}	1.02×10^{-2} 1.84×10^{-3}	9.44×10^{-3} 2.08×10^{-3}	7.5×10^{-3} 1.05×10^{-3}
Q			•		
(ft ³ /sec)	.19	.15	.18	.22	.14

^{*}Based upon Q-line

TABLE 6 LIST OF SYMBOLS FOR THE DISPERSION MODEL

C = contaminant concentration (activity/volume)

d = typical flow depth (ft.)

ky = lateral turbulent diffusion coefficient (ft. 2/sec.)

u = depth-averaged velocity (ft. sec.)

Q = total flow through the streamtube (cfs)

W = rate of contaminant loading (activity/sec.)

 \bar{C} = dimensionless concentration

X = downstream distance (feet)

D = constant diffusion factor, D = ky.u.d²

 \overline{X} = dimensionless downstream distance, $\overline{X} = \frac{Dx}{Q^2}$

To find concentration C:

$$\overline{C} = \frac{C}{(W/Q)}$$
 equation (1)

$$C = \overline{C} \times (\frac{W}{Q})$$
 equation (2)

Where

$$W = \frac{1 b}{sec} = rate of contaminant loading$$

Q = flowrate in stream tube = 1000-1010 cfs

$$C = concentration = \frac{lb}{cu. ft}$$

 \bar{C} = dimensionless

nate	Concentration ©(3) (1b/cu ft)	1.24 × 10 ⁻³	0.60 × 10 ⁻³	0.38 × 10 ⁻³	0.63 x 10 ⁻³	0.18 × 10 ⁻³	C = 3.03 x 10 ⁻³ = 48.5 ppm
Sulphate	Rate of (5) Loading W(5) (1b/sec)	9.99 x 10 ⁻³	3.54 x 10 ⁻³	1.84 x 10 ⁻³	. 2.08 x 10 ⁻³	1.05×10^{-3}	Peak Concentration
lot	Concentration C(3) (1b/cu ft)	8.84 x 10 ⁻⁸	182.85 x 10 ⁻⁸	257.8 x 10 ⁻⁸	87.26 x 10 ⁻⁸	44.27 × 10 ⁻⁸	C = 581.04 × 10 ⁻⁸ = 0.09 ppm
Phenol	Rate of Loading W(5) (1b/sec)	7.13 × 10 ⁻⁷	1.08 × 10 ⁻⁵	1.24 x 10 ⁻⁵	2.88 x 10 ⁻⁶	2.63 × 10 ⁻⁶	Peak Concentration
Chloride	Concentration C(3) (1b/cu ft)	1.65 × 10 ⁻⁴	7.06 × 10 ⁻⁴	27.65 x 10 ⁻⁴	104.52 x 10 ⁻⁴	2.46 x 10 ⁻⁴	C = 143.34 × 10 ⁻⁴ = 230 ppm ⁽⁴⁾
Chi	Rate of (5) Loading W(5) (1b/sec)	1.33 × 10 ⁻³	4.17 × 10 ⁻³	1.33 × 10 ⁻²	3.45 × 10 ⁻³	1.46 × 10 ⁻³	Peak Concentration
	DEAK Dimensionless Downstream Concentration C(2)	1.7 12.0 16.0 23.0 25.0 27.5	C = 125.2 30.0 33.0 35.0 36.0 37.0		រ ភេដ្ឋាលលុស្	C = 306.0 56.0 57.0 57.0	Č = 170.0
	Area(1) Sector	1	8	ო	4	ĸ	
	Discharge Location	10-4(a) 4.0 × 10-3 8.0 × 10-2 1.2 × 10-2 1.6 × 10-2 2.0 × 10-2	2.8 × 10 ⁻² 3.2 × 10 ⁻² 3.6 × 10 ⁻² 4.0 × 10 ⁻² 4.3 × 10 ⁻²	4.7 × 10 ⁻² 5.5 × 10 ⁻² 5.5 × 10 ⁻² 6.3 × 10 ⁻²	6.7 × 10-2 7.1 × 10-2 7.5 × 10-2 7.9 × 10-2 8.3 × 10-2 8.7 × 10-2	9.1 × 10 ⁻² 9.5 × 10 ⁻² 9.9 × 10 ⁻² 1.03 × 10 ⁻¹ (c)	

 $^{(1)}$ Each sector represents an area with approximate rate of contaminant loading along the shorefront face.

(2)From Table 5, Dimensionless downstream concentration at $X = 1.0 \times 10^{-1}$ (a) Southernmost end of slag disposal area at Blasdell Creek (b) Smokes Creek (c) Northernmost end of the slag disposal area

⁽³⁾ Prom equation (2) Table 6, using Q = 1010 cfs and C values on Table 5, Part 3.

 $^{^{(4)}}$ Conversion factor 1 lb/cu ft = 1.602 x 10 4 ppm (mg/litre)

⁽⁵⁾ Prom Table 5

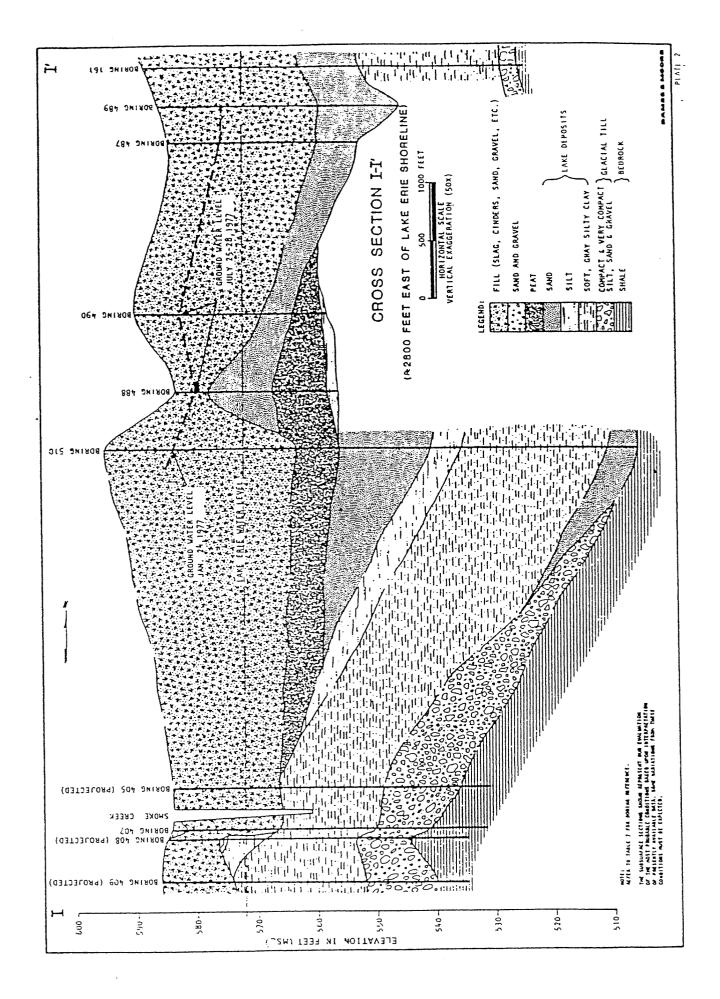
TABLE 8

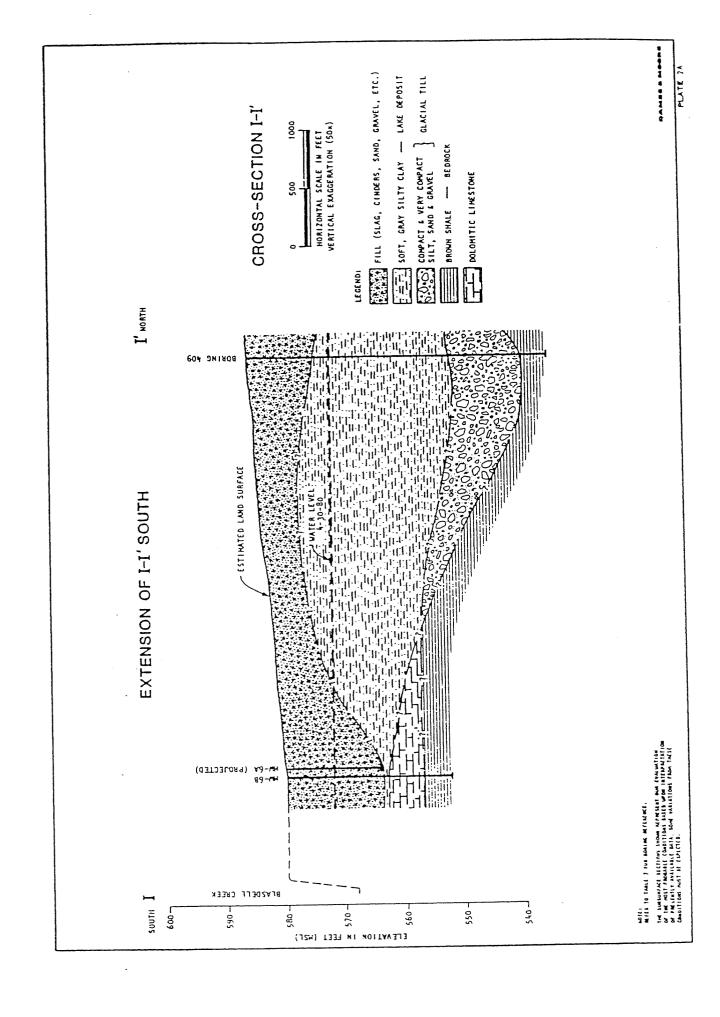
AVAILABLE BORING INFORMATION

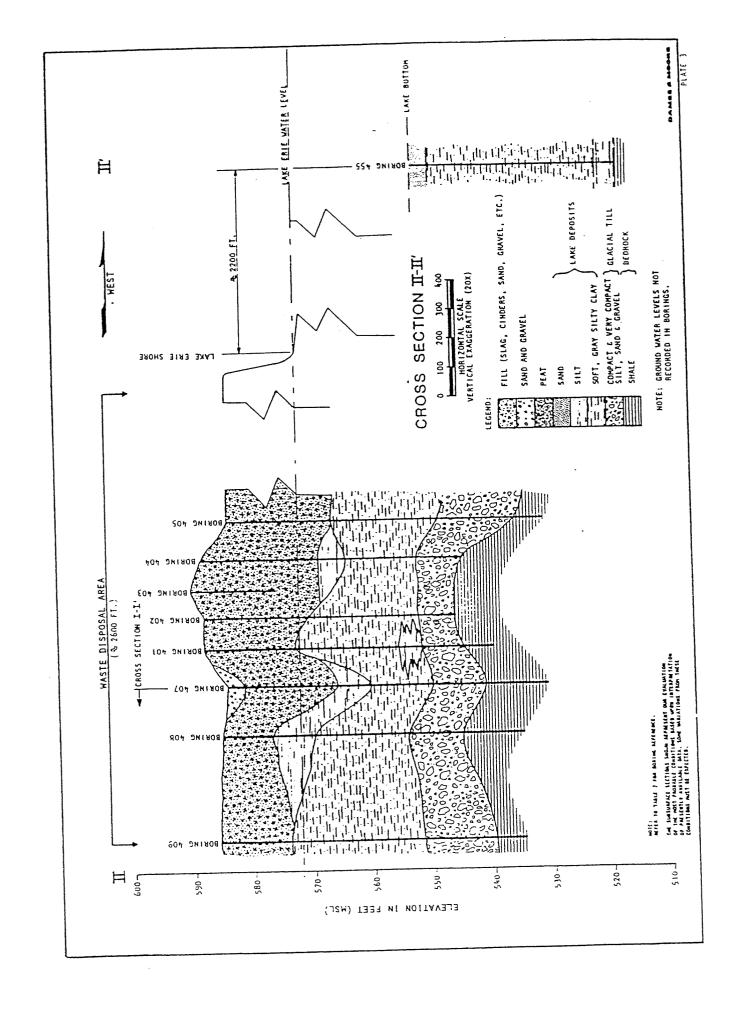
Į	Location	Well No.	Date Drilled	Drilling Contractor and or Consulting Firm	Surface Elevation	Total Depth (ft)	Ground Water Elevation	Date Measured
Ξ		MW-1A MW-2A MW-3A	June 25, 1980 June 15, 1980 June 12, 1980	Ehmke Drilling Company for Dames & Moore of Cranford, N.J.	585.31 582.00 579.00	38 38 39	575.80 574.10 574.90	7/11/80 7/11/80 7/11/80
	Belween Smokes Creek and government containment area Lake Erie shore south of containment area	MW-4A MW-5A	June 9, 1980 June 2, 1980		582.10 582.90	40	574.3 582.4 (574.5)	7/11/80 7/11/80 7/23/80
	Between Blasdell Creek and Smokers Creek	MW-6A	May 1, 1980		582.00	16	877.3	7/11/80
	Near the structural shipping yards	MW-6B MW-7A	April 30, 1980 May 2, 1980		582.00	28 15	577.3	7/11/80
	North of open hearth No. 1	MW-7B MW-8A	May 2, 1980 May 13, 1980 May 0, 1980		583.04 585.04	28 15	572.9 583.4 574.6	7/11/80 7/11/80 7/11/80
	Solid waste area Solid waste area	MW-9 MW-10	May 12, 1980 May 12, 1980		621.23 596.23	87 56	11	11
(2)	Along the coke ovens	## 487 Test pit #1 # 488 # 499 # 159	July 1977 July 1977 July 1977 July 1977 July 1977 June 1951	Buffalo Testing Laboratories, Inc. Sprague & Henwood, Inc.	5884 586 590 83	30+ 8 27 32 72	575.5 574.75 574.75 578.50	7/25/77 7/27/77 7/26/77
(3)	Proposed lime plant west of B.O.F.	161 401 402 403	June 1951 Oct. 1964 Oct. 1964 Oct. 1964	Scranton, Pa. Pittaburgh Testing Lab., Pittaburg, Pa.		63 448 14.0	3 - 1 A A A	T R R N N N N N N N N N N N N N N N N N
		######################################	March 1965 March 1965 March 1965 March 1965 March 1965		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	522.6 522.5 50.5 60.6	1 z "	: E =
(4)	(4) West of coke ovens	# 510 # 511	Jan. 1977 Jan. 1977	Empire Soll Investigations, Inc.	598 588	90 25.5	579.2 579.6	1/24/77 2/08/77

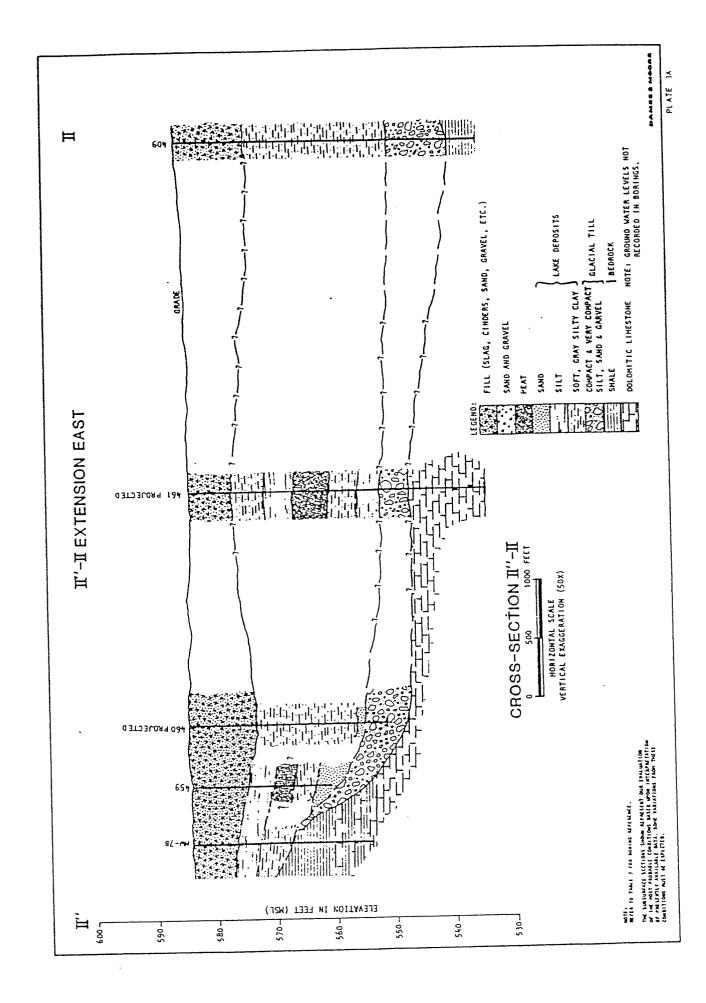
TABLE 8 (Continued)

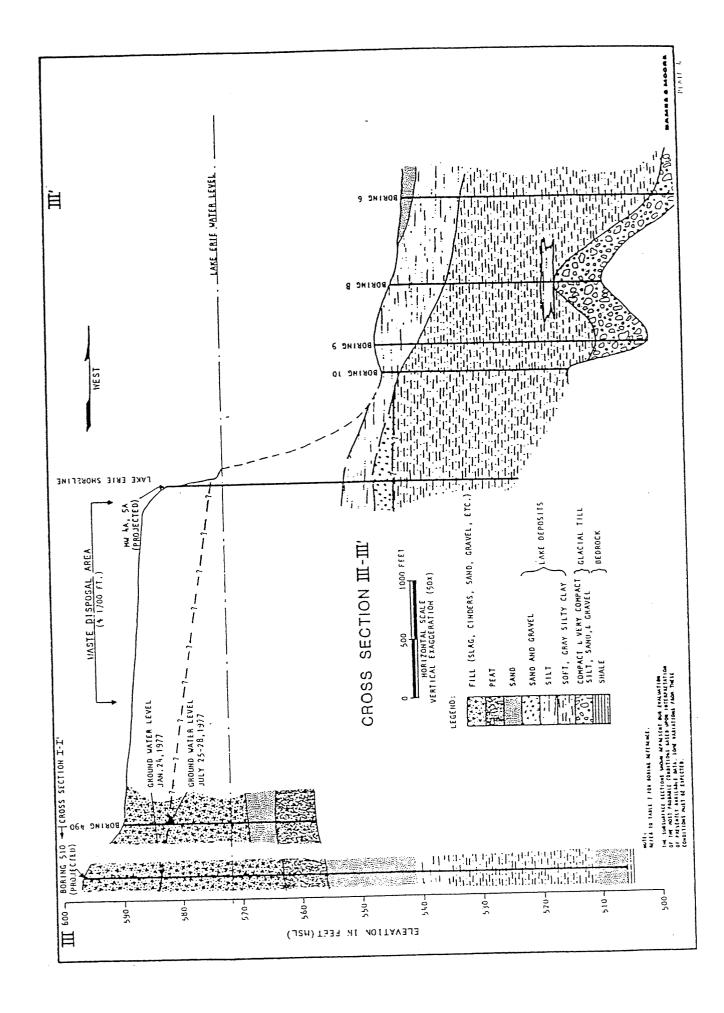
				Surface	Total	Ground	d a
Location	Well No.	Date Drilled	or Consulting Firm	Elevation	(3)	Elevation	Measured
(5) Containment area (east of site in Lake Erie)	**************************************	Oct. 1972	Warren George, Inc., Jersey Clty, N.J. (for DeLeuw Cather of Buffalo, N.Y.)	55 53 53 53 53 53 53 53 53 53 53 53 53 5	46 33.5 33.5 20 20 45 45 31	DRII I T	DRILLED IN THE AKE ERIE
(6) West of Bar Mills	Disposal Wall # 1 (never used)	1969?		583	4310		
(1) Proposed riparfan enclosure	*****************	April 1970	Pittsburgh Testing Lab., Pittsburgh, Pa. (for Sverdrup Parcel & Associates of New York, N.Y.	555 555 555 555 555 555 555 555 555 55	. 28 3 0 0.5 113 112 113 24 40 40 40 32 32 32 32 32 33 32 32 33 32 33 32 33 32 33 33	DRI IN LAKE	DRILLED IN THE AKE ERIE
(8) North Office Building	Gas Well (abandoned)	Oct. 1911	Sayer & Streeter Buffalo, N.Y.				

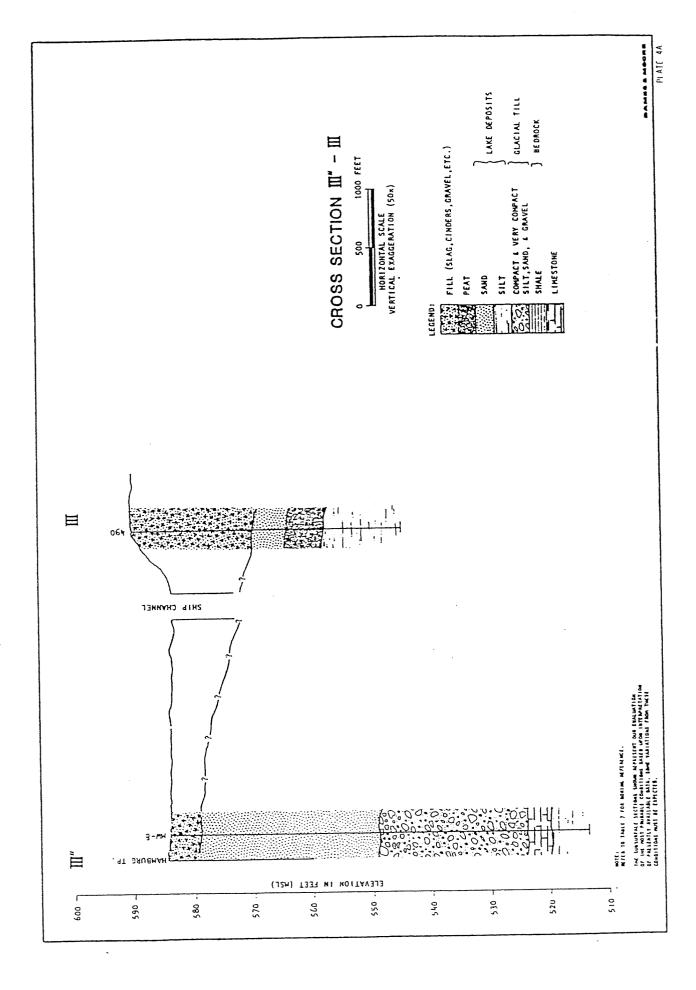


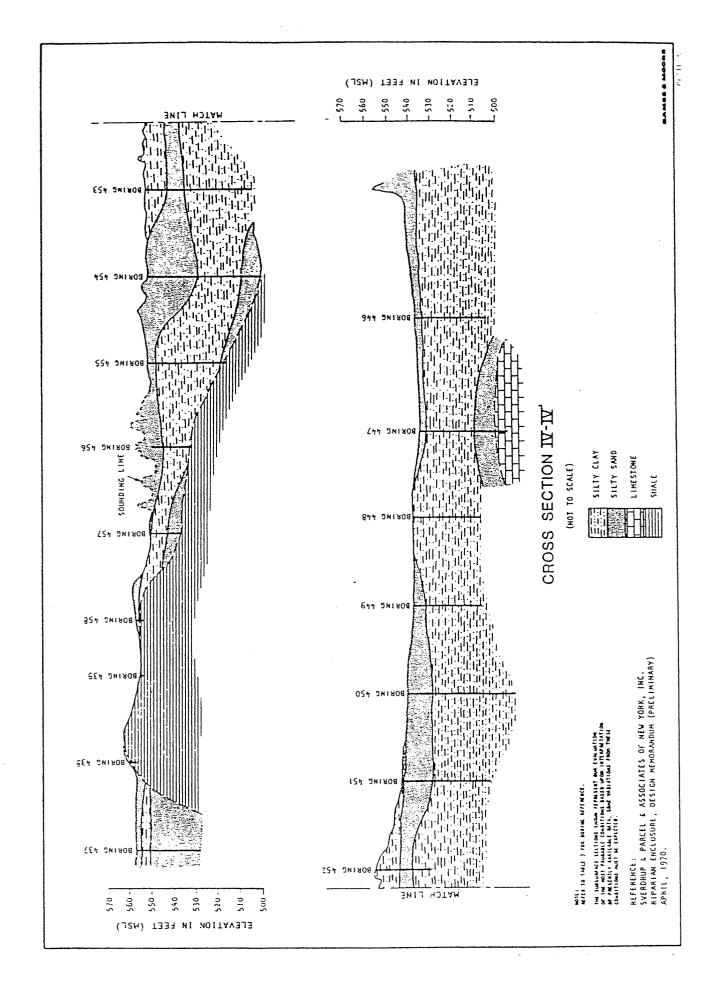


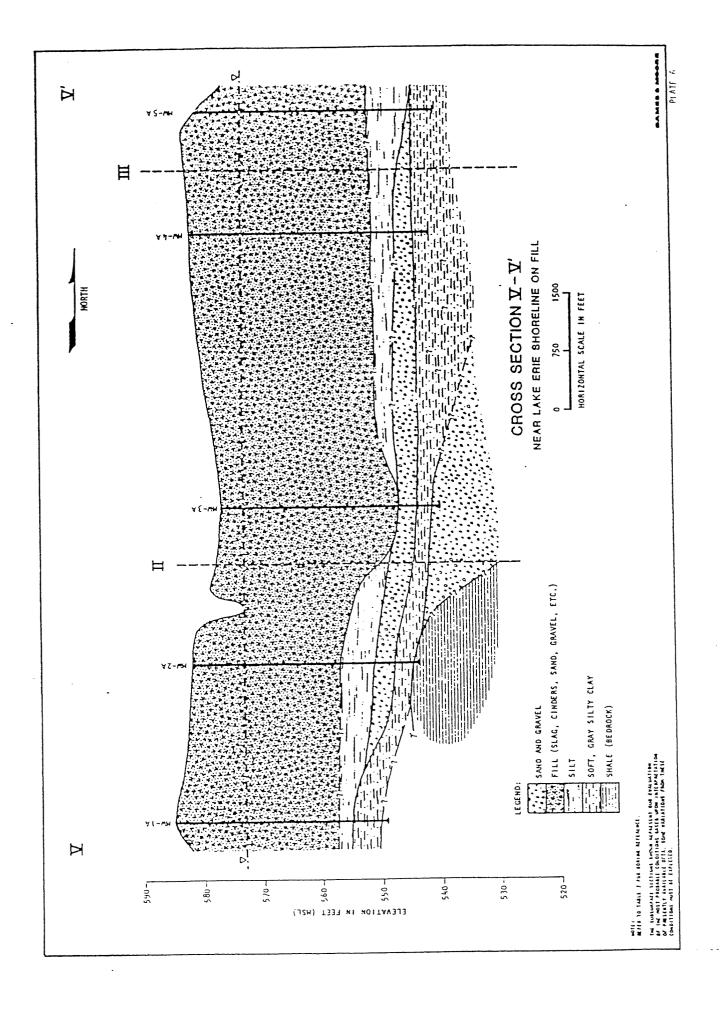


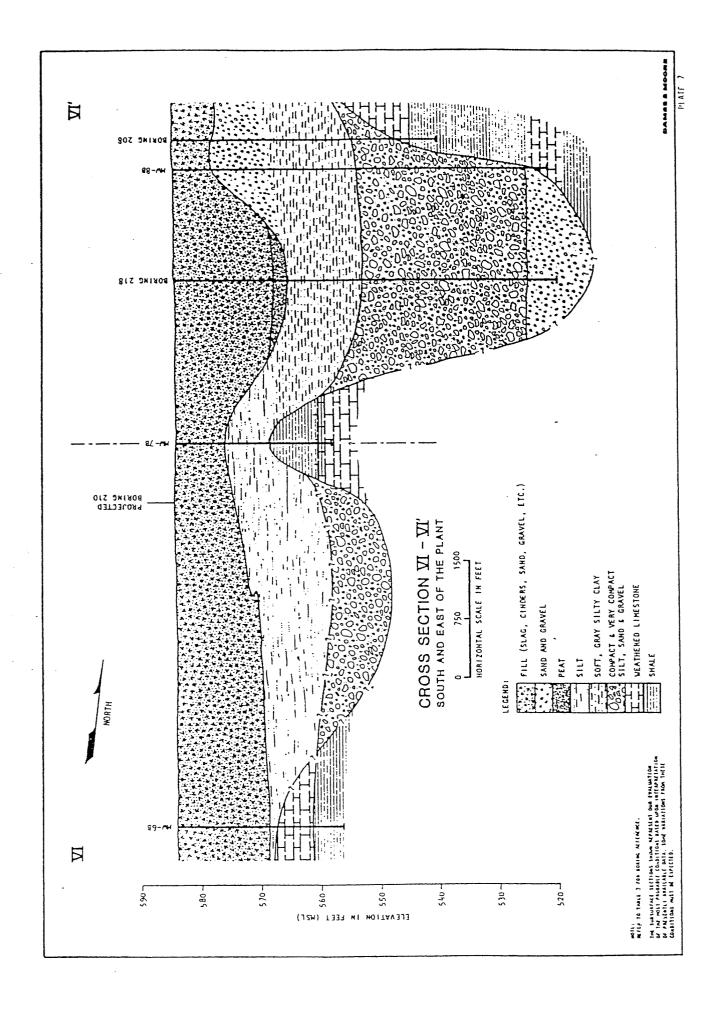


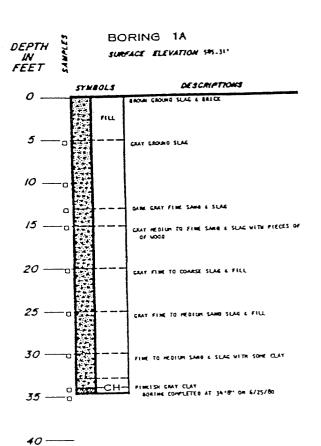


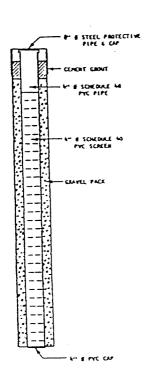






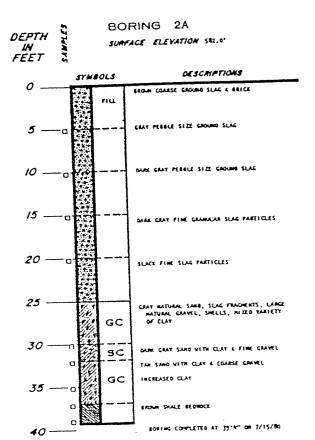


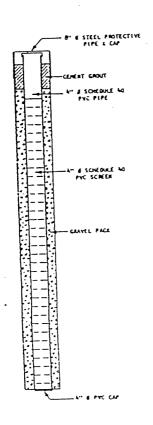




LOG AND MONITORING WELL DETAILS

DAMES S MOORE





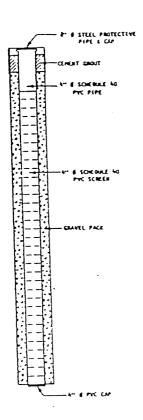
LOG AND MONITORING WELL DETAILS

BROOM 8 BEMAG

DEPTH STA

BORING 3A
SURFACE ELEVATION 379.0*

	STHEOLS	DESCRIPTIONS
0	rin .	CRAY COARSE SAMO SIZE SLAG & METAL BETS
5 a		CRAY MEDIUM TO FINE SAMO SIZE SLAG AND METAL BITS
10		A018 VI 15.
/ 5		BLACK YERT FINE GRAINS SLAG(T)
20		COMESE TO FINE SLAG & FILL IRON & STEEL COMESE TO FINE SLAG PIECES OF STEEL, I MON
25		FINE CRAINES SLAS
<i>30</i> —	. ## ##	PERSON TO FINE SIZE SUAG
35	g M	CRAVEL HIXTURE OF DOLONITE, CRAY SHALE, PLINT, VODG, SANO, TRACES OF SILTY CLAY PINCISH WHITE SILTY CLAY WITH LITTLE CRAVEL
40-	CL	CLAY, SOME SAND & GRAVEL GORING COMPLETED AT 35'9" ON 6/11/80



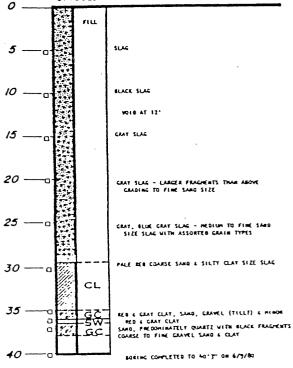
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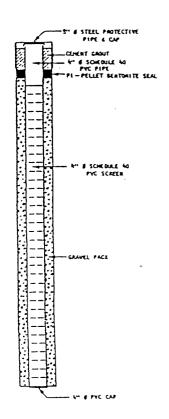
LOG AND MONITORING WELL DETAILS

DAMES 8 MOORE

BORING 4A DEPTH IN FEET SYMBOLS flu 10 ----15 ____ GAAY SLAG 20 -

SURFACE ELEVATION SEL.1"



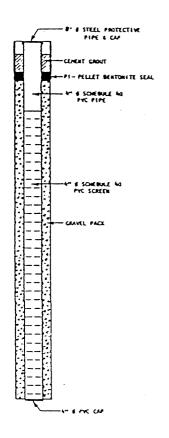


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LOG AND MONITORING WELL DETAILS

OEPTH IN FEET BORING 5A SURFACE ELEVATION SELSO.

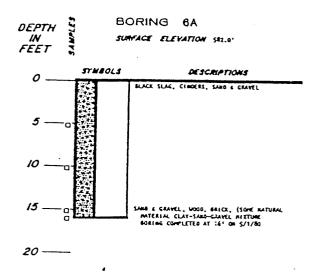
0	SYMBOLS	DESCRIPTIONS
·	nu	GRAY SLAG
5 a		•
10		
c	· 国	SLUC, STEEL FENCHENTS, CHOIL FENCHENTS
15		
C	· 翼	BLACE WERT FINE SAND SIZE NATERIAL
20	-86 -88	-
25 — L		COARSE CANVEL STZE SLAM
30 — s		FINE GRAVEL TO COARSE SAND SIZE SLAG
35	ML	BOTTON OF FILE (APPROX.) BLACK SILTY SAME MATERIAL
40	Z CL	CAAT SILTY CLAY WITH SOME SHALE CRAVEL, SOME SILTT SAME FROM AMOVE BOALING-COMMILETED AT 40" ON 6/2/80



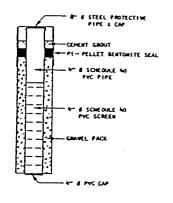
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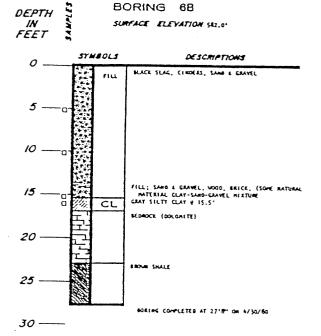
LOG AND MONITORING WELL DETAILS

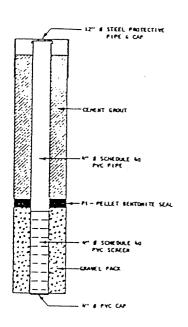
DAMES & MOORE



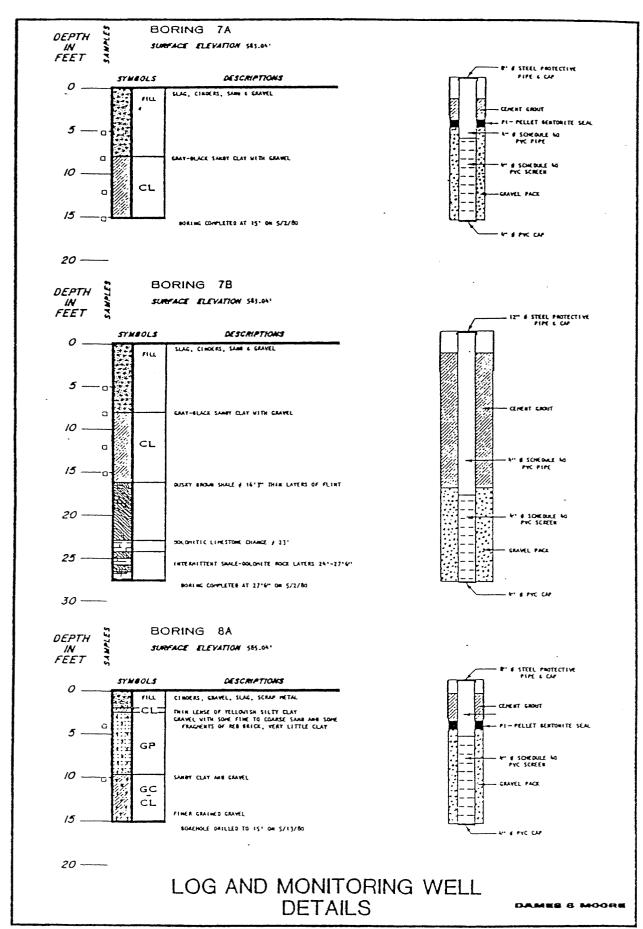
BORING 68

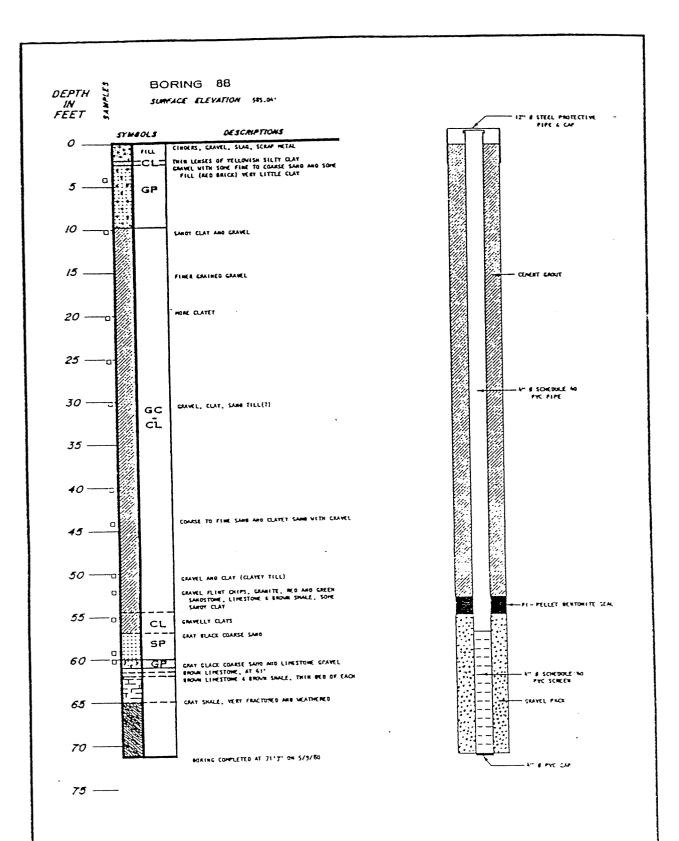






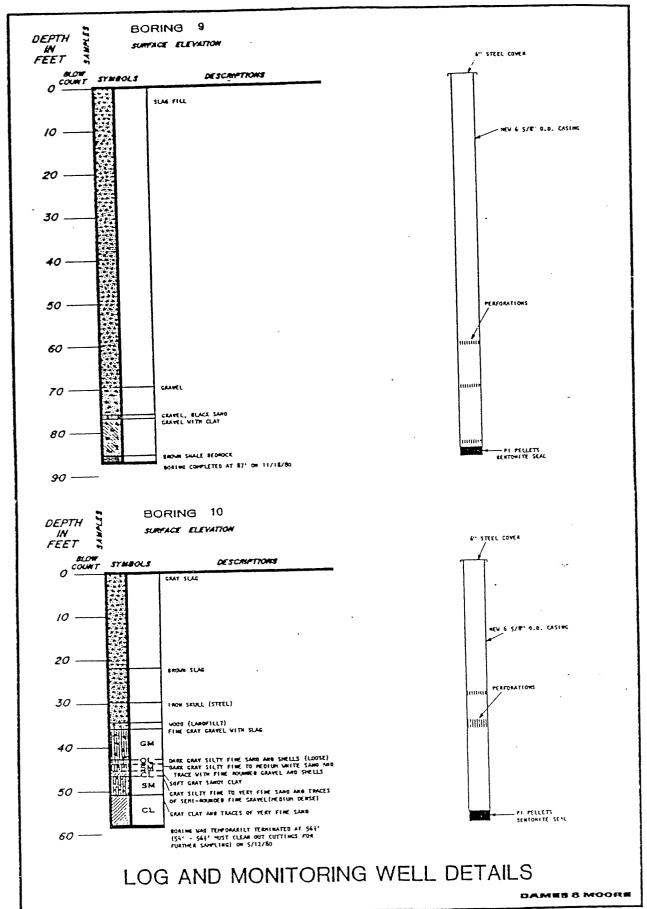
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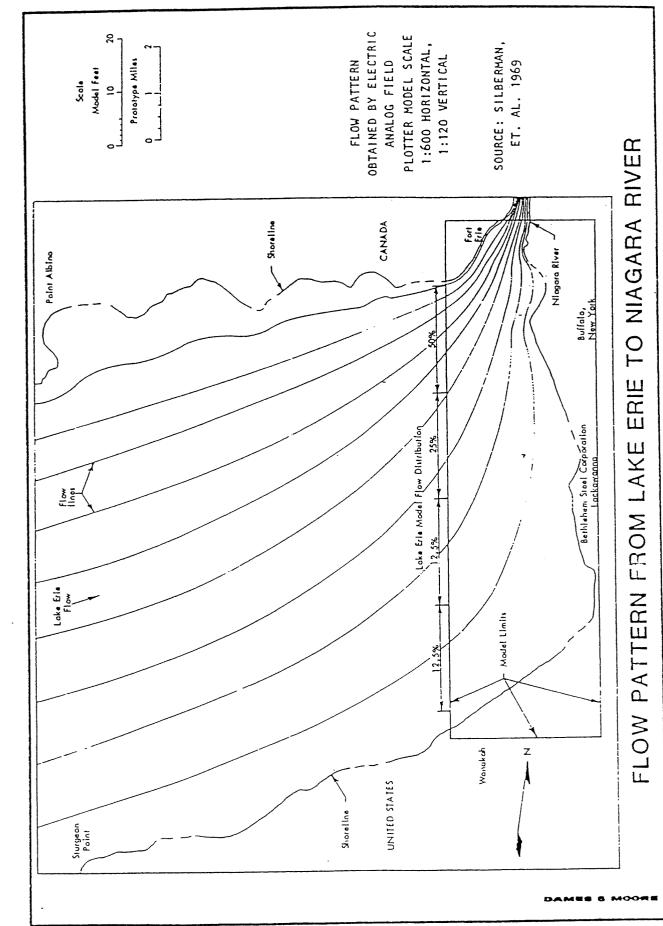


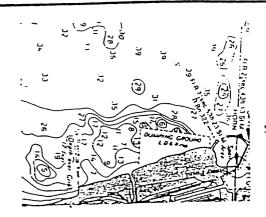


LOG AND MONITORING WELL DETAILS

DAMES 8 MOORE

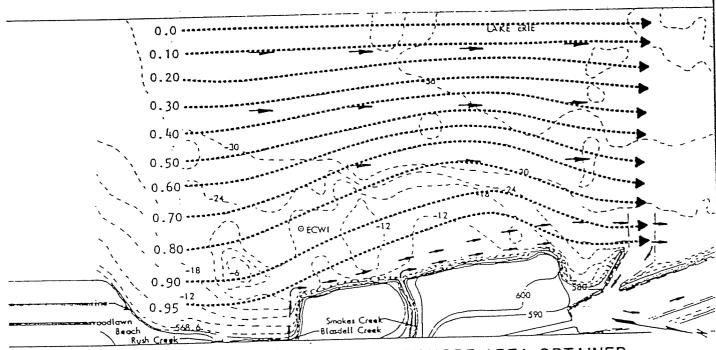




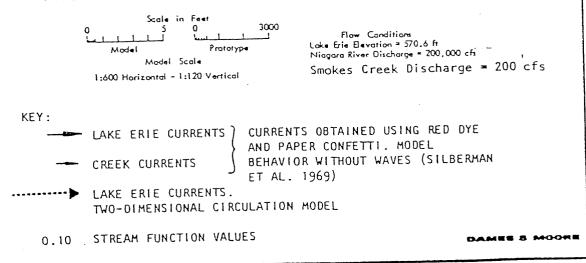


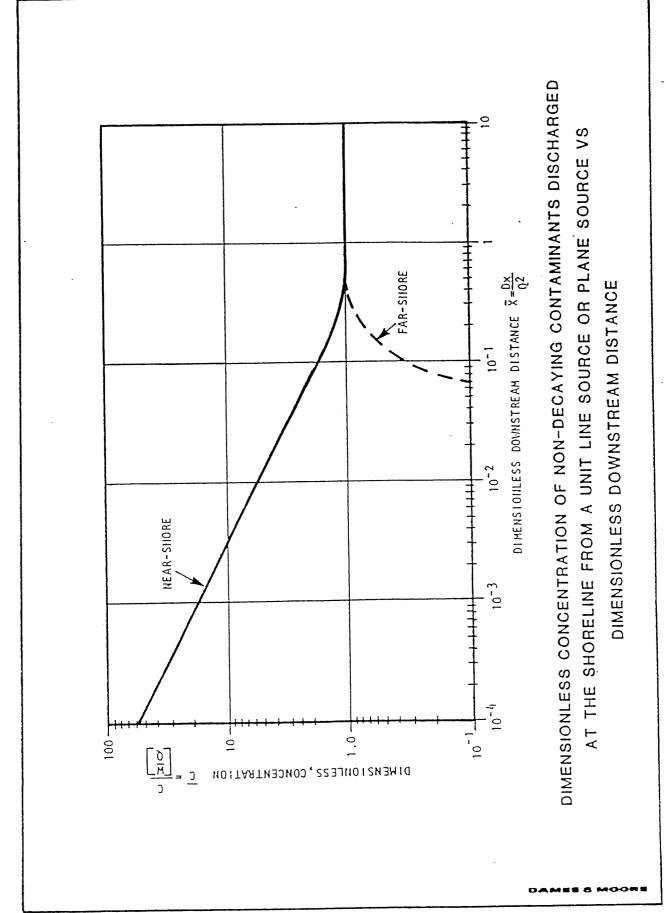
SOURCE: NOAA NAUTICAL CHART #14822, 1978

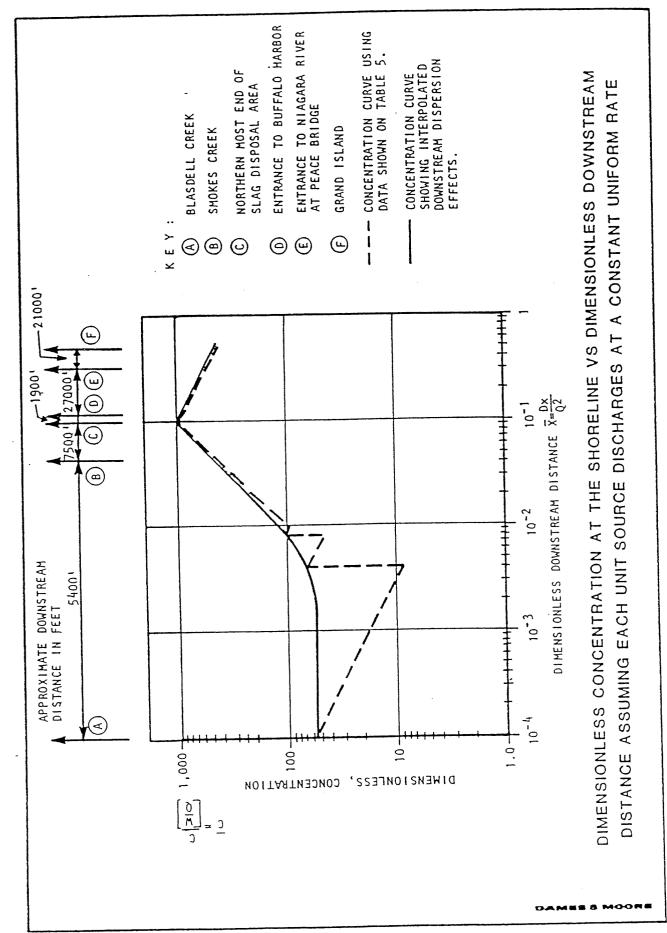
BATHYMETRY OF THE STUDY AREA USED AS INPUT DATA TO THE TWO-DIMENSIONAL CIRCULATION MODEL



FLOW FIELD OF THE NEARSHORE AREA OBTAINED FROM A TWO-DIMENSIONAL CIRCULATION MODEL







APPENDIX A ESTIMATE OF GROUND WATER DISCHARGE/RECHARGE FOR THE SOLID WASTE FACILITY

Estimate:

Ground Water Discharge/Recharge

Solid Waste Facility

Area 5 - Ground Water Discharge

Lake Shore Portion

Assume:

7000 ft. Shore-line

Transmissibility 22.6 x 10^3 gal/day w/30 ft section saturated thickness

Gradient 1.7 x 10³

Then:

 22.6×10^{3} gal/day/ft x 1.7 x 10^{3} x 5 x 10^{3} ft

 $= 2.7 \times 10^5 \text{ gal/day}$

Stream-Bank Portion

Assume:

5000 ft shore line/creek bank length

Transmissibility at 12 x 10^3 gal/day w/gradient 1.5 x 10^{-3}

15 ft average saturated thickness

Then:

 12×10^{3} gal/day/ft x 1.5 x 10^{-3} x 5 x 10^{3} ft

 $= .9 \times 10^5 \text{ gal/day}$

Total Area 5:

 $2.7 \times 10^5 \text{ gal/day} + .9 \times 10^5 \text{ gal/day} =$

= 3.6×10^5 gal/day (.56 ft³/sec)

<u>Area 5</u> — Infiltration Estimate

Assume:

Area⁽¹⁾ = .52 mi² (1.47 x 10^7 ft²)

Rainfall⁽²⁾ = 3.0 ft/yr Infiltration % = .48⁽³⁾

20% evaporation

Then:

Total available recharge Area 5

 $1.47 \times 10^7 \text{ ft}^2 \times 3 \text{ ft} = 4.35 \times 10^7 \text{ ft}^3/\text{yr}$

less run off to Lake/Creeks

 $4.35 \times 10^7 \text{ ft}^3/\text{yr} \times .48 = 2.09 \times 10^7 \text{ ft}^3/\text{yr}$

less 20% evaporation

 $2.09 \times 10^{7} \text{ ft}^{3}/\text{yr} \times .80 = 1.6 \times 10^{7} \text{ ft}^{3}/\text{yr}$

 $= 3.27 \times 10^5$ gal/day (.51 ft³/sec)

Consequently:

Recharge (.57 ft/sec) = Discharge (.56 ft/sec)

Notes:

Table 1 Surface Water Runoff Analysis Appendix B

- (1) Area of influence
- (2)Climatological data
- (3)Table I Estimated % Infiltration

(100%-52% = 48%) Area 5

(100%-58% = 42%) Area 6 & 6A

Area 6 & 6A — Ground Water Discharge

Lake Shore Portion

Assume:

5000 ft shoreline

Transmissibility 22.6 x 10³ gal/day/ft w/

30 ft of saturated section thickness

Gradient = 1.7×10^{-3}

Then:

22.6 x 10^3 gal/day/ft x 1.7 x 10^{-3} x 5 x 10^3 ft

 $= 2.0 \times 10^5$ gal/day (.31 ft³/sec)

Stream Bank Portion

Assume:

5500 ft length of discharge along Smokes Creek and Blasdell Creek

Transmissibility of 12.0 x 10^3 gal/day/ft using an approximate average

saturated thickness of 15 ft

Gradient = 1.5×10^{-3} (4)

Then:

12.0 x 10^3 gal/day/ft x 1.5 x 10^{-3} x 5.5 x 10^3 = .99 x 10^5 (.15 ft³/sec)

Total Area

6 & 6A:

 $2.0 \times 10^5 \text{ gal/day} + .99 \times 10^5 \text{ gal/day}$

=2.99 gal/day $(.46 \text{ ft}^3/\text{sec})$

Total Solid

Waste Area:

1.02 ft³/sec

Area 6 & 6A - Infiltration Estimate

Assume:

 $Area^{(1)} = .57 mi^{-2} = 1.47 \times 10^7 ft^2$

Rainfall⁽²⁾ = 3.0 ft/yr Infiltration % = 42%⁽³⁾

Evaporation = 20%

Then:

Total available recharge Area 6 & 6A

 $1.56 \times 10^{7} \text{ ft}^{2} \times 3.0 \text{ ft/yr} = 4.77 \times 10^{7} \text{ ft}^{3}/\text{yr}$

less runoff to Lake/Creeks

 $4.77 \times 10^7 \text{ ft}^3/\text{yr} \times .42 = 2.0 \times 10^7 \text{ ft}^3/\text{yr}$

less 20% evaporation

 $2.0 \times 10^7 \text{ ft}^3/\text{yr} \times .80 = 1.6 \times 10^7 \text{ ft}^3 \text{ to recharge}$

= 3.28×10^5 gal/day (.51 ft³/sec)

Consequently:

Recharge (.51 ft³/sec) approximately = Discharge (46 ft³/sec)

Total Recharge .51 = .51 = 1.02 ft/sec

Discharge .56 + .46 = 1.02 ft/sec

ST04.41

#45414GTON, 0. C.

AHITE PLAINS



DAMES & MOORE

ATHENS DIVACE

LATHREA SINDSDESS

ALMANT BYDNEY

LONDON TEMBAN

MADRID TONIC

MELBOURNE TORONTO

DECT LANCESSES

CONSULTANTS IN THE ENVIRONMENTAL AND APPLIED EARTH SCIENCES

6 COMMERCE DRIVE - CRANFORD, NEW JERSEY 07016 - (201) 272-8300 CABLE: DAMEMORE TWX: 710-996-5802

December 17, 1980

Bethiehem Steel-Company Lackawanna Plant S. 3556 Lake Shore Road Buffalo, New York 14219

Attention: Mr. C. F. Beasman, Chief Engineer

Re: On-Site Surface Water Runoff Analysis
Bethlehem Steel Company
Buffalo, New York

Gentlemen

INTRODUCTION

This report presents information requested by Bethlehem Steel Company, in connection with surface water hydrologic investigation for EPA discharge permit application.

The site is located in Buffalo, New York, bordering Lake Erie with a total area of approximately 2.7 sq. miles. The purpose of this study is to estimate the peak runoff rates under the 10-year, 24-hour rainfall storm of this area. The site related peak runoff rates were estimated for contributing areas within the property of the Lackawanna Plant only. Areas outside of the site were not considered in this analysis.

This work was performed using available published data and other relevant site information including the plant layout map, U.S.G.S. topographic quadrangle sheets, etc. The methodology and findings of this study are summarized and discussed below.

METHODOLOGY

The study area was first subdivided into sub-basins noting the passage of surface runoff and the discharge locations. This was done using the plant layout map and the U.S.G.S. topographic sheet of the area. The total distance of travel from the remotest point of a sub-basin to its discharge point was measured to estimate the time of concentration of the sub-basin. The time of travel from the sub-basin outlet point to the final discharge location, usually into Lake Erie was also estimated. Two types of flow were considered, the overland flow and channel flow. The overland flow velocity was estimated by considering the site's general topography, soil and land use type and using charts furnished in Reference 2. A value for channel flow velocity in

BACODE SERVICE

Bethlehem Steel Company December 17, 1980 Page -2-

creeks flowing into Lake Erie was estimated by assuming that there would be no excess head loss as the stream discharges into the lake and it would not result in an abrupt change in water surface elevation at the discharge point. This value is 4 ft/sec which approximately represents the full bank velocity of the streams in the study area. The overland flow velocity ranges from L2 to 2.5 ft/sec for general land slopes ranging from very flat slopes of less than 0.5% to about 3 to 4% in some areas.

The site's soil has a moderately high runoff potential except in those areas occupied by slag storage cells. The southern portion of the site has been heavily developed for industrial use and is covered by streets, roads and buildings. The rainfall quantity under the 10-year, 24-hour storm condition of this area is 3.5 inches (Reference 3). The Soil Conservation Service runoff rate computation procedures require an estimate of potential runoff quantity from the total rainfall quantity. This is usually done by assuming appropriate Runoff Curve Numbers (RCN) to the specific site soil and land use conditions and using equations provided in Reference 2. Due to the sparsity of RCN applicable to the specific site conditions, runoff coefficients generally used for the Rational Method for estimating peak runoff rates (Reference 1) were evaluated to develop the potential runoff quantity that approximates the site conditions. The runoff coefficients represent the fraction of rainfall that may become surface runoff. Hence, potential runoff quantity can be easily computed once the appropriate runoff coefficient values are derived.

Runoff coefficient values chosen are 0.8 for heavily industrial developed areas, 0.65 for moderately developed areas, and 0.5 for areas covered by slag storage cells with flat topography. Using the assumed runoff coefficients, the effective surface runoff quantity resulted closely agree to the runoff quantities obtained using Soil Conservation Service equation with Runoff Curve Numbers 82, 88 and 94 which approximately represent runoff conditions in industrial developed areas with soil conditions of moderately low, moderate and high runoff potentials. Table 1 presents the values of runoff coefficients and corresponding RCN chosen for the sub-basins. It should be noted that in basins where runoff coefficients were not uniformly assinged (e.g. Area Sector 5), a composite runoff coefficient was then derived.

The runoff rates at the discharge location were estimated using Soil Conservation Service Technique (Reference 2). Discharge rate is expressed as a function of the time of concentration of a sub-basin, time of travel from the sub-basin to its discharge location, contributing area and effective runoff quantity. Table 3 presents some details of this analysis.

RESULTS

Figure 1 shows the peak runoff rates at different discharge locations and the contributing area sectors. Table 2 presents these results in tabular form. It should be noted that there is always a time lag between the peak runoff rates from different sub-basins discharging into the same point (e.g., sub-basins 2 and 3). Therefore, the peak runoff rates are not directly additive. This is clearly illustrated in tabular form of the hydrograph computations on Table 3. Lakefront areas where overland runoff discharges directly into Lake Erie were not considered. They occupy approximately

Bethlehem Steel Company December 17, 1980 Page -3-

7% of the entire area. Topographic contours in these areas run almost parallel to the shoreline. The longest overland flow length ranges from approximately 800 to 1000 feet. Surface runoff from these areas occurs as turbulent overland sheet flows without defined channels. Runoff rates from these areas will be expected to be significantly less than those resulted from same areas if defined flow channels exist.

We appreciate this opportunity to be of service to you on this project. Should you have any further questions, please do not hesitate to contact us.

The following materials and attachments are enclosed and complete this report:

Table 1 - Runoff Coefficients/Runoff Curve Numbers and Discharge Locations of the Sub-Basins on Lackawanna Plant

Table 2 - Peak Runoff Rates Under the 10 Year, 24 Hour Storm Condi-

tions
Table 3 - Discharge Hydrographs

Figure 1 - Peak Runoff Rates of On-Site Surface Runoff

Very truly yours,

DAMES & MOORE

William V. Skinner Project Manager

David C. Shen J Staff Hydrologist

WVS:DCS:sh

Attachments

cc: Mr. D. Demo, Bethlehem Steel
Mr. J. Scherer, Bethlehem Steel

REFERENCES

- 1. Haan, C.T. and Barñeld, B.J., <u>Hydrology and Sedimentology of Surface Mined Lands</u>, 1978, University of Kentucky Press, pp. 91-92.
- Soil Conservation Service, January 1975, Urban Hydrology for Small Watersheds, U.S. Department of Commerce NTIS, PB-244 531.
- 3. U.S. Department of Commerce, Weather Bureau, May 1961, Rainfall Frequency Atlas of the United States, Tech. Paper No. 40.

TABLE 1

RUNOFF COEFFICIENTS/RUNOFF CURVE NUMBER AND
DISCHARGE LOCATIONS OF THE SUB-BASINS ON LACKAWANNA PLANT

	Area	Runoff Coefficient Runoff	Discharge	
Sub-Basin	(sq. mile)	Curve Number	Location	Remarks
1	0.24	0.80/94	A	
2	0.14	0.80/94	В	
3	0.13	0.80/94	C	
4	0.12	0.80/94	Α	
5 ⁽¹⁾	0.52	0.53/83	A	0.5 x 80% + 0.65 x 20% = 0.53 = composite runoff coefficient
5A ⁽¹⁾	0.04	0.65/84	D	
6 ⁽¹⁾	0.45	0.57/85	E	0.5 x 55% + 0.65 x 45% = 0.57 = composite runoff coefficient
6A ⁽¹⁾	0.12	0.65/88	Α	
7	0.17	0.65/88	E	
8	0.19	0.80/94	E	
9	0.15	0.80/94	Ε	
10	0.12	0.80/94	E	
11	0.07	0.80/94	F	
12	0.04	0.80/94	F	

- A Smoker's Creek Lake Erie
- B Union Canal Buffalo Harbor
- -C Ship Canal Buffalo Harbor
- D Lake Erie
- E Blasdell Creek Lake Erie
- F Un-named Creek-Lake Erie

⁽¹⁾ Sub-basins 5, 5A, 6, and 6A are Solid Waste Areas. No published data on Runoff Coefficient or Runoff Curve Numbers have been available. Therefore, the runoff coefficients used for these areas are based on our best judgement. However, they could vary from the worst case with extremely low runoff potential to about 70% of runoff.

TABLE 2

PEAK RUNOFF RATES UNDER THE 10 YEAR
24 HOUR STORM CONDITIONS

Sub-Basin	Total Contributing Area (sq. mile)	Peak* Runoff Rate (cfs)	
2	0.14	150	•
3	0.13	170	
5A	0.04	50	
1, 4, 5 and 6A	1.00	580	
6, 7, 8, 9, and 10	1.08	990	
11 and 12	0.11	110	

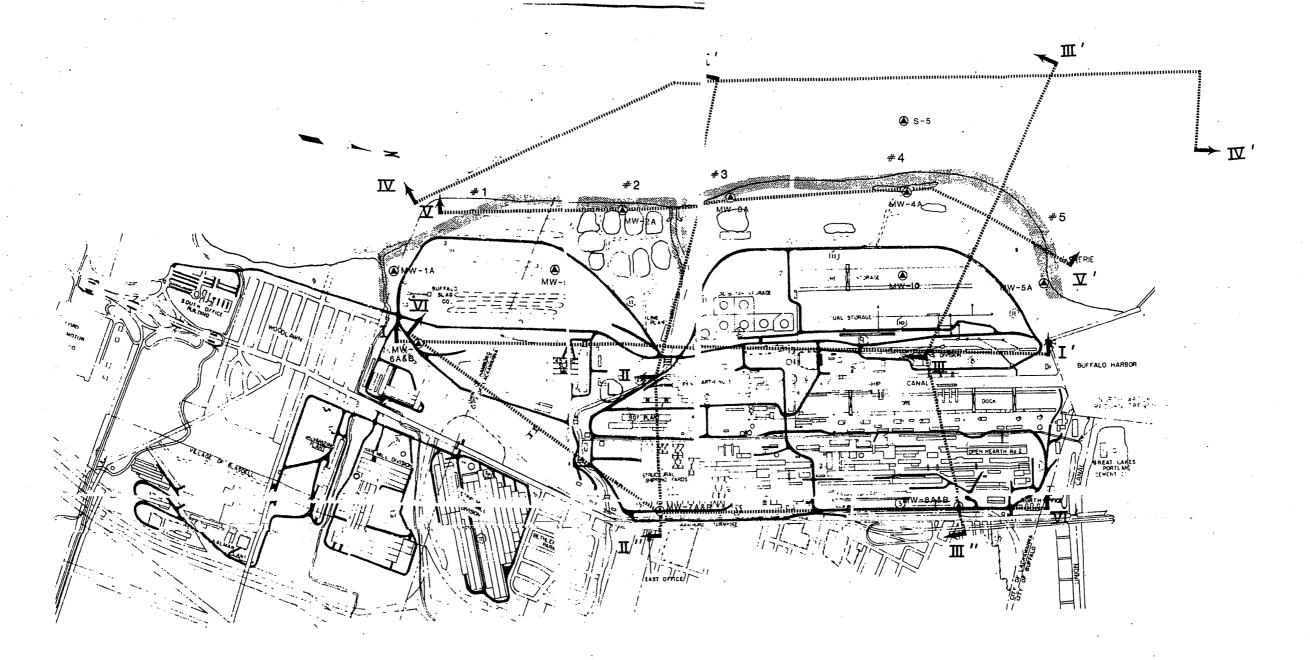
^{*}Peak runoff rates were estimated using Soil Conservation Service method (Reference 2) and are expressed to the nearest tenth cfs.

1	12.0				11D	282	202							
Ì	12.8				250	282	:573							
	12.7				20B	278	570							
£	1				208	208	584	259	231	408				
(F)	12.6				280	240	526	288	341	413	B7.7			
lour It	12.4	E) (F)			340	224	473	307	227	458	200	7.1	29	100
ne in !	12.3 12.4 12.5 12.6	•			208	=		311	206	438	458	99	=	106
1 10-Yo	12.2		2		160	155		287	171	187	845	22	25	106
Rusoff Rates 10-Yoar 24-Hour Ruinfull (2) ilydrogruph Time in Hours (cfs)	13.1			\$	118	123		245	134	308	•	37	09	93
Runof	11.9 12.0 12.1				70	94		183	86	218		23	67	90
	9.11											13	7	00
	1.8		-									63	13	35
	11.5													
Effective ⁽¹⁾ Itmoff	نح	2. B	3. B	2.3	2.8	a. 1		2.0	2.3	3.10		1.8	2.4	
Thursof Truvel to Discharge	Locution (hr)	į	1	1	0.22	i		1	0.07	0.17		0.34	0.16	
Time of Cancentration To Sub-Masin	Outlot Point (in:)	08.0	0.55	97.0	1.00	1.67		0.87	1.12	0.70	83	n.57	0.19	
	Aren (30), milo)	b.14	0.13	10.0	0.30	0.04	Total = 1.00 .	0.46	0.17	0.48	Total = 1.08	0.07	10.0	Total Area = 0.11
	(5) Dischingu Location		υ	=	*	٧			놸	ш		in.	<u>:-</u>	
	Diselection (technology)	-	, -	5.A(4)		5 mm 6A		(3)		8, 9 mid10				

(1) patentint runoff quantity (inches) can be obtained by Soil Conservation Service equation (Reference 2) or by total 10-year 24-bour storm reinfult (inches) x runoff coefficient (expressed to the nearest 0.1 inches)
(2) Inscharge rates are obtained by Interpolation using tables in Reference 2, pp. 6-7 to 6-10

(3) The peak runoff rates are underlined.

(4) Soild Wastu Arous
(5) Discharge Location
At Smokers Greek Busin - Lake Erio
By Union Cainal - Buffalo Harbor
Ca Ship Canal - Buffalo Harbor
By Lake Erio
Eg Busskill Greek Busin - Lake Erio
Eg Busakell Greek Busin - Lake Erio



LOCATION OF GROUND WATER MONITORING WELLS

BETHLEHEN STEEL CORPORATION LACK/WANNA FACILITY



IW-1 (A) GROWD WATER THEM TORTHS WELL

. LINE OF CRUSS SECTION

IN VIDUAL MONITORING WELLS FO
OMAMINANT LOADING CALCULATIO

APPENDIX A.2 NYSDEC SPILLS RECORDS

[Home] Spills] [IHWDS]

86

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:8503831
Spill Date:01/31/1986	Spill Time:
Call Received Date:	Time of Call Received:
Material Spilled	Spilled Units
GEAR OIL	0 lbs.
Spill Name:	
Address:ROUTE 5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Unknown	Source:Unknown
Resource:Surface Water	
Waterbody:	

Region Close Date:02/10/1986

New Search

NYS Department of Environmental Conservation - Home - Site Map - Search

[Home] Spills] [IHWDS]

Spill Information

Return to Spills Database Home Page New Search Spill Number:8600300 Region:9 Spill Time:10:15 AM **Spill Date:**04/12/1986 Time of Call Call Received Date: 04/12/1986 Received:10:51 AM **Material Spilled** Spilled Units Spill Name: BETHLEHEM STEEL Address: RT. 5 AT WOODLAWN City:HAMBURG County: Erie View Map Source: Tank Truck Cause:Traffic Accident Resource: Surface Water

Region Close Date:04/29/1986

New Search

Waterbody:

NYS Department of Environmental Conservation - Home - Site Map - Search

(Home) Spills IHWDS

Spill Information

Return to Spills Database Home Page

Region:9 Spill Number:8605704

Call Received Date:12/09/1986

Time of Call
Received:10:52 AM

Material SpilledSpilled UnitsMETAL SLUDGE35Gal.

Spill Name: BETHLEHEM STEEL

Address:ROUTE 5
City:LACKAWANNA

County:Erie View Map

New Search

Cause:Equipment Failure

Resource:On Land

Waterbody:

Region Close Date:12/18/1986

New Search

Return to Spills Database Home Page

Vehicle

Source:Commercial

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:8606504
Spill Date:01/20/1987	Spill Time:11:00 AM
Call Received Date:01/20/1987	Time of Call Received:01:00 PM
Material Spilled GASOLINE	Spilled Units 5 Gal.
Spill Name:BETHLEHEM STEEL Address:GALVANISING DIVISION	
City:LACKAWANNA County:Erie View Map	
Cause:Tank Failure	Source:Other Comm/Industrial
Resource:Groundwater	
Waterbody:	
Region Close Date:01/21/1987	

New Search

Spill Information

New Search	Return to Spills Database Home Pag			
Region:9	Spill Number:8701194			
Spill Date:05/12/1987	Spill Time:11:00 AM			
Call Received Date:05/12/1987	Time of Call Received:05:00 PM			
Material Spilled	Spilled Units			
UNKNOWN PETROLEUM	5000 Gal.			
WASH OIL	0 lbs.			
Spill Name:BETHLEHEM STEEL				
Address:ROUTE 5				
City:LACKAWANNA				
County:Erie				
View Map				
Cause:Unknown	Source: Other Comm/Industrial			
Resource:On Land				
Waterbody:				

New Search

Region Close Date:03/08/1989

[Home] Spills] [IHWDS]

1988

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:8710317
Spill Date:01/01/1988	Spill Time:12:00 PM
Call Received Date:03/09/1988	Time of Call Received:02:30 PM
Material Spilled	Spilled Units
UNKNOWN MATERIAL	0 Gal.
Spill Name:SMOKES CREEK	
Address:SOUTH SHORE BOULEVARD	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Unknown	Source: Unknown
Resource:Surface Water	
Waterbody:SMOKES CREEK	

New Search

Region Close Date:03/28/1988

∫Home ∫Spills ∫IHWDS \

Region Close Date:03/24/1988

New Search

1988

Return to Spills Database Home Page

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:8709873
Spill Date:02/22/1988	Spill Time:03:15 PM
Call Received Date:02/22/1988	Time of Call Received:04:43 PM
Material Spilled	Spilled Units
UNKNOWN PETROLEUM	0 Gal.
Spill Name:BETHLEHEM STEEL	
Address:SOUTH BLASDELL CREEK	
City:HAMBURG	
County:Erie	
View Map	
Cause:Other	Source:Other Comm/Industrial
Resource:Surface Water	
Waterbody:SOUTH BLASDELL CREEK	

| Home | Spills | IHWDS

1988

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:8802160
Spill Date:06/08/1988	Spill Time:08:00 AM
Call Received Date:06/08/1988	Time of Call Received:08:00 AM
Material Spilled UNKNOWN PETROLEUM	Spilled Units 1 Gal.
Spill Name:OIL IN SMOKES CREEK	
Address:SOUTH SHORE	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Unknown	Source: Unknown
Resource:Surface Water	
Waterbody:SMOKES CREEK	

New Search

Region Close Date:09/14/1988

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:8807350
Spill Date:12/02/1988	Spill Time:04:00 PM
Call Received Date:12/06/1988	Time of Call Received:02:35 PM
Material Spilled COAL TAR PITCH VOLATILES	Spilled Units 150 Gal.
Spill Name:BETHLEHEM STEEL/ COKE Address:1951 HAMBURG TURNPIKE City:LACKAWANNA County:Erie View Map	
Cause:Human Error Resource:On Land Waterbody:	Source:Other Comm/Industrial
	-

New Search

Region Close Date:03/08/1989

[Home] Spills] [IHWDS]

1988

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:8807779
Spill Date:12/21/1988	Spill Time:10:45 AM
Call Received Date:12/21/1988	Time of Call Received:12:05 PM
Material Spilled	Spilled Units
Spill Name:PICKLE ACID	
Address:ROUTE 5 GATE #6	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source:Other Comm/Industrial
Resource:Surface Water	
Waterbody:	

Region Close Date:12/23/1988

New Search

NYS Department of Environmental Conservation - Home - Site May - Search

| Home | Spills | IHWDS

1989

Search Results		31 results fou	nd	Refine Th	is Search	
			Next 10 Site	es Las	t 10 Sites	
	Spill #	Date	Spill Name	County	City	Address
1.	<u>8808085</u> 0		BETH STEEL COK OVENS	Œ Erie	LACKAWANNA	1951 HAMBURG TURNPIKE
2.	<u>8808100</u> 0	1/10/1989	ATLANTIC STATIC	ON Erie	LACKAWANNA	1329 ABBOTT ROAD
3.	<u>8808161</u> C	1/12/1989	BULKMATIC	Erie	LACKAWANNA	1951-25 HAMBURG TPK 5
4.	<u>8808230</u> C	1/16/1989	BETHLEHEM STE	EL Erie	LACKAWANNA	1951 HAMBURG TURNPIKE
5.	<u>8808437</u> C	1/24/1989	FERRO CORPORATION	Erie	LACKAWANNA	661 WILLET ROAD
6.	<u>8809587</u> 0	3/14/1989	SOUTH BUFFALO RAILROAD	Erie	LACKAWANNA	2600 HAMBURG TURNPIKE
7.	<u>8809622</u> 0	3/14/1989	DICKIE'S DONUTS	S Erie	LACKAWANNA	1785 ABBOTT ROAD
8.	<u>8900467</u> 0)4/15/1989	PIZZA HUT	Erie	LACKAWANNA	956 RIDGE ROAD
9.	<u>8901080</u> ()5/03/1989	UNIMART ON SOU PARK	JTH Erie	LACKAWANNA	SOUTH PARK AVENUE
10	89014200	5/12/1989	BETHLEHEM STE	EL Erie	LACKAWANNA	ROUTE 5 - COKE

New Search

Return to Spills Database Home Page

OVENS

[Home] Spills] IHWDS]

1989

Search I	Results
----------	---------

31 results found

Refine This Search

		First 10 Sites	Prev 10 Sites	Next	10 Sites	Last 10 Sites
	Spill #	Date	Spill Name	County	City	Address
11.	. <u>8901786</u>		AUTOMOBILE ACCIDENT	Erie	LACKAWA	NNA ROUTE 5
12.	. <u>8901882</u>	05/24/1989	BETHLEHEM STEEL	Erie	LACKAWA	NNA 1951 HAMBURG TURNPIKE
13.	. <u>8901881</u>		BUFFALO FUEL CORPORATION	Erie	LACKAWA	NNA ROUTE 5 AND HOLBROOK ST
14	. <u>8902156</u>	06/01/1989	BETHLEHEM STEEL	Erie	LACKAWA	NNA 1951 HAMBURG TURNPIKE RT5
15	. <u>8902556</u>		COAL DUST ON LAKE ERIE	Erie	LACKAWA	NNA ROUTE 5 AT BETH. STEEL
16	. <u>8903299</u>	06/29/1989	BETHLEHEM STEEL	Erie	LACKAWA	NNA ROUTE 5
17	. <u>8904132</u>	07/26/1989	BETHLEHEM STEEL	Erie	LACKAWA	NNA ROUTE 5 STRIP MILL
18	. 8904295	07/28/1989	FERRO ELECTRIC	Erie	LACKAWA	NNA 661 WILLETT ROAD
19	. <u>8904995</u>	08/18/1989	BETH-ENERGY COKE DIVISION	Erie	LACKAWA	NNA 1951 HAMBURG TURNPIKE - 5
20	. <u>8905329</u>	08/29/1989	NATIONAL SCHOOL BUS	Erie	LACKAWA	NNA 2514 SOUTH PARK AVENUE

New Search

[Home] Spills] [IHWDS]

1989

Search Results

31 results found

Refine This Search

			First 10 Sites	Prev 10 Sites	Nex	d 10 Sites	Last 10 Sites
		Spill #	Date	Spill Name	County	City	Address
2	1.	<u>8905654</u>		CAR GAS TANK	Erie	LACKAWANNA	A RIDGE ROAD & STEELAWANNA
22	2.	8906132	09/21/1989	TANKS AT 1517 ABBOTT ROAD	Erie	LACKAWANNA	A 1517 ABBOTT ROAD
23	3.	8906411	09/25/1989	NORFOLK SOUTHERN	Erie	LACKAWANNA	A FRONT ST. RAILROAD BRIDGE
24	4.	8906915	10/13/1989	SHELDON TAYLOR - RV	Erie	LACKAWANNA	A 190 EB MP 431
2	5.	8907414	10/26/1989	BETHLEHEM STEEL/COKE OVEN	Erie	LACKAWANNA	A 1951 HAMBURG TURNPIKE RT5
2	6.	8908347	11/22/1989	BETHLEHEM STEEL-COKE DIV	Erie	LACKAWANNA	A 1951 HAMBURG TURNPIKE
2	7.	8908385	11/22/1989	BETHELEM STEEL COKE DIV.	Erie	LACKAWANN	A 1951 HAMBURG TURNPIKE
2	8.	8908838	12/07/1989	STOP-N-GO #2016	Erie	LACKAWANN	A 1131 RIDGE @ LAKE SHORE
2	9.	8908993	12/12/1989	SANDYS AUTO AND TRUCK INC	Erie	LACKAWANN	A 190 MP 430.5
3	0.	8909275	12/22/1989	BETHLEHEM STEEL	Erie	LACKAWANN	A BETHLEHEM STEEL

New Search

NYS Department of Environmental Conservation - Home - Site Map - Search

[Home] Spills] [IHWDS]

1989

Search Results

31 results found

Refine This Search

First 10 Sites

Prev 10 Sites

Spill #

Date

Spill Name

County

City

Address

31. <u>8909393</u> 12/28/1989 TRAFFIC ACCIDENT

LACKAWANNA RIDGE ROAD & Erie ROUTE 5

New Search

| Home | Spills | IHWDS

1989

Spill Information

Spill Number:8808085 Spill Time:11:30 AM Time of Call Received:12:32 PM Spilled Units 50 Gal.
Time of Call Received:12:32 PM Spilled Units
Received:12:32 PM Spilled Units
•
50 Gal.
A
Source: Other Comm/Industrial

Region Close Date:06/26/1989

New Search

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:8808230
Spill Date: 01/16/1989	Spill Time:01:00 AM
Call Received Date:01/16/1989	Time of Call Received:09:55 AM
Material Spilled WASH OIL	Spilled Units 30 Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	
Region Close Date:06/26/1989	

New Search

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:8901420
Spill Date:05/12/1989	Spill Time:10:30 AM
Call Received Date:05/12/1989	Time of Call Received:11:18 AM
Material Spilled UNKNOWN PETROLEUM	Spilled Units 7 Gal.
Spill Name:BETHLEHEM STEEL	
Address:ROUTE 5 - COKE OVENS	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

New Search

Region Close Date:11/13/1990

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:8901882
Spill Date:05/24/1989	Spill Time:07:00 AM
Call Received Date:05/24/1989	Time of Call Received:11:18 AM
Material Spilled COAL TAR PITCH VOLATILES	Spilled Units 300 Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Tank Overfill	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	
Region Close Date:06/14/1989	

New Search

∫Home ∬Spills ∬IHWDS `į

1989

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:8902156
Spill Date:06/01/1989	Spill Time:09:00 PM
Call Received Date:06/01/1989	Time of Call Received:10:00 PM
Material Spilled	Spilled Units
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Unknown	Source: Other Comm/Industrial
Resource:Air	
Waterbody:	

New Search

Region Close Date:06/02/1989

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:8902556
Spill Date:06/12/1989	Spill Time:08:00 AM
Call Received Date:06/12/1989	Time of Call Received:10:00 AM
Material Spilled	Spilled Units
UNKNOWN MATERIAL	0 lbs.
Spill Name:COAL DUST ON LAKE ERIE	
Address: ROUTE 5 AT BETH. STEEL	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Unknown	Source: Other Comm/Industrial
Resource:Surface Water	
Waterbody:LAKE ERIE	

New Search

Region Close Date:06/12/1989

∫Home ∫Spills ∫IHWDS \

Region Close Date:07/20/1989

New Search

1989

Return to Spills Database Home Page

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:8903299
Spill Date:06/29/1989	Spill Time:08:15 PM
Call Received Date:06/29/1989	Time of Call Received:08:22 PM
Material Spilled	Spilled Units
Spill Name:BETHLEHEM STEEL	
Address:ROUTE 5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Deliberate	Source: Other Comm/Industrial
Resource:Air	
Waterbody:	

Return to Spills Database Home Page

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:8904132
Spill Date: 07/26/1989	Spill Time:10:01 AM
Call Received Date:07/26/1989	Time of Call Received:10:20 AM
Material Spilled	Spilled Units
Spill Name:BETHLEHEM STEEL	
Address:ROUTE 5 STRIP MILL	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source:Other Comm/Industrial
Resource:Surface Water	
Waterbody:SMOKES CREEK	
Region Close Date:07/27/1989	

New Search

[Home] Spills] [IHWDS]

(989

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:8904995
Spill Date:08/19/1989	Spill Time:03:30 PM
Call Received Date:08/18/1989	Time of Call Received:05:12 PM
Material Spilled	Spilled Units
Spill Name:BETH-ENERGY COKE DIVISIO	N
Address:1951 HAMBURG TURNPIKE - 5	
City:LACKAWANNA	
County:Erie	
<u>View Map</u>	
Cause:Tank Failure	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	

Region Close Date:06/17/1991

New Search

Return to Spills Database Home Page

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:8907414
Spill Date:10/26/1989	Spill Time:02:00 PM
Call Received Date:10/26/1989	Time of Call Received:02:43 PM
Material Spilled	Spilled Units
Spill Name:BETHLEHEM STEEL/COKE OV	EN
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
<u>View Map</u>	
Cause:Equipment Failure	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	

Region Close Date:10/30/1989

New Search

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:8908347
Spill Date:11/22/1989	Spill Time:08:50 AM
Call Received Date:11/22/1989	Time of Call Received:09:14 AM
Material Spilled #2 FUEL OIL	Spilled Units 5 Gal.
Spill Name:BETHLEHEM STEEL-COKE DIV	/
Address:1951 HAMBURG TURNPIKE	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Human Error	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

Region Close Date:11/22/1989

New Search

[Home] Spills] [IHWDS]

1989

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:8908385
Spill Date:11/22/1989	Spill Time:09:00 AM
Call Received Date:11/22/1989	Time of Call Received:01:04 PM
Material Spilled	Spilled Units
UNKNOWN PETROLEUM	4 Gal.
COAL TAR PITCH VOLATILES	0 lbs.
Spill Name:BETHELEM STEEL COKE DIV	
Address:1951 HAMBURG TURNPIKE	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Tank Overfill	Source: Other Comm/Industrial
Resource:On Land	

Region Close Date:11/22/1989

Waterbody:LAKE ERIE

New Search

[Home] Spills] [IHWDS]

1989

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:8909275
Spill Date:12/22/1989	Spill Time:03:00 AM
Call Received Date:12/22/1989	Time of Call Received:09:19 AM
Material Spilled	Spilled Units
Spill Name:BETHLEHEM STEEL	
Address:BETHLEHEM STEEL	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

New Search

Region Close Date:01/24/1990

| Home | Spills | IHWDS

1990

Search Results

33 results found

Refine This Search

			Next 10 Sites	Las	t 10 Sites	
	Spill #	Date	Spill Name	County	City	Address
1.	8909764	01/10/1990	CANISTER ON ROAD	Erie	LACKAWANNA	190 MP 430 WB
2.	8909830	01/12/1990	GASOLINE IN EXCAVATION	Erie		3260 SOUTH PARK AVENUE
3.	8910950	02/16/1990	BETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TRPK ROUTE 5
4.	8911255	02/23/1990	BETHLEHEM STEEL - COKE PT	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
5.	8911292	02/28/1990	BETHELEM STEEL	Erie	LACKAWANNA	ROUTE 5 - FURHMANN BLVD
6.	8912343	03/28/1990	BETHLEHEM STEEL/GOETZ OIL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
7.	9000035	04/03/1990	BETHLEHEM STEEL	Erie		1951 HAMBURG TRPK - RT. 5
8.	9000212	04/06/1990	BETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TRPK - RT 5
9.	9000367	04/11/1990	BETHLEHEM STEEL BY PROD.	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
10	. 9000507	04/16/1990	COLLISION SHOP	Erie		3375 SOUTH PARK AVENUE

New Search

[Home][Spills][IHWDS]

1990

Search Results	33 results found	d	<u>Refin</u>	e This Search
First 10 Sites	Prev 10 Sites	<u> </u>	ext 10 Sites	Last 10 Sites
Spill # Date	Spill Name	County	City	Address
11. <u>9000829</u> 04/23/1990 BET STE		Erie		FURHMAN BLVD ROUTE 5
12. <u>9001021</u> 04/27/1990 QUI COI	KRETE I NCRETE	≣rie	LACKAWANNA	7 STEELAWANNA BLVD
13. <u>9001098</u> 04/30/1990 BET STE		Erie	LACKAWANNA	ROUTE 5
14. <u>9001280</u> 05/02/1990 SAF	FETY KLEEN	Erie	LACKAWANNA	GATES AVENUE
15. <u>9001858</u> 05/17/1990 BET		Erie	LACKAWANNA	1951 HAMBURG TRPK - RT. 5
16. <u>9002102</u> 05/23/1990 BE ⁻ STE	THLEHEM EEL	Erie	LACKAWANNA	UNION SHIP CANAL ROUTE 5
17. <u>9002693</u> 06/08/1990 SEF	RWAIKI LLISION	Erie	LACKAWANNA	4375 SOUTH PARK AVENUE
18. 9003097 06/18/1990 LEH		Erie	LACKAWANNA	90 JACKSON STREET
19. <u>9003474</u> 06/26/1990 ABI	BOTT TORS	Erie	LACKAWANNA	1645 ABBOTT ROAD
20. 9003580 06/28/1990 BE		Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5

New Search

[Home] Spills] [IHWDS]

1990

	Sea	arch Res	ults			33 results	found		Re	efine Th	is Sear	<u>ch</u>
			Fi	rst 10 Sites		Prev 10 5	Sites	Next 1	0 Sites	Las	st 10 Site	S
		Spill #		Date		Spill Nan	ne	County	Cit	ty	А	ddress
	21.	900425	<u>5</u> 07	/17/1990	BETH	HLEHEM S	STEEL	Erie	LACKAV	VANNA		IAMBURG PIKE - 5
	22.	900474	<u>9</u> 07	/30/1990	PATE	RNOSTR	A SHOP	Erie	LACKAV	VANNA	1230 A ROAD	ввотт
•				/24/1990				Erie	LACKAV	VANNA	1471 A ROAD	ВВОТТ
	24.	900658	<u>5</u> 09	/14/1990	BURI	NING PIPE	ES	Erie	LACKAV	VANNA	1951 H	IAMBURG
	25.	900722	<u>3</u> 10	/02/1990	BETH	HLEHEM S	STEEL	Erie	LACKAV	VANNA	1951 H TRPK.	IAMBURG RT 5
	26.	900753	<u>7</u> 10	/10/1990	BETH	HLEHEM S	STEEL	Erie	LACKAV	VANNA	1951 H TRPK.	IAMBURG RT 5
	27.	900757	<u>0</u> 10	/11/1990	FERF	RO ELECT	RIC	Erie	LACKAV	VANNA	661 WI	
	28.	900766	<u>1</u> 10			COMPLAIN KAWANNA		Erie	LACKAV	VANNA		ON & ER STREETS
	29.	900779	<u>12</u> 10	/16/1990	BETH	HLEHEM S	STEEL	Erie	LACKAV	VANNA	1951 H TRPK.	IAMBURG - RT 5
	30.	900793	<u>9</u> 10	/20/1990	NATA HOM	ALZIA MOI E	BILE	Erie	LACKAV	VANNA	45 LIS	A LANE

New Search

| Home | Spills | IHWDS|

1990

Sea	arch Resu	lts	33 results found		Refine T	<u>'his Search</u>
			First 10 Sites	Prev 1	0 Sites	
	Spill #	Date	Spill Name	County	City	Address
31.	9008504		PETRO SALES AND SERVICE	Erie	LACKAWANNA	2540 SOUTH PARK AVENUE
32.	9009849	12/11/1990	SAFETY KLEEN	Erie	LACKAWANNA	41 NORTH GATES AVENUE
33.	9009958	12/13/1990	SAFETY KLEEN	Erie	LACKAWANNA	41 NORTH GATES AVENUE

New Search

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:8910950
Spill Date:02/16/1990	Spill Time:11:30 AM
Call Received Date:02/16/1990	Time of Call Received:12:07 PM
Material Spilled	Spilled Units
UNKNOWN MATERIAL	100 Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TRPK ROUTE 5	
City:LACKAWANNA	
County:Erie	
<u>View Map</u>	
Cause:Human Error	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

Region Close Date:04/11/1990

New Search

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:8911255
Spill Date:02/21/1990	Spill Time:12:00 PM
Call Received Date:02/23/1990	Time of Call Received:04:20 PM
Material Spilled	Spilled Units
UNKNOWN MATERIAL	Unknown Gal.
Spill Name:BETHLEHEM STEEL - COKE P	T
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Deliberate	Source: Other Comm/Industrial
Resource:Surface Water	
Waterbody:	

New Search

Region Close Date:02/23/1990

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:8912343
Spill Date:03/28/1990	Spill Time:08:50 AM
Call Received Date:03/28/1990	Time of Call Received:09:02 AM
Material Spilled DIESEL	Spilled Units 50 Gal.
Spill Name:BETHLEHEM STEEL/GOETZ O	IL
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Human Error	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	

New Search

Region Close Date:06/17/1991

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9000035
Spill Date:04/03/1990	Spill Time:07:30 AM
Call Received Date:04/03/1990	Time of Call Received:08:32 AM
Material Spilled WASTE OIL	Spilled Units 700 Gal.
Spill Name:BETHLEHEM STEEL Address:1951 HAMBURG TRPK - RT. 5 City:LACKAWANNA County:Erie View Map	
Cause:Human Error Resource:On Land Waterbody:	Source:Other Comm/Industrial
Region Close Date:06/12/1990	

New Search

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9000212
Spill Date:04/06/1990	Spill Time:11:45 AM
Call Received Date:04/06/1990	Time of Call Received:12:16 PM
Material Spilled	Spilled Units
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TRPK - RT 5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	

New Search

Region Close Date:04/09/1990

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9000367
Spill Date:04/11/1990	Spill Time:12:15 PM
Call Received Date:04/11/1990	Time of Call Received:01:15 PM
Material Spilled	Spilled Units
Spill Name:BETHLEHEM STEEL BY PROD).
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
<u>View Map</u>	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

New Search

Region Close Date:06/17/1991

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9000829
Spill Date:04/23/1990	Spill Time:05:45 PM
Call Received Date:04/23/1990	Time of Call Received:06:45 PM
Material Spilled	Spilled Units
Spill Name:BETHLEHEM STEEL	
Address:FURHMAN BLVD ROUTE 5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Unknown	Source:Other Comm/Industrial
Resource:Air	
Waterbody:	
Region Close Date:04/24/1990	

Return to Spills Database Home Page

New Search

Spill Information

New Search	Return to Spills Database Home Pag		
Region:9	Spill Number:9001098		
Spill Date:04/30/1990	Spill Time:08:46 AM		
Call Received Date:04/30/1990	Time of Call Received:08:50 AM		
Material Spilled	Spilled Units		
UNKNOWN PETROLEUM	100 lbs.		
FLY ASH	0 lbs.		
Spill Name:BETHLEHEM STEEL			
Address:ROUTE 5			
City:LACKAWANNA			
County:Erie			
<u>View Map</u>			
Cause:Unknown	Source: Other Comm/Industrial		
Resource:Surface Water			
Waterbody:LAKE ERIE			

Region Close Date:05/29/1990

New Search

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9001858
Spill Date: 05/17/1990	Spill Time:11:00 AM
Call Received Date:05/17/1990	Time of Call Received:11:00 AM
Material Spilled WASTE OIL	Spilled Units 20 Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TRPK - RT. 5	
City:LACKAWANNA	
County:Erie	
<u>View Map</u>	
Cause:Equipment Failure	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	

New Search

Region Close Date:05/17/1990

New Search

1990

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9002102
Spill Date:05/23/1990	Spill Time:12:45 PM
Call Received Date:05/23/1990	Time of Call Received:01:05 PM
Material Spilled WASTE OIL	Spilled Units 100 Gal.
Spill Name:BETHLEHEM STEEL Address:UNION SHIP CANAL ROUTE 5 City:LACKAWANNA County:Erie View Map	
Cause:Other	Source:Other Comm/Industrial
Resource:Surface Water	
Waterbody:LAKE ERIE	
Region Close Date:01/02/1991	

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9003580
Spill Date:06/28/1990	Spill Time:04:45 PM
Call Received Date:06/28/1990	Time of Call Received:04:45 PM
Material Spilled UNKNOWN PETROLEUM	Spilled Units 0 Gal.
Spill Name:BETHLEMEN STEEL Address:1951 HAMBURG TURNPIKE RT5 City:LACKAWANNA County:Erie View Map	
Cause:Unknown Resource:Surface Water Waterbody:LAKE ERIE	Source:Unknown

Region Close Date:06/28/1990

New Search

Region Close Date:12/03/1990

New Search

1990

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9004255
Spill Date:07/17/1990	Spill Time:01:30 PM
Call Received Date:07/17/1990	Time of Call Received:03:35 PM
Material Spilled	Spilled Units
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE - 5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9007223
Spill Date:10/02/1990	Spill Time:07:30 AM
Call Received Date:10/02/1990	Time of Call Received:08:28 AM
Material Spilled	Spilled Units
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TRPK. RT 5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

Region Close Date:10/02/1990

New Search

| Home | Spills | IHWDS

1990

Spill Information

New Search

Return to Spills Database Home Page

Region:9 Spill Number:9007537

Spill Date:10/10/1990 **Spill Time:**02:36 PM

Call Received Date: 10/10/1990
Time of Call
Received: 03:25 PM

Material Spilled Units

WASTE OIL 75 Gal. WASH OIL 0 lbs.

Spill Name:BETHLEHEM STEEL

Address:1951 HAMBURG TRPK. RT 5

City:LACKAWANNA

County:Erie
View Map

Cause:Equipment Failure

Source:Other
Comm/Industrial

Resource:Surface Water

Waterbody:

Region Close Date: 10/10/1990

New Search

[Home][Spills][IHWDS]

1990

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9007792
Spill Date:10/16/1990	Spill Time:10:30 PM
Call Received Date:10/16/1990	Time of Call Received:11:53 PM
Material Spilled	Spilled Units
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TRPK RT 5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

Region Close Date:11/29/1990

New Search

[Home] Spills] [IHWDS]

991

Search Results

37 results found

Refine This Search

			Next 10 Sites	l lac	st 10 Sites	
]		
	Spill #	Date	Spill Name	County	City	Address
1.	9010563	01/02/1991	BETHLEHEM STEEL 216 OUTFL	Erie	LACKAWANNA	3558 HAMBURG TURNPIKE RT5
2.	9012074	02/12/1991	353 RIDGE ROAD	Erie	LACKAWANNA	353 RIDGE ROAD
3.	9012459	03/05/1991	BETHLEHEM STEEL- COAL TAR	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE
4.	9012631	03/09/1991	BETHLEHEM STEEL-NH4	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE
5.	9012796	03/14/1991	BETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE - 5
6.	9012909	03/19/1991	BETH STEEL-COAL MIXER	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE
7.	9013290	03/29/1991	NIAGARA MOHAWK	Erie	LACKAWANNA	1596 TO 1586 ABBOTT ROAD
8.	9100044	04/01/1991	BETH STEEL- BENZOIL YARD	Erie	LACKAWANNA	HAMBURG TURNPIKE - RT 5
9.	9100003	04/01/1991	BETHLEHEM STEEL- BP AREA	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE - 5
10.	9100575	04/15/1991	BETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE - 5

New Search

[Home] Spills] [IHWDS]

1991

Search Results

37 results found

Refine This Search

		First 10 Sites	Prev 10 Sites	Next	10 Sites	Last 10 Sites
S	pill #	Date	Spill Name	County	City	Address
11. <u>91</u> 0	00859	04/18/1991	PETRO STATION	Erie	LACKAWA	NNA 2540 SOUTH PARK
12. <u>91</u> 0	00855	04/23/1991	BETH STEEL-COAL TAR	Erie	LACKAWA	NNA 1951 HAMBURG TURNPIKE
13. <u>91</u> 0	01094	04/26/1991	BETH STEEL- OUTFALL 411	Erie	LACKAWA	NNA 1951 HAMBURG TURNPIKE - 5
14. <u>91</u> 0	01434	05/05/1991	BETHLEHEM STEEL- BY PROD.	Erie	LACKAWA	NNA 2558 HAMBURG TURNPIKE - 5
15. <u>91</u> 0	01522	05/07/1991	BETH STEEL-MUCK OIL	Erie	LACKAWA	NNA 1951 HAMBURG TURNPIKE
16. <u>91</u> 0	01992	05/20/1991	BETHLEHEM STEEL- TANK FARM	Erie	LACKAWA	NNA HAMBURG TURNPIKE ROUTE 5
17. <u>91</u>	02025	05/21/1991	BETHLEHEM STEEL- COKE OVEN	Erie	LACKAWA	NNA 1951 HAMBURG TURNPIKE - 5
18. <u>91</u>	02209	05/25/1991	RUPTURED FUEL TANK	Erie	LACKAWA	NNA MCKINLEY AVENUE BRIDGE
19. <u>91</u>	02305	05/29/1991	NEIGHBOR DUMPING	Erie	LACKAWA	NNA 53 GRANT STREET
20. <u>91</u>	02398	05/30/1991	IRENE URBANCZYK	Erie	LACKAWA	NNA 156 ELKHART STREET

New Search

∫Home ∫ Spills ∫ IHWDS \

1991

Search Results

37 results found

Refine This Search

		First 10 Sites	Prev 10 Sites	Ne	ext 10 Sites	Last 10 Sites
	Spill #	Date	Spill Name	County	City	Address
21.	9102471	_06/01/1991	SAMUEL SIEGEL	Erie	LACKAWANNA	A 2424 HAMBURG TURNPIKE
22.	9102582	06/04/1991	WILLAND DUMPING	Erie	LACKAWANNA	A 134 CLEVELAND AVENUE
23.	9102643	06/05/1991	ODOR AT 2424 HAMBURG	Erie	LACKAWANNA	A 2424 HAMBURG TURNPIKE
24.	9102756	06/09/1991	ATLANTIC 0364- 1743	Erie	LACKAWANNA	A 1329 ABBOTT ROAD
25.	9103701	07/06/1991	BETH ENERGY	Erie	LACKAWANNA	ROUTE 5 LAKESHORE DRIVE
26.	9103769	07/08/1991	BETHLEHEM STEEL ODOR	Erie	LACKAWANNA	A 1951 HAMBURG TURNPIKE RT5
27.	9104299	07/22/1991	PETRO GAS STATION	Erie	LACKAWANNA	A 2556 SOUTH PARK AVENUE
28.	9105325	08/16/1991	UNKNOWN PRIVATE AUTO	Erie	LACKAWANNA	A ABBOTT & DORRANCE (PLAZA)
29.	9105841	08/29/1991	BETHLEHEM STEEL	Erie	LACKAWANNA	A 1951 HAMBURG TURNPIKE RT5
30.	9106150	09/09/1991	BETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5

New Search

∫Home ∬Spills ∬IHWDS `į

1991

Sea	arch Resu	lts	37 results found		Refine Th	nis Search
	, , , , , , , , , , , , , , , , , , ,		First 10 Sites	Prev 10	Sites	
	Spill #	Date	Spill Name	County	City	Address
31.	9106430	09/15/1991	BETHLEHEM STEEL- OVENS	Erie		HAMBURG TRPK - ROUTE 5
32.	9106868	09/26/1991	BETHLEHEM STEEL- NAPHALENE	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE
33.	9107047	10/01/1991	ATLANTIC MINI MART	Erie	LACKAWANNA	ABBOTT ROAD
34.	9108143	10/30/1991	ASBESTOS - CONST. SITE	Erie	LACKAWANNA	18 CHURCH STREET
35.	9109075	11/25/1991	NIAGARA MOHAWK	Erie	LACKAWANNA	1406 RIDGE ROAD
36.	9109189	11/26/1991	TOM HIGGINS TANKS	Erie		3473 SOUTH PARK AVENUE
37.	9109703	12/11/1991	ABBOTT ROAD PLAZA	Erie	LACKAWANNA	DORRENCE AVENUE

New Search

[Home] Spills [IHWDS]

Region Close Date:01/07/1991

New Search

1991

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9010563
Spill Date:01/02/1991	Spill Time:02:40 PM
Call Received Date:01/02/1991	Time of Call Received:03:41 PM
Material Spilled	Spilled Units
Spill Name:BETHLEHEM STEEL 216 OUT	-L
Address:3558 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Unknown	Source:Other Comm/Industrial
Resource:Surface Water	
Waterbody:SMOKES CREEK	

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9012459
Spill Date:03/05/1991	Spill Time:08:30 AM
Call Received Date:03/05/1991	Time of Call Received:11:48 AM
Material Spilled	Spilled Units
COAL TAR PITCH VOLATILES	200 Gal.
Spill Name:BETHLEHEM STEEL-COAL TAI	₹
Address:1951 HAMBURG TURNPIKE	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

Region Close Date:03/11/1991

New Search

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9012631
Spill Date:03/09/1991	Spill Time:03:30 AM
Call Received Date:03/09/1991	Time of Call Received:06:11 AM
Material Spilled	Spilled Units
AMMONIA	Unknown Gal.
PHENOL	Unknown Gal.
CARBOLIC ACID	Unknown Gal.
Spill Name:BETHLEHEM STEEL-NH4	
Address:1951 HAMBURG TURNPIKE	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

Region Close Date:10/03/1991

New Search

New Search

1991

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9012796
Spill Date:03/14/1991	Spill Time:01:00 PM
Call Received Date:03/14/1991	Time of Call Received:01:13 PM
Material Spilled COAL TAR PITCH VOLATILES	Spilled Units 15 Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE - 5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Other	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	
Region Close Date:03/15/1991	

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9012909
Spill Date:03/19/1991	Spill Time:08:00 AM
Call Received Date:03/19/1991	Time of Call Received:08:21 AM
Material Spilled	Spilled Units
#2 FUEL OIL	500 Gal.
Spill Name:BETH STEEL-COAL MIXER	
Address:1951 HAMBURG TURNPIKE	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

Region Close Date:08/12/1991

New Search

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9100003
Spill Date:04/01/1991	Spill Time:12:30 AM
Call Received Date:04/01/1991	Time of Call Received:07:40 AM
Material Spilled	Spilled Units
TAR	50 Gal.
Spill Name:BETHLEHEM STEEL-BP AREA	
Address:1951 HAMBURG TURNPIKE - 5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Human Error	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	

Region Close Date:04/23/1991

New Search

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9100044
Spill Date:04/01/1991	Spill Time:03:00 PM
Call Received Date:04/01/1991	Time of Call Received:03:45 PM
Material Spilled WASTE OIL	Spilled Units 50 Gal.
Spill Name:BETH STEEL-BENZOIL YARD	
Address:HAMBURG TURNPIKE - RT 5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Human Error	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	
Region Close Date:08/12/1991	

New Search

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9100575
Spill Date:04/15/1991	Spill Time:05:00 PM
Call Received Date:04/15/1991	Time of Call Received:06:02 PM
Material Spilled WASTE OIL	Spilled Units 25 Gal.
Spill Name:BETHLEHEM STEEL Address:1951 HAMBURG TURNPIKE - 5 City:LACKAWANNA County:Erie View Map	
Cause:Equipment Failure Resource:On Land Waterbody:	Source:Other Comm/Industrial
Region Close Date:05/22/1991	

New Search

[Home] Spills [IHWDS]

New Search

1991

Return to Spills Database Home Page

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9100855
Spill Date:04/23/1991	Spill Time:08:00 AM
Call Received Date:04/23/1991	Time of Call Received:08:32 AM
Material Spilled COAL TAR PITCH VOLATILES	Spilled Units 800 Gal.
Spill Name:BETH STEEL-COAL TAR	
Address:1951 HAMBURG TURNPIKE	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	
Region Close Date:05/06/1991	

Return to Spills Database Home Page

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9101094
Spill Date:04/26/1991	Spill Time:09:30 AM
Call Received Date:04/26/1991	Time of Call Received:10:28 AM
Material Spilled UNKNOWN PETROLEUM	Spilled Units Unknown lbs.
Spill Name:BETH STEEL-OUTFALL 411	
Address:1951 HAMBURG TURNPIKE - 5	
City:LACKAWANNA	
County:Erie	
<u>View Map</u>	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:Surface Water	
Waterbody:LAKE ERIE	
Region Close Date:05/01/1991	

New Search

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9101434
Spill Date:05/05/1991	Spill Time:11:30 AM
Call Received Date:05/05/1991	Time of Call Received:02:32 PM
Material Spilled	Spilled Units
COAL TAR PITCH VOLATILES	75 Gal.
Spill Name:BETHLEHEM STEEL-BY PROD).
Address:2558 HAMBURG TURNPIKE - 5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	
Region Close Date:05/17/1991	

New Search

New Search

1991

Return to Spills Database Home Page

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9101522
Spill Date:05/07/1991	Spill Time:04:55 PM
Call Received Date:05/07/1991	Time of Call Received:05:04 PM
Material Spilled MUCK OIL	Spilled Units 25 Gal.
Spill Name:BETH STEEL-MUCK OIL	
Address:1951 HAMBURG TURNPIKE	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	
Region Close Date:08/12/1991	

∫Home ∫ Spills ∫ IHWDS \

1991

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9102025
Spill Date:05/21/1991	Spill Time:06:00 AM
Call Received Date:05/21/1991	Time of Call Received:07:04 AM
Material Spilled COAL TAR PITCH VOLATILES	Spilled Units 300 Gal.
Spill Name:BETHLEHEM STEEL-COKE OV Address:1951 HAMBURG TURNPIKE - 5	'EN
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	
Region Close Date:05/21/1991	

New Search

[Home] Spills] [IHWDS]

1991

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9105841
Spill Date:08/29/1991	Spill Time:11:40 AM
Call Received Date:08/29/1991	Time of Call Received:12:37 PM
Material Spilled	Spilled Units
WASTE OIL	15 Gal.
WASH OIL	0 lbs.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	

Region Close Date:01/12/1993

New Search

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9106150
Spill Date:09/09/1991	Spill Time:05:45 AM
Call Received Date:09/09/1991	Time of Call Received:07:02 AM
Material Spilled WASH OIL	Spilled Units Unknown lbs.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Human Error	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

Region Close Date:09/10/1991

New Search

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9106430
Spill Date:09/15/1991	Spill Time:01:30 AM
Call Received Date:09/15/1991	Time of Call Received:01:59 AM
Material Spilled	Spilled Units
KENSOL # 61	0 Gal.
WASH OIL	0 Gal.
Spill Name:BETHLEHEM STEEL-OVENS	
Address:HAMBURG TRPK - ROUTE 5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

Region Close Date:04/09/1992

New Search

| Home | Spills | IHWDS

Search Results

24 results found

Refine This Search

		Next 10 Sites	Last 1	0 Sites	
	Spill # Date	Spill Name	County	City	Address
1.	9110640 01/10/1992	BETHLEHEM STEEL	Erie	LACKAWANNA	HAMBURG TURNPIKE ROUTE 5
2.	9112653 03/12/1992	BETHLEHEM STEEL- COKE OVEN	Erie	LACKAWANNA	3555 HAMBURG TURNPIKE
3.	9112821 03/17/1992	BETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE
4.	<u>9200437</u> 04/11/1992	BETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
5.	<u>9200462</u> 04/13/1992	SAFETY KLEEN	Erie	LACKAWANNA	41 NORTH GATES AVENUE
6.	9200546 04/14/1992	OIL TANK LEAK AT LISA	Erie	LACKAWANNA	45 LISA LANE
7.	9200703 04/18/1992	MOBIL OIL 08-HA7	Erie	LACKAWANNA	1361 ABBOTT ROAD
8.	<u>9201080</u> 04/28/1992	BETHLEHEM/BOAT SLIP	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
9.	<u>9202045</u> 05/18/1992	2 SOUTH BUFFALO RAILWAY	Erie	LACKAWANNA	2600 HAMBURG TURNPIKE
10	. <u>9202009</u> 05/19/1992	2 MOBIL OIL	Erie	LACKAWANNA	1361 ABBOTT ROAD

New Search

NYS Department of Environmental Conservation - Home - Site May - Search [Home] Spills [IHWDS]

Search Results	24 results found		Refine Th	nis Search
First 10 Sites	Prev 10 Sites	Next	10 Sites La	st 10 Sites
Spill # Date	Spill Name	County	City	Address
11. <u>9202630</u> 06/04/1992 BAR BET	R MILL THLEHEM STEEL	Erie		1591 HAMBURG TURNPIKE - 5
12. <u>9203770</u> 06/30/1992 ERII WW		Erie	LACKAWANNA	LEHIGH AVENUE
13. <u>9204447</u> 07/16/1992 BET RET	HLEHEM STEEL- ARDER	Erie		1951 HAMBURG TURNPIKE RT5
14. <u>9204544</u> 07/20/1992 BET	H ENERGY	Erie	LACKAWANNA	HAMBURG TURNPIKE ROUTE 5
15. <u>9204849</u> 07/24/1992 TUF REF	RNPIKE AUTO PAIR	Erie		2424 HAMBURG TURNPIKE - 5
16. <u>9205433</u> 08/11/1992 BUF SPE	FALO ECIALTY STEEL	Erie	LACKAWANNA	ROUTE 5
17. <u>9205674</u> 08/17/1992 BET COM	THLEHEM STEEL KE OVEN	Erie		1951 HAMBURG TURNPIKE
18. <u>9206342</u> 08/31/1992 SPE SUN	ERDUTI - NOCO	Erie		2654 HAMBURG TURNPIKE
19. <u>9206341</u> 08/31/1992 JIM RES	MULQUEEN SIDENCE	Erie	LACKAWANNA	18 COOK STREET
20. <u>9208627</u> 10/26/1992 SAF	ETY KLEEN	Erie		41 NORTH GATES AVENUE

New Search

NYS Department of Environmental Conservation - Home - Site Map - Search [Home][Spills][IHWDS]

Sea	arch Resul	ts	24 results found		Refine 1	This Search
			First 10 Sites	Prev 1	0 Sites	
21.	Spill # 9209900	Date 11/18/1992	Spill Name DRUM ON LAKE ERIE	County Erie	City LACKAWANNA	Address ROUTE 5
22.	9210776	12/17/1992	BETHLEHEM STEEL	Erie	LACKAWANNA	HMABURG TURNPIKE ROUTE 5
23.	9210978	12/21/1992	ED KRYPEL SERVICE STATION	Erie	LACKAWANNA	2993 SOUTH PARK AVENUE
24.	9211092	12/21/1992	ED KRYPEL SERVICE STATION	Erie	LACKAWANNA	2993 SOUTH PARK AVENUE

New Search

[Home] Spills] IHWDS]

1992.

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9112653
Spill Date:03/12/1992	Spill Time:01:30 AM
Call Received Date:03/12/1992	Time of Call Received:02:10 AM
Material Spilled	Spilled Units
Spill Name:BETHLEHEM STEEL-COKE OV	/EN
Address:3555 HAMBURG TURNPIKE	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

Region Close Date:05/11/1992

New Search

| Home | Spills | IHWDS

1992

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9112821
Spill Date:03/17/1992	Spill Time:01:00 PM
Call Received Date:03/17/1992	Time of Call Received:01:45 PM
Material Spilled UNKNOWN MATERIAL	Spilled Units 100 Gal.
Spill Name:BETHLEHEM STEEL Address:1951 HAMBURG TURNPIKE City:LACKAWANNA County:Erie View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land Waterbody:	

New Search

Region Close Date:03/17/1992

[Home] Spills] [IHWDS]

1992

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9200437
Spill Date:04/11/1992	Spill Time:10:00 AM
Call Received Date:04/11/1992	Time of Call Received:10:20 AM
Material Spilled	Spilled Units
KENSOL # 61	50 Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source:Other Comm/Industrial
Resource:On Land	

Region Close Date:11/11/1993

New Search

Waterbody:

Spill Information

New Search

Return to Spills Database Home Page

Region:9

Spill Number:9201080

Spill Date:04/28/1992

Spill Time:09:30 AM

Call Received Date:04/28/1992

Time of Call

Received:10:00 AM

Material Spilled

UNKNOWN PETROLEUM

Spilled Units

200 Gal.

Spill Name:BETHLEHEM/BOAT SLIP

Address:1951 HAMBURG TURNPIKE RT5

City:LACKAWANNA

County:Erie View Map

Cause: Deliberate

Source: Vessel

Resource: Surface Water Waterbody: LAKE ERIE

Region Close Date:07/21/1992

New Search

[Home] Spills] [IHWDS]

1992

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9202630
Spill Date:06/04/1992	Spill Time:07:30 AM
Call Received Date:06/04/1992	Time of Call Received:08:08 AM
Material Spilled TAR	Spilled Units 20 Gal.
Spill Name:BAR MILL BETHLEHEM STEEL Address:1591 HAMBURG TURNPIKE - 5 City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	

Region Close Date:06/04/1992

New Search

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9204447
Spill Date:07/01/1992	Spill Time:12:00 PM
Call Received Date:07/16/1992	Time of Call Received:03:40 PM
Material Spilled WASTE OIL	Spilled Units Unknown lbs.
Spill Name:BETHLEHEM STEEL-RETARDE Address:1951 HAMBURG TURNPIKE RT5 City:LACKAWANNA County:Erie View Map	IR.
Cause:Equipment Failure Resource:On Land	Source: Other Comm/Industrial
Waterbody:	

Region Close Date:01/12/1993

New Search

∫Home ∫ Spills ∫ IHWDS \

1992

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9205674
Spill Date:08/17/1992	Spill Time:01:05 PM
Call Received Date:08/17/1992	Time of Call Received:01:40 PM
Material Spilled	Spilled Units
WASH OIL	2700 Gal.
Spill Name:BETHLEHEM STEEL COKE OV	EN
Address:1951 HAMBURG TURNPIKE	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Other	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

New Search

Region Close Date:01/12/1993

Spill Information

New Search	Return to Spills Database Home Page		
Region:9	Spill Number:9210776		
Spill Date:12/17/1992	Spill Time:06:00 AM		
Call Received Date:12/17/1992	Time of Call Received:08:25 AM		
Material Spilled	Spilled Units		
Spill Name:BETHLEHEM STEEL			
Address:HMABURG TURNPIKE ROUTE 5			
City:LACKAWANNA			
County:Erie			
View Map			
Cause:Human Error	Source: Other Comm/Industrial		
Resource:On Land			
Waterbody:			

Region Close Date:10/11/1993

New Search

∫Home (Spills) (IHWDS)

993

Search Results

45 results found

Refine This Search

			Next 10 Sites	Las	st 10 Sites	
	Spill #	Date	Spill Name	County	City	Address
1.	9211353		BETHLEHEM STEEL- WASH OIL	Erie		1951 HAMBURG TURNPIKE RT5
2.	9211526		BETHLEHEM STEEL- 8 BATTERY	Erie		1951 HAMBURG TURNPIKE
3.	9212545	02/05/1993	BETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE
4.	9212994	02/19/1993	ATLANTIC STATION	Erie	LACKAWANNA	1329 ABBOTT ROAD
5.	9213008	02/20/1993	BETHLEHEM STEEL - COKE	Erie		3995 HAMBURG TURNPIKE RT5
6.	9213182	02/26/1993	BETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
7.	9213241	02/28/1993	BETHLEHEM STEEL- TAR TANKS	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE
8.	9213728	03/12/1993	SAFETY KLEEN	Erie		41 NORTH GATES AVENUE
9.	9300096	04/01/1993	STOYLE AUTO SPILLAGE	Erie	LACKAWANNA	246-248 MILLHURST
10.	9300883	04/16/1993	SOUTH BUFFALO RAILWAY	Erie	LACKAWANNA	2600 HAMBURG TURNPIKE

New Search

NYS Department of Environmental Conservation - Home - Site May - Search

| Home | Spills | IHWDS

1993

Search Results

45 results found

Refine This Search

		First 10 Sites	Prev 10 Sites	Ne	xt 10 Sites	Last 10 Sites
	Spill #		Spill Name			Address
11.	9301630		JOHN BROENEMAN TRUCK	Erie	LACKAWANNA	364 SUDBURY ROAD
12.	9302394		BETH STEEL-COKE OVENS	Erie	LACKAWANNA	BETH STEEL-COKE OVENS
13.	9302694	05/28/1993	CONRAIL	Erie	LACKAWANNA	RIDGE ROAD
14.	9303064		UNITED REFINING M-0330	Erie	LACKAWANNA	1131 RIDGE ROAD
15.	9303242		BETHLEHEM STEEL-COKE OVEN	Erie	LACKAWANNA	BETHLEHEM STEEL- COKE OVEN
16.	9303842	06/24/1993	SAFETY KLEEN CORP.	Erie	LACKAWANNA	A 41 NORTH GATES AVENUE
17.	9304086	06/29/1993	SAFETY KLEEN	Erie	LACKAWANNA	A 41 NORTH GATES AVENUE
18.	9304459	07/09/1993	ABC PAVING	Erie	LACKAWANNA	A 11 STEELAWANNA
19.	9304877	07/12/1993	BAGS OF ASBESTOS	Erie	LACKAWANNA	ROUTE 5 WESTBOUND
20.	9304881	07/15/1993	BUFFALO FUEL - BETHLEHEM	Erie	LACKAWANNA	A 1951 HAMBURG TNPK.(RT.5)

New Search

[Home] Spills] [IHWDS]

1993

Search Results

45 results found

Refine This Search

		First 10 Sites	Prev 10 Sites	N∈	xt 10 Sites Last	10 Sites
	Spill #	Date	Spill Name	County	City	Address
21.	9305397		SOUTH BUFFALO RAILWAY	Erie	LACKAWANNA 26 H TUF	HAMBURG RNPIKE
22.	9305739	08/09/1993	NOG 190	Erie	LACKAWANNA 190	EXIT 55 MP 430.5
23.	9305878	08/12/1993	SAFETY KLEEN	Erie	LACKAWANNA 41 N AVE	NORTH GATES ENUE
24.	9305869		NEIGHBOR OIL DUMPING	Erie	LACKAWANNA 39 E	ELM STREET
25.	9305937	08/13/1993	QUIK-CRETE	Erie	LACKAWANNA 11 S AVE	STEELAWANNA ENUE
26.	9306485	08/26/1993	SAFETY KLEEN	Erie	LACKAWANNA 41 N AVE	NORTH GATES ENUE
27.	9306555		BETHLEHEM STEEL CORP.	Erie	LACKAWANNA 195 TUF	1 HAMBURG RNPIKE
28.	9307355	09/16/1993	BETHLEHEM STEEL	Erie	LACKAWANNA 195 TUF	1 HAMBURG RNPIKE RT5
29.	9307794	09/27/1993	BETHLEHEM STEEL	Erie	LACKAWANNA 195 TUF	1 HAMBURG RNPIKE RT5
30.	9308037	09/30/1993	CITY OF LACKAWANNA	Erie	LACKAWANNA SOI AVE	UTH PARK ENUE

New Search

NYS Department of Environmental Conservation - Home - Site Map - Search

| Home | Spills | IHWDS

1993

Search Results	45 results found		Refine TI	nis Search
First 10 Sites	Prev 10 Sites	Next	10 Sites La	ist 10 Sites
Spill # Date 31. <u>9308397</u> 10/12/1993 COM	Spill Name NRAIL	County Erie	-	Address LAKE AVENUE
32. <u>9308411</u> 10/12/1993 BET	HLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
33. <u>9308615</u> 10/13/1993 OIL ROA	SLICK ON ADWAY	Erie	LACKAWANNA	RIDGE RD & SOUTH PARK AVE
34. <u>9309437</u> 10/18/1993 SHE	ENANGO STEEL	Erie	LACKAWANNA	RIDGE ROAD
35. <u>9308802</u> 10/20/1993 BAF	RREL IN CREEK	Erie	LACKAWANNA	19 HOME PLACE
36. <u>9308989</u> 10/21/1993 TUF	RTLES	Erie	LACKAWANNA	BELL STREET
37. <u>9309440</u> 10/29/1993 SON	NNY'S SERVICE	Erie	LACKAWANNA	2368 HAMBURG TURNPIKE
38. <u>9309314</u> 11/01/1993 AVI	S 1205 RIDGE	Erie	LACKAWANNA	1205 RIDGE ROAD
39. <u>9309903</u> 11/12/1993 PET & SI	ROLEUM SALES ERVICE	Erie	LACKAWANNA	3287 SOUTH PARK AVENUE
40. <u>9310366</u> 11/26/1993 CIT LAC	Y OF CKAWANNA	Erie	LACKAWANNA	ABBOTT & BELL STREET

New Search

NYS Department of Environmental Conservation - Home - Site May - Search

[Home] Spills] IHWDS]

1993

Sea	arch Resu	lts	45 results found		Refine T	his Search
			First 10 Sites	Prev 1	0 Sites	
	Spill #	Date	Spill Name	County	City	Address
41.	•	12/01/1993	PETROLEUM SALES AND SERVI	Erie		3287 SOUTH PARK AVENUE
42.	9310743	12/04/1993	BETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
43.	9310756	12/05/1993	BETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
44.	9310819	12/07/1993	BETHLEHEM STEEL- COKE OVEN	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
45.	9311557	12/27/1993	COKE OVENS-RAIL CAR	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5

New Search

| Home | Spills | IHWDS

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9211353
Spill Date:01/04/1993	Spill Time:09:30 AM
Call Received Date:01/04/1993	Time of Call Received:10:10 AM
Material Spilled WASH OIL	Spilled Units 100 Gal.
Spill Name:BETHLEHEM STEEL-WASH OIL Address:1951 HAMBURG TURNPIKE RT5 City:LACKAWANNA County:Erie View Map	L
Cause:Equipment Failure	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	

Region Close Date:01/12/1993

New Search

| Home | Spills | IHWDS

1993

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9211526
Spill Date:01/07/1993	Spill Time:10:00 AM
Call Received Date:01/07/1993	Time of Call Received:10:27 AM
Material Spilled WASTE OIL	Spilled Units 50 Gal.
Spill Name:BETHLEHEM STEEL-8 BATTER Address:1951 HAMBURG TURNPIKE City:LACKAWANNA County:Erie View Map	RY
Cause:Equipment Failure Resource:On Land	Source:Other Comm/Industrial
Waterbody:	

New Search

Region Close Date:01/21/1993

[Home] Spills] [IHWDS]

1993

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9212545
Spill Date:02/05/1993	Spill Time:10:30 AM
Call Received Date:02/05/1993	Time of Call Received:10:48 AM
Material Spilled	Spilled Units
UNKNOWN PETROLEUM	10 Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE	
City:LACKAWANNA	
County:Erie	
<u>View Map</u>	
Cause:Equipment Failure	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	
Region Close Date:02/09/1993	

New Search

[Home] Spills [IHWDS]

1993

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9213008
Spill Date:02/20/1993	Spill Time:10:30 AM
Call Received Date:02/20/1993	Time of Call Received:11:43 AM
Material Spilled	Spilled Units
WASTEWATER	15 Gal.
Spill Name:BETHLEHEM STEEL - COKE	
Address:3995 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Other	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	
Region Close Date:02/26/1993	

New Search

| Home | Spills | IHWDS

New Search

1993

Return to Spills Database Home Page

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9213182
Spill Date:02/26/1993	Spill Time:08:30 AM
Call Received Date:02/26/1993	Time of Call Received:08:58 AM
Material Spilled WASH OIL	Spilled Units 17 Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Unknown	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	
Region Close Date:03/01/1993	

[Home] Spills] [IHWDS]

1993

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9213241
Spill Date:02/28/1993	Spill Time:11:00 AM
Call Received Date:02/28/1993	Time of Call Received:03:49 PM
Material Spilled	Spilled Units
COAL TAR PITCH VOLATILES	50 Gal.
Spill Name:BETHLEHEM STEEL-TAR TAN	KS
Address:1951 HAMBURG TURNPIKE	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	

New Search

Region Close Date:03/01/1993

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9302394
Spill Date:05/20/1993	Spill Time:06:15 PM
Call Received Date:05/20/1993	Time of Call Received:06:50 PM
Material Spilled WASH OIL	Spilled Units 30 Gal.
Spill Name:BETH STEEL-COKE OVENS	
Address:BETH STEEL-COKE OVENS	
City:LACKAWANNA	
County:Erie	
<u>View Map</u>	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

New Search

Region Close Date:05/26/1993

[Home] Spills] [IHWDS]

Region Close Date:06/14/1993

New Search

1993

Return to Spills Database Home Page

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9303242
Spill Date:06/11/1993	Spill Time:09:15 AM
Call Received Date:06/11/1993	Time of Call Received:09:54 AM
Material Spilled	Spilled Units
Spill Name:BETHLEHEM STEEL-COKE OV	JEN
Address:BETHLEHEM STEEL-COKE OVE	N
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:Surface Water	
Waterbody:LAKE ERIE	

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9304881
Spill Date: 07/15/1993	Spill Time:12:00 PM
Call Received Date:07/15/1993	Time of Call Received:02:00 PM
Material Spilled	Spilled Units
HYDRAULIC OIL	0 lbs.
WASTE OIL	10 Gal.
Spill Name:BUFFALO FUEL - BETHLEHEM	1
Address:1951 HAMBURG TNPK.(RT.5)	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Commercial Vehicle
Resource:On Land	
Waterbody:	
Region Close Date:09/24/1993	

New Search

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9306555
Spill Date:08/28/1993	Spill Time:04:10 PM
Call Received Date: 08/28/1993	Time of Call Received:04:51 PM
Material Spilled OTHER PETROLEUM	Spilled Units Unknown Gal.
Spill Name:BETHLEHEM STEEL CORP.	
Address:1951 HAMBURG TURNPIKE	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

Region Close Date:11/21/1995

New Search

Return to Spills Database Home Page

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9307355
Spill Date:09/16/1993	Spill Time:11:00 AM
Call Received Date:09/16/1993	Time of Call Received:02:24 PM
Material Spilled	Spilled Units
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	

Region Close Date:09/24/1993

New Search

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9308411
Spill Date:10/12/1993	Spill Time:09:30 AM
Call Received Date:10/12/1993	Time of Call Received:11:20 AM
Material Spilled COAL TAR PITCH VOLATILES	Spilled Units 3 Gal.
	J Gai.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Human Error	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	
Region Close Date:10/19/1993	

New Search

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9310743
Spill Date:12/04/1993	Spill Time:04:15 PM
Call Received Date:12/04/1993	Time of Call Received:05:53 PM
Material Spilled	Spilled Units
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	

Region Close Date:12/08/1993

New Search

Return to Spills Database Home Page

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9310756
Spill Date:12/05/1993	Spill Time:05:00 PM
Call Received Date:12/05/1993	Time of Call Received:07:18 PM
Material Spilled	Spilled Units
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

Region Close Date:12/08/1993

New Search

Return to Spills Database Home Page

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9310819
Spill Date:12/07/1993	Spill Time:05:00 AM
Call Received Date:12/07/1993	Time of Call Received:06:29 AM
Material Spilled	Spilled Units
Spill Name:BETHLEHEM STEEL-COKE OV	'EN
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	

Region Close Date:12/07/1993

New Search

Spill Information

Return to Spills Database Home Page
Spill Number:9311557
Spill Time:09:00 PM
Time of Call Received:10:31 PM
Spilled Units
5
Source:Railroad Car

New Search

Region Close Date:01/03/1994

(Home) Spills (IHWDS)

Spill Information

New Search

Return to Spills Database Home Page

Region:9

Spill Number:9312621

Spill Date:01/26/1994

Spill Time:07:15 PM

Call Received Date:01/26/1994

Time of Call Received:07:50 PM

Material Spilled

Spilled Units

Spill Name:BETHLEHEM STEEL-BALL MILL

Address:1951 HAMBURG TURNPIKE

City:LACKAWANNA

County:Erie View Map

Cause: Equipment Failure

Source:Other Comm/Industrial

Resource:On Land

Waterbody:

Region Close Date:02/01/1994

New Search

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9312717
Spill Date:01/28/1994	Spill Time:03:10 PM
Call Received Date:01/28/1994	Time of Call Received:03:50 PM
Material Spilled WASTE OIL	Spilled Units 100 Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

New Search

Region Close Date:02/01/1994

New Search

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9312773
Spill Date:01/29/1994	Spill Time:07:45 PM
Call Received Date:01/29/1994	Time of Call Received:08:25 PM
Material Spilled	Spilled Units
WASTE OIL	275 Gal.
WASH OIL	0 lbs.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	
Region Close Date:03/28/1995	

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9313611
Spill Date:02/19/1994	Spill Time:07:48 AM
Call Received Date:02/19/1994	Time of Call Received:11:54 AM
Material Spilled	Spilled Units
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source:Other Comm/Industrial
Resource:Air	
Waterbody:	
Region Close Date:02/22/1994	

New Search

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9313949
Spill Date:02/26/1994	Spill Time:12:10 PM
Call Received Date:02/26/1994	Time of Call Received:12:37 PM
Material Spilled	Spilled Units
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	
Region Close Date:06/06/1994	

New Search

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9313947
Spill Date:02/26/1994	Spill Time:09:10 AM
Call Received Date:02/26/1994	Time of Call Received:10:35 AM
Material Spilled	Spilled Units
Spill Name:BETHLEHEM STEEL-COKE O	VEN
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	
Region Close Date:06/06/1994	

New Search

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9314089
Spill Date:03/02/1994	Spill Time:10:45 AM
Call Received Date:03/02/1994	Time of Call Received:12:11 PM
Material Spilled	Spilled Units
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	
Region Close Date:03/07/1994	

New Search

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9314214
Spill Date:03/05/1994	Spill Time:04:00 AM
Call Received Date:03/05/1994	Time of Call Received:05:04 AM
Material Spilled	Spilled Units
AMMONIUM SULFATE	340 Gal.
Spill Name:BETHLEHEM STEEL-COKE OV	/EN
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Human Error	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

Return to Spills Database Home Page

Region Close Date:03/07/1994

New Search

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9401711
Spill Date:05/05/1994	Spill Time:01:00 PM
Call Received Date:05/05/1994	Time of Call Received:01:32 PM
Material Spilled COAL TAR PITCH VOLATILES	Spilled Units 10 Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	
Region Close Date:05/11/1994	

New Search

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9402491
Spill Date:05/20/1994	Spill Time:08:30 AM
Call Received Date:05/20/1994	Time of Call Received:08:30 AM
Material Spilled DIESEL	Spilled Units 50 Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Commercial Vehicle
Resource:On Land	
Waterbody:	
Region Close Date:05/23/1994	

New Search

Region Close Date:05/23/1994

New Search

Spill Information

Spill Number:9402488
•
Spill Time:04:45 AM
Time of Call Received:06:24 AM
Spilled Units 200 Gal.
Source: Other Comm/Industrial

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9403309
Spill Date:06/07/1994	Spill Time:01:30 PM
Call Received Date:06/07/1994	Time of Call Received:02:50 PM
Material Spilled	Spilled Units
WASTE OIL	15 Gal.
Spill Name:BETH STEEL-CONOMOS	
Address:2600 HAMBURG TURNPIKE	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Housekeeping	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	
C	
Region Close Date:08/24/1994	

New Search

Region Close Date:07/05/1994

New Search

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9403701
Spill Date:06/16/1994	Spill Time:07:50 AM
Call Received Date:06/16/1994	Time of Call Received:08:03 AM
Material Spilled	Spilled Units
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Human Error	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

Region Close Date:02/08/1995

New Search

1994

Spill Information

New Search	Return to Spills Database Home Page		
Region:9	Spill Number:9404226		
Spill Date:06/26/1994	Spill Time:12:00 PM		
Call Received Date:06/26/1994	Time of Call Received:12:40 PM		
Material Spilled	Spilled Units		
AMMONIUM SULFATE	100 Gal.		
Spill Name:BETHLEHEM STEEL			
Address:1951 HAMBURG TURNPIKE RT5			
City:LACKAWANNA			
County:Erie			
View Map			
Cause:Equipment Failure	Source: Other Comm/Industrial		
Resource:On Land			
Waterbody:			

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9405497
Spill Date:07/01/1994	Spill Time:12:00 PM
Call Received Date:07/18/1994	Time of Call Received:03:10 PM
Material Spilled HYDRAULIC OIL	Spilled Units 40000 Gal.
Spill Name:BETHLEHEM STEEL-BOF	
Address:3555 HAMBURG TURNPIKE	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:Surface Water	
Waterbody:	
Region Close Date:08/28/1996	

New Search

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9405865
Spill Date:07/29/1994	Spill Time:06:00 PM
Call Received Date:07/29/1994	Time of Call Received:06:50 PM
Material Spilled	Spilled Units
Spill Name:COKE OVENS-BALL MILL	
Address:1951 HAMBURG TURNPIKE	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	
Region Close Date:08/04/1994	

New Search

New Search	Return to Spills Database Home Page		
Region:9	Spill Number:9408671		
Spill Date:09/29/1994	Spill Time:12:05 PM		
Call Received Date:09/29/1994	Time of Call Received:01:05 PM		
Material Spilled	Spilled Units		
Spill Name:BETHLEHEM STEEL			
Address:1951 HAMBURG TURNPIKE RT5			
City:LACKAWANNA			
County:Erie			
View Map			
Cause:Equipment Failure	Source: Other Comm/Industrial		
Resource:On Land			
Waterbody:			
Region Close Date:02/02/1995			

New Search

New Search

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9409187
Spill Date:10/11/1994	Spill Time:08:15 AM
Call Received Date:10/11/1994	Time of Call Received:08:49 AM
Material Spilled AMMONIUM SULFATE	Spilled Units Unknown Gal.
Spill Name:BETHLEHEM STEEL/ENERGY Address:1951 HAMBURG TURNPIKE RT5 City:LACKAWANNA County:Erie View Map	
Cause:Equipment Failure Resource:On Land Waterbody:	Source:Other Comm/Industrial
Region Close Date:10/14/1994	

New Search	Return to Spills Database Home Page			
Region:9	Spill Number:9411184			
Spill Date:11/09/1994	Spill Time:12:00 PM			
Call Received Date:11/02/1994	Time of Call Received:03:02 PM			
Material Spilled	Spilled Units			
NON PCB OIL	200 Gal.			
Spill Name:BETHLEHEM STEEL				
Address:2558 HAMBURG TURNPIKE RT5				
City:LACKAWANNA				
County:Erie				
View Map				
Cause:Equipment Failure	Source: Other Comm/Industrial			
Resource:On Land				
Waterbody:				

Region Close Date:03/09/1995

New Search

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9412000
Spill Date:12/08/1994	Spill Time:12:50 PM
Call Received Date: 12/08/1994	Time of Call Received:01:14 PM
Material Spilled	Spilled Units
COAL TAR PITCH VOLATILES	10 Gal.
Spill Name:BETHLEHEM STEEL-COKE OV	/EN
Address:1951 HAMBURG TURNPIKE	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	
	Annual control of the second o

New Search

Region Close Date:12/13/1994

New Search	Return to Spills Database Home Page			
Region:9	Spill Number:9406166			
Spill Date:08/03/1994	Spill Time:12:00 PM			
Call Received Date: 08/03/1994	Time of Call Received:01:45 PM			
Material Spilled	Spilled Units			
UNKNOWN PETROLEUM	Unknown lbs.			
Spill Name:SMOKES CREEK-SPDES 216				
Address:HAMBURG TURNPIKE				
City:LACKAWANNA				
County:Erie				
View Map				
Cause:Equipment Failure	Source: Other Comm/Industrial			
Resource:Surface Water				
Waterbody:SMOKES CREEK				
Region Close Date:08/15/1994				

New Search

| Home | Spills | IHWDS

1995

Search Results

42 results found

Refine This Search

		Next 10 Sites	Last	10 Sites	
	Spill # Date	Spill Name	County	City	Address
1.	<u>9413375</u> 01/07/1995	BETHLEHEM STEEL	Erie		1951 HAMBURG TURNPIKE RT5
2.	<u>9413583</u> 01/11/1995	BETHLEHEM STEEL/ENERGY	Erie		1951 HAMBURG TURNPIKE RT5
3.	9414100-01/24/1995	BETHLEHEM STEEL	Erie		1951 HAMBURG TURNPIKE RT5
4.	9414733 02/08/1995	SAFETY KLEEN	Erie		41 NORTH GATES AVENUE
5.	9414774 02/09/1995	ABANDONED DRUMS	Erie	LACKAWANNA	FISHER ROAD
6.	9414754 02/09/1995	BETHLEHEM STEEL	Erie		1951 HAMBURG TURNPIKE RT5
7.	9415804 03/07/1995 :	SAFETY KLEEN	Erie	LACKAWANNA	41 GATES AVENUE
8.	9415839 03/07/1995	SMOKES CREEK- BETH STEEL	Erie		2600 HAMBURG TURNPIKE
9.	<u>9415961</u> 03/09/1995 A	AMADORI CONSTRUCTION	Erie		2560 HAMBURG TURNPIKE
10). <u>9500233</u> 04/03/1995	SMOKES CREEK AT S. PARK	Erie		SOUTH PARK AT SMOKES CREE

New Search

| Home | Spills | IHWDS

1995

Search Results	42 results found	Refine This Search		
First 10 Sites	Prev 10 Sites	Next 1	0 Sites Las	it 10 Sites
Spill # Date	Spill Name	County	City	Address
11. <u>9500112</u> 04/03/1995 SN	MOKES CREEK	Erie		SMOKES CREEK AT S. PARK
12. <u>9500247</u> 04/06/1995 BE BF	ETHLEHEM STEEL- P AREA	Erie		3555 HAMBURG TURNPIKE
13. <u>9500384</u> 04/10/1995 JA	CK ADKINS FORD	Erie	LACKAWANNA	1212 ABBOTT ROAD
14. <u>9501179</u> 04/27/1995 CC BL	OKE OVENS-C&D JILD	Erie	LACKAWANNA	1955 HAMBURG TURNPIKE
15. <u>9501595</u> 05/08/1995 BE	ETHLEHEM STEEL	Erie	LACKAWANNA	255 HAMBURG TURNPIKE
16. <u>9501668</u> 05/09/1995 BE	ETHLEHEM STEEL	Erie	LACKAWANNA	2900 HAMBURG TURNPIKE
17. <u>9503361 06/19/19</u> 95 BE CO	THLEHEM STEEL OKE DIV.	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
18. <u>9503911</u> 06/29/1995 BE	ETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
19. <u>9504347</u> 07/11/1995 OA	AKGROVE ONSTRUCTION	Erie	LACKAWANNA	2654 HAMBURG TURNPIKE
20. <u>9504647</u> 07/18/1995 BE TA	ETH ENERGY-TAR ANK	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE

New Search

[Home] Spills | IHWDS

1995

Search Results	42 results found	Refine This Search		
First 10 Sites	Prev 10 Sites	Next	10 Sites	Last 10 Sites
Spill # Date	Spill Name	County	City	Address
21. 9505392 07/28/1995 TRA	ANSMISSION CHANGE	Erie	LACKAWAN	NA 333 RIDGE ROAD
22. <u>9505347</u> 07/31/1995 BET	HLEHEM STEEL	Erie	LACKAWAN	NA 1951 HAMBURG TURNPIKE RT5
23. <u>9505358</u> 07/31/1995 BET	HLEHEM STEEL	Erie	LACKAWAN	NA 1951 HAMBURG TURNPIKE RT5
24. <u>9506080</u> 08/16/1995 BUF STO		Erie	LACKAWAN	NA 1941 FUHRMANN BLVD
25. <u>9507011</u> 09/08/1995 BET	THLEHEM STEEL	Erie	LACKAWAN	NA 1951 HAMBURG TURNPIKE RT5
26. <u>9507543</u> 09/19/1995 BET	THLEHEM STEEL	Erie	LACKAWAN	NA 2558 HAMBURG TURNPIKE RT5
27. <u>9507530</u> 09/19/1995 BET	THLEHEM STEEL	Erie	LACKAWAN	NA 2558 HAMBURG TURNPIKE RT5
28. <u>9507775</u> 09/25/1995 BET BAF	THLEHEM STEEL - R MILL	Erie	LACKAWAN	NA 1951 HAMBURG TURNPIKE RT5
29. <u>9508302</u> 10/05/1995 AVI	S LUBE	Erie	LACKAWAN	NA 1205 RIDGE ROAD
30. <u>9508367</u> 10/09/1995 BET	THLEHEM STEEL	Erie	LACKAWAN	NA 1951 HAMBURG TURNPIKE RT5

New Search

[Home] Spills | IHWDS

1995

Search Results

42 results found

Refine This Search

		First 10 Sites	Prev 10 Sites	Ne	xt 10 Sites	Last 10 Sites
	Spill #	Date	Spill Name	County	City	Address
31. <u>9</u>	508678		BETHLEHEM STEEL	Erie	LACKAWANNA	2558 HAMBURG TURNPIKE RT5
32l/ <u>9</u>)508676		BETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
33. <u>9</u>	508813		BETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
34. <u>9</u>	509052		BETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
35. <u>9</u>	509660	11/03/1995	SUN STATION	Erie	LACKAWANNA	A 1329 ABBOTT ROAD
36. <u>9</u>	509692	11/05/1995	NIAGARA MOHAWK	Erie	LACKAWANNA	160 RIDGE ROAD
37. <u>9</u>	509759	11/06/1995	NYSDOT DRILLING RIG	Erie	LACKAWANNA	AROUTE 5
38. 9	509824	11/08/1995	BETHLEHEM STEEL	Erie	LACKAWANNA	A 1951 HAMBURG TURNPIKE RT5
39. <u>9</u>	509954	11/10/1995	CID REFUSE AT ECSD #6	Erie	LACKAWANNA	A 260 LEHIGH AVENUE
40. 9	9510250	11/15/1995	NIAGARA MOHAWK	Erie	LACKAWANNA	A 51 GATES AVENUE

New Search

[Home] Spills [IHWDS]

1995

Search Results

42 results found

Refine This Search

First 10 Sites

Prev 10 Sites

Spill Name County Spill # **Date** City Address 41. 9511330 12/08/1995 BETHLEHEM Erie LACKAWANNA 1951 HAMBURG STEEL TURNPIKE RT5 42. <u>9511763</u> 12/18/1995 BETHLEHEM Erie LACKAWANNA 1951 HAMBURG STEEL TURNPIKE RT5

New Search

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9413375
Spill Date: 01/07/1995	Spill Time:10:00 AM
Call Received Date:01/07/1995	Time of Call Received:10:14 AM
Material Spilled AMMONIA	Spilled Units Unknown Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

New Search

Region Close Date:01/09/1995

New Search

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9413583
Spill Date:01/11/1995	Spill Time:08:30 PM
Call Received Date:01/11/1995	Time of Call Received:09:25 PM
Material Spilled	Spilled Units
BENZENE	150 Gal.
BENZOL	150 Gal.
Spill Name:BETHLEHEM STEEL/ENERGY	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	
Region Close Date:01/11/1996	

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9414754
Spill Date:02/09/1995	Spill Time:10:30 AM
Call Received Date:02/09/1995	Time of Call Received:11:39 AM
Material Spilled	Spilled Units
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:Surface Water	
Waterbody:UNION SHIP CANAL	

New Search

Region Close Date:02/09/1995

New Search

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9500247
Spill Date:04/06/1995	Spill Time:02:20 PM
Call Received Date:04/06/1995	Time of Call Received:01:46 PM
Material Spilled	Spilled Units
Spill Name:BETHLEHEM STEEL-BP AREA	
Address:3555 HAMBURG TURNPIKE	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	
Region Close Date:04/17/1995	



New Search	Return to Spills Database Home Page
Region:9	Spill Number:9501179
Spill Date:04/27/1995	Spill Time:04:00 PM
Call Received Date:04/27/1995	Time of Call Received:01:13 PM
Material Spilled WASTE OIL	Spilled Units Unknown lbs.
Spill Name:COKE OVENS-C&D BUILD	
Address:1955 HAMBURG TURNPIKE	
City:LACKAWANNA	
County:Erie	
<u>View Map</u>	
Cause:Housekeeping	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:LAKE ERIE	

Region Close Date:05/04/1995

New Search

[Home] Spills] [IHWDS]

1995

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9501595
Spill Date:05/08/1995	Spill Time:01:00 PM
Call Received Date:05/08/1995	Time of Call Received:02:33 PM
Material Spilled PICKLE LIQUOR	Spilled Units 20 Gal.
Spill Name:BETHLEHEM STEEL	
Address:255 HAMBURG TURNPIKE	
City:LACKAWANNA	
County:Erie	
<u>View Map</u>	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	
Region Close Date:08/02/1995	

New Search

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9501668
Spill Date:05/09/1995	Spill Time:10:58 PM
Call Received Date:05/09/1995	Time of Call Received:11:14 PM
Material Spilled	Spilled Units
GASOLINE	1 Gal.
Spill Name:BETHLEHEM STEEL	
Address:2900 HAMBURG TURNPIKE	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Traffic Accident	Source: Passenger Vehicle
Resource:On Land	
Waterbody:	
Region Close Date:05/11/1995	

New Search

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9503911
Spill Date:06/29/1995	Spill Time:09:00 PM
Call Received Date:06/29/1995	Time of Call Received:09:41 PM
Material Spilled	Spilled Units
UNKNOWN PETROLEUM	100 Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

New Search

Region Close Date:10/02/1995

1995

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9505347
Spill Date: 07/31/1995	Spill Time:09:45 PM
Call Received Date:07/31/1995	Time of Call Received:10:11 PM
Material Spilled	Spilled Units
#2 FUEL OIL	5 Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Unknown	Source:Railroad Car
Resource:On Land	
Waterbody:	

Region Close Date:08/02/1995

New Search

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9505358
Spill Date:07/31/1995	Spill Time:09:45 PM
Call Received Date:07/31/1995	Time of Call Received:10:11 PM
Material Spilled	Spilled Units
#2 FUEL OIL	5 Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Unknown	Source:Railroad Car
Resource:On Land	
Waterbody:	

New Search

Region Close Date:08/01/1995

New Search

1995

Spill Information

New Search	Return to Spills Database Home Page			
Region:9	Spill Number:9507011			
Spill Date:09/08/1995	Spill Time:12:05 PM			
Call Received Date:09/08/1995	Time of Call Received:12:35 PM			
Material Spilled	Spilled Units			
Spill Name:BETHLEHEM STEEL				
Address:1951 HAMBURG TURNPIKE RT5				
City:LACKAWANNA				
County:Erie				
View Map				
Cause:Equipment Failure	Source:Other Comm/Industrial			
Resource:On Land				
Waterbody:				
Region Close Date:09/08/1995				

Spill Information

New Search	Return to Spills Database Home Page			
Region:9	Spill Number:9507530			
Spill Date:09/19/1995	Spill Time:03:15 PM			
Call Received Date:09/19/1995	Time of Call Received:03:59 PM			
Material Spilled PICKLE LIQUOR	Spilled Units 15 Gal.			
Spill Name:BETHLEHEM STEEL Address:2558 HAMBURG TURNPIKE RT5 City:LACKAWANNA County:Erie View Map				
Cause:Human Error Resource:On Land Waterbody:	Source:Tank Truck			

New Search

Region Close Date:11/28/1995

[Home] Spills] IHWDS]

1995

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9507543
Spill Date:09/19/1995	Spill Time:03:15 PM
Call Received Date:09/19/1995	Time of Call Received:04:05 PM
Material Spilled	Spilled Units
Spill Name:BETHLEHEM STEEL	
Address:2558 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Human Error	Source:Tank Truck
Resource:On Land	
Waterbody:	

Region Close Date:09/19/1995

New Search

New Search	Return to Spills Database Home Page				
Region:9	Spill Number:9507775				
Spill Date:09/01/1995	Spill Time:12:00 PM				
Call Received Date: 09/25/1995	Time of Call Received:09:52 AM				
Material Spilled	Spilled Units				
#2 FUEL OIL	20 Gal.				
LUBE OIL	100 Gal.				
LUBRICATING OIL	100 Gal.				
Spill Name:BETHLEHEM STEEL -BAR MIL	L				
Address:1951 HAMBURG TURNPIKE RT5					
City:LACKAWANNA					
County:Erie					
View Map					
Cause:Unknown	Source: Other Comm/Industrial				
Resource: Groundwater					
Waterbody:					
Control					

Region Close Date:08/14/1996

New Search

New Search	Return to Spills Database Home P	age
Region:9	Spill Number:95083	367
Spill Date:10/09/1995	Spill Time:08:30 AM	1
Call Received Date:10/09/1995	Time of Call Received:09:33 AM	
Material Spilled	Spilled Units 15 Gal.	
UNKNOWN HAZARDOUS MATERIAL UNKNOWN NON-PETRO/NON-HAZ MATER		
Spill Name:BETHLEHEM STEEL		
Address:1951 HAMBURG TURNPIKE RT5		
City:LACKAWANNA County:Erie		
View Map		
Cause:Equipment Failure	Source: Other Comm/Industrial	
Resource:On Land		
Waterbody:		

Region Close Date:10/26/1995

New Search

Spill Information

New Search	Return to Spills Database Home Page				
Region:9	Spill Number:9508813				
Spill Date:10/18/1995	Spill Time:11:45 AM				
Call Received Date:10/18/1995	Time of Call Received:12:32 PM				
Material Spilled AMMONIA	Spilled Units 75 Gal.				
Spill Name:BETHLEHEM STEEL					
Address:1951 HAMBURG TURNPIKE RT5					
City:LACKAWANNA					
County:Erie					
View Map					
Cause:Equipment Failure	Source:Other Comm/Industrial				
Resource:On Land					
Waterbody:					

Region Close Date:11/02/1995

New Search

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9509052
Spill Date:10/22/1995	Spill Time:11:15 AM
Call Received Date:10/23/1995	Time of Call Received:11:11 AM
Material Spilled XYLENE (MIXED)	Spilled Units 150 Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	

Region Close Date:10/23/1995

New Search

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9509824
Spill Date:11/08/1995	Spill Time:09:45 AM
Call Received Date:11/08/1995	Time of Call Received:10:10 AM
Material Spilled WASTEWATER	Spilled Units 10 Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

New Search

Region Close Date:11/24/1995

[Home] Spills] IHWDS

Region Close Date:12/08/1995

New Search

1995

Spill Information

New Search	Return to Spills Database Home Page			
Region:9	Spill Number:9511330			
Spill Date:12/08/1995	Spill Time:08:00 AM			
Call Received Date:12/08/1995	Time of Call Received:08:57 AM			
Material Spilled	Spilled Units			
WASTEWATER	75 Gal.			
Spill Name:BETHLEHEM STEEL				
Address:1951 HAMBURG TURNPIKE RT5				
City:LACKAWANNA				
County:Erie				
View Map				
Cause:Equipment Failure	Source: Other Comm/Industrial			
Resource:On Land				
Waterbody:				

∫Home ∫ Spills ∫ IHWDS \

1995

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9511763
Spill Date:12/18/1995	Spill Time:07:15 AM
Call Received Date:12/18/1995	Time of Call Received:07:50 AM
Material Spilled AMMONIA	Spilled Units 50 Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	

Region Close Date:01/10/1996

New Search

[Home] Spills] IHWDS

1996

Search Results

36 results found

Refine This Search

			Next 10 S	Sites Las	st 10 Sites	
	Spill #	Date	Spill Name	County	City	Address
1.	9512539		BETHLEHEM ST PVS	EEL / Erie		1951 HAMBURG TURNPIKE RT5
2.			BETHLEHEM ST			1951 HAMBURG TURNPIKE RT5
3.1	9514251		STAROBA PLAS METAL	TIC & Erie		1951 HAMBURG TURNPIKE
4.	9514050	02/04/1996	BETHLEHEM ST	EEL Erie		1951 HAMBURG TURNPIKE RT5
5.	9514390	02/10/1996	BETHLEHEM ST	EEL Erie		1951 HAMBURG TURNPIKE RT5
6.	9515897	03/07/1996	SCHINDER NATIONAL CARF	Erie RIER	LACKAWANNA	190
7.	9515770	03/09/1996	P&C FOOD - I90	Erie	LACKAWANNA	190 MP 430.4 EB
8.	9515792	03/10/1996	BETHLEHEM ST	EEL Erie		1951 HAMBURG TURNPIKE RT5
9.	9515910	03/12/1996	BETHLEHEM ST	EEL Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
10.	9516071	03/14/1996	SAFETY KLEEN	Erie	LACKAWANNA	41 NORTH GATES

New Search

[Home] Spills] [IHWDS]

1996

Search Results

36 results found

Refine This Search

		First 10	Sites	Prev 10 Sites	Nex	d 10 Sites	Last 10 Sites
	Spill #	Date		Spill Name	County	City	Address
11.	951618	<u>1</u> 03/18/19		HLEHEM STEEL CH SHOP	Erie	LACKAWANNA	1951 HAMBURG TRPK
12.	951673	<u>3</u> 03/27/19	996 BET PLA	HLEHEM STEEL NT	Erie	LACKAWANNA	ROUTE 5 AND GATE
13.	960071	<u>7</u> 04/15/19	96 SAF	ETY KLEEN	Erie	LACKAWANNA	41 NORTH GATES
14.	960074	<u>7</u> 04/16/19	996 SAF	ETY KLEEN	Erie	LACKAWANNA	41 NORTH GATES
15.	960212	<u>1</u> 05/14/19	996 GEN	NERAL AUTO	Erie	LACKAWANNA	FRANKLIN & RIDGE ROAD
16.	960213	7 05/14/19	996 BET	HLEHEM STEEL	Erie	LACKAWANNA	A 1951 HAMBURG TURNPIKE
17.	960365	<u>9</u> 06/17/19	996 BOY ASS FIE	/S SOCIATION BALL	Erie	LACKAWANNA	SOUTH PARK AT AUTOMAKERS
18.	960402	3 06/24/19	996 BET	HLEHEM STEEL	Erie	LACKAWANNA	A 1951 HAMBURG TURNPIKE RT5
19.	960523	07/22/19		NCRETE LIVERY CO, INC	Erie	LACKAWANNA	A 7 NORTH STEELAWANNA AVE
20.	960602	<u>5</u> 08/09/19	996 BET	HLEHEM STEEL	Erie	LACKAWANNA	A 1951 HAMBURG TURNPIKE

New Search

| Home | Spills | IHWDS

1994

TURNPIKE RT5

Search Results	36 results found		Refine	This Search
First 10 Sites	Prev 10 Sites	Next	10 Sites	Last 10 Sites
Spill # Date	Spill Name	County	-	Address
21. <u>9606333</u> 08/15/1996 REI SMO	O MATERIAL IN OKES CR	Erie	LACKAWANN	A SOUTH PARK AVENUE
22. <u>9606490</u> 08/20/1996 DOI COI	MES HEATING & LLING	Erie	LACKAWANN	A 51 RELICH STREET
23. <u>9606921</u> 08/30/1996 BET	THLEHEM STEEL	Erie	LACKAWANN	A 1951 HAMBURG TURNPIKE
24. <u>9607510</u> 09/13/1996 OIL SEV	IN STORM VER	Erie	LACKAWANN	A LEHIGH AND BAUDER STREETS
25. <u>9607520</u> 09/14/1996 BET	THLEHEM STEEL	Erie	LACKAWANN	A 1951 HAMBURG TURNPIKE RT5
26. <u>9607786</u> 09/20/1996 BET	THLEHEM STEEL	Erie	LACKAWANN	A 2551 HAMBURG TURNPIKE RT5
27. <u>9608394</u> 10/07/1996 BET K14		- Erie	LACKAWANN	A 1951 HAMBURG TURNPIKE RT5
28. <u>9608821</u> 10/15/1996 LAC DEF		Erie	LACKAWANN	A 2990 SOUTH PARK AVE
29. <u>9609314</u> 10/25/1996 BET	THLEHEM STEEL	Erie	LACKAWANN	A 1951 HAMBURG TURNPIKE RT5
30. <u>9609478</u> 10/29/1996 BET	THLEHEM STEEL	Erie	LACKAWANN	A 1951 HAMBURG

New Search

[Home][Spills][IHWDS]

1996

Search Results

36 results found

Refine This Search

			First 10 Sites	Prev 1() Sites	
	Spill #	Date	Spill Name	County	City	Address
31.	•		TRANSFORMERS NIAGARA MOHA	Erie		187-189 LEHIGH STREET
32.	9609882	11/07/1996	BETHLEHEM STEEL	Erie		1951 HAMBURG TURNPIKE RT5
33.	9610862		DEVELOPMENT AREA	Erie	LACKAWANNA	NORTH STEELAWANNA EXT.
34.	9611091	12/09/1996	BETHLEHEM STEEL	Erie		1951 HAMBURG TURNPIKE RT5
35.	9611271		ODOR AT POLCARNY RESIDENC	Erie	LACKAWANNA	15 VINCENT AVENUE
36.	9611386	12/16/1996	BETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5

New Search

Region Close Date:01/22/1996

New Search

1996

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9512795
Spill Date: 01/15/1996	Spill Time:09:30 AM
Call Received Date:01/15/1996	Time of Call Received:10:32 AM
Material Spilled	Spilled Units
OTHER PETROLEUM	20 Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9514050
Spill Date:02/04/1996	Spill Time:11:15 AM
Call Received Date:02/04/1996	Time of Call Received:11:39 AM
Material Spilled	Spilled Units
COAL TAR PITCH VOLATILES	20 Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

New Search

Region Close Date:02/05/1996

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9514390
Spill Date:02/10/1996	Spill Time:02:35 PM
Call Received Date:02/10/1996	Time of Call Received:03:33 PM
Material Spilled UNKNOWN HAZARDOUS MATERIAL	Spilled Units 3 Gal.
Spill Name:BETHLEHEM STEEL Address:1951 HAMBURG TURNPIKE RT5 City:LACKAWANNA County:Erie View Map	
Cause:Equipment Failure Resource:On Land	Source: Other Comm/Industrial
Waterbody:	

Region Close Date:02/10/1996

New Search

Region Close Date:03/13/1996

New Search

1996

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9515792
Spill Date:03/10/1996	Spill Time:11:55 AM
Call Received Date:03/10/1996	Time of Call Received:12:52 PM
Material Spilled WASTEWATER	Spilled Units 750 Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9515910
Spill Date:03/08/1996	Spill Time:08:00 AM
Call Received Date:03/12/1996	Time of Call Received:02:09 PM
Material Spilled UNKNOWN PETROLEUM	Spilled Units Unknown Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:Groundwater	
Waterbody:	

Region Close Date:05/14/1996

New Search

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9516181
Spill Date:03/18/1996	Spill Time:08:00 AM
Call Received Date:03/18/1996	Time of Call Received:08:36 AM
Material Spilled	Spilled Units
HYDRAULIC OIL	100 Gal.
Spill Name:BETHLEHEM STEEL MACH SH	IOP
Address:1951 HAMBURG TRPK	
City:LACKAWANNA	
County:Erie	
<u>View Map</u>	
Cause:Traffic Accident	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	

Region Close Date:03/22/1996

New Search

| Home | Spills | IHWDS

1996

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9602137
Spill Date:05/14/1996	Spill Time:01:00 PM
Call Received Date:05/14/1996	Time of Call Received:01:56 PM
Material Spilled	Spilled Units
OTHER PETROLEUM	10 Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Other	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

New Search

Region Close Date:05/17/1996

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9604023
Spill Date:06/24/1996	Spill Time:03:30 PM
Call Received Date:06/24/1996	Time of Call Received:03:46 PM
Material Spilled	Spilled Units
DIPROPYLENE GLYCOL METHYL ETHER	50 Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
<u>View Map</u>	
Cause:Human Error	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

New Search

Region Close Date:07/02/1997

[Home] Spills] IHWDS]

Region Close Date:01/09/1997

New Search

1996

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9606025
Spill Date:08/09/1996	Spill Time:11:10 AM
Call Received Date:08/09/1996	Time of Call Received:11:34 AM
Material Spilled HYDRAULIC OIL	Spilled Units 20 Gal.
Spill Name:BETHLEHEM STEEL Address:1951 HAMBURG TURNPIKE City:LACKAWANNA County:Erie View Map	
Cause:Human Error Resource:On Land Waterbody:	Source: Railroad Car

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9606921
Spill Date:08/30/1996	Spill Time:10:30 AM
Call Received Date: 08/30/1996	Time of Call Received:11:15 AM
Material Spilled	Spilled Units
HYDRAULIC OIL	10 Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source:Commercial Vehicle
Resource:On Land	
Waterbody:	

New Search

Region Close Date:10/28/1996

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9607520
Spill Date:09/14/1996	Spill Time:11:30 AM
Call Received Date:09/14/1996	Time of Call Received:12:07 PM
Material Spilled #2 FUEL OIL	Spilled Units 15 Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

New Search

Region Close Date:09/16/1996

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9607786
Spill Date:09/20/1996	Spill Time:10:50 AM
Call Received Date:09/20/1996	Time of Call Received:11:20 AM
Material Spilled	Spilled Units
UNKNOWN PETROLEUM	Unknown Gal.
Spill Name:BETHLEHEM STEEL	
Address:2551 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Unknown	Source: Other Comm/Industrial
Resource:Groundwater	
Waterbody:	

New Search

Region Close Date:

[Home] Spills] [IHWDS]

New Search

1996

Spill Information

New Search	Return to Spills Database Home Page				
Region:9	Spill Number:9608394				
Spill Date:10/07/1996	Spill Time:06:50 AM				
Call Received Date:10/07/1996	Time of Call Received:07:33 AM				
Material Spilled	Spilled Units				
TAR	300 Gal.				
K1	0 Gal.				
Spill Name:BETHLEHEM STEEL - K142					
Address:1951 HAMBURG TURNPIKE RT5					
City:LACKAWANNA					
County:Erie					
View Map					
Cause:Equipment Failure	Source: Other Comm/Industrial				
Resource:On Land					
Waterbody:					
Region Close Date:10/15/1996					

Spill Information

New Search	Return to Spills Database Home Page				
Region:9	Spill Number:9609314				
Spill Date:10/25/1996	Spill Time:09:30 AM				
Call Received Date:10/25/1996	Time of Call Received:10:05 AM				
Material Spilled	Spilled Units				
KENSOL # 61	1 Gal.				
Spill Name:BETHLEHEM STEEL					
Address:1951 HAMBURG TURNPIKE RT5					
City:LACKAWANNA					
County:Erie					
View Map					
Cause:Equipment Failure	Source: Other Comm/Industrial				
Resource:On Land					
Waterbody:					

New Search

Region Close Date:10/28/1996

Region Close Date:11/01/1996

New Search

Spill Information

New Search	Return to Spills Database Home Page				
Region:9	Spill Number:9609478				
Spill Date:10/29/1996	Spill Time:12:30 PM				
Call Received Date:10/29/1996	Time of Call Received:01:29 PM				
Material Spilled WASTEWATER	Spilled Units 150 Gal.				
Spill Name:BETHLEHEM STEEL Address:1951 HAMBURG TURNPIKE RT5 City:LACKAWANNA County:Erie View Map					
Cause:Equipment Failure Resource:On Land Waterbody:	Source:Other Comm/Industrial				

Spill Information

Spill Number:9609882 Spill Time:01:30 PM Time of Call Received:02:10 PM Spilled Units Unknown Gal.
Time of Call Received:02:10 PM Spilled Units
Received:02:10 PM Spilled Units
•
Unknown Gal.
Source:Other
Comm/Industrial

Region Close Date:11/06/1996

New Search

New Search	Return to Spills Database Home Page					
Region:9	Spill Number:9611091					
Spill Date:12/09/1996	Spill Time:09:00 AM					
Call Received Date: 12/09/1996	Time of Call Received:09:53 AM					
Material Spilled	Spilled Units					
COAL TAR PITCH VOLATILES	5 Gal.					
Spill Name:BETHLEHEM STEEL						
Address:1951 HAMBURG TURNPIKE RT5						
City:LACKAWANNA						
County:Erie						
View Map						
Cause:Equipment Failure	Source:Other Comm/Industrial					
Resource:On Land						
Waterbody:						

New Search

Region Close Date:12/11/1996

New Search	Return to Spills Database Home Page				
Region:9	Spill Number:9611386				
Spill Date:12/16/1996	Spill Time:02:15 PM				
Call Received Date:12/16/1996	Time of Call Received:03:07 PM				
Material Spilled TAR	Spilled Units 25 Gal.				
Spill Name:BETHLEHEM STEEL Address:1951 HAMBURG TURNPIKE RT5 City:LACKAWANNA County:Erie View Map					
Cause:Equipment Failure	Source: Other Comm/Industrial				
Resource:On Land Waterbody:					

Region Close Date:12/30/1996

New Search

∫Home (Spills (IHWDS)

Region Close Date:06/07/1996

New Search

1996

Spill Information

New Search	Return to Spills Database Home Page				
Region:9	Spill Number:9603223				
Spill Date:06/07/1996	Spill Time:12:35 PM				
Call Received Date:06/07/1996	Time of Call Received:01:01 PM				
Material Spilled CLAY	Spilled Units 0 Gal.				
Spill Name:BETHLEHEM STEEL					
Address:1951 HAMBURG TURNPIKE RT5					
City:LACAWANA					
County:Erie					
View Map					
Cause:Equipment Failure	Source: Other Comm/Industrial				
Resource:On Land					
Waterbody:					

[Home][Spills][IHWDS]

1997.

Search Results

31 results found

Refine This Search

			Next 10 Sites	Las	st 10 Sites	
	Spill #	Date	Spill Name	County	City	Address
1.			BETHLEHEM STEEL	Erie		1951 HAMBURG TURNPIKE RT5
2.	9612357	01/16/1997	SAFETY KLEEN	Erie		41 NORTHGATE AVENUE
3.	9612424	01/17/1997	PGT SERVICES, INC.	Erie	LACKAWANNA	ROUTE 5 AT MADISON AVENUE
4.	9612455	01/18/1997	BETHLEHEM BENZOL RECOVERY	Erie	LACKAWANNA	ROUTE 5
5.	9612510	01/21/1997	BETHLEHEM STEEL- COKE OVEN	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE
6.	9612575	01/22/1997	YELLOW OIL ON SEAL STREET	Erie	LACKAWANNA	SEAL STREET
7.	9612711	01/25/1997	MOBIL OIL STATION	Erie	LACKAWANNA	1361 ABBOTT ROAD
8.	9612937	01/31/1997	BETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
9.	9612950	02/01/1997	BETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
10.	9613066	02/04/1997	UNITED AUTO PARTS	Erie	LACKAWANNA	LEHIGH STREET

New Search

[Home] Spills] [IHWDS]

1997

Search Results	31 results found		Refine Th	nis Search
First 10 Sites	Prev 10 Sites	Next 1	0 Sites La	st 10 Sites
Spill # Date	Spill Name	County	City	Address
11. 9613731 02/23/1997 BI	ETHLEHEM STEEL ORP	Erie	LACKAWANNA	2558 HAMBURG TURNPIKE
12. <u>9614375</u> 03/11/1997 BI	ETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
13. <u>9614863</u> 03/26/1997 BI	ETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT
14. <u>9700670</u> 04/15/1997 B	ARRETT MOTORS	Erie	LACKAWANNA	3228 SOUTH PARK AVE
15. <u>9700892</u> 04/21/1997 BI	ETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
16. <u>9701407</u> 05/01/1997 H	ENRY STAHURA	Erie	LACKAWANNA	39 BROWN
17. <u>9701695</u> 05/08/1997 B	ETHLEHEM STEEL UMP HOUS	Erie	LACKAWANNA	1951 HAMBURG TPK RT 5
18. <u>9701951</u> 05/14/1997 B	ETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TRUNPIKE RT5
19. <u>9703026</u> 06/10/1997 P	ETRO USA	Erie	LACKAWANNA	2540 SOUTH PARK AV
20. <u>9703420</u> 06/18/1997 W	VASTE IANAGEMENT	Erie	LACKAWANNA	A 70 NORTH GATES AVENUE

New Search

∫Home ∫ Spills ∫ IHWDS \

1997

Search Results								31 results found			R	Refine This Search				
			- Canada	Fi	rst 10	Sites	5	Prev	10 Sites	Ne	xt 10 \$	Sites		Last 10	Sites	
		Spil	 #		Date	е		Spill N	ame	County	,	City			Addres	ss
	21.	9704	<u>893</u>	07,	/17/1	997	SAF CO	FETY-KL RP	EEN.	Erie	LAC	KAWA		41 NC AVE	ORTH GA	ATES
-	22:	9704	847	07	/23/1	997		D MATE	RIAL IN	Erie	LAC	KAWA	ANNA	ROUT	TE 5	
	23.	9705	<u> 195</u>	07	/30/1	997		MEOWN MPING	IER	Erie	LAC	KAWA	ANNA	18 CC	OK STE	REET
	24.	9705	<u>307</u>	08	/01/1	997		LER'S LLISION		Erie	LAC	KAWA	ANNA	1923	ABBOT	ΓROAD
	25.	9706	<u>328</u>	08	/25/1	997	CAI	R LEAKI	NG OIL	Erie	LAC	KAWA	ANNA	156 E STRE	LKHAR ⁻ ET	Γ
	26.	9708	<u> 265</u>	10	/14/1	997	BE ⁻	ГНГЕНЕ	M STEEL	Erie	LAC	KAWA	ANNA		HAMBU IPIKE R	
	27.	9708	447	10	/17/1	997	BUI BE	FFALO E AM	BRAKE	Erie	LAC	KAWA	ANNA	400 II AVEN	NGHAM IUE	
	28.	9709	160	11	/06/1	997	BE ⁻	ГНГЕНЕ	M STEEL	Erie	LAC	KAWA	ANNA		HAMBU IPIKE R	
	29.	9709	<u>531</u>	11	/17/1	997	BE ⁻	THLEHE	M STEEL	Erie	LAC	KAWA	ANNA		HAMBU IPIKE R	
	30.	9709	<u>784</u>	11,	/21/1	997	BE	ГНСЕНЕ	M STEEL	Erie	LAC	KAWA	ANNA		HAMBU IPIKE R	

New Search

NYS Department of Environmental Conservation - Home - Site Map - Search

[Home] Spills] [IHWDS]

1997

Search Results

31 results found

Refine This Search

First 10 Sites

Prev 10 Sites

Spill # Date Spill Name 31. 9710457 12/12/1997 BETHLEHEM STEEL CountyCityAddressErieLACKAWANNA 1951 HAMBURG

TURNPIKE RT5

New Search

| Home | Spills | IHWDS

1997

Spill Information

New Search	Return to Spills Database Home Page			
Region:9	Spill Number:9612455			
Spill Date:01/18/1997	Spill Time:06:30 AM			
Call Received Date:01/18/1997	Time of Call Received:07:44 AM			
Material Spilled	Spilled Units			
KENSOL # 61	200 Gal.			
Spill Name:BETHLEHEM BENZOL RECOVI	ERY			
Address:ROUTE 5				
City:LACKAWANNA				
County:Erie				
View Map				
Cause:Human Error	Source:Other Comm/Industrial			
Resource:On Land				
Waterbody:				

New Search

Region Close Date:07/13/1998

∫Home ∫ Spills ∫ IHWDS \

1997

Spill Information

v Search	Return to Spills Database Home Page
ion:9	Spill Number:9612937
I Date:01/31/1997	Spill Time:03:00 PM
Received Date:01/31/1997	Time of Call Received:03:40 PM
terial Spilled	Spilled Units
STE OIL	2 Gal.
I Name:BETHLEHEM STEEL	
Iress:1951 HAMBURG TURNPIKE RT5	
:LACKAWANNA	
ınty:Erie	
v Мар	
se:Equipment Failure	Source: Other Comm/Industrial
ource:On Land	
erbody:	
erbody:	

Region Close Date:02/03/1997

New Search

1997

Spill Information

New Search	Return to Spills Database Home Page		
Region:9	Spill Number:9612950		
Spill Date:02/01/1997	Spill Time:01:30 AM		
Call Received Date:02/01/1997	Time of Call Received:02:49 AM		
Material Spilled COAL TAR PITCH VOLATILES	Spilled Units 12000 Gal.		
Spill Name:BETHLEHEM STEEL Address:1951 HAMBURG TURNPIKE RT5 City:LACKAWANNA County:Erie View Map			
Cause:Equipment Failure	Source:Other Comm/Industrial		
Resource:Surface Water Waterbody:LACAWANNA SHIP CANAL			

Region Close Date:09/29/1997

New Search

1997

Spill Information

New Search	Return to Spills Database Home Page			
Region:9	Spill Number:9613731			
Spill Date:02/23/1997	Spill Time:04:30 AM			
Call Received Date:02/23/1997	Time of Call Received:06:14 AM			
Material Spilled WASTEWATER	Spilled Units 300 Gal.			
Spill Name:BETHLEHEM STEEL CORP				
Address:2558 HAMBURG TURNPIKE				
City:LACKAWANNA				
County:Erie				
View Map				
Cause:Equipment Failure	Source: Other Comm/Industrial			
Resource:Surface Water				
Waterbody:BLASDELL CREEK				
Region Close Date:03/06/1997				

New Search

[Home] Spills] [IHWDS]

1997

Spill Information

New Search	Return to Spills Database Home Page		
Region:9	Spill Number:9614863		
Spill Date:03/26/1997	Spill Time:07:00 AM		
Call Received Date:03/26/1997	Time of Call Received:08:51 AM		
Material Spilled AMMONIA	Spilled Units 25 Gal.		
Spill Name:BETHLEHEM STEEL			
Address:1951 HAMBURG TURNPIKE RT			
City:LACKAWANNA			
County:Erie			
View Map			
Cause:Equipment Failure	Source:Other Comm/Industrial		
Resource:On Land			
Waterbody:			
Region Close Date:03/27/1997			

New Search

Spill Information

New Search	Return to Spills Database Home Page			
Region:9	Spill Number:9700892			
Spill Date:04/21/1997	Spill Time:11:00 AM			
Call Received Date:04/21/1997	Time of Call Received:11:33 AM			
Material Spilled	Spilled Units			
UNKNOWN MATERIAL	7 Gal.			
Spill Name:BETHLEHEM STEEL				
Address:1951 HAMBURG TURNPIKE RT5				
City:LACKAWANNA				
County:Erie				
View Map				
Cause:Equipment Failure	Source:Other Comm/Industrial			
Resource:On Land				
Waterbody:				

New Search

Region Close Date:04/21/1997

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9701951
Spill Date:05/14/1997	Spill Time:01:00 PM
Call Received Date:05/14/1997	Time of Call Received:02:30 PM
Material Spilled #6 FUEL OIL	Spilled Units Unknown Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TRUNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Unknown	Source: Other Comm/Industrial
Resource:Groundwater	
Waterbody:	

Region Close Date:

New Search

[Home][Spills][IHWDS]

1997

Spill Information

New Search	Return to Spills Database Home Page				
Region:9	Spill Number:9708265				
Spill Date:10/14/1997	Spill Time:03:40 PM				
Call Received Date:10/14/1997	Time of Call Received:03:56 PM				
Material Spilled	Spilled Units				
COAL TAR PITCH VOLATILES	10 Gal.				
Spill Name:BETHLEHEM STEEL					
Address:1951 HAMBURG TURNPIKE RT5					
City:LACKAWANNA					
County:Erie					
View Map					
Cause:Equipment Failure	Source:Other Comm/Industrial				
Resource:On Land					
Waterbody:					

New Search

Region Close Date:10/15/1997

| Home | Spills | IHWDS

Region Close Date:11/18/1997

New Search

1997

Spill Information

New Search	Return to Spills Database Home Page			
Region:9	Spill Number:9709531			
Spill Date:11/17/1997	Spill Time:12:10 PM			
Call Received Date:11/17/1997	Time of Call Received:12:24 PM			
Material Spilled	Spilled Units			
WASTEWATER	10 Gal.			
Spill Name:BETHLEHEM STEEL				
Address:1951 HAMBURG TURNPIKE RT5				
City:LACKAWANNA				
County:Erie				
View Map				
Cause:Equipment Failure	Source:Other Comm/Industrial			
Resource:On Land				
Waterbody:				

| Home | Spills | IHWDS

1997

Spill Information

New Search	Return to Spills Database Home Page			
Region:9	Spill Number:9709784			
Spill Date:11/21/1997	Spill Time:05:00 PM			
Call Received Date:11/21/1997	Time of Call Received:06:28 PM			
Material Spilled AMMONIA	Spilled Units 50 Gal.			
Spill Name:BETHLEHEM STEEL Address:1951 HAMBURG TURNPIKE RT5 City:LACKAWANNA County:Erie View Map				
Cause:Equipment Failure	Source: Other Comm/Industrial			
Resource:On Land Waterbody:				

Region Close Date:11/25/1997

New Search

[Home] Spills [IHWDS]

1998

Search Results

34 results found

Refine This Search

			Next 10 Sites	1	ast 10 Sites	
	Spill #	Date	Spill Name	County	City	Address
1.	9711305		ERIE COUNTY SEWER DIST #6	Erie	LACKAWANNA	260 LEHIGH STREET
2.	9711342	01/09/1998	BETHLEHEM STEEL	Erie		1951 HAMBURG TURNPIKE RT5
3.	9711859	01/22/1998	SAFETY KLEEN	Erie		41 NORTH GATES AVENUE
4.	9711892	01/23/1998	TRUCK AT BETHLEHEM STEEL	Erie	LACKAWANNA	HAMBURG TURNPIKE/LINCOLN
5.	9711894	01/23/1998	TRCUK AT BETHLEHEM STEEL	Erie	LACKAWANNA	2558 HAMBURG TPK
6.	9714347	03/26/1998	SAFETY KLEEN	Erie	LACKAWANNA	41 NORTH GATES
7.	9800181		TRANSFORMER AT BETHLEHEM	Erie	LACKAWANNA	FUHRMAN BLVD
8.	9800399	04/09/1998	TRU GREEN CHEM LAWN TRUCK	Erie	LACKAWANNA	401 MARTIN ROAD
9.	9800581	04/14/1998	SAFETY KLEEN	Erie	LACKAWANNA	41 NORTH GATES
10.	9801248	04/29/1998	BETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5

New Search

NYS Department of Environmental Conservation - Home - Site Map - Search

| Home | Spills | IHWDS

1998

Search Results	34 results found	Refine This Search		
First 10 Site	s Prev 10 Sites	Next 10 Si	tes Last 10	Sites
Spill # Date	Spill Name	County	City	Address
11. <u>9801772</u> 05/11/1998	BETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
12. <u>9802033</u> 05/16/1998	HERBICIDE SPRAYING	Erie	LACKAWANNA	RT 5 & MADISON
13. <u>9802479</u> 05/27/1998	BETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
14. <u>9805106</u> 07/23/1998	PETRO USA	Erie	LACKAWANNA	2540 S. PARK AVE
45. <u>9805717</u> 08/01/1998	NYSDOT PROJECT/SMOKES CRK	Erie	LACKAWANNA	HAMBURG TURNPIKE
16. <u>9805716</u> 08/07/1998	NYSDOT PROJECT/SPERDUTI	Erie	LACKAWANNA	2654 HAMBURG TURNPIKE
17. <u>9805713</u> 08/07/1998	NYSDOT PROJECT/BETHLEHEM	Erie	LACKAWANNA	HAMBURG TURNPIKE
18. <u>9805835</u> 08/11/1998	BETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
19. <u>9805973</u> 08/12/1998	WASTE MANAGEMENT INC	Erie	LACKAWANNA	70 NORTH GATES AVENUE
20. <u>9806699</u> 08/31/1998	FICEL TRANSPORT	Erie	LACKAWANNA	310 LAKE AVENUE

New Search

NYS Department of Environmental Conservation - Home - Site May - Search

| Home | Spills | IHWDS

1998

Searc	h R	lesu	lts
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34 results found

Refine This Search

			First 10 Sites	S Prev 10 Sites	Next	10 Sites	Last 10 Sites
۱		Spill #	Date	Spill Name	County	City	Address
1	24.	9875014	4 09/08/1998	BETHLEHEM STEEL EXCAVATIO	Erie	LACKAWA	NNA LINCOLN & ELM
	22.	9807539	9 09/21/1998	MODERN DISPOSAL TRUCK	Erie	LACKAWA	NNA SOUTH PARK AV & MCKINLEY
	23.	9807620	09/22/1998	SAFETY KLEEN	Erie	LACKAWA	NNA 41 NORTH GATES AVENUE
	24.	980877	<u>7</u> 10/14/1998	BETHELHEM STEEL	Erie	LACKAWA	NNA 2558 HAMBURG TURNPIKE
	25.	987515	3 10/29/1998	DUMPING FROM TRUCKS	Erie	LACKAWA	NNA END OF FISHER STREET
	26.	9809786	<u>6</u> 11/04/1998	BETHLEHEM STEEL	Erie	LACKAWA	NNA 1951 HAMBURG TURNPIKE RT5
	27.	9875182	2 11/05/1998	HOLY CROSS CEMETARY	Erie	LACKAWA	NNA 2900 SOUTH PARK
	28.	981076	<u>4</u> 11/25/1998	BETHLEHEM STEEL	Erie	LACKAWA	NNNA 2558 HAMBURG TURNPIKE RT5
	29.	981102	<u>4</u> 12/02/1998	BETHLEHEM STEEL	Erie	LACKAWA	NNNA 1951 HAMBURG TURNPIKE RT5
	30.	9811092	2 12/03/1998	BETHLEHEM STEEL	Erie	LACKAWA	NNA 1951 HAMBURG TURNPIKE RT5

New Search

NYS Department of Environmental Conservation - Home - Site May - Search

[Home] Spills] [IHWDS]

1998

Search Results		34 results fo	und	<u>Refi</u>	Refine This Search	
			First 10 Sites	<u> </u>	rev 10 Sites	
	Spill #	Date	Spill Name	County	City	Address
31.	9875292	12/15/1998	LAIDLAW TRANSIT	Erie	LACKAWANNA	2514 SOUTH PARK AVENUE
32.	9812046	12/26/1998	BETHLEHEM STEEL	Erie	LACKAWANNA	2558 HAMBURG TURNPIKE RT5
33.	9875317	12/28/1998	UNI-MART	Erie	LACKAWANNA	2861 SOUTH PARK
34.	9812131	12/29/1998	BETHLEHEM STEEL	Erie	LACKAWANNA	2558 HAMBURG TURNPIKE RT5

New Search

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9711892
Spill Date:01/23/1998	Spill Time:02:28 PM
Call Received Date:01/23/1998	Time of Call Received:02:50 PM
Material Spilled DIESEL	Spilled Units 50 Gal.
Spill Name:TRUCK AT BETHLEHEM STEE Address:HAMBURG TURNPIKE/LINCOLN City:LACKAWANNA County:Erie View Map	L
Cause:Traffic Accident	Source: Commercial Vehicle
Resource:On Land	
Waterbody:	

Region Close Date:01/23/1998

New Search

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9711894
Spill Date:01/23/1998	Spill Time:01:05 PM
Call Received Date:01/23/1998	Time of Call Received:03:00 PM
Material Spilled DIESEL	Spilled Units 50 Gal.
Spill Name:TRCUK AT BETHLEHEM STEE	L
Address:2558 HAMBURG TPK	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Traffic Accident	Source: Commercial Vehicle
Resource:In Sewer	
Waterbody:	

New Search

Region Close Date:03/11/1998

∫Home ∫ Spills ∫ IHWDS \

1998

Spill Information

New Search	Return to Spills Database Home Page			
Region:9	Spill Number:9800181			
Spill Date:04/05/1998	Spill Time:06:02 AM			
Call Received Date:04/05/1998	Time of Call Received:01:09 PM			
Material Spilled	Spilled Units			
TRANSFORMER OIL	32 Gal.			
Spill Name:TRANSFORMER AT BETHLEHE	M			
Address:FUHRMAN BLVD				
City:LACKAWANNA				
County:Erie				
View Map				
Cause:Equipment Failure	Source: Other Comm/Industrial			
Resource:On Land				
Waterbody:				

Region Close Date:07/21/1998

New Search

| Home | Spills | IHWDS

1998

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9811024
Spill Date:12/02/1998	Spill Time:03:00 PM
Call Received Date:12/02/1998	Time of Call Received:03:33 PM
Material Spilled	Spilled Units
TAR	5 Gal.
AMMONIA	5 Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

Region Close Date:12/03/1998

New Search

∫Home ∫ Spills ∫ IHWDS \

1998

Spill Information

Spill Number:9811092 Spill Time:03:00 PM Time of Call Received:03:25 PM Spilled Units 2 Gal.
Time of Call Received:03:25 PM Spilled Units
Received:03:25 PM Spilled Units
Source:Other Comm/Industrial

New Search

Region Close Date:12/04/1998

∫Home ∬Spills ∬IHWDS `

1998

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9812046
Spill Date:12/26/1998	Spill Time:10:30 PM
Call Received Date:12/26/1998	Time of Call Received:11:16 PM
Material Spilled AMMONIA	Spilled Units 20 Gal.
Spill Name:BETHLEHEM STEEL	
Address:2558 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

Region Close Date:01/05/1999

New Search

NYS Department of Environmental Conservation - Home - Site Map - Search

∫Home ∫ Spills ∫ IHWDS \

1999

Search Results

42 results found

Refine This Search

			Next 10 5	Sites	Last	10 Sites	
	Spill #	Date	Spill Name	. (County	City	Address
1.	9812184	01/01/1999	BETH STEEL - COVENS	OKE I	Erie	LACKAWANNA	2558 HAMBURG TURNPIKE
2.	9812185	01/01/1999	BETH STEEL - COVENS	OKE I	Erie	LACKAWANNA	2558 HAMBURG TKPE
3.	9812241	01/04/1999	BETHLEHEM ST	EEL I	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
4.	9812512	01/10/1999	BETHLEHEM ST	EEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
5.	9812698	01/14/1999	BETHLEHEM ST	EEL I	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
6.	9812777	01/18/1999	BETHLEHEM ST	EEL I	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
7.	9813687	02/09/1999	WAREHOUSE	İ	Erie	LACKAWANNA	41 NORTH GATES AVE
8.	9814631	03/09/1999	BETHLEHEM ST	EEL I	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
9.	9814810	03/12/1999	BETHLEHEM STEEL/COKE PI		Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
10.	9875456	03/13/1999	BETHLEHEM ST	EEL I	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5

New Search

| Home | Spills | IHWDS

1999

Search Resu	lts	42 results found		<u>Refin</u>	e This Search
	First 10 Sites	Prev 10 Sites	Next	10 Sites	Last 10 Sites
	Date 03/24/1999	Spill Name BILL VOGEL CARS	County Erie	•	Address INA 180 RIDGE ROAD
12. <u>9975010</u>	04/06/1999		Erie	LACKAWAN	INA 5 REDDON STREET
13. <u>9901167</u>		BETHLEHEM STEEL	Erie	LACKAWAN	INA 1951 HAMBURG TURNPIKE RT5
1 4. <u>9975105</u>		OIL IN SMOKES CREEK	Erie	LACKAWAN	INA 2551 HAMBURG TURNPIKE
15. <u>9975103</u>		DRUM AT RIDGE ROAD BRIDGE	Erie	LACKAWAN	INA RIDGE ROAD
16. <u>9901972</u>	05/20/1999	BETHLEHEM STEEL	Erie	LACKAWAN	NA 1951 HAMBURG TURNPIKE RT5
17. <u>9902632</u>		TRUCK AT VALVOLINE	Erie	LACKAWAN	NA 1318 RIDGE ROAD
18. <u>9903266</u>		BFI TRUCK HIT NM POLES	Erie	LACKAWAN	NA 1234 ABBOTT ROAD
19. <u>9903260</u>	06/22/1999	BFI TRUCK	Erie	LACKAWAN	NNA 1234 ABBOTT ROAD
20. 9975313	07/27/1999	AVIS LUBE	Erie	LACKAWAN	NNA 24 MAGNOLIA

New Search

Return to Spills Database Home Page

STREET

NYS Department of Environmental Conservation - Home - Site May - Search

| Home | Spills | IHWDS

1999

Search Results

42 results found

Refine This Search

		First	10 Sites		Prev 10 Sites	Ne	xt 10 Sites	Last 10 Sites	
	Spill #	Da	ate		Spill Name	County	City	Addres	s
21.	997534	<u>9</u> 08/10	/1999	SAFI	ETY KLEEN	Erie	LACKAWAN	INA 41 NORTH GA	TES
22.	990616	<u>3</u> 08/24		OIL I POO	DUMPED INTO	Erie	LACKAWAN	INA 2 KIRBY STRE	ET
23.	997537	9 08/26	6/1999	SAFI	ETY KLEEN	Erie	LACKAWAN	NNA 41 NORTH GA AVENUE	TES
24.	990638	<u>2</u> 08/28		SHIN HOU	IGLES AT ISE	Erie	LACKAWAN	NA 15 WEBER RO	DAD
25.	990653	<u>4</u> 09/01	/1999	SAF	ETY CLEAN	Erie	LACKAWAN	NNA 41 NORTH GA	TES
26.	990652	<u>5</u> 09/01		BET	HLEHEM EL	Erie	LACKAWAN	NNA 2558 HAMBUF TURNPIKE RT	
27.	990656	<u>7</u> 09/02		BET STE	HLEHEM EL	Erie	LACKAWAN	NNA 1951 HAMBUF TURNPIKE RT	
28.	990703	<u>7</u> 09/13	3/1999	BET STE	HLEHEM EL	Erie	LACKAWAN	NNA 1951 HAMBUF TURNPIKE RT	1
29.	997540	<u>19</u> 09/13			HLEHEM EL - UST	Erie	LACKAWAN	NNA 2558 HAMBUF TURNPIKE RT	
30.	990720	<u>19</u> 09/16	6/1999	BET STE	HLEHEM EL	Erie	LACKAWAN	NNA 1951 HAMBUR TURNPIKE R1	

New Search

NYS Department of Environmental Conservation - Home - Site Map - Search

∫Home ∫ Spills ∫ IHWDS \

1999

Coordb Docult	
Search Result	

42 results found

Refine This Search

		First 10 Sites	Prev 10 Sites	Next	10 Sites	Last 10 Sites
	Spill#	Date	Spill Name	County	City	Address
31	. <u>9907540</u>	09/22/1999	BETHLEHEM COKE OVENS	Erie	LACKAWA	NNA 1951 HAMBURG TRPK
32	. 9908133	10/05/1999	BETHLEHEM STEEL	Erie	LACKAWA	NNA 1951 HAMBURG TURNPIKE RT5
33	. 9908382	10/10/1999	BETHLEHEM STEEL	Erie	LACKAWA	NNA 1941 HAMBURG TURNPIKE RT5
34	. 9908642	10/15/1999	BETHLEHEM STEEL	Erie	LACKAWA	NNA 1941 HAMBURG TURNPIKE RT5
35	9908858	10/21/1999	BETHLEHEM STEEL	Erie	LACKAWA	NNA 1951 HAMBURG TURNPIKE RT5
36	. <u>9975518</u>	11/15/1999	SAFETY KLEEN	Erie	LACKAWA	NNA 41 NORTH GATES AVENUE
37	. <u>9910121</u>	11/20/1999	BETHLEHEM STEEL	Erie	LACKAWA	NNA 1951 HAMBURG TURNPIKE RT5
38	. <u>9910259</u>		COKE OVENS/ARRIC CORP	Erie	LACKAWA	NNA HAMBURG TURNPIKE ROUTE 5
39	. <u>9975546</u>		DONALD KANE LEAKING AUTO	Erie	LACKAWA	NNA 37 CLEVELAND
40	. <u>9910973</u>	12/15/1999	FORMER PIZZA HUT	Erie	LACKAWA	NNA 954 RIDGE ROAD

New Search

NYS Department of Environmental Conservation - Home - Site Map - Search

[Home] Spills] [IHWDS]

1999

Search Results

42 results found

Refine This Search

First 10 Sites

Prev 10 Sites

Spill # Date Spill Name41. <u>9911363</u> 12/28/1999 SABIA
RESIDENCE

County Erie L

City Address

LACKAWANNA 183 WEST ELMVIEW AVENUE

42. <u>9911445</u> 12/31/1999 BETHLEHEM STEEL Erie

LACKAWANNA 1951 HAMBURG TURNPIKE RT5

New Search

[Home] Spills [IHWDS]

1999

Spill Information

New Search	Return to Spills Database Home Page				
Region:9	Spill Number:9875456				
Spill Date:03/13/1999	Spill Time:11:00 AM				
Call Received Date:03/13/1999	Time of Call Received:11:05 AM				
Material Spilled WASH OIL	Spilled Units 25 Gal.				
Spill Name:BETHLEHEM STEEL					
Address:1951 HAMBURG TURNPIKE RT5					
City:LACKAWANNA					
County:Erie View Map					
Cause:Equipment Failure	Source:Other Comm/Industrial				
Resource:On Land					
Waterbody:					
Region Close Date:03/26/1999					

New Search

1999

Spill Information

New Search	Return to Spills Database Home Page				
Region:9	Spill Number:9975409				
Spill Date:09/01/1999	Spill Time:12:00 PM				
Call Received Date:09/13/1999	Time of Call Received:08:34 AM				
Material Spilled	Spilled Units				
#2 FUEL OIL	Unknown Gal.				
Spill Name:BETHLEHEM STEEL - UST					
Address:2558 HAMBURG TURNPIKE RT5					
City:LACKAWANNA					
County:Erie					
View Map					
Cause:Tank Failure	Source: Other Comm/Industrial				
Resource:Groundwater					
Waterbody:					
Region Close Date:12/09/1999					

New Search

∫Home ∫ Spills ∫ IHWDS \

1999

Spill Information

New Search	Return to Spills Database Home Page				
Region:9	Spill Number:9907209				
Spill Date:09/16/1999	Spill Time:12:33 PM				
Call Received Date:09/16/1999	Time of Call Received:01:46 PM				
Material Spilled	Spilled Units Unknown Gal.				
UNKNOWN PETROLEUM	OTIKITOWIT Gal.				
Spill Name:BETHLEHEM STEEL					
Address:1951 HAMBURG TURNPIKE RT5					
City:LACKAWANNA					
County:Erie					
View Map					
Cause:Other	Source: Other Comm/Industrial				
Resource:Surface Water					
Waterbody:CRREK					
Region Close Date:09/17/1999					
Region Close Date:00/11/1000					

New Search

∫Home ∫ Spills ∫ IHWDS \

1999

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9907540
Spill Date:09/22/1999	Spill Time:05:00 PM
Call Received Date:09/22/1999	Time of Call Received:05:40 PM
Material Spilled AMMONIA	Spilled Units 50 Gal.
Spill Name:BETHLEHEM COKE OVENS	
Address:1951 HAMBURG TRPK	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	

Region Close Date:09/23/1999

New Search

1999

Spill Information

New Search	Return to Spills Database Home Page			
Region:9	Spill Number:9908133			
Spill Date:10/04/1999	Spill Time:11:00 PM			
Call Received Date:10/05/1999	Time of Call Received:07:21 AM			
Material Spilled DIESEL	Spilled Units 7500 Gal.			
Spill Name:BETHLEHEM STEEL				
Address:1951 HAMBURG TURNPIKE RT5				
City:LACKAWANNA				
County:Erie				
View Map				
Cause:Vandalism	Source: Other Comm/Industrial			
Resource:On Land				
Waterbody:				

New Search

Region Close Date:10/28/1999

| Home | Spills | IHWDS

1999

Spill Information

New Search	Return to Spills Database Home Page			
Region:9	Spill Number:9908382			
Spill Date:10/10/1999	Spill Time:07:00 PM			
Call Received Date:10/10/1999	Time of Call Received:07:52 PM			
Material Spilled LUBE OIL LUBRICATING OIL	Spilled Units 5 Gal. 5 Gal.			
Spill Name:BETHLEHEM STEEL Address:1941 HAMBURG TURNPIKE RT5 City:LACKAWANNA County:Erie View Map				
Cause:Equipment Failure Resource:On Land Waterbody:	Source:Other Comm/Industrial			

Region Close Date:10/12/1999

New Search

[Home] Spills] IHWDS]

2000

Search Results

43 results found

Refine This Search

			Next 10 Sites	L	ast 10 Sites	
	Spill #	Date	Spill Name	County	_	Address
1.		01/20/2000	BETHLEHEM STEEL	Erie		1951 HAMBURG TURNPIKE RT5
2.	9912155 (BETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
3.	9912231	01/24/2000	BETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
4.	9975662	01/27/2000	SUN STATION 0364-1743	Erie	LACKAWANNA	1329 ABBOTT ROAD
5.	9975663	01/28/2000	SAFETY KLEEN TRUCK	Erie	LACKAWANNA	41 NORTH GATES AVENUE
6.	9912381	01/28/2000	BETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
7.	9912729	02/08/2000	BETHLEHEM STEEL	Erie	LACKAWANNA	.1951 HAMBURG TURNPIKE RT5
8.	9913014	02/15/2000	BETHLEHEM STEEL	Erie	LACKAWANNA	.1951 HAMBURG TURNPIKE RT5
9.	9913081	02/17/2000	BETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
10	. <u>9975685</u>	02/18/2000	BETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5

New Search

NYS Department of Environmental Conservation - Home - Site Map - Search

[Home] Spills [IHWDS]

2000

Search Results

43 results found

Refine This Search

		First 10 Siles	Prev 10 Sites	Next	10 Sites	Last 10 Sites
	Spill #	Date	Spill Name	County	City	Address
11.	9913384	02/25/2000	BETHLEHEM STEEL	Erie	LACKAWANN	IA 1951 HAMBURG TURNPIKE RT5
12.	9913378	02/25/2000	BETHLEHEM STEEL	Erie	LACKAWANN	IA 1951 HAMBURG TURNPIKE RT5
13.	9913817	03/08/2000	BETHLEHEM STEEL	Erie	LACKAWANN	IA 1951 HAMBURG TURNPIKE RT5
14.	9913913	3 03/09/2000	BETHLEHEM STEEL	Erie	LACKAWANN	IA 1951 HAMBURG TURNPIKE RT5
15.	9975716	03/15/2000	LAKE ERIE DISTRIBUTORS	Erie	LACKAWANN	IA 22 SIMON AVENUE
16.	9975738	3 03/15/2000	SAFETY KLEEN	Erie	LACKAWANN	IA 41 NORTH GATES AVENUE
17.	0075023	3 03/17/2000	BETHLEHEM STEEL	Erie	LACKAWANN	IA 1951 HAMBURG TURNPIKE RT5
18.	0000866	04/21/2000	TAXI AT SUNOCO STATION	Erie	LACKAWANN	IA 1329 ABBOTT AND RIDGE
19.	. 0001054	1 04/26/2000	BETHLEHEM STEEL	Erie	LACKAWANN	IA 1951 HAMBURG TURNPIKE RT5
20.	. 0075098	3 05/18/2000	ODORS IN HOME	Erie	LACKAWANN	IA 18 MADISON STREET

New Search

NYS Department of Environmental Conservation - Home - Site Map - Search

| Home | Spills | IHWDS

2000

Search Results

43 results found

Refine This Search

		First 10 Sites	Prev 10 Sites	Next 10) Sites Last	10 Sites
	Spill #	Date	Spill Name	County	City	Address
21.	0002243	05/23/2000	BETHLEHEM STEEL	Erie		1951 HAMBURG TURNPIKE RT5
22.	0002303	05/24/2000	BETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
23.	0003110	06/13/2000	BETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
24.	0003569	06/22/2000	SEWAGE IN SMOKES CREEK	Erie	LACKAWANNA	3260 SOUTH PARK
25.	0075250		NYSDOT PROJECT - SEWER	Erie	LACKAWANNA	ROUTE 5
26.	0004518		WAREHOUSE SITE ASSESSMENT	Erie	LACKAWANNA	21 GATES AVENUE
27.	0075247	07/19/2000	NYSDOT PROJECT/CATCH BASI	Erie	LACKAWANNA	ROUTE 5 AT SECOND STREET
28.	0075256	07/24/2000	QUALITY PLAZA	Erie	LACKAWANNA	ABBOTT AND RIDGE ROADS
29.	0075269		CITY ROW ON GATES AVENUE	Erie	LACKAWANNA	21 GATES AVENUE
30.	0075268		CONTAMINATION IN ROW	Erie	LACKAWANNA	21 GATES AVENUE

New Search

∫Home ∫ Spills ∫ IHWDS \

40. 0009974 12/04/2000 BETHLEHEM STEEL Erie



Search Results				43 results foun	d	Refine This Search				
			First 10 Sites	Prey 10 Sites		Next 10	Sites	Last	10 Sites	
		Spill #	Date	Spill Name	С	ounty	Cit	у	Addr	ess
	31.		09/05/2000	TRUCK AT BETHLEHEM STEE		rie	LACKAV		1951 HAN TURNPIK	
	32.	0075416	10/05/2000	CAN FIBRE	E	rie	LACKAV		15 NORTI STEELAV AVE.	
	33.	0008498	10/20/2000	BETHLEHEM/C AN BUILDIN	DD E	rie	LACKAV	VANNA	1951 HAN TURNPIK	1BURG E RT5
<i>></i>	34.	0008887	10/31/2000	BETHLEHEM STEE	L E	Frie	LACKAV		1951 HAM TURNPIK	
	35.	0008969	11/02/2000	BETHLEHEM STEE	EL E	Frie	LACKAV	VANNA	1951 HAN TURNPIK	
3	36.	0009396	11/15/2000	BUFFALO BRAKE BEAM	E	rie	LACKAV	VANNA	400 INGH	AM AVE
\	3 7.	0009416	11/16/2000	NATIONAL VACUUM/BETHLEH		Erie	LACKAV	VANNA	1951 HAN TURNPIK	
	38.	0009730	11/27/2000	COKE OVENS - TA		Erie	LACKAV	VANNA	1951 HAN TURNPIK	
	39.	0009822	11/29/2000	BETHLEHEM STEE	L E	Erie	LACKAV	VANNA	1951 HAN TURNPIK	

New Search

Return to Spills Database Home Page

LACKAWANNA 1951 HAMBURG

TURNPIKE RT5

∫Home ∫ Spills ∫ IHWDS \



Sea	arch Resu	lts	43 results fou	und	Refine	e This Search
			First 10 Sites	Pre	v 10 Sites	
41.	Spill # 0010051	Date 12/06/2000	Spill Name FIRST FLEET TRUCKING	County Erie	_	Address 190 LACKAWANNA TOLL BARRI
42.	0010593	12/21/2000	BETHLEHEM STEEL	Erie	LACKAWANNA	. 1951 HAMBURG TURNPIKE RT5
43.	0010697	12/26/2000	BETHLEHELM STEEL	Erie	LACKAWANNA	1951 HAMBURG

New Search

New Search

2000

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9912155
Spill Date:01/21/2000	Spill Time:07:25 AM
Call Received Date:01/21/2000	Time of Call Received:08:07 AM
Material Spilled AMMONIUM SULFATE	Spilled Units Unknown Gal.
Spill Name:BETHLEHEM STEEL Address:1951 HAMBURG TURNPIKE RT5 City:LACKAWANNA County:Erie View Map	
Cause:Equipment Failure Resource:On Land Waterbody:	Source:Other Non Comm/Institutional
Region Close Date:01/21/2000	

[Home] Spills] IHWDS]

2000

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9975685
Spill Date:02/15/2000	Spill Time:12:00 PM
Call Received Date:02/18/2000	Time of Call Received:09:15 AM
Material Spilled	Spilled Units
WASH OIL	200 Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Human Error	Source: Other Comm/Industrial
Resource:Surface Water	
Waterbody:LAKE ERIE	

New Search

Region Close Date:07/10/2000



Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:9913384
Spill Date:02/25/2000	Spill Time:08:50 PM
Call Received Date:02/25/2000	Time of Call Received:09:02 PM
Material Spilled AMMONIUM SULFATE	Spilled Units 500 Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	
D : 01 D-100/00/0000	

Region Close Date:02/28/2000

New Search

[Home] Spills | IHWDS

Region Close Date:04/17/2000

New Search

2000

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:0075023
Spill Date:03/01/2000	Spill Time:12:00 PM
Call Received Date:03/17/2000	Time of Call Received:12:00 PM
Material Spilled HYDRAULIC OIL	Spilled Units 0 Gal.
Spill Name:BETHLEHEM STEEL Address:1951 HAMBURG TURNPIKE RT5 City:LACKAWANNA	
County:Erie	
View Map Cause:Equipment Failure Resource:On Land Waterbody:	Source:Railroad Car

New Search

2000

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:0001054
Spill Date:04/26/2000	Spill Time:10:45 AM
Call Received Date:04/26/2000	Time of Call Received:11:00 AM
Material Spilled TAR	Spilled Units 10 Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	
Pogion Close Date: 05/01/2000	
Region Close Date:05/01/2000	

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:0002243
Spill Date:05/23/2000	Spill Time:10:00 AM
Call Received Date:05/23/2000	Time of Call Received:10:25 AM
Material Spilled	Spilled Units
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Other	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

Return to Spills Database Home Page

Region Close Date:05/26/2000

New Search

2000

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:0002303
Spill Date:05/24/2000	Spill Time:11:00 AM
Call Received Date:05/24/2000	Time of Call Received:11:46 AM
Material Spilled	Spilled Units
COAL TAR PITCH VOLATILES	3 Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

New Search

Region Close Date:07/27/2000

2000

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:0003110
Spill Date:06/13/2000	Spill Time:08:15 AM
Call Received Date:06/13/2000	Time of Call Received:08:39 AM
Material Spilled HYDRAULIC OIL	Spilled Units 200 Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Commercial Vehicle
Resource:On Land	
Waterbody:	
Region Close Date:07/26/2000	

New Search



Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:0006655
Spill Date:09/05/2000	Spill Time:12:50 PM
Call Received Date:09/05/2000	Time of Call Received:02:01 PM
Material Spilled WASTE OIL	Spilled Units 1 Gal.
Spill Name:TRUCK AT BETHLEHEM STEE	_
Address:1951 HAMBURG TURNPIKE	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Human Error	Source:Commercial Vehicle
Resource:Surface Water	
Waterbody:LACKAWANNA SHIP CANA	

Region Close Date:09/05/2000

New Search



Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:0008498
Spill Date:10/20/2000	Spill Time:11:15 AM
Call Received Date:10/20/2000	Time of Call Received:12:03 PM
Material Spilled	Spilled Units
WASTEWATER	5 Gal.
Spill Name:BETHLEHEM/C AND D BUILDIN	V
Address:1951 HAMBURG TURNPIKE RT5	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

Return to Spills Database Home Page

Region Close Date:10/20/2000

New Search



Spill Information

Spill Number:0008969 Spill Time:11:10 AM
Spill Time:11:10 AM
opin minor in its in
Time of Call Received:11:50 AM
Spilled Units 10 Gal.
Source:Other Comm/Industrial
=======================================

Region Close Date:11/03/2000

New Search

Home Spills IHWDS

2000

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:0010697
Spill Date:12/23/2000	Spill Time:03:22 PM
Call Received Date:12/26/2000	Time of Call Received:09:28 AM
Material Spilled	Spilled Units
TAR	75 Gal.
Spill Name:BETHLEHELM STEEL	
Address:1951 HAMBURG	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Human Error	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

New Search

Region Close Date:12/27/2000

| Home | Spills | IHWDS

2001

Search Results

30 results found

Refine This Search

			Next 10 Sites	Las	t 10 Sites	
	Spill #	Date	Spill Name	County	City	Address
1.	0010865	01/03/2001	BETHLEHEM STEEL	Erie		1951 HAMBURG TURNPIKE RT5
2.	0011379	01/19/2001	BETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE RT5
3.	0011481	01/24/2001	CANFIBRE	Erie	LACKAWANNA	15 NORTH STEELAWANNA AVE.
4.	0011700	01/30/2001	BETHLEHEM STEEL	Erie	LACKAWANNA	ROUTE 5
5.	0012657	02/27/2001	BETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE
6.	0075648	03/07/2001	FRMR AUTO REPAIR SHOP	Erie	LACKAWANNA	2955 SOUTH PARK AVENUE
7.	0175001	04/02/2001	BETHLEHEM/SHIP CANAL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE
8.	0100015	04/02/2001	LACKAWANNA SHIP CANAL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE
9.	0175038	04/17/2001	ABBOTT ROAD PLAZA DUMPSTE	Erie	LACKAWANNA	ABBOTT ROAD
10.	0100799	04/20/2001	OIL IN RUSH CREEK	Erie	LACKAWANNA	ROUTE 5

New Search

[Home][Spills][IHWDS]

2001

Search Results 30 results found Refine This Search

	First 10	O Sites	Prev 10 Sites	Next	10 Sites	Last 10 \$	Sites
Spill	# Dat	te	Spill Name	County	City		Address
11. <u>01010</u>	<u>10</u> 04/26/:	2001 BET	THLEHEM STEEL	Erie	LACKAWA		HAMBURG NPIKE RT5
12. <u>01011</u>	<u>14</u> 04/29/2		CHESTER AND JTHERN DR	Erie	LACKAWA	ANNA ROU	TE 5
13. <u>01012</u>	<u>78</u> 05/03/:	2001 BET	HLEHEM STEEL	Erie	LACKAWA		HAMBURG NPIKE
14. <u>01750</u>	<u>87</u> 05/10/:	2001 SAF	ETY KLEEN	Erie	LACKAWA	NNA 41 N AVE	ORTH GATES NUE
15. <u>01019</u>	<u>91</u> 05/21/		HLEHEM EL/COKE DIV	Erie	LACKAWA	NNA 2558 TRPI	HAMBURG <
16. <u>01028</u>	<u>86</u> 06/15/		TH STEEL - RUB YARD	Erie	LACKAWA		HAMBURG NPIKE
17. <u>01751</u>	<u>83</u> 07/02/	2001 BET	THLEHEM STEEL	Erie	LACKAWA	ANNA ROU	TE 5
18. <u>01036</u>	<u>30</u> 07/04/	2001 CA	N FIBRE	Erie	LACKAWA	ANNA 300 (COMERACE DR
19. <u>01042</u>	<u>43</u> 07/20/	2001 BET	THLEHEM STEEL	Erie	LACKAWA		HAMBURG NPIKE
20. <u>01047</u>	<u>28</u> 08/02/	2001 BET	TH STEEL	Erie	LACKAWA	ANNA 1956 PK	HAMBURG TN

New Search

| Home | Spills | IHWDS

2001

Sea	arch Resu	lts	30 results found		Refine T	his Search
		#1.00 - 5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	First 10 Sites	Prev 1	0 Sites	
	Spill #	Date	Spill Name	County	City	Address
21.	0105927	09/04/2001	BETHLEHEM STEEL	Erie		1951 HAMBURG TURNPIKE
22.	0175303	09/07/2001	TRACTOR TRAILER ACCIDENT	Erie	LACKAWANNA	END OF CALDWELL
23.	0106339	09/16/2001	SMOKES CREEK	Erie	LACKAWANNA	WOOD ST OFF SOUTH PARK AV
24.	. <u>0106759</u>	09/28/2001	BETHLEHEM STEEL	Erie		1951 HAMBURG TPK
25.	. <u>0175341</u>	10/02/2001	PRIVATE RESIDENCE	Erie	LACKAWANNA	644 RIDGE ROAD
26.	. <u>0175344</u>	10/04/2001	JACK ADKINS FORD	Erie	LACKAWANNA	1212 ABBOTT RD.
27.	. 0107019	10/06/2001	BETHLEHAM STEEL	Erie	LACKAWANNA	1951 HAMBURG TURNPIKE
28	. <u>0175381</u>	10/18/2001	GAS STATION	Erie	LACKAWANNA	3473 SOUTH PARK
29	. <u>0108201</u>	11/13/2001	EXXON/MOBIL	Erie	LACKAWANNA	1361 ABBOTT RD
30.	. <u>0109240</u>	12/18/2001	POLE #5-5-1	Erie	LACKAWANNA	RT 5 & RIDGE RD

New Search

200/

Spill Information

New Search Return to Spills Database Home P				
Region:9	Spill Number:0011700			
Spill Date:01/30/2001	Spill Time:10:00 AM			
Call Received Date:01/30/2001	Time of Call Received:11:03 AM			
Material Spilled	Spilled Units			
BENZENE	Unknown Gal.			
BENZOL	Unknown Gal.			
Spill Name:BETHLEHEM STEEL				
Address:ROUTE 5				
City:LACKAWANNA				
County:Erie				
View Map				
Cause:Unknown	Source:Other Comm/Industrial			
Resource:Air				
Waterbody:				

Region Close Date:01/30/2001

New Search

[Home] Spills | IHWDS

New Search

2001

Spill Information

New Search Return to Spills Database Hom				
Region:9	Spill Number:0175001			
Spill Date:04/02/2001	Spill Time:08:00 AM			
Call Received Date:04/02/2001	Time of Call Received:10:36 AM			
Material Spilled	Spilled Units			
UNKNOWN PETROLEUM	5 Gal.			
Spill Name:BETHLEHEM/SHIP CANAL				
Address:1951 HAMBURG TURNPIKE				
City:LACKAWANNA				
County:Erie				
View Map				
Cause:Unknown	Source:Other Comm/Industrial			
Resource:Surface Water				
Waterbody:LACKAWANNA SHIP CANA				
Region Close Date:04/02/2001				

Region Close Date:07/03/2001

New Search

1005

Spill Information

New Search	Return to Spills Database Home Page		
Region:9	Spill Number:0175183		
Spill Date:07/01/2001	Spill Time:12:00 PM		
Call Received Date:07/02/2001	Time of Call Received:01:35 PM		
Material Spilled UNKNOWN PETROLEUM	Spilled Units Unknown Gal.		
Spill Name:BETHLEHEM STEEL			
Address:ROUTE 5			
City:LACKAWANNA			
County:Erie			
View Map			
Cause:Unknown	Source:Unknown		
Resource:Surface Water			
Waterbody:CREEK			

[Home] Spills [IHWDS]

2001

Spill Information

New Search	Return to Spills Database Home Page		
Region:9	Spill Number:0105927		
Spill Date:09/04/2001	Spill Time:08:00 AM		
Call Received Date:09/04/2001	Time of Call Received:08:21 AM		
Material Spilled	Spilled Units		
WASH OIL	100 Gal.		
Spill Name:BETHLEHEM STEEL			
Address:1951 HAMBURG TURNPIKE			
City:LACKAWANNA			
County:Erie			
View Map			
Cause:Equipment Failure	Source: Other Comm/Industrial		
Resource:On Land			
Waterbody:			
Region Close Date:09/10/2001			

New Search

| Home | Spills | IHWDS

2002

Search R	е	SI	ul	ts
----------	---	----	----	----

15 results found

Refine This Search

			Next 10 Sites		_ast 10 Sites	
	Spill#	Date	Spill Name	County	_	Address
1.	0175537	03/08/2002	SUNOCO	Erie	LACKAWANNA	1329 ABBOTT ROAD
2.	0111748	03/13/2002	LACKAWANNA SHIP CANAL	Erie	LACKAWANNA	HAMBURG TURNPIKE
3.	0112283	03/29/2002	OIL TO DRIVEWAY	Erie		78 MEADOWBROOK LANE
4.	0200411	04/12/2002	LAKE FRONT RECYCLING	Erie	LACKAWANNA	COMMERCE DR
5.	0275048	04/30/2002	GRECH RESIDENCE	Erie	LACKAWANNA	24 DELLA
6.	0201338	05/06/2002	BETHLEHEM STEEL	Erie	LACKAWANNA	1951 HAMBURG TRPK
7.	0202301	06/03/2002	BETHLEHEM STEEL	Erie		1951 HAMBURG TURNPIKE
8.	0275119	06/04/2002	BETHLEHEM STEEL	Erie	LACKAWANNA	400 HAMBURG TURNPIKE
9.	0202415	06/06/2002	CAN FIBER	Erie	LACKAWANNA	300 COMMERES DR
10.	0275129	06/10/2002	SOUTH BUFFALO RAILWAY	Erie	LACKAWANNA	BETHLEHEM STEEL TRACK 832

New Search

| Home | Spills | IHWDS

2002

Search Results

15 results found

Refine This Search

			First 10 Sites	Prev 10	Sites	
İ	Spill #	Date	Spill Name	County	City	Address
1	1. <u>0275158</u>		SENECA YARD - NYSDOT	Erie	LACKAWANNA	RIDGE ROAD
1:	2. <u>0275186</u>	07/03/2002	KWIK FILL - M-0330	Erie	LACKAWANNA	1131 RIDGE ROAD
1:	3. <u>0275204</u>	07/16/2002	WASTE OIL ON ROAD	Erie		IF0 59 SHANNON DRIVE
1.	4. <u>0275236</u>		BETHLEHEM STEEL COMPLEX	Erie	LACKAWANNA	HIGHWAY 9
1:	5. <u>0205083</u>	08/14/2002	CANFIBER	Erie		300 COMMERCE AVE

New Search

[Home] Spills [IHWDS]

New Search

2002

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:0201338
Spill Date:05/06/2002	Spill Time:02:40 PM
Call Received Date:05/06/2002	Time of Call Received:03:13 PM
Material Spilled UNKNOWN PETROLEUM	Spilled Units 100 Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TRPK	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Unknown	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	
Region Close Date:	

[Home][Spills][IHWDS]

2002

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:0202301
Spill Date:06/03/2002	Spill Time:01:30 PM
Call Received Date:06/03/2002	Time of Call Received:02:42 PM
Material Spilled UNKNOWN PETROLEUM	Spilled Units Unknown Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TURNPIKE	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Unknown	Source: Other Comm/Industrial
Resource:Surface Water	
Waterbody:NONE	
Region Close Date:	

New Search

Region Close Date:06/04/2002

New Search

2002

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:0275119
Spill Date:06/04/2002	Spill Time:12:00 PM
Call Received Date:06/04/2002	Time of Call Received:12:25 PM
Material Spilled	Spilled Units
HYDRAULIC OIL	5 Gal.
Spill Name:BETHLEHEM STEEL	
Address:400 HAMBURG TURNPIKE	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	

[Home] Spills [IHWDS]

New Search

2002

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:0275129
Spill Date:06/10/2002	Spill Time:11:00 AM
Call Received Date:06/10/2002	Time of Call Received:12:41 PM
Material Spilled HYDRAULIC OIL	Spilled Units 30 Gal.
Spill Name:SOUTH BUFFALO RAILWAY	
Address:BETHLEHEM STEEL TRACK 832	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source:Railroad Car
Resource:On Land	
Waterbody:	
Region Close Date:	

2002

Spill Information

New Search	Return to Spills Database Home Page
Region:9	Spill Number:0275236
Spill Date:08/06/2002	Spill Time:08:30 AM
Call Received Date:08/06/2002	Time of Call Received:09:39 AM
Material Spilled	Spilled Units
HYDRAULIC OIL	20 Gal.
Spill Name:BETHLEHEM STEEL COMPLE	X
Address:HIGHWAY 9	
City:LACKAWANNA	
County:Erie	
View Map	
Cause:Equipment Failure	Source: Other Comm/Industrial
Resource:On Land	
Waterbody:	

New Search

Region Close Date:08/08/2002

NYS Department of Environmental Conservation - Home - Site Map - Search [Home] Spills] [HWDS]

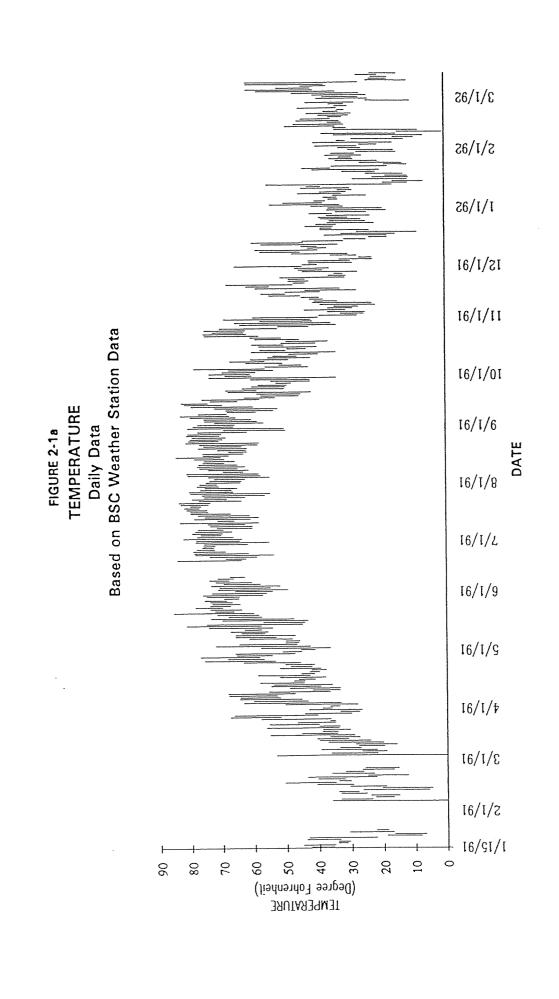
2002

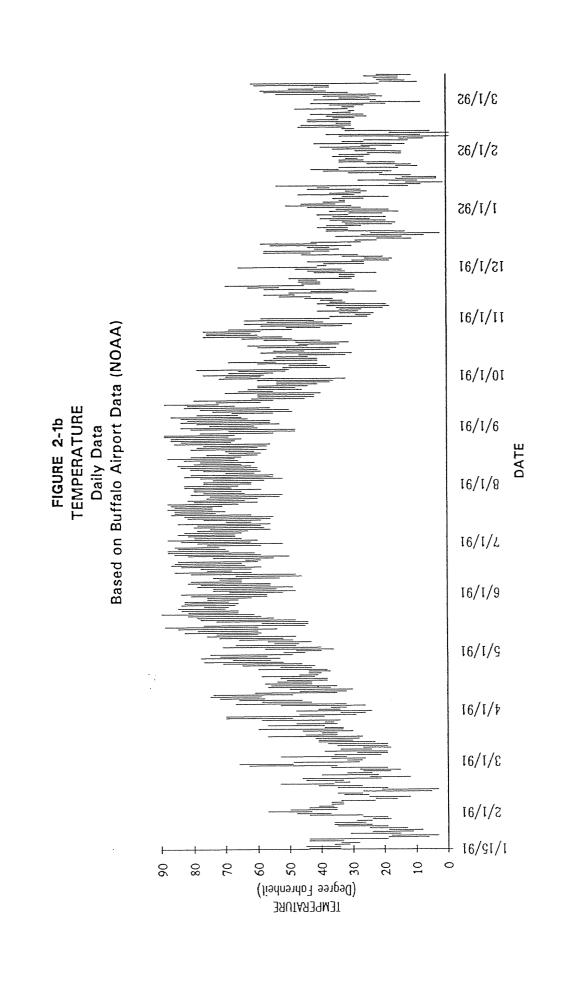
Spill Information

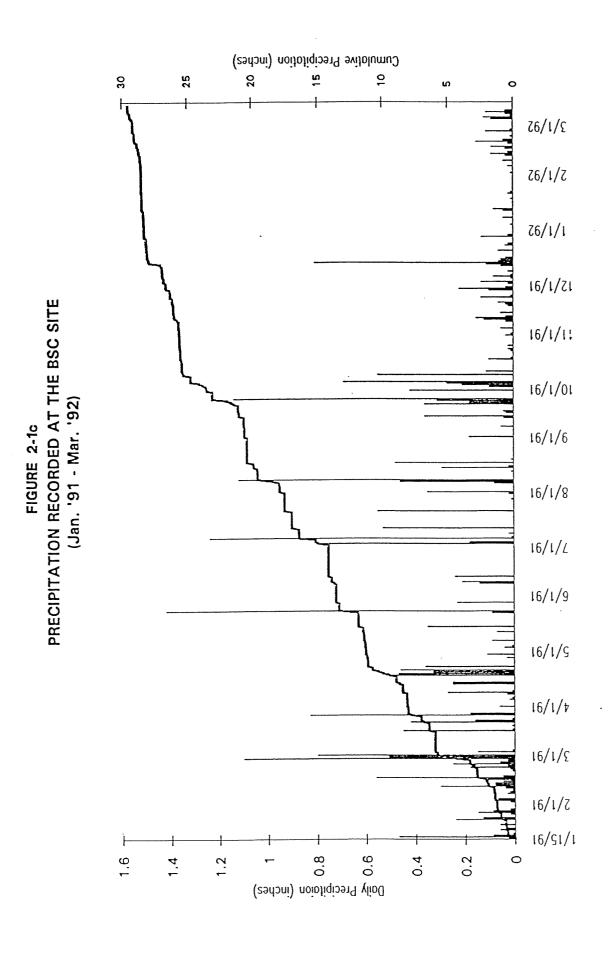
New Search	Return to Spills Database Home Page
Region:9	Spill Number:0110849
Spill Date:02/13/2002	Spill Time:09:00 AM
Call Received Date:02/13/2002	Time of Call Received:02:11 PM
Material Spilled	Spilled Units
OTHER PETROLEUM	50 Gal.
Spill Name:BETHLEHEM STEEL	
Address:1951 HAMBURG TRNPK	
City:LACKWANA	
County:Erie	
View Map	
Cause:Unknown	Source:Other Comm/Industrial
Resource:On Land	
Waterbody:	
Region Close Date:11/15/2002	

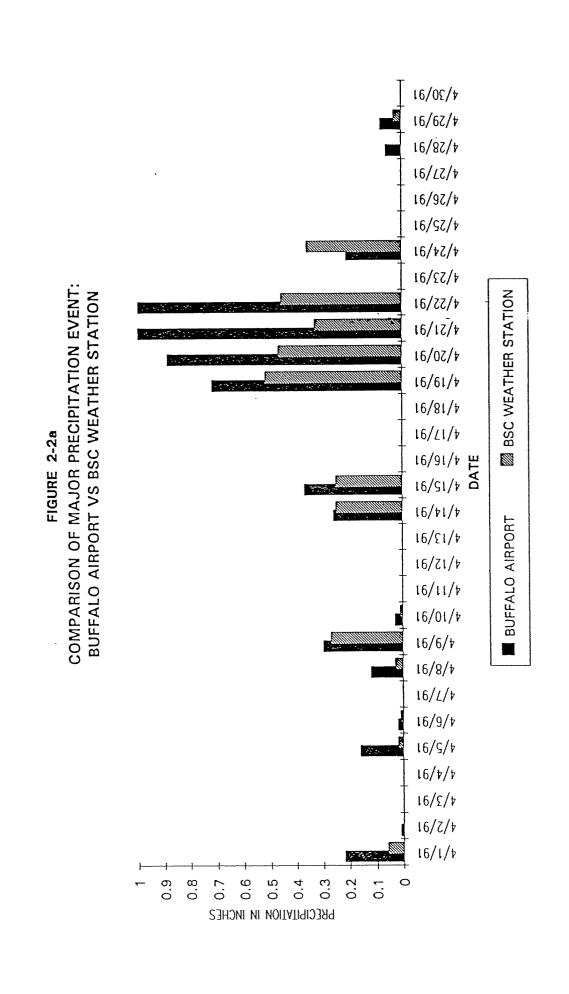
New Search

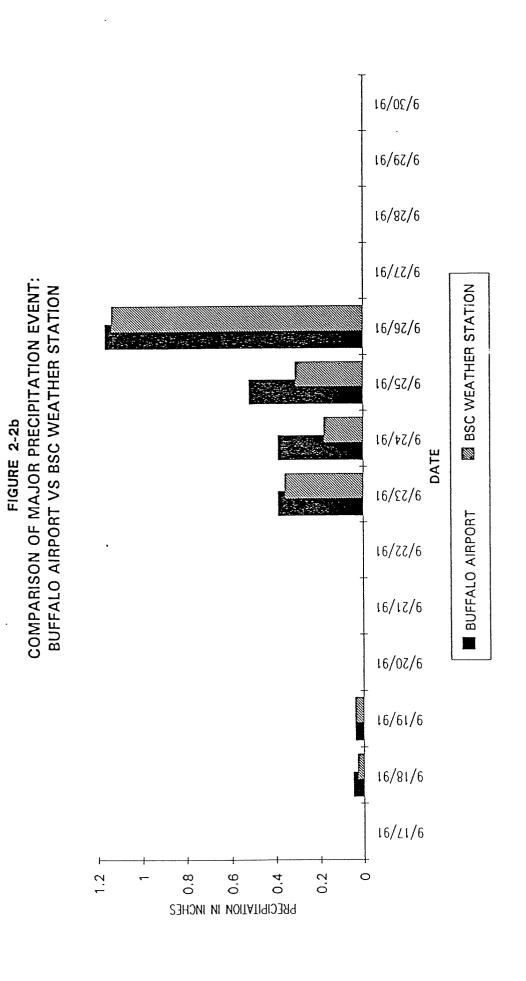
APPENDIX A.3 CLIMATOLOGICAL DATA

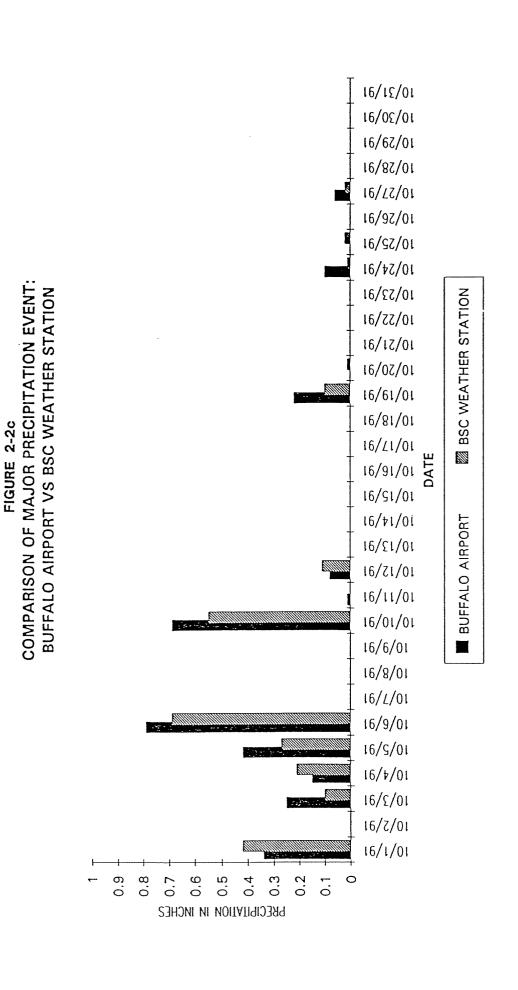


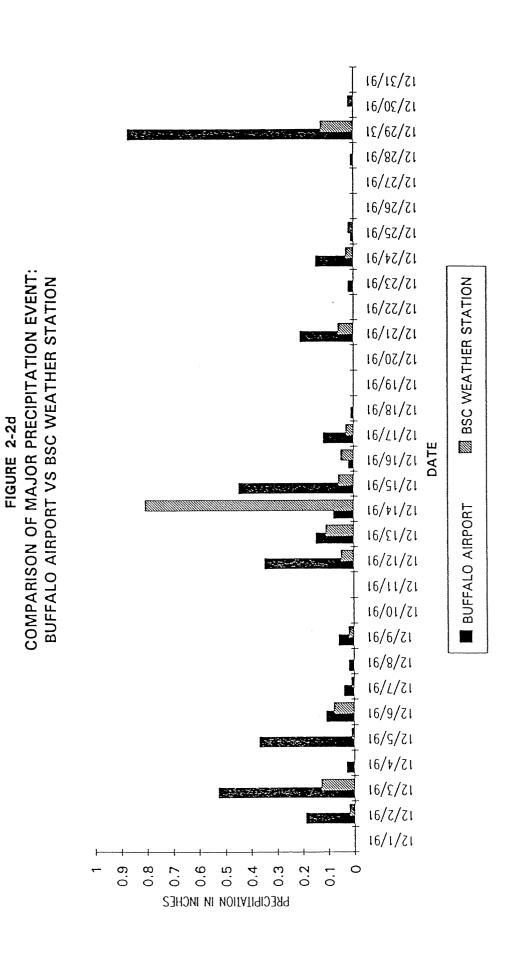


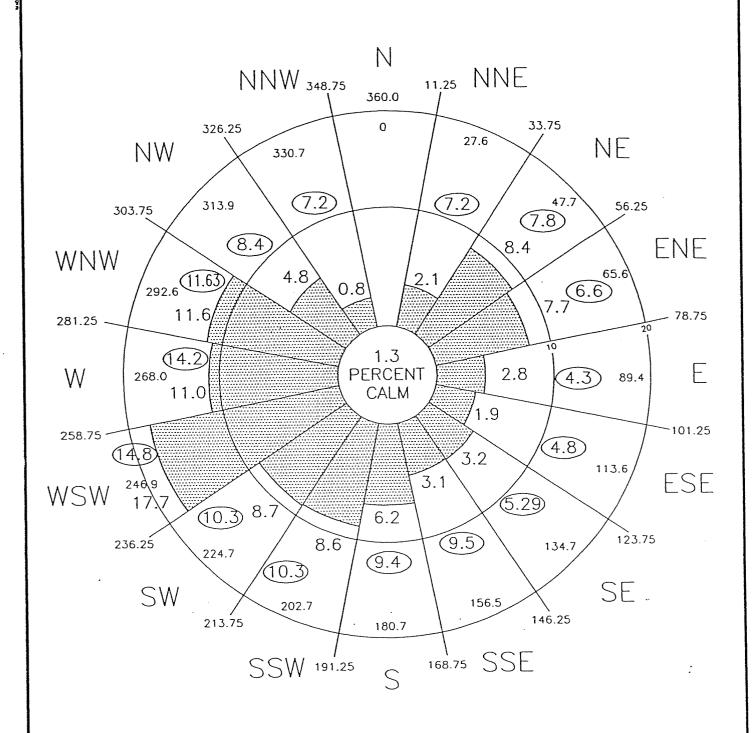












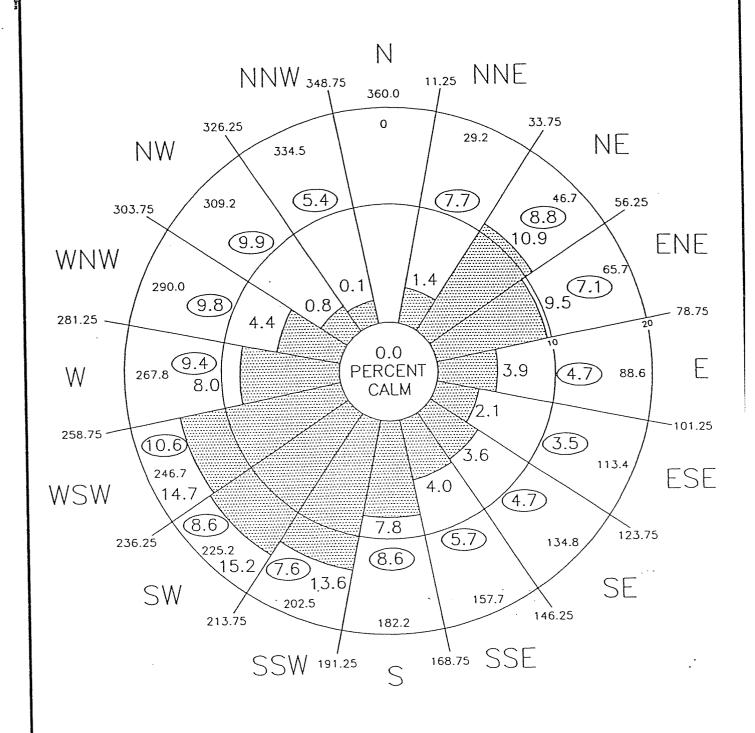
12.9 = PERCENT OCCURRENCE

247.0 = AVERAGE DIRECTION

(12.9) = AVERAGE INTENSITY (MPH)

FIGURE 2-3a

WIND FREQUENCY ROSE
Based on BSC Weather Station Data
January 15, 1991 - March 31, 1991



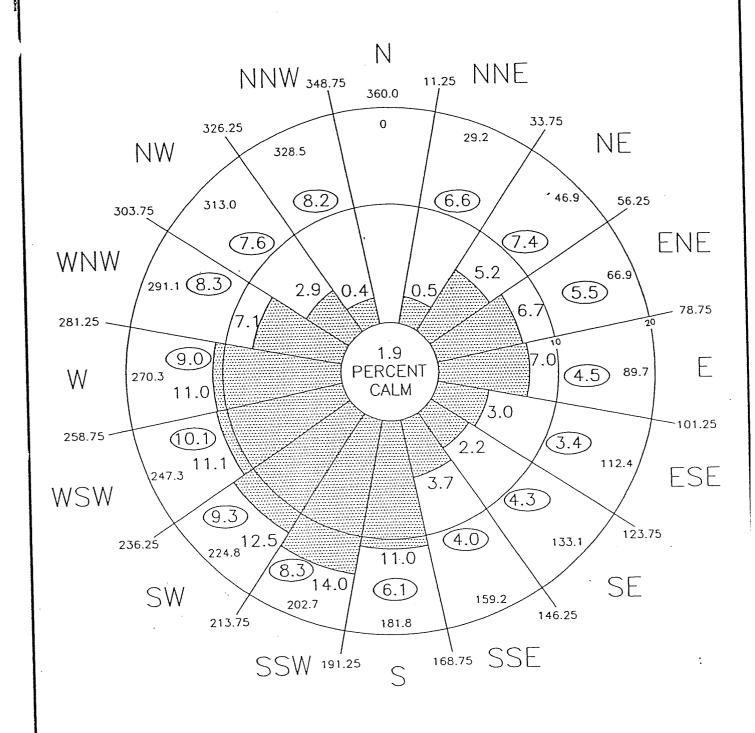
12.9 = PERCENT OCCURRENCE

247.0 = AVERAGE DIRECTION

(12.9) = AVERAGE INTENSITY (MPH)

FIGURE 2-3b

WIND FREQUENCY ROSE
Based on BSC Weather Station Data
April 1, 1991 - June 30, 1991



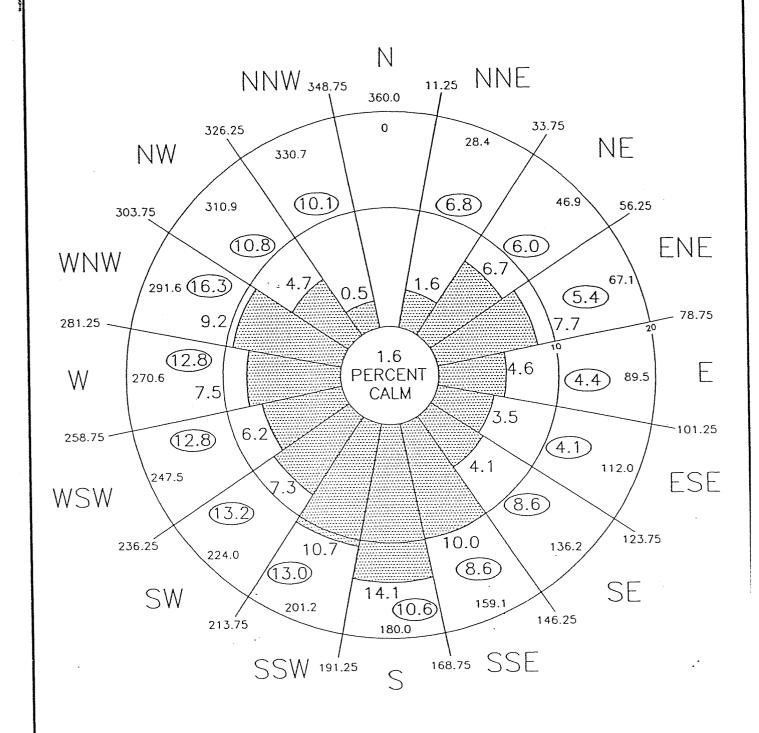
12.9 = PERCENT OCCURRENCE

247.0 = AVERAGE DIRECTION

(12.9) = AVERAGE INTENSITY (MPH)

FIGURE 2-3c

WIND FREQUENCY ROSE
Based on BSC Weather Station Data
July 1, 1991 - September 30, 1991



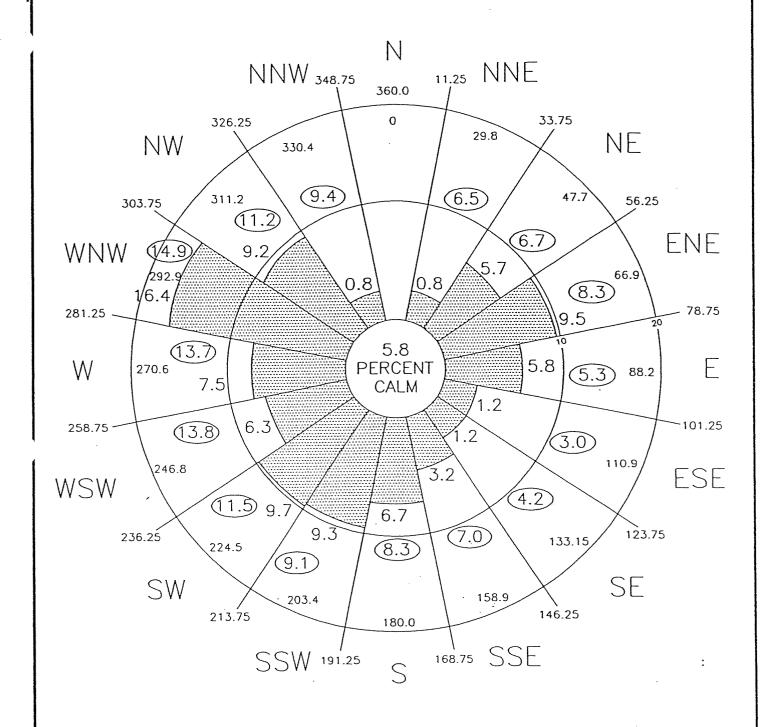
12.9 = PERCENT OCCURRENCE

247.0 = AVERAGE DIRECTION

(12.9) = AVERAGE INTENSITY (MPH)

FIGURE 2-3d

WIND FREQUENCY ROSE Based on BSC Weather Station Data October 1, 1991 - December 31, 1991



12.9 = PERCENT OCCURRENCE

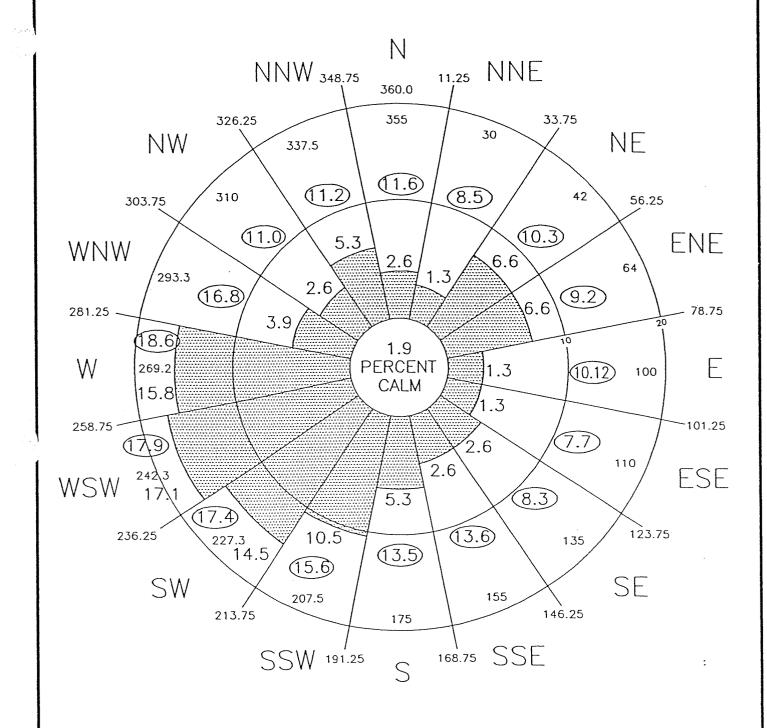
247.0 = AVERAGE DIRECTION

(12.9) = AVERAGE INTENSITY (MPH)

FIGURE 2-3e

WIND FREQUENCY ROSE

Based on BSC Weather Station Data
January 1, 1992 - March 15, 1992



12.9 = PERCENT OCCURRENCE

247.0 = AVERAGE DIRECTION

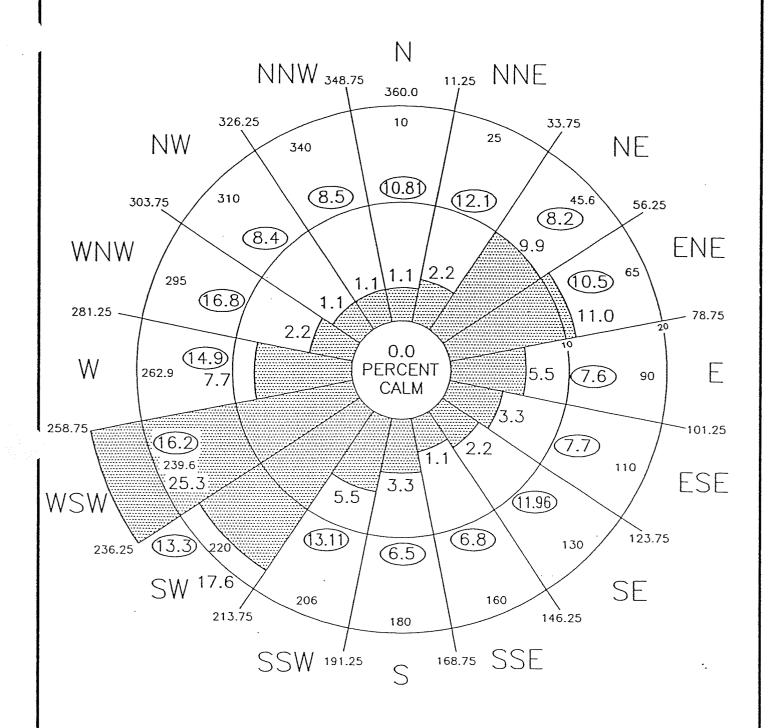
(12.9) = AVERAGE INTENSITY (MPH)

FIGURE 2-3f

WIND FREQUENCY ROSE

Based on Buffalo Alrport Data (NOAA)

January 15, 1991 - March 31, 1991



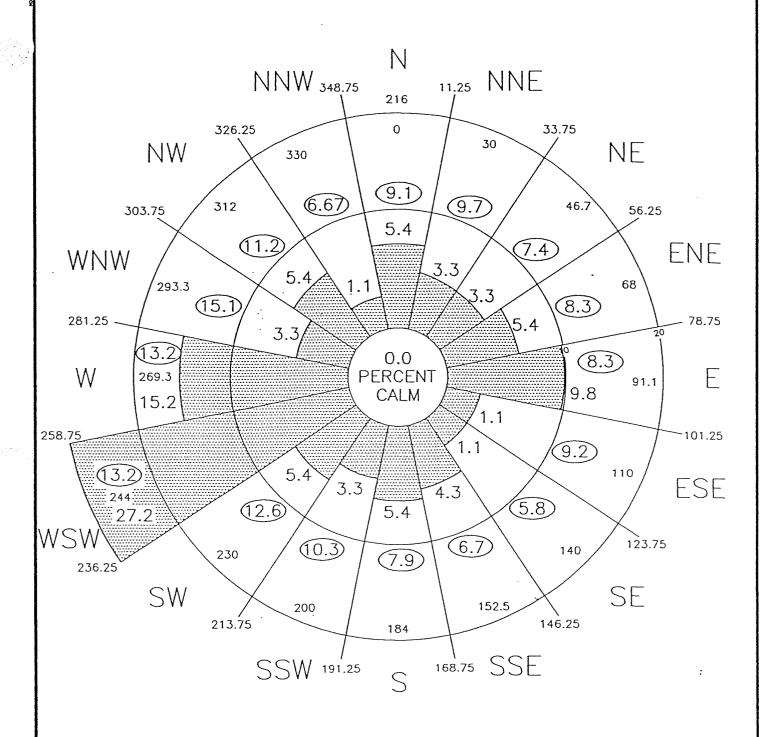
12.9 = PERCENT OCCURRENCE

247.0 = AVERAGE DIRECTION

(12.9) = AVERAGE INTENSITY (MPH)

FIGURE 2-3g

WIND FREQUENCY ROSE Based on Buffalo Airport Data (NOAA) April 1, 1991 - June 30, 1991

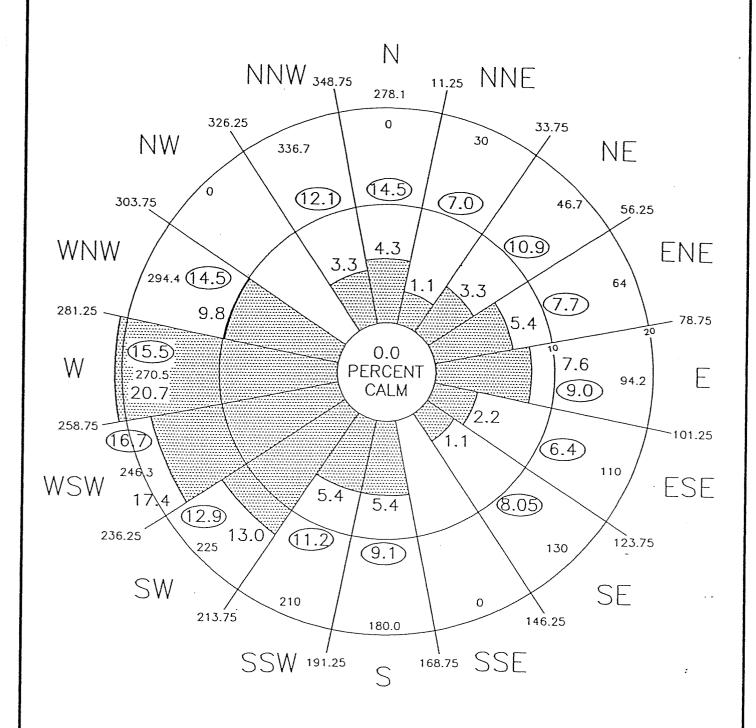


12.9 = PERCENT OCCURRENCE

247.0 = AVERAGE DIRECTION

(12.9) = AVERAGE INTENSITY (MPH)

FIGURE 2-3h
WIND FREQUENCY ROSE
Based on Buffalo Airport Data (NOAA)
July 1, 1991 - September 30, 1991



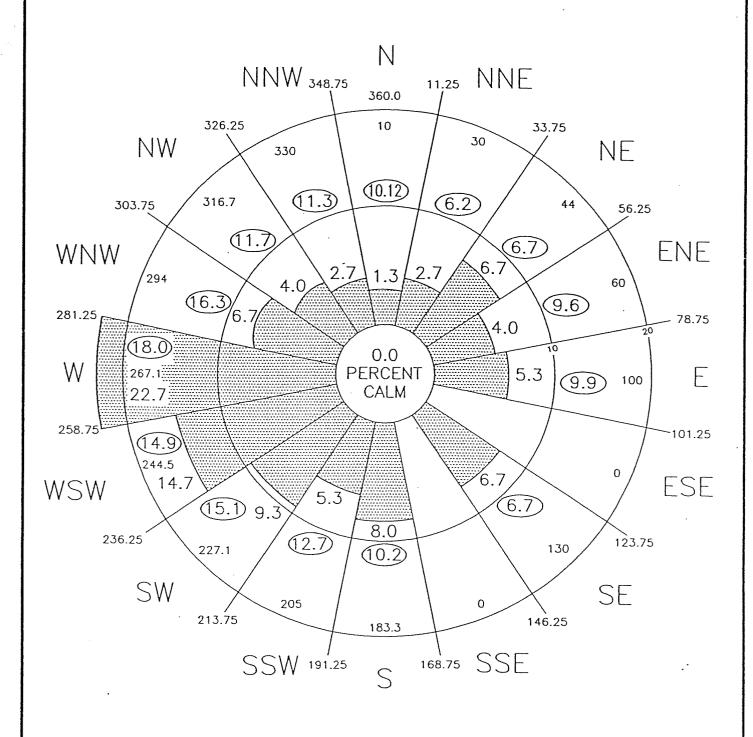
12.9 = PERCENT OCCURRENCE

247.0 = AVERAGE DIRECTION

(12.9) = AVERAGE INTENSITY (MPH)

FIGURE 2-3i

WIND FREQUENCY ROSE Based on Buffalo Alrport Data (NOAA) October 1, 1991 - December 31, 1991



12.9 = PERCENT OCCURRENCE

247.0 = AVERAGE DIRECTION

(12.9) = AVERAGE INTENSITY (MPH)

FIGURE 2-3]

WIND FREQUENCY ROSE

Based on Buffalo Airport Data (NOAA)

January 1, 1992 - March 15, 1992

APPENDIX A.4 POTABLE WATER WELL SURVEY

DATE	13/89		JOB NO.: 😅	0120-195-206
RECORDED BY:	John Boya	DAMES +	OWNER/CLIENT	C Lachywans
TALKED WITH:	Varions !	reckelon	OF	
NATURE OF CALL	: INCOMING 🗆	OUTGOING	PHONE # _	
ROUTE TO:		INFORMATION	1	ACTION
MAIN SUBJECT C	FCALL: POTAL	ale Witter 4	dells	
		a in a succession was 1 and in a succession of the succession of t		
ITEMS DISCUSSE	.D:			11 851-476
- Cots 1	Buffalo - les	Arn Divisi	\sim 0.	
DAVE	SEAN/ 850	1-4715.	Militariet	cons forwells in
Ce	83 ? J	reture	so but de	ed up por
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P	uls so. &	351 -47	6	
Paul	areis WAR	En Sugure	a. Dint	knowly my
111	ate in		sulik liss.	a well can't
	Now wes:		, , , , ,	usoed an
	nex to fr	whe szar	11.1.1.	THE FINSTER
oth	in resource	Hous.	and y	John Finster 767/-
	ine Ctz He	eth de	ept. 008	76+1-
		• .,		

RECORD OF TELEPHONE CONVERSATION
DATE: 1/27/97 TIME: 100 JOB NO.: 00120-195-20160
OWNER/CLIENT: 15 WAR NOW 1
TALKED WITH: Port EHIMICE OF EHMICE WILL dullen
NATURE OF CALL: INCOMING OUTGOING PHONE #
ROUTE TO: INFORMATION ACTIONS
MAIN SUBJECT OF CALL: 1NFD on Buffalo-PITTSbone RR WATER WEN
ITEMS DISCUSSED: Schulled a Roch well for Biggets Pitshing RR Rait
Year Mother works belle Dum ander
year / no own was so was 20 items nowlessent
Except Sport Chris a pring of the
3 Dock Lill well for he borless 2 15-20 year ogs villaden
Sport will stay to the for first him Cheese
used the conducate from the bottoms for sons of
5 + Mile James Co 2375 S Cal AVE. 823626
Milling Collection
Between Ridge + 136. PAST Grane Man
- PAS (Simulation)
15 Wells AWAY STIPIN
Engineering -
in consider with and one site will
Denne Stopin Ext. 499 - we had water well and one 5:45 well in putst. Taken out of serves at least 10 yrs ago - all Copper
in fits T. Taken and of actives to see the
Dames & Moo

117.1 (12/90)

RECORD OF TELEPHONE CONVERSATION JOB NO .: 00 120 - 45 - 2060 JOhn Boy DAMES + MOON OWNER/CLIENT: BSC LACK HU HUND ARgone - See below PHONE # INCOMING □ OUTGOING NATURE OF CALL: **ACTION** INFORMATION **ROUTE TO:** MAIN SUBJECT OF CALL: POTABLE WATER WELLS ITEMS DISCUSSED: Hamboures (Villines of) Dich Cano Dich Caus - 27 yrs in Blog dept. Do NOT Know of any conneced walls. I live in What of franking. Alost of Josephan had public linter for years. There could some wells for non potable uses but I can't tell you for sure. No Meands available Rich Cardo - Do years with Engineering dapt. Du records I wello available. I suspect everyone is un potable -muniquel mater. There may be some wells lest don't reall 12mon. North part of 70mm has had public mosts for years . 5 years both, put in with lines worth Soules Road. let Seneen Engeneen dept. 6745600 Bldg+ 1/ Cembry 6745600

DATE 25/99			JOB NO.: <u>2</u>	120-195-2060 C Cach Awyn
RECORDED BY: \(\sum_A\lambda\) TALKED WITH: \(\sum_A\lambda\)	Tun Box	DAMES - MOSEWA	IER/CLIENT: <u> </u>	C Cach AWM.
HECORDED BT	11116 - See	lector		
		OUTGOING		
NATURE OF CALL:	INCOMING		1110142 "	
ROUTE TO:		INFORMATION		ACTION
MAIN SUBJECT OF (CALL:			
ITEMS DISCUSSED:			Day he	en I day
- for	anguno	in , luto	1 1	0.0
_ Dil	call bod	if I Muni	en Jany	
				•

DATE:_	1/13/49 DED BY: 1/2	TIME	•		JOB NO.:	: <u>00</u>	120 195	2060	
RECORE	ED BY:	5 len By	egel DAME	OWNER -	CLIENT	BSC	>		
TALKED	with: <u>Va</u>	yons-	see be	low_OF	:	,			
NATURE	E OF CALL:	INCOM	IING 🗗	OUTGOI	NG 🗹	PHONE	Ξ #		
ROUTE	то:		INF	ORMATIO	N		ACTION	S	
		_				<u></u>			Province of the second
		_					Autoria de la constanta de la		
		_							
MAIN S	UBJECT OF	CALL:_\	OTABLE	lue 9	/ WELL	WATES			
ITEMS D	DISCUSSED: _		-						
	e County	Dept-	1. Heal	۲					
-Ron	Cachia	858C	7677						
/(NOT AWAR	ed Do	off res	Ancetra	u to p	NUAR	possol &	well.	There
n	way be	restri	eture !	imposed	by The	c Tou	ns or	NATER	Futhori.
Duch	CROAD E	ingwee	n. Sne	: Courty	WATS	r Hul	hority	685 8	25/
,	WATER AL	ThonTy	does No	of pro	hibet	well	but	will No	[C. C. R. A.
Alle	wang we	U to	becom	estas	70 Th	a Mo	INICIPAL 1	WAYEL	39372
We	do NOTH	BNT W	rdl mas	or gei	TING U	wto /	Le COVI	with or 1	
1	gstlur. Ach 4 WARM	NOT	AWAR	ed am) pu	iste	wells,	m /h	- 01
	Ach 4 WARM	VA, HO	unb ung,	5.134	sh a	rea /	lut 1	rune ce	ned /
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	Ven on	- /M	stim.		1.1	- V	and to	to The	
) de Kr	m g u	t 1	nus	1	ANCA	sta /	haulla	Olugo
***	south o	ind e	ass in	· orcas	/))		
	et c.				<u></u>				

TELEPHONE CONVERSATION JOB NO .: 00120-195-2060 RECORDED BY: JOHN BOYD DAWES + MOON OWNER! OWNER/CLIENT: TALKED WITH: See below OF OUTGOING PHONE # INCOMING □ NATURE OF CALL: **ACTIONS INFORMATION ROUTE TO:** MAIN SUBJECT OF CALL: POTABLE USE of WELL CHIER ITEMS DISCUSSED:

DAMES & MOC

Pg 20/2

Dames & Moore

RECORD OF TELEPHONE CONVERSATION JOB NO .: 00120 -195-2060 TIME: RECORDED BY: Tohn Boyd noon OWNER/CLIENT: BSC TALKED WITH: JOHN FWSTER OF Eric CTY DOH OUTGOING PHONE #858-7671 NATURE OF CALL: INCOMING □ **ACTIONS** INFORMATION **ROUTE TO:** MAIN SUBJECT OF CALL: Yotable use of well WATER They put in a well because The e NOT a Community system beenes 25 people on a regular basis. mark the TAPS " Non pots no meaned duch be hoter Dashed the glast well records. He indicated that There may be record of older will prever wills but it and be a on a CASE by Case (Hornely Horne) GASIS. Time consuming to get the dostA. He ded indicate That of a house is on a well and septie They have to be TESTED during preperty from another possible some of clist A. Tolubehend That within 3 miles 1 35C There are no well only public water. Came in Aport 50 - 60 year ago

	DATE: 1/15/28 TIME:	JO	B NO.: <u>00/2</u>	0-195-2060	
	RECORDED BY: John Boy	DAMES OWNER/C	LIENT: BSC	Cochawanny	
	TALKED WITH: VARIOUSE &	(SEE below) OF_			
	NATURE OF CALL: INCOMI	NG OUTGOING	PHONE	#	
	ROUTE TO:	INFORMATION		ACTIONS	
					 -
	MAIN SUBJECT OF CALL:				
			Marth 1	101/ 1/2 / 2 D. = 1	
امل	ITEMS DISCUSSED:	-SamTARIAW/	MANEURA 1	OH Horabuse Distri	4
الجالا	SEORIC Sether.	soul paras I	Know all	are on poloke	
	water- IN EU.	Aus a fluth	mes on c	vells.	
	Highen acres	Softe hut pela	ho hutta		~ · · · · · · · · · · · · · · · · · · ·
			. // /	7	
	Jam sure The	e are wells	in Hauler	ry Sut New Alsande	enel
	afler on gorge of	18 mile Creek	Thy	got public to	-
	in last flu year	no-About 5 ye	ins ago.		
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	16 plus med	al for wells.	If ywa	reselling your	
	properly une	- Gill regime	That you	hook up to public	
- est	fet Suce 1972 -	Whater Ja The LINE	- 600 Ht. 4	- Then a hardship;	rro
1					
	andistrict does	E G le he d	. Haulty	602 (102	
	Januarth DISTACT	Land is warren	2 Milli	Clus DEAMANS	<u>-</u> Д.С.
; ` *	Norther Destant	(10 mm nawlis.	ces (met)		_ !~
	***************************************			Del20, John Sy	

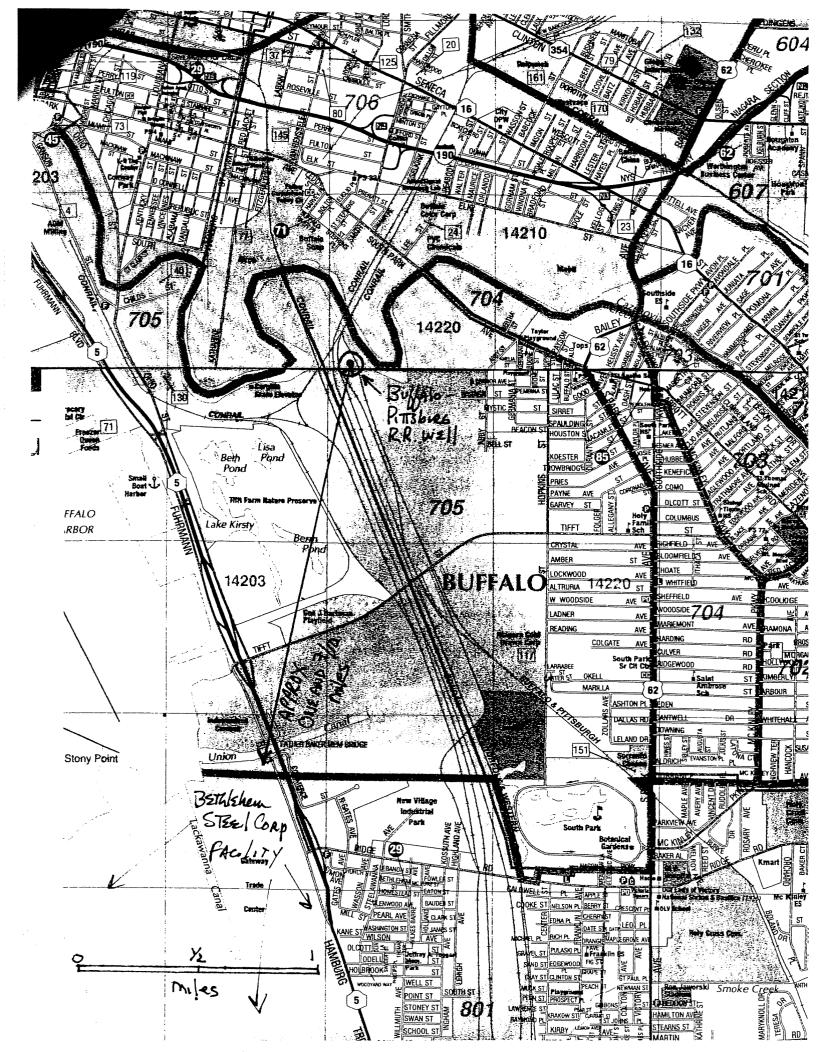
RECUI	ND OF TELEPHONE CO	IVERSATION
DATE: 1/2099	TIME: 1/30-1200 JOB NO.	
RECORDED BY:	1. Boy More OWNER/CLIENT	r: <u>SSC</u>
TALKED WITH:	was see below OF	
NATURE OF CALL:	INCOMING OUTGOING	PHONE #
ROUTE TO:	INFORMATION	ACTIONS
MAIN SUBJECT OF C	CALL: PETABLE WO of WELL	ATER
ITEMS DISCUSSED:		Sie CTy
GENT DEG	MAN 87970	70 DOH LANCUSTER DIST.
	683 64	87
Called Gene	To see if he knew of as	y wells in The Lock Aussung
aren and an	y restructions to well on	nership in areas of prublic
mater.		
dunne	range - had a pre	ente Supply -
men (achis wanning / W. Slul	en Border out of
busiNESS.	Of ALBOT ROAD.	•
	an Luch AWANA / W.	Slucen border.
aff Redy	Rd ven Throughorg.	- a little south.
How alout o	Slicy of booking up wells +:	- a little south. Septic to lity Sewer When home
Sold? Rule &	DT Absolute:	1
		To pool up to sever
36 2	well + it fails,	you have to bosoh up.
- bre dow	thane records - ya	I would found out
only by	secilent - we	hen stoom them
only by and	ident.	
, W.		

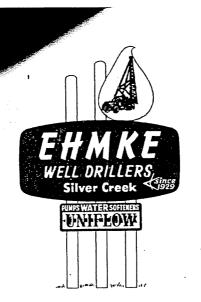
DATE: 1/20/29 TIM	IE:JOB NO	0.:00120-195-2060
RECORDED BY: JOhn W.	DAMES TOWNER/CLIEN	NT: BSC. LACKAWAUNA
TALKED WITH: VARJOUR -	-See helm OF	
NATURE OF CALL: INCO	MING D OUTGOING	PHONE #
ROUTE TO:	INFORMATION	ACTIONS
MAIN SUBJECT OF CALL:_	Potale une guell	WATER
ITEMS DISCUSSED:		
We have 1	evords but you is	reel an address. Aug iles + There are by (adiv address
Known well would be	in om Sewer lives of	iles + There are by (adiv address
- 4		ello, Try Die
- Richard Rin	R. 851 7070	
10100	Cother	home The driving range mantioned
1/2/194	45DEC	
Kidnad Klinh' -	I de NOT (Cur	no any Alcordo. or
- of any wells is	in The dren-	

/ RECORD OF TELEPHONE CONVERSATION
DATE: 1/18/98 TIME: 1/30 JOB NO.: CO 120-195-2060
RECORDED BY: J. Boyd MEDI OWNER/CLIENT: SSC
TALKED WITH: Vayan seehelaw OF
NATURE OF CALL: INCOMING OUTGOING PHONE #
ROUTE TO: INFORMATION ACTIONS
MAIN SUBJECT OF CALL: BILLIE WATER WELLS
ITEMS DISCUSSED:
Tim Donahure SBRR - Called to ash praintact of litislum Beford RR, Biffolo PITIShing Rul Rond -
He will Ched + Call bach
- 10 mar
Called Jim antanusky 19/1999
826-6088. BiffAlo ViTtsbury - Dave Collins
Dich Scerama
Call to Dick Scer. Confirmed well. Go under tiff ST. Know- North
PAST 2 RR Cosning - Took for Block Bldg - ach Seneare for well Cocsim
RAY HA EY - Bradford VA 814-368-83-70.
Driller: ZHAKE ZHMKE Well Drillers
well has been in about one year.
Dry Haley, Brad (ord
Central Bill Gent le avan Ceberren, 17.814726-3552
1 lete 70 wearest water Hain So are port mar well and
also put in hydrat - used for druhing butter and NONFOTAble we
_ testelfor 90 gollangen Well used for 5747in bathroom:
druhing water. and used for engine - Cooland. Whaten
has been TESTED and is OK.

RECORD OF TELEPHONE CONVERSATION Mary OWNER/CLIENT: OUTGOING PHONE # NATURE OF CALL: INCOMING □ **ACTIONS INFORMATION ROUTE TO:** ITEMS DISCUSSED:

Dames & Moore





EHMKE WELL DRILLERS INC.

WATER

TEST BORINGS

INDUSTRIAL - RESIDENTIAL WELL SUPPLIES - WATER SYSTEMS WATER CONDITIONERS

104 MAIN STREET - SILVER CREEK, N. Y. 14136

P.O. BOX 4

TELEPHONE (716) 934-2658

RECEIVED Dames & Moore

February 5, 1999

FEB 9 1999

File#_

ATTN: JOHN BOYD DAMES & MOORE 3065 Southwestern Blvd, Orchard Park, NY 14127

10/27-11/3/1997 prilled Pump installed 11/19/97

Per Panny in a TEl.

THE FOLLOWING IS THE WELL LOG YOU REQUESTED FOR: call on 2/23/99.

BUFFALO - PITTSBURGH RAILROAD off Tifft Street, Buffalo, NY

Depth - 64 ft.

0 - 31Cinders & Grayel

31-81 Yellow clay

81- 591 Blue Clay 59'-60' Water bearing gravel

60'-64' Fint Bedrock

Flow - 50 gallons per minute

Robert L. Ehmke C,E.O.