Report Jarl Extrusions, Inc. Site Investigation Pittsford, New York March 1986

O'BRIEN & GERE

REPORT

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JARL EXTRUSIONS, INC. SITE INVESTIGATION PITTSFORD, NEW YORK

MARCH, 1986



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SECTION 1 - INTRODUCTION

In February 1985, O'Brien & Gere Engineers, Inc., was retained to conduct the following investigations at a location near Rochester, New York:

- 1) locate the two former waste water impoundments and
- evaluate the impact of two abandoned impoundments on the site soils and local ground water system.

The site, owned by Jarl Extrusions, Inc., is located Northwest of East Rochester on Linden Avenue in the Town of Pittsford, New York (Figure 1). This report presents the results of the site investigation.

SECTION 2 - BACKGROUND

The site, owned by Jarl Extrusions, Inc., is located in Pittsford, New York. Figure 1 illustrates the location of the site with respect to local natural and cultural features. The site is bordered on the south and west by several light industrial complexes. A large wooded ravine is located on the northern part of the property. The Signismondi Landfill is located on the property immediately to the east of the site. Surface water flows north to Irondequoit Creek, which flows north into Lake Ontario.

Jarl Extrusions, Inc., formerly utilized two surface impoundments for waste water retention from a metal finishing facility (Figure 2). An estimated 200,000 gallons per year of wastewater, generated from the processing plant, was pumped to each impoundment via underground pipes. No information is available on the construction of these lagoons, although historic aerial photographs suggest that they were located in an area of natural depressions. The impoundments were active between 1963 and 1976. In 1980 the impoundments were backfilled, graded and seeded.

A previous investigation of the surface impoundments was conducted by LaBella Associates, P.C., July 1982 (Appendix F1). This investigation, subsequent correspondence from the New York State Department of Environmental Conservation (NYSDEC) (Appendix F2) and LaBella Associates informal response to the NYSDEC April 23, 1983 letter (Appendix F3) were reviewed. The LaBella report indicates that greater than 99.7% of the total chromium from the samples collected is in

the trivalent state. This report also indicates that EP Toxicity test results show that the three samples analyzed contain less than 0.05 mg/l total leachable chromium and therefore that the buried sludge is nonhazardous. The report information was used to define this current investigatory effort. Concerns and recommendations identified in the LaBella report and subsequent correspondence have been addressed to the extent possible in this current report.

In addition, NUS Corporation, an USEPA Contractor, inspected the site in 1984. The inspection report was reviewed as a part of this study (Appendix F4). NUS collected soil and sediment samples, but this data was not available as of the date of this report. The NUS samples were split with Jarl and were analyzed. The results of these analyses have been reviewed and are included in Appendix F5.

The site is listed on New York State's list of inactive hazardous waste sites, as is the adjacent Siquismondi Landfill. NYSDEC's December 1984 description of both sites is included in Appendix F6. The Jarl site is classified "2A", indicating that more information is needed. One of the purposes if this current study was to provide this additional information.

SECTION 3 - FIELD INVESTIGATIONS

Non-destructive work tasks were completed at the site prior to initiation of any drilling or sampling efforts. The results of these task were used to assess the general site characteristics and to help locate the location of the monitoring wells. The results of this portion of the field investigation are presented in Section 4 of this report. This section contains a description of the procedures used to conduct the investigations.

3.01 Background Data and Aerial Photograph Review

Available literature and information on the local hydrogeology and site use were reviewed (Appendix E). Aerial photographs of the site, taken in 1938, 1951, 1966 and 1980, were also examined. The literature and aerial photograph review facilitated reconstruction of the site history and delineation of the former wastewater impoundment information boundaries, provided on the local and regional hydrogeology, and provided information utilized in determining the extent of the geophysical survey and in selecting the locations of the monitoring wells.

3.02 Geophysical Surveys

Electromagnetic Survey – An electromagnetic survey was conducted at the site to assist in determining the areal extent and thickness of soils and other materials in the former waste water impoundments. A Geonics EM31-D Terrain Conductivity meter was used for this survey. The survey grid, measuring 580 by 480 feet, extended beyond the

boundaries of the suspected impoundment area as identified in historic aerial photographs (Figure 2). Conductivity measurements were recorded at 20 foot intervals throughout the grid. The data was then plotted and contoured for evaluation (Figure 3).

Electrical Resistivity Survey - An electrical resistivity survey was conducted to facilitate delineation of the vertical limits of the surface impoundments and to delineate subsurface stratigraphy at the site. The survey was conducted using a Bison 2390 T Transmitter and 2390 R Receiver. A Schlumberger array was used on each of the nine survey soundings.

Nine vertical profile survey lines were conducted; eight through the former wastewater impoundments and one adjacent to the impoundments (Appendix A). The data evaluation was facilitated by a computer program developed by A.A.R. Zohdy (A Computer Program for the Automatic Interpretation of Schlumberger Sounding Curves Over Horizontally Stratified Media, 1973, NTIS PB 232703).

3.03 Monitoring Well Installation

Five soil borings, completed as ground water monitoring wells, were drilled on the site (Figure 2). Monitoring well locations were selected so as to provide upgradient and downgradient monitoring locations outside of the horizontal extent of the former wastewater impoundments. The review of background information, maps, aerial photographs and geophysical surveys provided the information upon which monitoring well locations were selected. Each boring was drilled

using a standard 3-3/4 inch ID hollow stem auger. Soil samples were collected and described in the field by the supervising hydrogeologist from each soil boring. Samples were collected at five foot intervals in the unsaturated zone and continuously in the saturated zone. Soil samples were collected using a split-barrel sampler (ASTM Method). Laboratory grain size analyses were performed on selected soil samples to verify field observations. The boring logs and grain still analyses are included in Appendix B.

Ground water monitoring wells were installed in the soil borings to provide information on the direction of ground water movement and to provide ground water sampling points.

The monitoring wells were screened in the zone of first encountered ground water, as described in the NYSDEC Generic Phase II Workplan, between 5 and 22 feet below the ground surface. Each 10 foot screened length was placed within the saturated clayey silt material found beneath the site.

All ground water monitoring wells were constructed of 2-inch ID, flush-joint threaded, 0.01 inch slot, schedule 40 PVC well screen and casing. The casing on all wells was extended approximately 2 feet above the ground surface. A locking protective steel casing was installed to prevent unauthorized entry.

The method of well installation consisted of lowering the screen and casing assembly into the hollow stem auger to the selected screen depths. A graded washed silica sand pack was placed around the well screen and extended to a minimum of 1 foot above the top of the screen. A bentonite pellet seal, a minimum of 2 feet thick, was placed

on top of the sand pack. The remaining annular space between the borehole wall and casing was backfilled with a bentonite/cement grout which extended to the ground surface to ensure that surface water runoff will not enter the well via the borehole. Detailed designs of all wells are included in Table 1 and Appendix B. Since the background information indicated that the potential contamination would be limited to trace metals, safety protocols for the drilling consisted of hard hats and gloves.

All sampling equipment, drilling equipment and miscellaneous tools used during the installation of the ground water monitoring wells were thoroughly decontaminated between borings by steam cleaning with soap and water followed by a potable water rinse. This decontamination process was conducted to prevent cross contamination of the wells by the drilling equipment. Drilling and decontamination wastes were left on site.

Following installation, the ground water monitoring wells were developed using compressed air. In general, this procedure involved air surging each well to clear the fine grained sediments from the well. All wells were surveyed for location and elevation with respect to a site datum.

Hydraulic Conductivity Tests - In-situ permeability tests were conducted in three of the five monitoring wells to determine the hydraulic conductivity of the aquifer. Information on the aquifer hydraulic conductivity is necessary for the calculation of the rate of ground water flow. The method used for this test involved rapidly evacuating a

volume of water from the well to create a potential hydraulic difference between the well and the surrounding aquifer. The rate of recovery of the water level in the well was then monitored over time. Values for the hydraulic conductivity were then calculated using Hvorslev's formula.

3.04 Ground Water Sampling and Analysis

Ground water samples were obtained from four of the five monitoring wells on two occasions; July 5, 1985, and July 23, 1985. On October 25, 1985, an attempt was made to collect a third round of ground water samples; however, insufficient water existed in wells B3, B4 and B5 to collect samples. Therefore, no samples were analyzed. Prior to sampling ground water, elevation measurements were made on each date. During the first two sampling events, monitoring well B-5 lacked a sufficient volume of water to collect a sample. Monitoring well B-4 lacked a sufficient volume of water to completely purge the well prior to sampling. However, despite the inability to completely purge the well, water quality samples were collected from this well. With the exception of well B-4, prior to sample collection, three well volumes were removed from each monitoring well with a stainless steel bailer. The wells were allowed to recover and the samples were collecting using a clean stainless steel bailer. Samples were collected in containers with appropriate preservatives and placed on ice for shipment to the O'Brien & Gere laboratory for analysis. Chain of custody procedures were observed.

Ground water samples were filtered in the laboratory and analyzed for total chromium, hexavalent chromium, nickel, copper, cadmium, zinc, mercury, and lead. The analyses for chromium, nickel, copper,

and zinc were selected based on the known processes and materials used at the facility. Analyses for mercury, lead and cadmium were included due to their occurrence in samples split with an NUS Corporation in September, 1984, although Jarl Extrusions has no record of using these metals at the facility. Total organic halogen (TOX) analyses were performed on unfiltered samples. The analytical methods used were consistent with the methodology presented in the Federal Register - 40 CFR, Part 136, October 26, 1984, and are referenced in Table 2.

3.05 Surface Impoundment Test Pits

Fifteen test pits were excavated on October 25, 1985, to determine whether residual material from the former surface impoundments exists in the soil and to collect soil samples for analyses. The test pits were excavated and backfilled by a backhoe at locations shown on Figure 4. Test pit locations were selected to provide sampling locations both within and outside the former surface impoundments. The test pit locations were selected based on the review of the aerial photograph and the geophysical surveys. The soils encountered in the test pits were logged by the supervising hydrogeologist (Appendix C). Selected soil samples of the site soil and of the black and white impoundment deposits were submitted to the laboratory for analyses of total chromium, copper, cadmium, zinc, lead and aluminum. The analytical methods used were consistent with the methodology presented in the Federal Register - 40 CFR, Part 136, October 26, 1984. In addition, one sample of the black impoundment deposits from test pit #5 was submitted to General Testing Laboratory by NHDD for EP Toxicity testing (see Appendix F7).

SECTION 4 - DISCUSSION OF RESULTS

4.01 Background Information Review and Geophysical Surveys.

Aerial photographs from 1938 through 1951 indicate that the Jarl site was an open pasture until after 1951. The 1966 aerial photos the building complex shallow waste water illustrate and two impoundments. The impoundments appear to be 5 to 10 feet deep. The aerial photos illustrate the two former impoundments backfilled and graded. Figure 2 illustrates the approximate maximum horizontal extent of the impoundments based on the review of the aerial photographs. The surface impoundments were excavated into the native When abandoned, the excavated soils were used to cover the impoundments (LaBella, 1982).

The electromagnetic survey identified the <u>variable nature of the shallow unconsolidated deposits</u> (Figure 3). <u>Electromagnetic variations across the site provided no indication of the locations of the former surface impoundments</u>. The anomaly illustrated along the southern portion of Figure 3 is due to the presence of a steel chain link fence. The anomaly located in the area of southern portion of the eastern impoundment is probably due to the presence of steel fence post stub and concrete debris identified in test pit #14. Therefore, it can be concluded that the accumulated impoundment deposits do not provide a conductivity anomaly sufficient to be distinguished from the native soil conductivity variations.

The electrical resistivity survey delineated the natural subsurface stratigraphy and was found to be consistent with the soil borings (Appendix A). Generally, the sandy soil between 5 and 10 feet thick

was recognized as a higher resistive layer. A 10 to 20 feet thick clayey silt layer beneath the sandy soil was recognized as a low resistive layer. Beneath the clayey silt, a significant thickness of a higher resistive layer corresponds to the unsaturated sand identified in boring B1. This survey also did not detect any evidence of the former surface impoundments.

The fact that neither geophysical survey delineated the horizontal or vertical extent of the impoundments suggests that:

- . Either little or no impoundment deposits currently exist in the locations of the former impoundments; and/or
- . The variations in the natural subsurface conductivities exceed any variation due to the former lagoon impoundments.

The latter case was determined to be correct based on the surface impoundment test pits excavated at a later date.

4.02 Ground Water Hydrology

The site is <u>located</u> within the <u>north-south</u> trending Irondogenesee Buried Valley. This thick sequence of glaciofluvial sediments is an important aquifer for East Rochester. Within the property boundaries, relief is approximately 20 to 25 feet. The elevation of the site ranges between 395 feet and 410 feet above mean sea level. In the surface impoundment area, the topography is relatively flat. Immediately north of the impoundment area the land surface elevation declines sharply towards the northeast. The surface topography proximate to the site consists of sloped hills and valleys, and north-south trending streams. Topographic relief within a one mile radius of the site is approximately 240 feet with the greatest relief existing to the north towards Irondequoit Creek (Figure 1).

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Test borings indicate that the shallow unconsolidated sediments between 0 and 25 feet below ground surface consist of silty sand and clayey silt. Beneath the clayey silt are coarser grained sand and gravel which was deposited by glacial meltwater during the Pleistocene epoch.

The surface layer of material is comprised of brown fine silty sand. This layer varies from approximately 5 feet thick on the south western side of the site to approximately 8 feet thick on the north-eastern side. The bottom 1/4 to 1 foot of this layer is saturated.

Clayey silt to silty clay layers approximately 10 to 20 feet thick underlie the silty sand surface deposit. The monitoring wells were installed predominantly within the clayey silt unit.

Ground water elevation measurements collected on July 5 and 23, 1985, from Wells B-1, B-2 and B-3 suggest ground water flows towards the northwest (Figure 5). This apparent flow direction is not considered representative due to the vertical hydraulic gradients in this area. The effects of the vertical gradient are discussed below. The true horizontal ground water flow direction is probably toward the north and northeast, given the regional topography.

Based on the available site data, the principal zone of ground water saturation occurs within the clayey silt unit. Above the clayey silt between 1/4 to 1 foot of saturation exists within the silty sand. Since the summer months, i.e. periods of low precipitation and ground water recharge, are typically a period of low ground water elevations, it is likely that a greater thickness of ground water saturation exists in the silty sand during winter and spring months. The coarse grained

sand and gravel deposits bereath the clayey silt are unsaturated to a depth of about 65 feet below the ground surface. The low permeable clayey silts are causing a perched ground water condition at the site.

Although Wells B-4 and B-5 were set within the clayey silt saturated of the lack of water in the wells during the three sampling events, suggests a downward vertical flow potential.

The presence of a fairly deep ravine immediately to the north of wells B3, B4 and B5 and the existence of the coarser unsaturated deposits beneath the clayey silt unit supports this hypothesis. This vertical flow potential may bias the horizontal flow determination since the ground water elevation in the wells will equilibrate with the lowest hydraulic head intercepted by the well. Where a downward flow potential exists, ground water intercepted near the top of the well screen will flow down the well annulus and equilibrate at a lower level in the well. This vertical flow potential is the most probable explanation for the lack of water in wells B4 and B5 in July and in wells B3, B4, and B5 in October.

The in-situ permeability tests indicate the horizontal hydraulic conductivity of the clayey silt ranges between 4×10^{-6} cm/sec to 4×10^{-7} cm/sec (8×10^{-2} to 8×10^{-3} gpd/ft²). These values are reasonable for clayey silts.

Ground water samples collected on July 5 and July 23, 1985, were analyzed for the following parameters: total chromium, hexavalent chromium, nickel, copper, cadmium, zinc, mercury, and lead. Total organic halogens were analyzed during the July 5 samples. Table 2 summarizes the ground water quality analysis results.

Trace metal concentrations from monitoring well B-4 probably are not representative of the actual ground water quality due to the limited volume of water in this well. The absence of an appreciable water column, during both July sampling events, prevented the successful purging of the well prior to sampling. As a result, the samples contained fine grained sediments. Filtering of the samples from B4 in the laboratory did not remove all of the very fine grained material. The presence of fine grained sediments can result in analytical results which are not representative of actual ground water quality.

4.03 Surface Impoundment Soils

The soil sampling and analysis conducted via test pits at the site documented deposits from the surface impoundments in the site soils. The test pits extended to a depth of about 8 feet below the ground surface. These deposits were identified at most test pit locations and were varied in color, texture and thickness. Test Pits 1, 2 and 15 did not contain any visual deposits from the surface impoundments. Test pits 3-9, excavated in the area where the former western impoundment had been located, identified separate granular white and black deposits. These deposits occur as zones 2-6 inches thick of interlayered deposits and silt and sand. These deposits occur within about 3 feet of the ground surface. Test pits 4 and 5 also identified a gray to black material containing brick, wood and metal debris and having a "distinctive odor" at the bottom of the pits. Test pits 10, 11, 12, and 14 contain a black material within the silt and sand near the bottom of the test pits. This material occurred in layers 0.5 to 1.0 inches thick 11, 12, 14. In in test pits and test 10, black

material was observed at the bottom of the pit, so its thickness could not be determined. (see test pit logs Appendix C). Analyses of selected samples of these variable deposits suggest that total chromium is the only heavy metal which shows a two orders of magnitude increase in concentrations in the impoundment deposits over the background samples #1 and #15. Lead shows a small, two to three fold, increase over background levels. Copper increases by about two_fold over background in the white deposits, but shows an order of magnitude increase over background in the black deposits. Aluminum exists at significant levels in all samples which may reflect the fact that the analysis is for total aluminum and the sand and clay soils typically contain high levels of aluminum or that non visible deposits of aluminum from the wastewaters may exist in the site soils. There is about a two fold increase in aluminum concentrations between the background samples and the black deposits. The white deposits contain about a five fold increase in aluminum.

The results of the EP Toxicity test on the black impoundment deposits with the "distinctive odor" from test pit #5 indicate that the deposit contained no detectable concentrations of leachable heavy metals.

SECTION 5 - CONCLUSIONS

The site investigation has led to the following conclusions:

- The areal extent of the former waste water impoundments has been determined based on historic aerial photographs;
- The test pits excavated at the site indicate that the former waste water impoundments contain residues from their past use;
- 3. This study and prior tests on the impoundment deposits

 (LaBella report) indicated that the majority of the total

 chromium detected in the samples consisted of trivalent

 chromium, not hexavalent chromium;
- 4. EP Toxicity tests on the impoundment deposits (LaBella report and General Testing Corporation, 1986) indicate that the impoundment residues are not a hazardous waste;
- 5. The volume and/or nature of the residual impoundment deposits do not permit these deposits to be distinguished from the background soils by the accepted geophysical techniques used in this study;
- 6. Ground water occurrence and flow at the site are controlled by both surface topography and the geology beneath the site. Within the clayey silt unit, the zone of first encountered ground water, a vertical flow potential exists due to the presence of a nearby ground water discharge boundary, a ravine, and the presence of coarser more permeable deposits beneath the clayey silt. This vertical flow potential has an impact on the ground water elevations measured in the wells.

- 7. The available information indicates that the horizontal component of ground water flow is toward the north and northwest.
- 8. The hydraulic conductivity of the clayey silts is between 4×10^{-6} and 4×10^{-7} cm/sec, which indicates that the clayey silt unit is of low permeability.
- 9. The ground water quality data is not conclusive. The two rounds of ground water sampling did not provide duplicate results. Although the individual results suggest that the site ground water quality may have been elevated by some source of trace metals and halogenated organics, the data is not conclusive due to its lack of duplication and the lack of sufficient water to collect a representative sample from wells B4 and B5. An attempt was made to collect a third round of samples in October 1985; however, only wells B1 and B2 contained sufficient water to collect representative samples.
- 10. Based on this study, it does not appear that this site presents an acute or short-term threat to the environment.

 Any conclusions about the long term effects must await future sampling and analysis of ground water.

SECTION 6 - RECOMMENDATIONS

The site investigation focused on:

- the identification of the horizontal and vertical extent of the two former waste water retention impoundments; and
- 2) the impact, if any, of the impoundments on the site ground water quality.

As discussed in Section 5, the site investigation identified the extent of the former impoundments. However, the available data is not conclusive regarding any ground water quality impact, if any, of the impoundment. It is recommended that the following additional site investigatory work be undertaken:

Two additional rounds of ground water quality samples and ground water elevations be collected for analysis during a period of higher ground water conditions (spring season). The samples should be analyzed for trace metals, including aluminum, and TOX as in this investigation.

There are two reasons for the above recommendation:

- . the existing ground water quality data is inconclusive, and
- . additional sampling rounds would provide a more substantial data base from which to evaluate the ground water quality and flow direction.

The ground water sampled to date occurs predominately within the clayey silt unit beneath the former impoundments. During periods of expected higher ground water elevations, it is believed that a zone of saturation would exist in the sandy material above the clayey silt. If

this is the case, ground water may be in direct contact with any deposits remaining in the impoundments and as such would provide a more definitive evaluation of the potential impact of the former impoundments.

I certify that I have personally examined and am familiar with the information submitted above this certification. Based upon my own knowledge and upon my inquiry of those individuals responsible for obtaining the information presented, the foregoing information is true, accurate and complete. I am aware that this information is being requested for the purpose of determining compliance with local, state and federal laws and may be submitted to appropriate governmental regulatory agencies for those purposes. I am aware that there are significant penalties for submitting false information to such agencies, including the possibility of fine and imprisonment.

Respectively Submitted

O'Brien & Gere Engineers, Inc.

Edwin C. Tifft, Ph.D

Vice President

Prepared by:

Guy Swenson Senior Hydrogeologist

Robert Foresti Hydrogeologist

David Hill Manager of Analytical Services

Tables



TABLE #1
GROUND WATER MONITORING WELL DATA

			Elev. Bottom	Screen	Hydraulic	Gr	ound water Elev	ation
Well No.	Elev. Casing	Elev. Ground	Of Well	Length	Conductivity	<u>7-5-85</u>	<u>7-23-85</u>	10-25-85
B-1	101.62 ft	99.27 ft	77.79 ft	10.0 ft	6.9×10^{-6} cm/sec	85.52 ft	84.62 ft	81.92 ft
B-2	99.53 ft	96.43 ft	79 . 70 ft	10.0 ft	3.90×10^{-6} cm/sec	89.83 ft	88.85 ft	90. 5 3 ft
B-3	100.29 ft	97 . 91 ft	78.84 ft	10.0 ft	4.0 x 10 cm/sec	82.11 ft	82.70 ft	dry
B-4	103.37 ft	100.19 ft	83.79 ft	10.0 ft	* dry	82.87 ft	83.34 ft	dry
B-5	100.96 ft	98.23 ft	78.94 ft	10.0 ft	* dry	dry	dry	dry

^{*} Monitor wells lacked a sufficient amount of water to perform hydraulic conductivity tests or provide ground water elevation measurements.

TABLE #2 GROUND WATER QUALITY ANALYSIS DATA

Samples taken 7/5/85	We∐ No. B-1	Well No. B-2	Well No. B-3	Well No. B-4**	NYS Ground Water Standard
Parameters					
"Cr Cr Hex Ni "Cu Cd Zn Hg Pb Tox(duplicates)	BDL mg/l BDL 0.07 0.02 BDL 0.10 BDL BDL 13/14	BDL mg/I BDL 0.05 0.02 BDL BDL 0.0056 BDL 93/79	BDL mg/l BDL 0.05 0.02 BDL 0.07 BDL BDL 100/100	BDL mg/I BDL 0.06 0.07 BDL 0.23 0.0013 BDL *N/A	 0.05 mg/l 1.0 0.01 5.0 0.002 0.025
•		•	Method 450.1, To ed by centrifuga		
Samples taken 7/23/85	WeⅡ No. B-1	Well No. B-2	Well No. B−3	Well No. B-4**	NYS Ground Water Standard

7/23/85	B-1	B-2	B-3	B-4**	Standard
<u>■ Parameters</u>					
Cr Cr Hex	0.02 mg/l BDL	0.35 mg/l BDL	0.56 mg/l BDL	1.0 mg/l BDL	 0.05 mg/l
Ni	BDL	0.26	1.10	1.1	
Cu Cd	0.03 BDL	$\underbrace{0.27}_{0.02}$	0.90) 0.04)	0.05	1.0
[™] Zn Hg	0.02 BDL	0.60 0.0007	1.5 0.0012	0.0020	5.0 0.002
Pb	BDL	(0.05)	(0.46)	0.99	0.025

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g/I
-
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^{**}Well B-4 did not contain a sufficient water volume to allow proper purging prior to sampling. Therefore these results may not be indicative of actual ground water quality.

^{*}BDL - Below Detection Limit

Figures

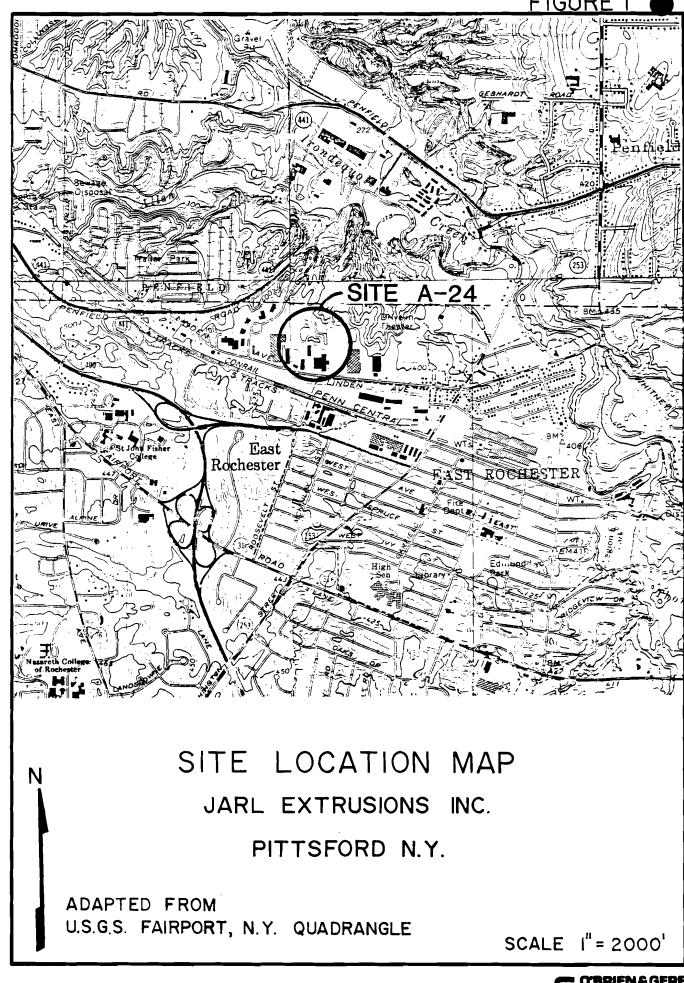
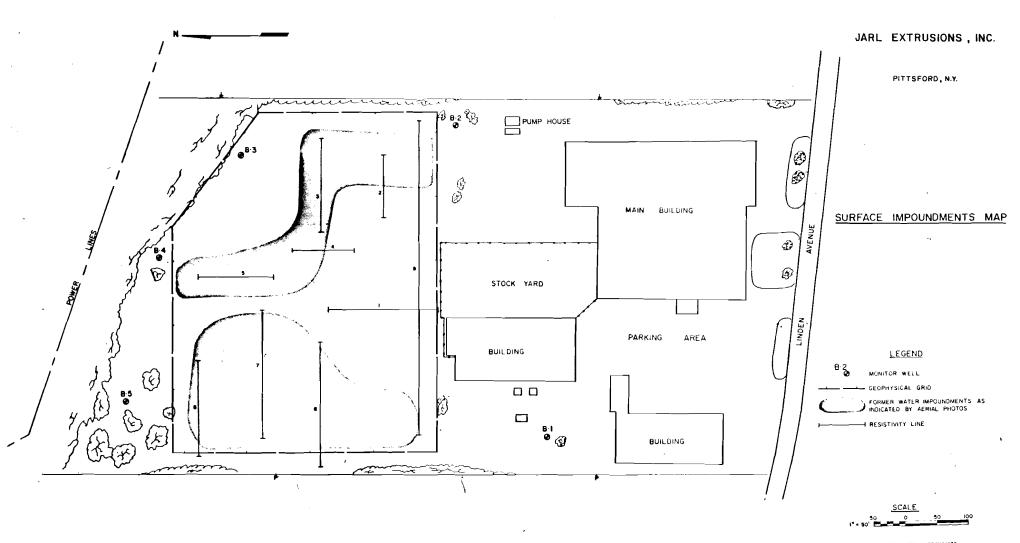
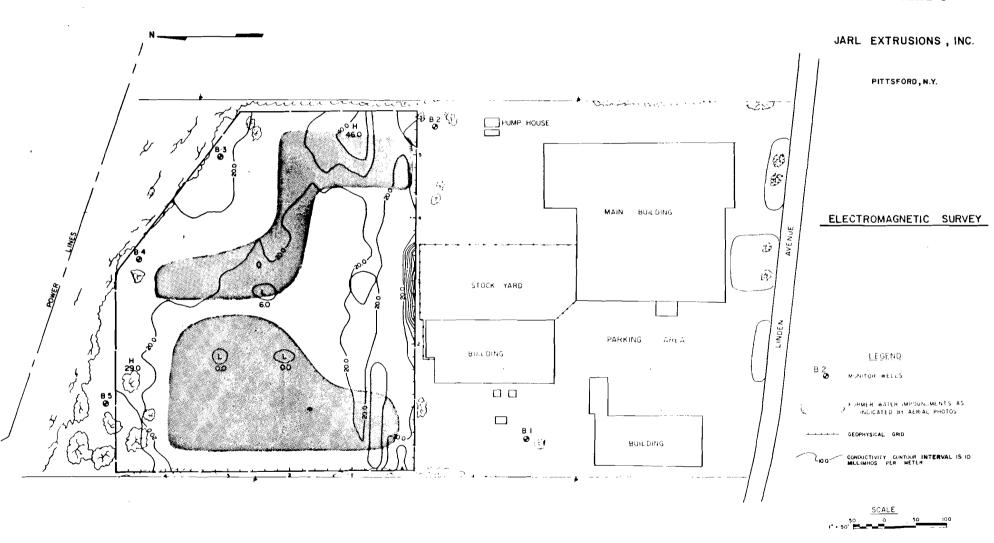


FIGURE 2

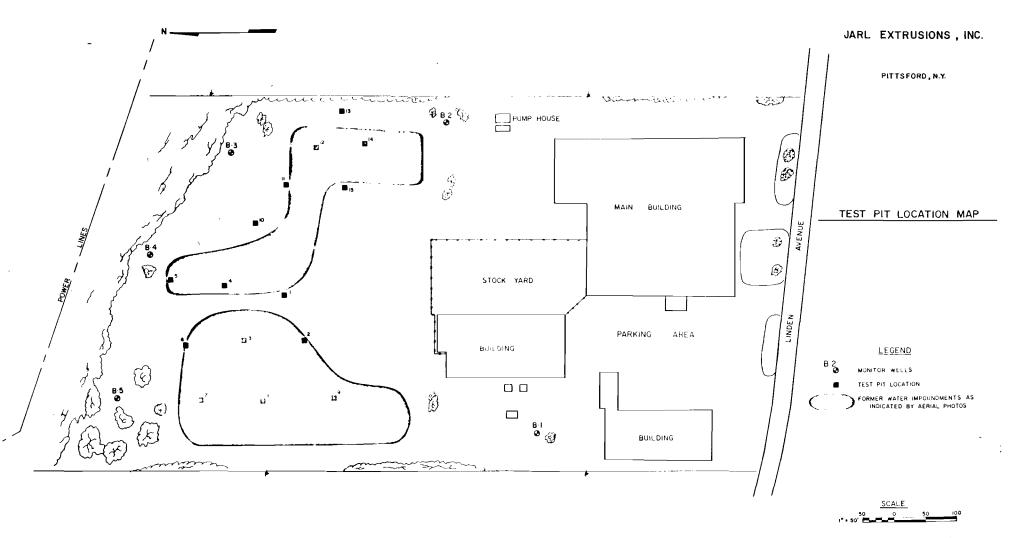


BUILDING AND WELL LOCATIONS ARE APPROXIMATE, BASE MAP DRAWN FROM U.S.D.A. AIR PHOTO NO 36055, 6/80

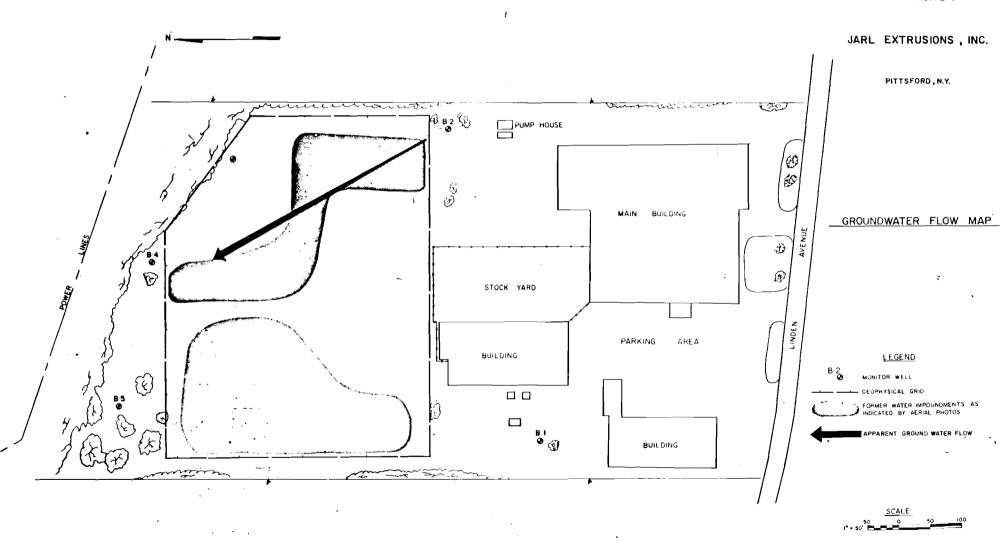
FIGURE 3



BUILDING AND WELL LOCATIONS ARE APPROXIMATE, BASE MAP DRAWN FROM U.S.D.A. AIR PHOTO NO 36055, 6/80



BUILDING AND WELL LOCATIONS ARE APPROXIMATE, BASE MAP DRAWN FROM U.S.D.A. AIR PHOTO NO 36055, 6/80

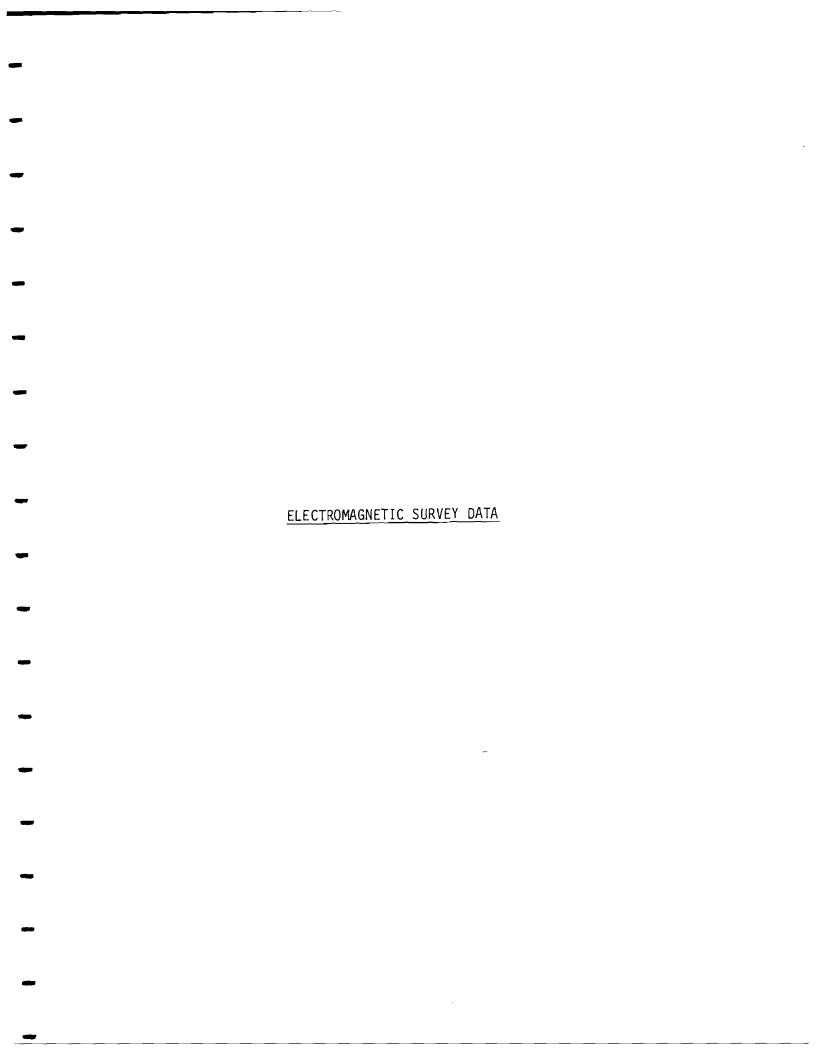


BUILDING AND WELL LOCATIONS ARE APPROXIMATE, BASE MAP DRAWN FROM USDA AIR PHOTO NO 36055, 6/80

Appendices

APPENDIX A

GEOPHYSICAL SURVEY DATA



X Y Reading	5/5/75.00000
•	2/2/.4.02.32
1,1,22.0000	7,3,03,00000
2/1/22.230.33	1/1/14.00
3,1,21.3333	1,1,1,1
-,1,62	1
5,1,0,,000	11 , 1 , 2 , 1
5/1/21.00000	4 2 2 2 2 2 2 2 2 2 2
7,1,22.00200	15.5.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2
11/2-1-2	1
9,1,55.0555	17/./\
10/1/27.00000	(3/.//0.30.55
11/1/27.00000	13/1/2011
11/1/47 • CC DGG 4 2 4 0 3 05002	1//2/4.0.000
12/1/40±23100 4/4 4 7/2 00300	10/3/1. (0000)
13,1,76.00000	19/3/23.0000
1-/1/71.30.333	20,3,27.000 g
15/1/91.70007	21/2/24.2000
13/1/47-00-1-1	12/1/14 . 0222
17/1//**20003	25,3,25.30360
10/1/02.00000	24/3/27.17.32.2
13/1/21.02.20	22,2,34.333.5
20/1/19.00/00	1:/:/
21,1,21.0200	27/3/37.727.7
12/1/24-121-9	24,3,37,02 - 27
23/1/23.00333	19,3,43,300.5
24/1/26.00000	1,4,70.00036
25,1,25.30000	2,4,23,00000
76/1/37.00000	3/-/-31-
27,1,05.00000	4,44,7
2:,1,32.00002	5,-,0-,,000
27,1,40.00000	5/4/25.00000
1,2,24.00000	7,4,27.00000
2,2,24.09300	3,4,37.00003
3,2,24,20.00	14124
4,2,23.70000	10/-/22.757.7
5,4,23,13,23	11,4,27.11.01
5,2,22.00000	12,4,20.00000
7,2,33.33603	13,4,19.86080
<u> </u>	14,4,19.00030
9,2,20.00000	15,4,10.70000
10/2/19.00000	16,4,17.98988
11/2/21.00/00	17,4,0.000000
12,2,24.000000	13,4,1.000000
1372,27.00000	19,4,26.00000
14,2,27,00000	23,4,25.00000
15,2,23.90000	21,4,22,00000
16/2/21.00900	22,4,03.00000
17,2,19,00000	23,4,26.00000
18,2,18.00930	24,4,32.00000
19,2,19,00000	25,4,38.00000
20,2,28.00399	26,4,45,00389
21,2,22.00000	27,4,42.00000
22,2,23.00000	23,4,40.00000
23,2,26.00000	29,4,42.00000
24,2,23.00000	1,5,17.30000
25,2,31,00000	2,5,17.03000
25,2,33,00000	3,5,19,00000
27,2,34.00000	4/5/21.00000
25/2/34.00000	5,5,23.00000
27,2,32.00000	5/5/24.03030
1,3,22.00000	7,5,24.00000
2,3,22.00000	3,5,25.00000
3,3,22.00000	9,5,25,00000
4,3,23.00000	10/5/22,00000

X Y Reading	
11,5,25.50333	17,7,19.0.2.2
12/3/15.00010	10,7,47.000,0
15,5,21,77,77	19.7.17.77
14,5,12,2,2	7.15
15.112.7.3	34 7 15 252 C
15/1/17 0 = 1/2	
17/8/21.00000	
1//5/16.00000	24,7,26.0032
1 - / 2 / 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	25,7,32.00.000
2./3/23.00000	2017/39-22-702
21/5/17.00 100	27,7,-3.503
32,5,22,20,20	25,7,32,212,3
25,5,25.00300	29,7,34.00000
24/5/32.00000	1,3,14.88888
23,5,4,3.00000	2,8,14.00030
33/5/++.00000	3,2,14.00000
27/3/+0.2020	4/3/10.0000
2,75,+2,70017	5,1,1,0,000
32,5,3	1 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
1 7 7 7 7 4 7 4 7 4 7 4 7 4 7 4 7 4 7 4	7/0/14 = 6 = 6 d 6 d 6 d 6 d 6 d 6 d 6 d 6 d 6
1,5,17.000.00	7,3,14.00000
2/5/17.32232	1,1,1,4,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1
3/0/10.00000	7,7,10.00102
4/5/15.3009d	10, ,15,00000
5,0,19.00000	11,4,15,0000
5/5/16.00000	12,0,16.0000
7,6,19.33030	18,0,17.00000
3,6,21,00000	14/3/17.03030
3,5,52,03030	15,17,500
10,0,22.00001	1 1
11/0/24.00013	17. 17.7000
12/6/23.00000	15.5.12.25.350
47 4 77 60300	47 00000
1 1 2 3 1 0 1 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17/ / # · UUUUU
1 - 1 3 / 3 4 2 3 4	
13/3/2000	41//12:
18/8/14.00000	24,5,30.00000
19/6/17.88888	25,8,33.00000
<u> </u>	25,8,33.00000
21/5/17.00000	27,8,30.00000
22/6/13.00000	23,4,33,00000
23/6/22.00300	29,2,20,00000
24,6,29.00008	1,9,13,00000
25,5,38.00000	2,9,14.03000
28,6,44,00000	3,9,14.00000
27,6,42.00000	4,9,15.30000
25/6/40.00330	5,9,14.00000
29,5,34.95330	5,4,21.00000
1,7,16.00000	7,9,13.00000
2,7,16,00000	3,9,11.00030
3,7,15.00000	9,9,11,00000
4,7,15.00000	10,9,14.00000
5,7,15.00000	11,7,15.20003
<u> </u>	12/9/15.00300
7,7,15,00000	13,9,15,00000
3,7,15,00000	14,9,15.00000
9,7,16.00000	15,9,16.00030
10,7,15.00000	15/9/15.00000
11,7,19.33333	17,9,17.00000
12,7,13.0000	<u> 1°,9,17.80038</u>
13,7,13.00000	19,9,17.00000
14,7,19.00000	20,9,16.83883
15,7,19,00000	21,9,16,00000
15,7,19.00000	22,9,13.00000

V V Doading	
X Y Reading	
25,9,19.90000	24,11,24,13373
24,9,23.00000	1,16,13.3033
25,9,23.0000	2/15/17.0000
25/9/33.00000	3/10/14.0000
37,7,32.00000	-,10,10. 10
23/3/30.023	3,17,15.35.
29,4,27.00040	5/12/15.00000
1,10,13.00000	7,12,15.003.0
2,10,100000	1,12,11.11.11
3,13,14.02.00	· //1:/100[40]
4/1///	10/13/10-23/33
3,10,10,0000	
0/18/1/.60000	12/14/14/2002
7 / Lu / Lu	13/14/14 17/14/1
2/19/1/- 36/36/3	14/14/11:00-01
9,10,10,00000	13/11/5/2002
13/10/12:00000	15/11/15 - 53.55
11,13,17.23033	17/11/1/10/20/20
12,10,15.03000	17,12,23.00039 19,12,20.00030
13,10,14.00000	17/14/10-44-10-5
15,12,12.12022	<u> </u>
13/12/12/12/13/13/13	-1/11/14 - 1 - 1
17,13,15.0000	
15.17.18.53033	26.12.32.50153
19,10,16.03000	25,12,25.00000
20/10/14.00000	26.17.27 (317)
21,10,19.0000	27,12,762170
77,17,75,77500	3 - 1 3 - 1 7 - 7 7 7
23,13,74,33,33	74,17,27,77
24,13,25,82353	1,13,11,7 300
25,10,73.00000	2,13,12,00020
26,13,33,03030	3/13/13.00000
27,17,2	-,13,1-,0333
2:/10/27.10000	5,12,14.7722
24/10/05.00.00	:/1:/14.3.327
1,11,12.00000	7,13,14.30000
2,11,12.00000	8,13,15.00300
<u>3,11,14.59800</u>	<u> 9,13,14.00300</u>
4,11,15.00000	10/13/15:00000
5,11,15.00000	11,13,15.00000
5,11,17.00000	12,13,14.03033
7,11,17.0000	13,13,13.0000
5,117,17,00000	14,13,13.00090,
<u>9,11,28,00030</u>	15/13/6_000000
10,11,0.000000 11,11,19.00000	16/13/15.03030
12/11/15.00000	17,13,1.300000 18,13,13,30000
13,11,13.0000	19,13,20.00000
14,11,12,00000	26,13,25.00000
15,11,13.00000	21,13,26.00300
16/11/13.60000	22/13/25.00000
17,11,13.00000	23,13,27.00000
13/11/19.00000	24/13/28.00000
19,11,23.03000	25,13,27.00000
20,14,19,00000	26,13,25.00000
21,11,20.0000	27,13,24.03000
22,11,24.00000	28,15,25.00000
23,11,25.00300	29,13,21.03000
24,11,27.00000	1,14,12.00000
25/11/26.00000	2,14,13,00000
26,11,27,00000	3,14,14.00000
27,11,28.00000	4,14,14,00000
28,11,29.00000	5,14,14,000000

-	X Y Reading	
-	24/13/15.0000 1/19/13.0000	17,01,00.00000 10,21,07.0000
	2/1-/15.00000 3/1-/15.00000	13,21,21,00.000
_	4,13,13.10000 5,19,13.0000	21/21/20.10.01 1/32/17.78830
-	5/1-/13.01000 7/1-/15.00000	1,21,17,70300 2,23,11,70307 3,21,20,01000
	1,1,14.3(022	4/12/10.00010 5/24/10.00010
•	11,17,17.00.00	3,31,11,13713 7,21,12,1313
-	13/19/12.00000	3,22,24,00000 9,22,22,00000 10,22,20,00000
	15/19/25.00020 15/19/29.00020	11,22,20,00,00
	17,17,27,000.00	13,72,23,10270 14,22,23,0000
	19,13,2+.00000 20,19,11,03000 21,13,20.0010	16,23,24.03033 15,33,23.03333
	22/19/1 .00000 20/19/17.00000	17,03,26.00000 11,02,20.00.00 19,02,03.00000
-	1/26/21.00000 2/20/20.00000	20,22,21,00000 21,22,01,00000
_	5,20,15.30300 4,00,17.00500	<u> 1,23,14.00003</u> 0,20,14.00000
	5,20,17,30300 5,20,17,30300 7,20,17,300.5	3,23,13.12010
-	8/23/17.03000 9/23/13.30000	5/25/19.00000 5/25/19.00000 7/23/21.00000
	10,00,10.0000	7/10/19.00000 2/10/29.00000
-	13,00,14,0000 13,00,10,00000 14,20,19,00000	11,23,23.00000
-	15,20,24.60000 15,20,27.60000	12,23,23.03030 <u>13,23,34.03030</u> 14,23,22.03030
_	17,20,20.00000 15,20,20.00000	15,23,26.00000 16,23,24.00000
	19,20,27.00000	17,23,26,00000 18,23,26,00000
	21,23,24.00000 22,23,21.03000 23,23,21.0300	<u>19,23,23,00006</u> 20,23,21.00000 31,23,13.00000
	24,23,13.03000 1,21,21.00000	1/23/13.00000 1/24/12.00000 2/24/13.00000
-	2,21,20.00060 3,31,20.0000	3,24,13.80008 4,24,15.08003
-	4,21,20.00000 5,21,19.00000 5,21,18.00000	5,24,15.00000 5,24,17.00000
-	7/21/13.06003 8/21/20/00000	7,24,15.00003 8,24,23.00000 9,24,25.00000
_	<u>9,21,20.08833</u> 10,21,19.88883	10,24,24,03000 11,24,25.00000
	11,21,20.30000 12,21,20.30300	12,24,24.00000
	13,21,19.00000 14,21,21.00000 15,21,25.0000	14,24,26.00000 15,24,24.00000 16,24,25.00000
-	16,21,28.00000	17/24/24.30330

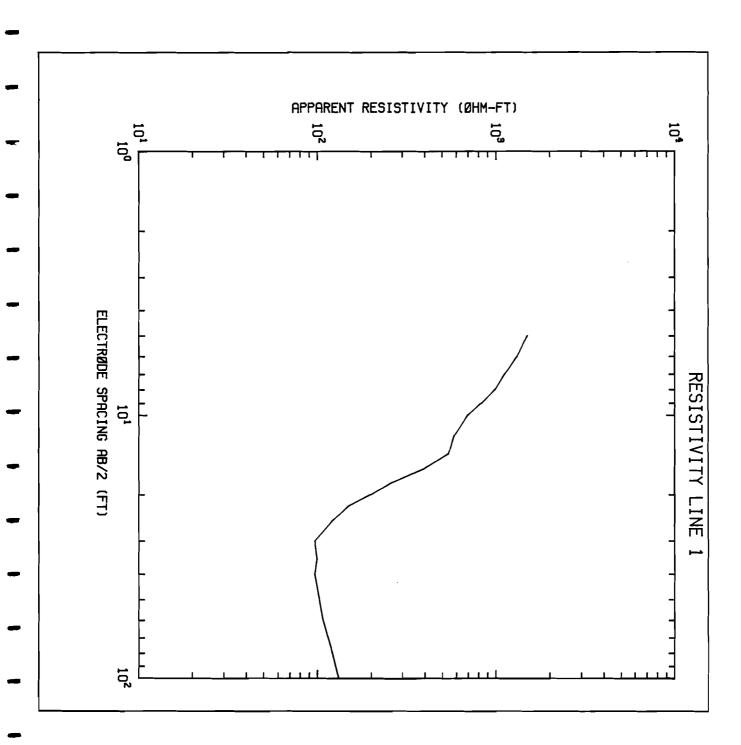
ELECTRICAL RESISTIVITY SURVEY

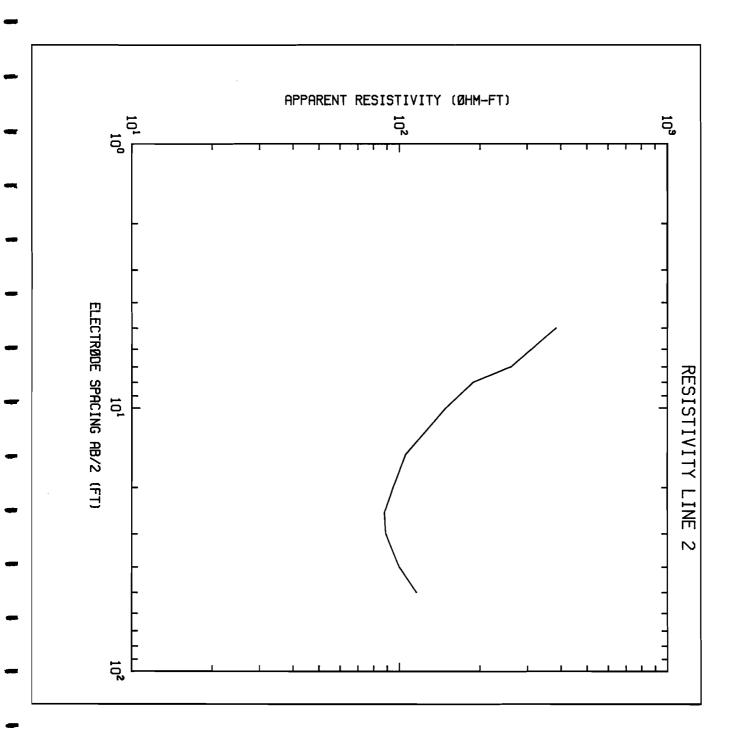
All electrical resistivity soundings showed very similar resistivity profiles. The principle distinguishing features of the soundings are:

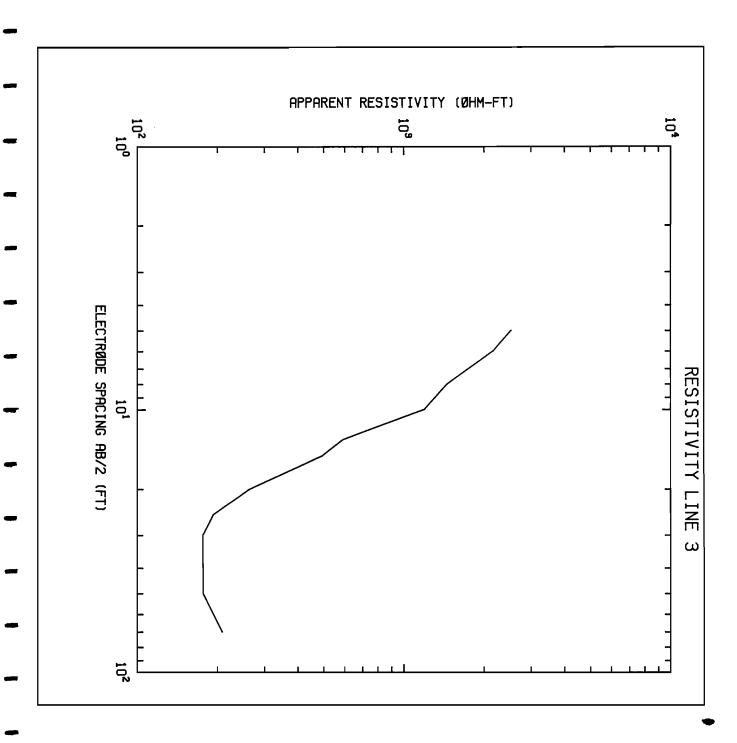
- . high surface resistivities
- . low subsurface resistivities within 15 feet of the ground surface
- significant lateral electrical heterogenity near the surface as evidenced by the greater than 45 degree slope of the sounding profiles
- . no significant variation in sounding profiles across the site

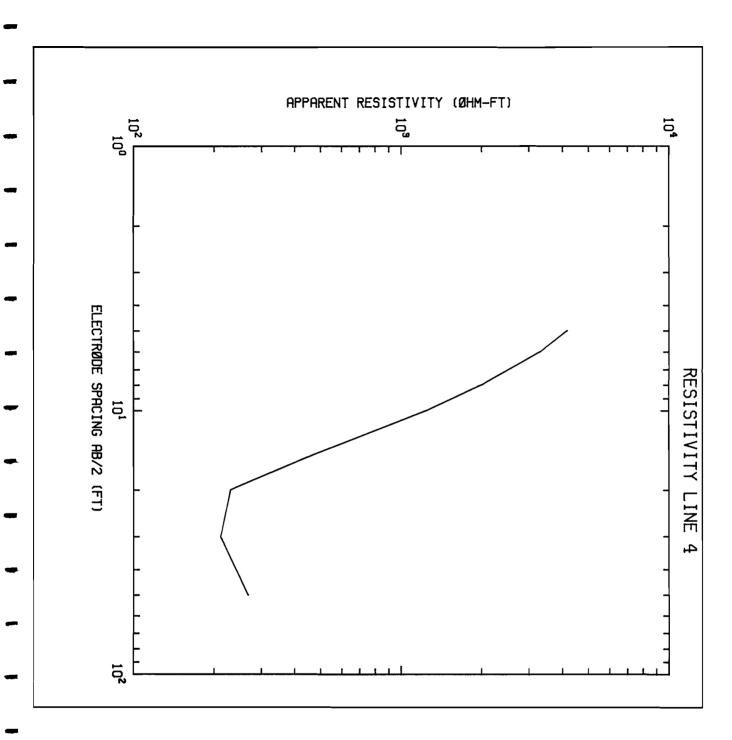
The evaluation of the profiles indicated the following interpretation for the subsurface lithology:

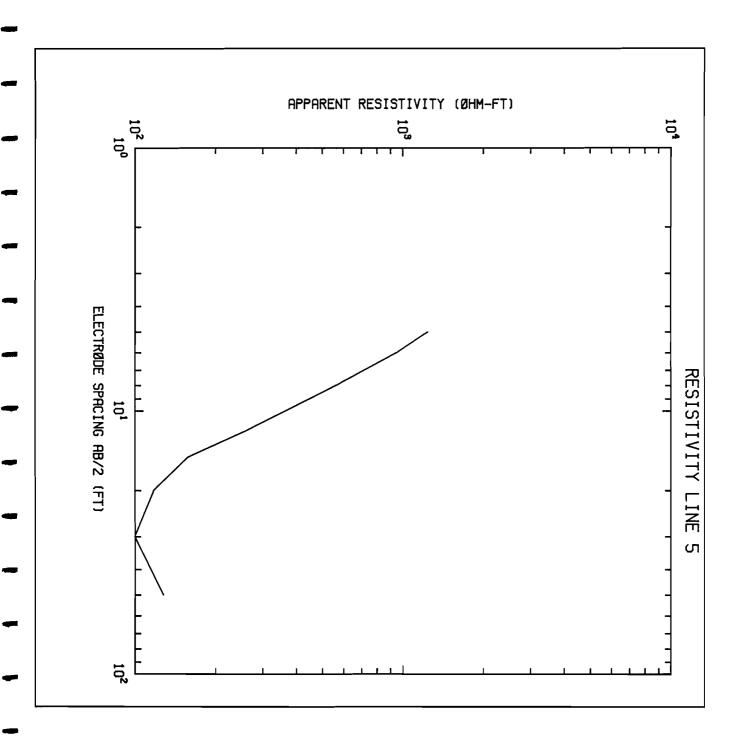
Depths	Resistivity	Lithologic Interpretation
0-3 ft. 3-9 9-20 20-40 40	high Iow Iow Iow Iow	dry sand unsaturated silty sand saturated clayey silt saturated sandy silt unsaturated silty sand

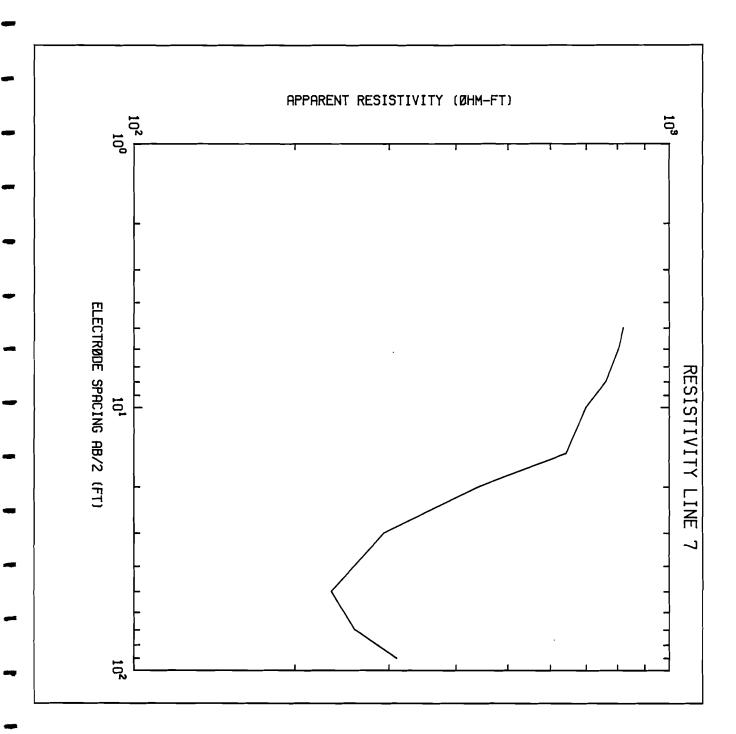


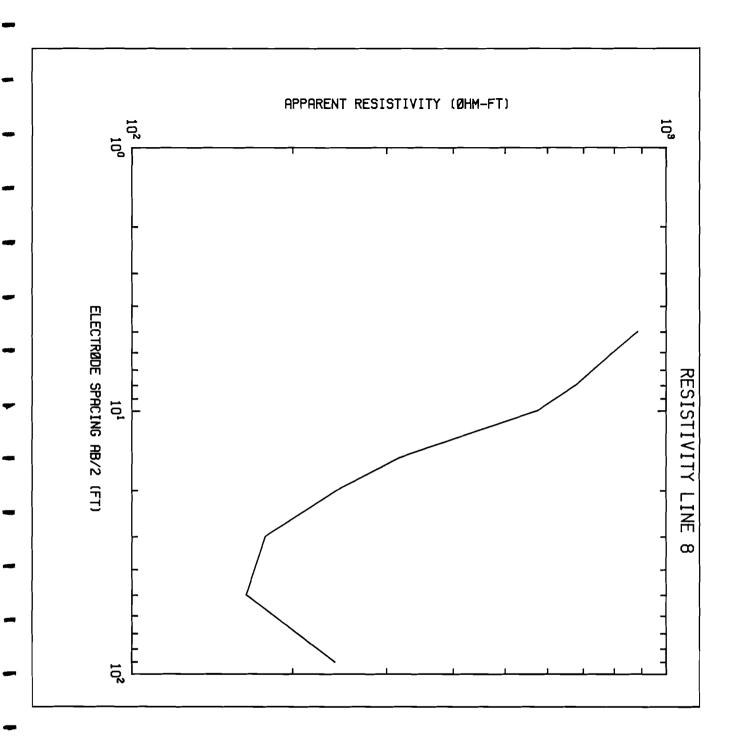


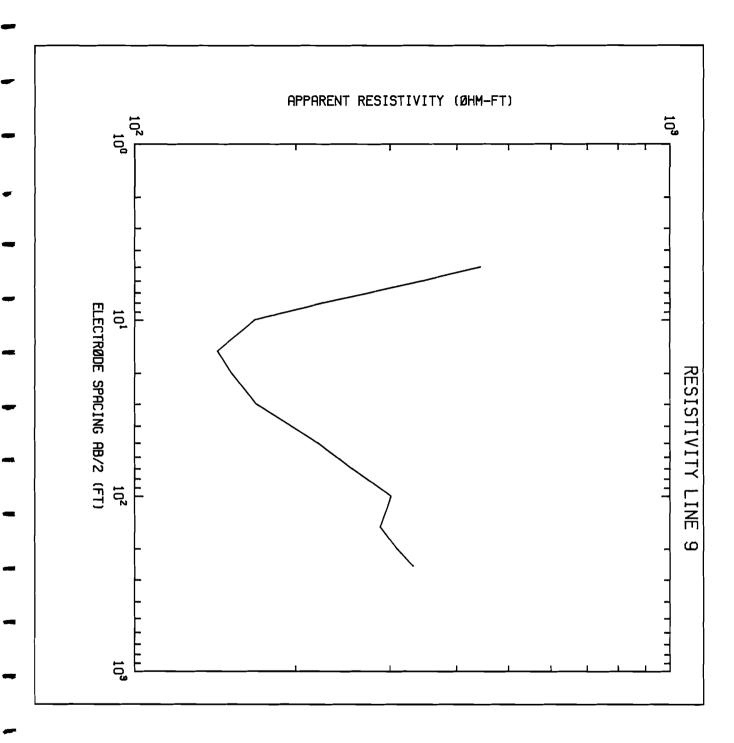












APPENDIX B

TEST BORING AND MONITORING WELL DATA

-	© 0	BRIEN NGINEE	& GERE RS.INC.		T	TEST BORING LOG REPORT OF BORING NUMBER 8-1						
PROJE	CT LOC	ATION /	Rochest	eR, N.Y.		SAMPLER		<u> </u>				
					TYPE	:	6/28/85					
			trusion		HAMM FALL							
		CHI	OH E	ENVIRON	menl	BORING LOCA	TION					
FORE	MAN		T	100 at			GROUND ELEV.					
OBG	GEOLOGI	ST <u>_/۲</u> ,	V. P.	Resti		DATE STARTE	DAT		<u> </u>			
DEPTH	"N" VALVE	NO.		DEPTH	BLOWS	SAMPLE DESCRIPTION	STRA. CHG. GEN. DESC.	EQUIPMENT INSTALLED				
0		1.0.	1 /	0-5			was silt.	DESC.	 			
	<u> </u>		NIT	0.0	WIT	1 · · · · · · · · · · · · · · · · · · ·	(an interest					
						SAND, NO ORGANIC OD	OR OR STAIN,					
	<u> </u>	<u> </u>	 			Samp - My tom to Set						
	<u> </u>					2.000						
-5			2/2	5-7	.3			}				
<u> </u>			1~~	1 /	3	1						
					4]						
					3							
]				
		1	2/2	7-9	1	Medium brown silt, n						
					4	lenses of sandy silt	, NO OFOR OR	1				
	ļ	<u> </u>	<u> </u>	1	3	stain.		·				
					4	4						
\vdash_{9}		<u> </u>	2/2	9-11	//	Mali harmata	1000 01000	1				
- 7		 -	12/2	7-11	7	Medium brown to or silt, moist, some clay no organic odor or	ilve, chayey					
			 		$\frac{7}{10}$	SIII, MOISI, SOME CIAY	lenses (1-3)					
					/ 3	NO ORGANIC OCER OR	STAIN.	l				
		1										
-// $-$			2/1	11-13	7	Medium brown to OI	Tive SANdy	1				
					//	silt, moist, No MARA						
					12] , , , , , , , , ,	·	1]			
_					/2							
					-							
13			12/2	13-15	4	Light grey, silty cla	y, moist to					
			1	-	<u>ڪ</u>	wet, saturated zone	at 14-15 A					
<u> </u>		<u> </u>	 		8_	composed of clause	silt an					
	}		+-		6_	composed of clayey organic odor or st	4.					
<u></u>			2/2	15-17	2	THE CHER OR ST	AIN.					
1			72	1271	5	†	10.0					
					7	1	C15/2					
	1	· · · · · ·		 	12		vez born,					
						<u> </u>	'We' T					
REMAR	ks: ///	11 de	illed	NPAR	WA	ste water vault	south west	of fo	RMER			
lagon	NS	111-1	1121	in the	000	St (PTDC) + Lunia	24 ft D	IN SH	STRREAL			
		well I	aepin	15 L	ر 7.7	ft. (BTOC), stick-up is	1. m) 1 - 1	10 11.	- 1/ -			
W#5	5e/ .	AT 2	1.5 4	. to	11.5	ft. , sand packed (GRAC	ne a) to 7.0	+T.) [ellet			
584/	to 4	10 ti	. , AND	pockin	19 P	entective steel cas	sing cemen	ted.	IN			
At a	gRoun	d le	vel.		/ /		V					
1	•					•						

BBC 15		AGIIAEE	&GERE RS. INC.		T	EST BORING LOG	of 3	B-1			
	CT LOC		. tau - : :		TYPE	, D	ATE .				
CLIENT	·	•	trus 101		HAMM		/28/85	<u> </u>			
FORE	MAN				vmeni	BORING LOCATI GROUND ELEV.	on				
OBG	GEOLOGI	ST <u>R.</u>	J. FOR	esti.		DATE STARTED	0				
DEPTH	"N"			MPLE	D. 0000	CAMPLE DECORPOTION	······································	STRA. CHG.	STRA. EQUIPME		
	VALVE	NO.	PEN./ REC.	DEPTH	BLOWS	SAMPLE DESCRIPTION		GEN. DESC.	INSTALLE		
17	_		12/2	17-19	5						
•					<u>8</u> 6						
		· · ·			5	•		·			
		<u></u>									
20			2/2	20-22	5						
			'		6						
•		,	-		<u>16</u> 2 [
					\sim						
25			2/2	25-27	8	Light grey silty clay Red brown sandy-silt, damp to moist, no org or stain.	graded 1	40	}		
					10	Red DROWN SANDY-SILT	ashblest.	£			
					12	damp to moist up and	perones (
		_	 		17	OR STAIN.	ANIC OUCK				
.30 -	_		2/2	30-32	9						
	,		7-		14	,					
					14						
					17_						
			2/2	35-37	9						
			72	22-37	12						
	!				17						
					21						
40		_	25	40-42	9			<u>. </u>			
40			42	90-92	14	Light brown very sand, damp, no od stain.	five silt	7			
					20	SAND, damp, NO'00	OR OR				
					25	STAIN.					
- ,			12/=	1/15 //5	~						
45			2/2	45-47	8 12						
			 								
					15 15		4				
REMARI	ks:										

-			&GERE AS INC.		T	EST BORING LOG	REPORT OF BOI			B-/_
PROJE	CT LOC	ATION	•		TYPE	SAMPLER	DATE	<u> </u>		T
CLIENT	Tac	tx3 1	rusion		HAMM	ER	6/28/85			
				VVIRON						
FORE						GROUND ELE				
OBG	GEO! OG!	ST R.	J. FOR	resti			ED	DATE	ENDE	
	"N"			MPLE					STRA. CHG.	EQUIPMENT
DEPTH	VALVE	NO.	PEN./		BLOWS	SAMPLE DESCRIPTION			CHG. GEN. DESC.	INSTALLED
50		140.	2/2	1	<u> </u>		<u> </u>		DESC.	
	<u> </u>		144	50-52	12			ļ		
•					15					
		•			15			ŀ		
			1							
<u> </u>	<u> </u>		2/2	55-57	8			ļ		
<u></u>	<u> </u>		1~~	55 67	9					
		•	†		12					
					17					
					,					
60			2/2	60-62						
62				62		Bottom of hole @	62 feet		٠.	
								1		
<u>`</u> _					_					: 12-
										9
			ļ			propriet and an	•	7		
	[-				the part of the same	70°	レー		
	•		 			The same of the sa	d " cape			
- —						~\	1 22/2			
	 		 	<u>'</u>		No.	2.0 -			
	l	•	 					-		
			+							
			\vdash			•				
			1							
			 							
			1	1						
	<u> </u>	_	1							
	L	<u> </u>				<u>L</u>				
REMAR	KS:									

. _

	© 67	BRIEN.	& GERE RS.INC.		T	EST BORING LOG	REPORT OF BORE	1	B-2		
PROJE	CT LOC	ATION R	ochester	e, N.Y.		SAMPLER	SHEET/	OF_/_			
CLIENT	r Ja	rl &	itrusion	•	TYPE HAMM FALL	: ER	7/1/85	<u> </u>			
			OH E					<u> </u>			
FORE						GROUND ELE					
OBG	GEOLOGI	ST R	J. FOR	resti		DATE START	E00	ATE ENDE	0		
DEPTH	"N"			APLE				STRA. CHG.	CHG. FEGUIPMENT		
	VALVE	NO.	7	DEPTH				GEN. DESC.	INSTALLED		
0			2/1.5	01		Surface vegetation brown, very fine si No or ganic odor o	, Roots, mediu	m	Ì		
•			 	<u> </u>	3_	brown, very time si	Ity SAND, DAM	$ \mathcal{P}_I $			
		•			5	NO ORGANIC ODOR O	R STAINING.				
)						
_5			2/2	5-7	1	Medium brown to	RAL BROWN				
			1		2	silty clay, moist,			1		
					3	silt lenicoe - +	ipotad				
			 		4	silt lenses, sati	THEY NO				
	<u> </u>		2/2	7-9	2	DRYANIC OUOR OR	SIAINING.				
			12/2	7-7	4		V				
			Ì		7			·,			
					9						
<u>-</u>			,]		
9			2/2	9-11	9	Medium BROWN C moist to satura	dayey sitt,				
					12	moist to sutur	ated.				
			 		12						
			 		12						
			2/2	1/-13	5						
					3						
	_		<u> </u>		5						
			1		10						
<u> </u>			2/2	13-15	5						
			7 =		3						
					3						
15				1	4	p.4 011 ~	15 - 01				
<u> 15</u> _				15	,	Bottom of hole @	15,717.				
			1	<u>[</u>							
			Ī			1					
							•				
REMAR	ks: \mathcal{W}_i	ell di	Rilled	Alo	ng e	ast property lin	e at sout	heast	CORNER		
of	form	er.	149001	us. /	Vell	depth is 18.8 ft.	(BT.O.C) 57	tick-up	is 3.0 ft.		
A 10	oft.	SCRRP	יים ע הפנונו אמ	; ->+	a+	15.7 ft. to 5.7 ft.,	and nocke	ed lean	e of to		
II PL		// 	was	. 261 1 L		CL I I I I	JANG PACKE		- 4) //		
9 tt.	, Per	ITS	PIACEC	TO	1.5 4	G. And A locking	protective	CASIN	9		
ceme	ented	in	At	grou	Nd.	level.					

	© 0	BRIEN	& GERE RS.INC.		T	TEST BORING LOG REPORT OF BORING NUMBER 8-3						
PROJE				er, N.Y.		SAMPLER		OF				
CLIEN			trusion	,	ITYPE	TYPE: DATE						
				ENVIRO				_				
FORE		<u> </u>	<u> </u>	2007160	10 11.61-	GROUND ELEY						
		ST R.	J. Fo	Rest	;	DATE STARTE		ATE ENDE	. D			
	W m	Γ-=		MPLE				STRA. CHG.	EQUIPMENT			
DEPTH	VALVE	NO.	PEN./ REC.	DEPTH	BLOWS	SAMPLE DESCRIPTION		GEN. DESC.	INSTALLED			
0			2/2	0-2	5	Surface vegetation	Roots sil					
					4							
	 	<u>. </u>	<u> </u>		3	fine sand, mediun to day, no odoa	an staining	"/				
	<u> </u>	ļ	<u> </u>		4_	TO day, no edox	ok statility					
	 		2/2	5-7	2							
	 		42	2-/				Í				
•					-/-							
					2							
								_				
10	}		2/2	10-12	<u> </u>	Medium brown +						
	-		 		<u> </u>	silty clay, moist	to wet, w	74				
	-	-			13	SMALL (6 in) 51/+ /8	NSES SATUR	ated				
· ·						small (6 in) silt le No organic odor	OR STAINING	7.				
12	ļ		2/2	12-14	5							
· · · · ·	 		<u> </u>		_//							
-	 		<u> </u> 		10				l			
												
74			2/2	14-16	8							
					5							
	<u> </u>	_	<u> </u>		<u>5</u>							
,	-		-		<u></u>							
16	 		2/2	16-18	4							
			7		3_							
					3							
'	 		<u> </u>		4							
18-			2/2	18-20	5							
10	 	_	4/2	1020	3			1				
-					3	1						
					4							
20	<u> </u>			20		Bottom of hole @ 2			L			
REMAR	RKS: U	lell a	Rille	d at	NOK	theast corner o	of site.	Well a	lepth			
1		_	_			p is 2.4 A. A 10			•			
18.	85 -	ft to	8	85 £	بر س	and anatod to 7 G	L pollat	، - اسام	+0			
11. D	اندر 4	d 10	Jank.	10 11	1 5 M	end packed to 7 ft. tive casing ceme	prelier s	160 -	and lawel			
	· 1410	ur M	IUCN/	ng ph	otec	Tive CHSING CEME	NIEG IN A	grou	iva jevel,			

	<u> </u>	BRIEN	&GERE RS.INC.		T	TEST BORING LOG REPORT OF BORING NUMBER B-L					
PROJE			ocheste	o NV		SAMPLER	SHEET O	<u> F_ユ</u>	·		
1				,	TYPE		DATE		_		
CLIEN	т <u>Да</u>	r Ex	trus ion	<u> </u>	FALL		7/2/85				
ì		CA-T	OH B	ENVIRO	NMEN	TAL BORING LOCA	TION				
FORE	MAN		J. F.	- a - c +	•	GROUND ELEV.					
OBG		ST _//				DATE STARTE	DDAT		D		
DEPTH	"N"			APLE	RIOWS	SAMPLE DESCRIPTION	STRA. CHG.	EQUIPMENT			
	VALVE	NO.	 	DEPTH	76113		DESC.	INSTALLED			
	 	<u> </u>	2/2	0-2		Surface vegetation	N, madium	l			
<u> </u>	-			-	1	brown silty fine NO odor OR STAIN.	SAND, dAMP,				
		-	<u> </u>		7	NO ODOR OR STAIN.		}			
	 				-7			li l			
	 	 	2/01	5-7	2	Don't hanne to see	w black sand	-			
	<u> </u>		70.1	2 /	2	DARK BROWN to grey silt, strong organi moist to wet, (not	is adapt at the				
					1	sill sixong exgant	L 040R \$51A/N	<i>[</i>]			
					0.5	Brancas 10 Wel, (NOT	e: pook sample				
						ACCOVERY.J.		<u> </u>			
7_]		2/0.5	7-9		DARK BROWN to dive	e, fine sandy				
		-	<u> </u>		4	silt, saturated, org	ANIC ODOR,				
ļi			ļ		<u> </u>	trace staining.	,	· ·			
		_			<u> </u>	7///		1			
\vdash_q	!		2/2	9-11	4	Dock hanned to ali		1			
- 	· ·		12/2	7 17		DARK DROWN to olio	e, silty clay,	1			
					7	moist, with silt le	NSES, SATURAT	44			
		_			8	trace organic odo.	R AND STAIN.	1			
_//			2/2	11-13	2	DARK BROWN to dive	e silty clay	1			
			<u> </u>	<u> </u>	3	moist, with sitt le	Nege No				
ļ	<u> </u>				<u>2</u>	penania de	$\int_{-\infty}^{\infty} x$				
				<u> </u>	<u> </u>	organic odor or.	STAIN				
13			2/15	13-15	4	APTAKENI.					
			711		5	1					
					7	1					
					8]			l .		
1.5			2/2	15-/7							
			<u> </u>	_	/						
					$\frac{\lambda}{\lambda}$	-					
				<u> </u>	7	-					
BENAS	ve - 111	[] [-// /	<u> </u>		1		1 1.	1-11		
						-center of forme					
ucht	ri 15	10,5	ю tT. (6.1.0.0	571	ick-up is 3.2 ft., ,	4 10 TT. SCRE	en w	45 SeT		
AT 1	1.36	To .	1.36	tt./, s	AND	packed to 4 ft., p.	ellet sealed	d to	1.5 ft.		
AND	A 100	MING	PROT	ectivi	e 5	packed to 4 ft., peterling cement	ted in at	SURT	LACE.		

		O 0	BRIEN I	SGERE RS.INC.			EST BOR	ING LOG	REPORT OF BOR		B-4
Ì	PROJE	CT LOC	ATION &	ocheste	R, N.Y.		SAMPL	of <u>2</u>			
					,		:		7/2/85	<u> </u>	
-				rusion		HAMM			- / /		
			CAT () H E	ENVIRO	NMEI	VTAI_	BORING LOC			
	FORE		P	TE	- 0 0 0	<i>t</i> -		GROUND ELE			
Ļ	OBG	GEOLOGI	ST _ <i>/</i> (.	<i>U. p</i> =	ORES			DATE START	EDD		0
Ì	DEPTH	"N"	<u></u>		APLE	D. 01./0		25000125101		STRA. CHG. GEN. DESC.	EQUIPMENT
	,	VALVE	NO.	REC.	DEPTH	N 6"	SAMPLE	DESCRIPTION		DESC.	INSTALLED
1	17			2/1.5	17-19	4]				
				<u> </u>		5					
ļ			<u> </u>			3					
			_			5_	1				
_											
	19	_				_					
-	20			1			D. ++	£11-	20.5 ft.		
-	20	<u> </u>	·		 		DO(10M	or note a	2 20,5 77.		
-			! 	 							
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	REMAR	KS:			_						

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	O 0'	BRIEN	&GERE RS.INC.		T	EST BORING LOG	REPORT OF BOR	,	B-5
PROJE	CT LOC	ATION A	Pocheste	er, N.Y.		SAMPLER	SHEET	OF_/_	-
		,		, ,	TYPE HAMM FALL	:	DATE		
			trusion TOH	F 4/1/1		4.1	7/3/85	<u></u>	
	•		10 (1	ENVIN	UN ME.				
FORE		P	J. For	200+	•	GROUND ELE			
		31 21:				DATE START	ED	ATE ENDE	
DEPTH	"N"			APLE	RIOWS	SAMPLE DESCRIPTION		STRA. CHG.	EQUIPMENT INSTALLED
	VALVE	NO.		DEPTH	/ 6"			GEN. DESC.	INSTALLED
0_			2/1.5	0-2	4_	Surface vegetato	on, light be	pant	
•			 		_5	to medium brown s. damp, NO ORGANIC	ilty sand,		
		•			7	damp, NO ORGANIC O	odor or stain	J.	
			 		<u> </u>	1 //			
- 5-			2/1	<u> </u>	11	20 / - 1			
<u> </u>			12//	5-6	$\frac{7}{5}$	Medium DROWN, 51	andy silt,	,	
			 		5	Medium brown, sa moist, no organic	odor or stal	'N	
				İ	7	1			
					/	1			
70			2/2	10-12	7	Medium brown to	dock harmon	_	
					1				1
					1	clayey silt satur	Aled, NO ORGI	9,010	
						Odor or STAIN.	_	Ì	ļ
∴ _ —			<u> </u>		<u> </u>	1		}	
/2			2/2	12-14	4_				
•			 		3	·]	
	_		 			-			
		_	<u> </u>	<u> </u>		1			
_,			2/2	111 16	2				
77			142	14-16	3	4			
					- 2	į			
			 		4				1
16			2/2	16-18	4				
			'		3				
			<u> </u>		5			1	
			ļ		3				
-, -			12/-	10.00		1			1
18			 	18-20	<u>ح</u>	1		- 1	
			 		<u> </u>	4			
			 		7_	4		}	
22	-	_				Bottom of hole @	22.0ft.		
DENT	ve· 111	. [[]	1/2/			the set some of	e, to 111-11	last :	17 A A
nemari	na. We	cii ak	illed n	PHK	NORI	MWEDI CUKNEK OT . / /	ire, well a	aepin 13	12.011.
STICK	r-up	15 2.	45 H	741	10 H	was set at 19.	05 10 9.05	5 ft., 5.	and pack
(grade	· &);	to 5	ft.	pelle	+ 50	hwest corner of . was set at 19. paled to 1.5 ft., at the surface	and a locki	in sto	al nontant
CACI	. '/ //	י אנויי	100	+-1	, ,	-1 11 P	- (001())	7 3100	- I PROTECTI
SA 5 1.	Na .	WAS	CEMP.	vTPd	IN	At the surtac	0		



July 31, 1985

O'Brien and Gere Engineers, Inc. Box 4873 1304 Buckley Road Syracuse, New York 13221

Attention: Mr. Guy Swenson

Re: L-85109

Grain Size Analysis File #2410. 007

Gentlemen:

Enclosed are the results of laboratory testing performed at your request on soil samples delivered to our office for the above project.

Thank you for this opportunity to work with you.

Very truly yours,

PARRATT - WOLFF, INC.

Donald P. Blasland, CET

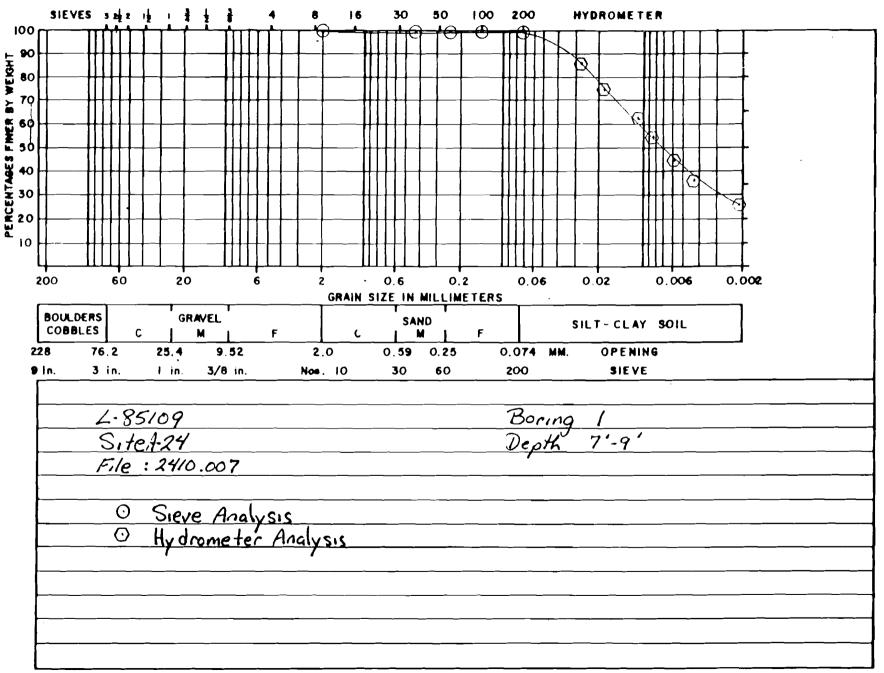
Laboratory Manager

DPB/vjt encs: L-85109

SITE A-24

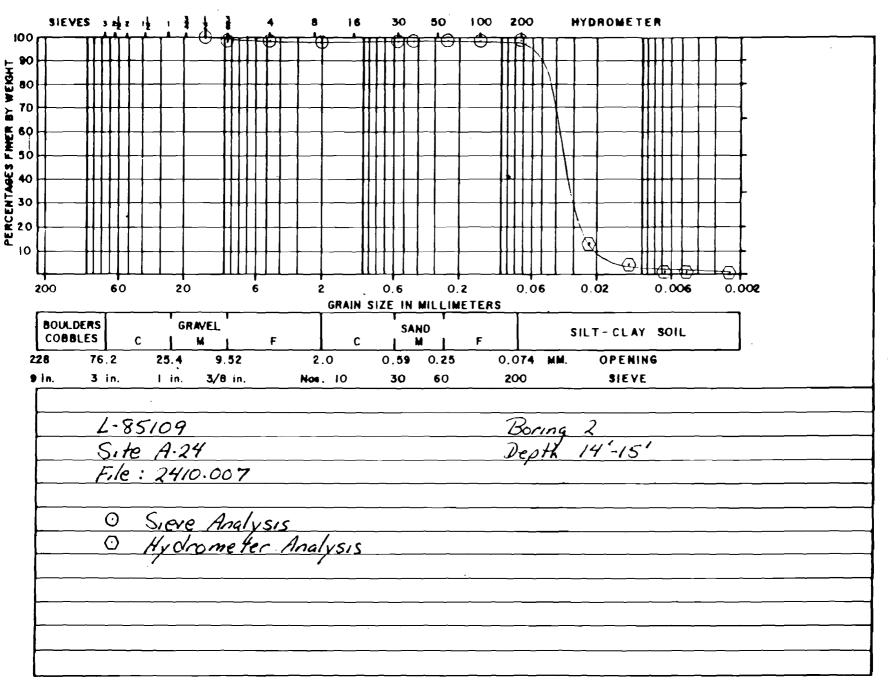
			٠					SIEVE S	IZE - PI	ERCENT P	ASSING	SIEVE		
Sample #	Sample Depth	111	3/8''	#4	#10	#30	#40	#60	#100	#200				
11											<u> </u>			
B-1	7'-9'	-			100	99.9	99,9	99.9	99.7	99.7				
B-2	14'-15'	100	97.9	97.9	97.4	97.4	97.4	97.4	97.4	97.2				
B-3	15'-16'	-	_	_	-		-	100	99.6	97.8				
B - 4	12'-13'	-	-	_		-	100	99.9	99.8	99.6				
B-5	19'-20'		-		-	-	100	99.9	99.8	94.5				
								7						
•		:								_				
											-			
• ,									_					,
			-	1										
													<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	
·,	1										<u>ti</u>			
							<u>j</u>					<u> </u>	<u> </u>	<u> </u>

Note: All samples prewashed.



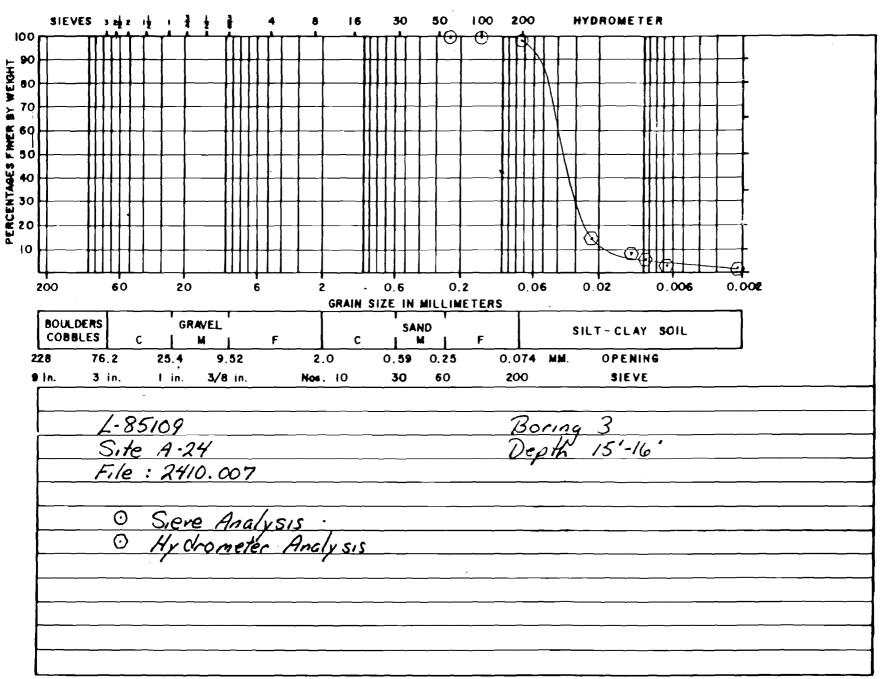


REPORT NO ____



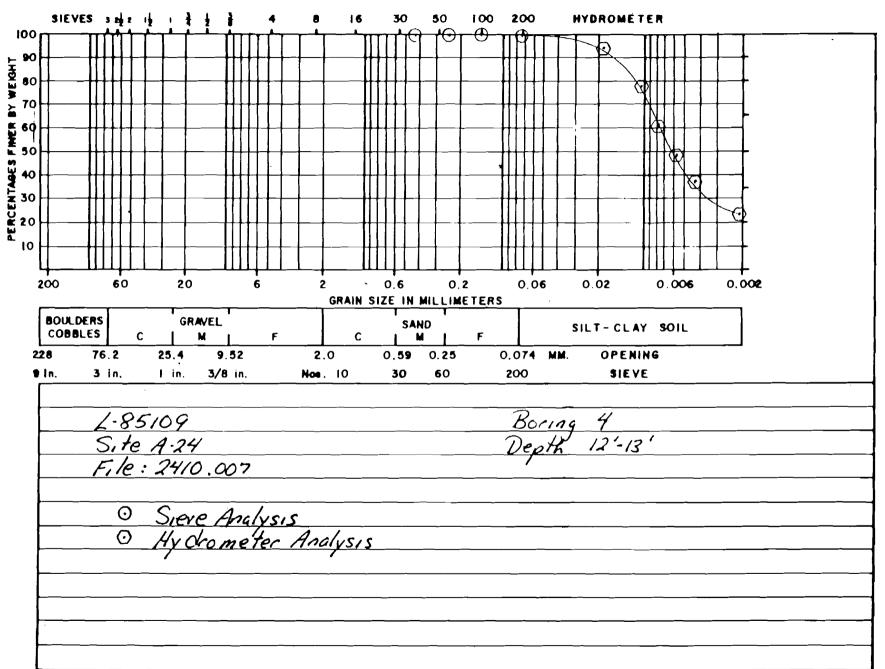


NEPORT NO 2



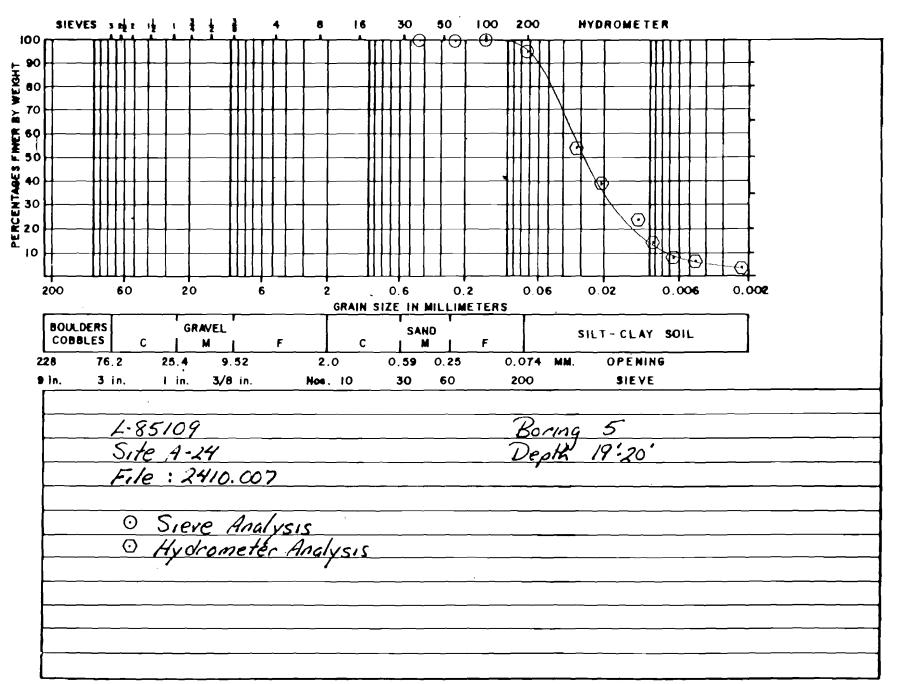
FISHER PO EAST SYRACUSE NY 13057
TELEPHONE AREA CODE 315/437 1429

NEPORT NO. 3



FIS, ER AD EAST SYRACUSE NY 13057
TELEPHONE AREA CODE 315 :37 1429

MEPORT NO. 7



TIS. ER PD. EAST SYRACUSL N Y 13057
TE! EPHONE AREA CODE 315:437 1429

MEPORT 80 5

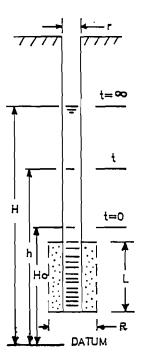


IN-SITU PERMEABILITY TEST FIELD LOG

PROJECT Jarl Entrusions
WELL NUMBER B-1
DATE 7/23/85

LOCATION Rochester N.Y. ELEVATION

(t+)



STATIC HEAD (H) 6.83'

PIPE RADIUS (r) 0.08'

SCREEN RADIUS (R) 0.33'

SCREEN LENGTH (L) 6.83'

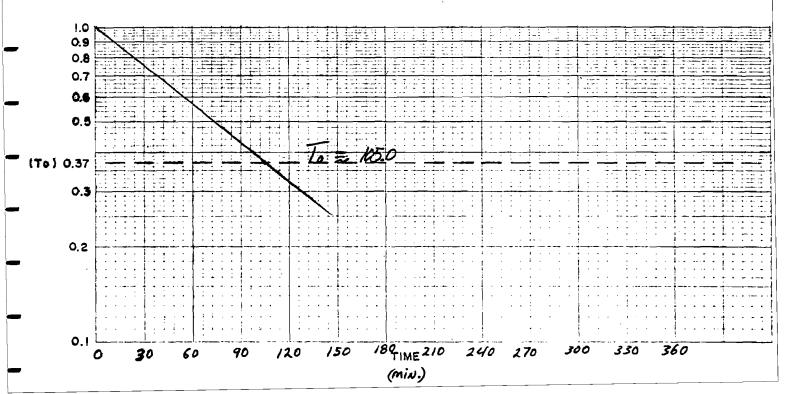
INITIAL HEAD (Ho) 2.25'

HYDRAULIC CONDUCTIVITY:

K=r²In(L/R)

2LTo K= <u>6.9 x 10</u> cm/sec.

	WATER	- \		H-h
TIME	DEPTH	(min.)	_ h _	н-но
12:00	21.58	0	2.25	1.0
12:12	19.58	12	4.25	0.56
12:35	19.16	47	4.67	0.47
12:56	18.83	103	5.00	0.39
1:44	18.08	153	5.75	0.23
5:07	17.41	416	6.42	0.08
5:27	17.25	443	6.58	
	1			
				·





LOG SX PROJECT Jarl Extrusion A
WELL NUMBER B-2
DATE

DATE

CABILITY

LOCATION

ELEVATION

	(£†.)			
	WATÉR	(min.)		<u>H-h</u> _
TIME	DEPTH		h	н-но
12:22	17.08	0	2.75	1.0
12:25	16.41	3	3.42	0.89
12:32	15.83	10	4.00	0.80
12:45	15.25	23	4.58	0.71
1:00	14.75	38	5.08	0.63
1:38	14.00	76	5.83	0.51
5:11	12.50	2/3	7.33	0.28
5:34	12:41	236	7.42	0.26
				<u> </u>
	_	_		

7777	 	
_	<u>+=∞</u>	
 	- t	
H	t=0	
h		
<u> </u>	⊢R _ DATUM	

STATIC HEAD (H) 9.14PIPE RADIUS (r) 0.08 SCREEN RADIUS (R) 0.33 SCREEN LENGTH (L) 9.14 INITIAL HEAD (Ho) 2.75 HYDRAULIC CONDUCTIVITY:

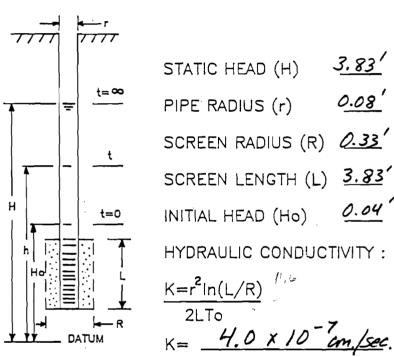
 $\frac{K=r^{2}\ln(L/R)}{2LTo}$ $K=\frac{3.9 \times 10^{-6} cm/sec.}{}$

1.0					14-		HELE]-[1],# F	1.19.14.	
0.9 0.8							ili tuli					' F- <u> </u>	
0.7			```	<u>: </u>					<u> </u>		<u> </u>	FHIL	
				T			135						
0.6		15.2	-1	ما شارسات	:::::			: :	: : : : : :		11:1:	1.11	
0.5											1: -::	1 : : :	
ro) 0:37										<i>To</i> =	150.0	2	
0.3													
0.0													
0,2											: : : :		
0.2			1						i				
								i					
		;	i									-	
0.1	1	 !				· · · · ·	·	22 _{IME}	- 1 · · · ·		180	į	290 260



IN-SITU PERMEABILITY TEST FIELD LOG

PROJECT <u>Jarl Extrusion</u> WELL NUMBER <u>B-3</u>	LOCATION Rochester, N.Y. ELEVATION
DATE	(A) WATER



		(+1)			
		WATER	(min.)		H-h
	TIME	DEPTH		h	H-Ho
/	11:08	21,50	0	0.04	1.0
3.83	12:42	21.34	94	0.20	0.95
	1:50	21.25	162	0.29	0.93
0.08	5:18	20.91	370	0.49	0.88
R) 0.33'					
L) 3.83′				·	<u>.</u>
0.04					
·					
ICTIVITY:					
	ļ	-			
					ļ ——
	L	<u> </u>	<u> </u>	<u> </u>	l
-7 ,	J.	, 0 /	, ;		~ <i>L</i>

0.1				 1200 TIME 1400 16			
			. • • • •				
				1 1			
0.2							
0.3							
				TIBLETTE			* * * * * * * * * * * * * * * * * * *
) 0.37				/o ₹^	850		
		: :					
0.5				<u> </u>			
0.6						1	
0.7			::::::::::::::::::::::::::::::::::::::				
0.8		1 4 4 1 1					
0.9							

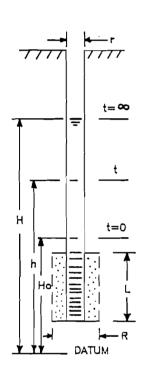


IN-SITU PERMEABILITY TEST FIELD LOG

PROJECT _ Jan	1 Extrusion
WELL NUMBER	<u>B-3</u>
DATE	

LOCATION Rochester, N.Y.

(ft)



STATIC HEAD (H) 3.83'

PIPE RADIUS (r) C.08'

SCREEN RADIUS (R) C.33'

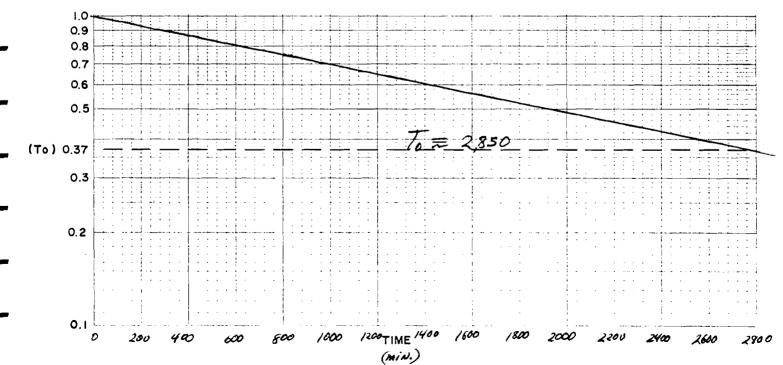
SCREEN LENGTH (L) 3.83'

INITIAL HEAD (Ho) C.04'

HYDRAULIC CONDUCTIVITY:

 $K = r^{2} \ln(L/R)$ 2LTo $K = \frac{4.0 \times 10^{-7} cm./sec.}{}$

	WATER	(H-h
TIME	DEPTH	(min.)	_h	HH ₀
11:08	21.50	C	0.04	1.0
12:42	21.34	94	0.20	0,95
1:50	21.25	162	0.24	6.43
5:18	20.41	370	0.49	0.88
	_			
<u> </u>				
			L	

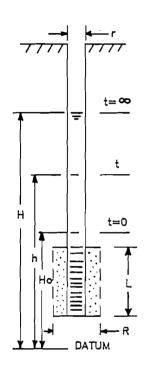




IN-SITU PERMEABILITY TEST FIELD LOG

PROJECT <u>Jarl Extrusion</u>
WELL NUMBER <u>B-2</u>
DATE

LOCATION Rochester, N.Y.
ELEVATION



STATIC HEAD (H) 9.14

PIPE RADIUS (r) 0.08

SCREEN RADIUS (R) (2.33

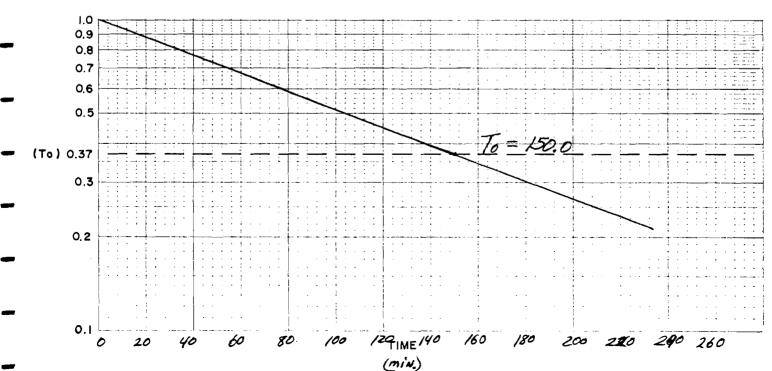
SCREEN LENGTH (L) 9.14

INITIAL HEAD (Ho) 2.75

HYDRAULIC CONDUCTIVITY:

$K=r^2$	In(L/R)	
21	_To	
K=	3.9 × 10	-6 cm/sec.

	(£t.)			
	WATER	(Mid.)		H-h_
TIME	DEPTH	-	h	H-Ho
12:22	17.08	0	2.75	1.0
12:25	16.41	3	3.42	1.89
12:32	15.83	10	4.00	0.80
12:45	15.25	23	4.58	0.71
1:00	14.75	38	5.08	0.63
1:38	14.00	76	5.83	0.51
5:11	12.50	2/3	7.33	0.28
5:34	12:41	236	7.42	0.26
		_		
				_
			<u>-</u>	

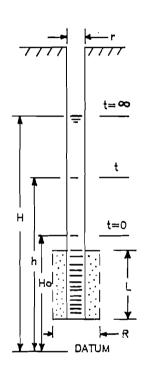




IN-SITU PERMEABILITY TEST FIELD LOG

PROJECT Jan Extrusion
WELL NUMBER B-1
DATE 7/23/85

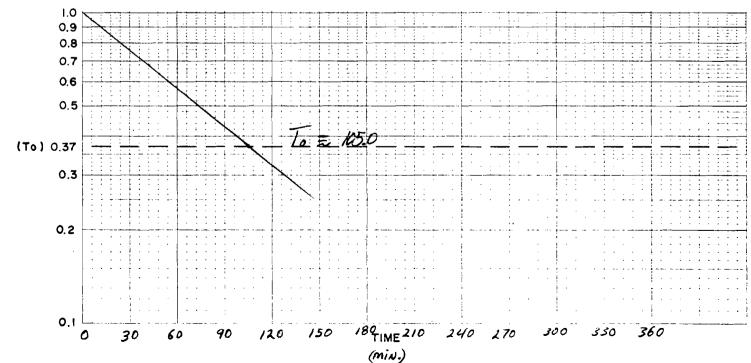
LOCATION Rochester N.Y. ELEVATION



STATIC HEAD (H) 6.83 '
PIPE RADIUS (r) 0.08 '
SCREEN RADIUS (R) C.33 '
SCREEN LENGTH (L) 6.83 '
INITIAL HEAD (Ho) 2.25
HYDRAULIC CONDUCTIVITY :

 $\frac{K=r^{2}\ln(L/R)}{2LTo}$ $K = 6.9 \times 10^{-6} \text{ cm./sec.}$

	(+t.)			
	WATER			H <u>-</u> h
TIME	DEPTH	(min.)	h	H-Ho
12:00	21.58	C^{-}	2.15	1.0
12:12	14.53	12	4.25	0.56
12:35	19.16	47	4.67	0.47
12:56	18.83	103	5.00	0.39
1:44	18.08	1 3 15	5.75	0.23
5:07	17.41	416	6.42	0.08
5:27	17.25	443	6.5%	
	_	_		
-				
			,	



APPENDIX C

TEST PIT LOGS

TEST PIT LOG

SITE: Jarl Extrusion

JOB #:

DBG FIELD S WEATHER:	SUPERVISOR: R. Foresti TEST PIT #: 1 DATE: 10/25/85
DEPTH	DESCRIPTION
 0 	Medium brown silt and sand, maist.
_ 1	median, enterior and a sixta
— 2 —	
— 3 —	
	
	
<u> </u>	Medium DRIUN Silt And SAND, lenses of
— 7 —	"VERNON" Red to BROWN clay And Silt, mist.
<u> </u>	Bottom of pit AppRox. 8 ft.
_ 9 —	
 10	
<u>11</u>	
NOTES:	
TEST PIT	
PLOT PLAN	O'BRIEN S GERE

O'Brien & Gere Engineers, Inc.

SITE: Jarl Extrusion

JOB #:

	FIELD S THER:	CUPERVISOR: R. Foresti TEST PIT #: 2 DATE: 10/25/85
- DE	PTH	DESCRIPTION
-	0 —	Medium brown silt and rand, moist.
-	2 —	
	3 — 4 —	
-	5 —	
	6 — 7 —	Medium brown silt sand, lenses of Vernon Red to brown clay and silt, moist.
-	8	Bottom of Pit Approx. 8 ft.
- 1	9 — 10 —	
-	11	
NO	TES:	· · · · · · · · · · · · · · · · · · ·
TE	ST PIT	
	OT PLAN	O'BRIEN & GERE O'Brien & Gere Engineers, Inc.

SITE: Jarl Extrusion

JOB #:

-	OBG FIELD S WEATHER:	SUPERVISOR: R. FORESTI TEST PIT #: 3 DATE: 10/25/85	
- [DEPTH	DESCRIPTION	
-	1	Medium DROWN Silt And SAND, moist.	
-	2	MEdium brown to dark brown silt and sand white granular slag/dross(2) materia	4/
-	— 3 — — 4 —	Medium brown silt and sand, moist.	
-	5 —		
-	— 6 —	Medium brown silt, little sand, few Vernon red clay and	
_	8	Bottom of pit Approx. 8 ft.	
-	9 —		
_	10 11		
	NOTES:		_
-			
_	TEST PIT	C BRIEN S GERE	

O'Brien & Gere Engineers, Inc.

SITE: Jarl Extrusion

JOB #:

-	OBG FIELD S WEATHER:	SUPERVISOR: R. Foresti TEST PIT #: 4 DATE: 10/25/85
_	DEPTH	DESCRIPTION
	<u> </u>	Medium brown silt and sand, moist
	1	THEATTEN DECEMBER STREET, METST
-	<u> </u>	j
_	 3 	lenses of med brown silt and sand w/ white granular Sing/dress material.
_	4	SIAG/AROSS MATERIAL.
-	 5 	
_	 6	
	 7	Grey to black sludge material, silt and sand, wood, Rubber,
-	<u> </u>	Grey to black sludge material, silt and sand, wood, rubber, and metal debris, moist towet, "septic" odor, Bottom of pit 8ft. Approx.
_	9 —	<u>'</u>
	10	
-	<u> </u>	
-	NOTES:	
_		
-	TEST PIT PLOT PLAN	O'BRIEN & GERE O'Brien & Gere Engineers, Inc.

SITE: Jarl Extrusion

WEATHER:		DATE:
DEPTH	DESCRIP1	ΠΟΝ
 0 	Medium BROWN silt AND SAM	d, moist
1		•
<u> </u>		
— 3 —	lenses of med brown silt and	sAND w/white GRANNIAR SlagidRoss
 4		, , , , , , , , , , , , , , , , , , , ,
5		
 6		
 7 	Grey to black sladge mater	vial, silt and sand, much wood,
 8	brick, Rubber hose debris, septic	Odor, Bottom of pit Approx. 8 ft.
<u> </u>		•
 10		
 11		
NOTES:		
•		
TEST PIT PLOT PLAN	i	O'BRIEN & GERE

SITE: Jarl Extrusion

OBG FIELD SUPERVISOR:	R. Foresti	TEST PIT #:6
WEATHER:		DATE: 10/25/85

-	DEPTH	DESCRIPTION
-	0	Medium brown sand and silt, moist.
-	2	2-3 inches white slag/dross fragments w/ sand & silt.
-	3	Medium brown sand and silt, moist. 3-6inches grey-black sludge w/silt, some sand.
-	4 5	Medium brown silt, some sand, moist.
-	6 —	
-	7 — 8 —	Bottom of pit AppRox. 8 ft.
-	— 9 —	
_	10 —	
_	NOTES:	_



SITE: Jarl Extrusion

OBG FIELD SUPERVISOR:	R. Foresti	TEST PIT #:
WEATHER:		DATE: 10/25/85

-	- DEPTH DESCRIPTION	
-	0 1	Medium brown silt and sand, moist. White slag/dross fragments withinsilt and sand.
-	2	Medium brown silt And SAND, moist
-	— 3 — — 4 —	
-	5	
•	6 — 7 —	
.	8	Bottom of pit Approx. 8 ft.
_	9	
-	—10 — —11 —	
_	NOTES:	



SITE: Jarl Extrusion

JOB #:

OBG FIELD SUPERVISOR:	R. Foresti	TEST PIT #: 8
WEATHER:		DATE: 10/25/85

-	DEPTH	DESCRIPTION
-	1 -	Medium brown silt and sand, moist. White slag/dross fragments within silt and sand.
-	2 3	Medium brown silt and sand, moist.
_	5 — 6 —	
-	7 — — 8 —	Bottom of pit Approx. 8 ft.
-	9 —	
-	10	
-	NOTES:	



SITE: Jarl Extrusion JOB #: _____

OBG FIELD SUPERMSOR: R. Foresti WEATHER:

TEST PIT #: 9
DATE: 10/25/85

–	DEPTH	DESCRIPTION
_	 0	Medium brown silt and sand, moist.
7	<u> </u>	
7	— 2 —	White dross/slag fragments within silt and sand.
7	— 3 — — 4 —	Medium brown silt and sand, moist.
-	5	
-	— 6 —	
7	— 7 — — 8 —	Bottom of pit Approx. 8ft.
- -	— 9 —	
- -	 10	
 -	—11 — NOTES:	

TEST PIT

PLOT PLAN



SITE: Jarl Extrusion JOB #:_____

	OBG FIELD SUPERVISOR:	R. Foresti	TEST PIT #: /0
-	WEATHER:		DATE: 10/25/85

-	DEPTH	DESCRIPTION
-	0 1	Medium brown silt And SAND, trace cobbles AND SMALL boulders, moist.
-	2	Concrete fragments, bricks, steel, and wood debris within silt and sand.
-	3 4	
-	5 —	Medium brown silt And SAND, moist.
•	— 6 — — 7 —	Black tar-like sludge within silt and sand,
	8 —	Black tar-like sludge within silt and sand, moist to wet. Bottom of pit approx. 8 ft.
-	9 —	
-	10 — 11 —	
-	NOTES:	· ·



SITE: Jarl Extrusion

JOB #:

	OBG FIELD SUPERVISOR:	R. Foresti	TEST PIT #: 11
•	WEATHER:		DATE: 10/25/85

-	DEPTH	DESCRIPTION
-	<u> </u>	Medium brown sitt And sand, trace cobbles, moist,
	1	
	2	Concrete, brick, and wood fragments within silt and sand, moist
-	3 —	
_	— + —	Medium brown silt and sand, moist.
-	6 —	Black tar-like sludge within silt and sand, and trace grey sludge lenses 1.0-0.5 inches thick, moist.
-	7 —)
	8 —	Bottom of pit Approx. 8 ft.
-	9 —	
_	10	
	11	
-	NOTES:	<u> </u>
_		



SITE: Jarl Extrusion

JOB #:

OBG FIELD SUPERVISOR:	R. Foresti	TEST PIT #: 12
WEATHER:		DATE: 10/25/85

-	DEPTH	DESCRIPTION
_	O — 1 —	Medium Drown silt And SAND, trace cobbles,
-	2	
-	3 4	
-	5	Black tar-like sludge within silt and sand, and trace grey sludge lenses 1.0-0.5 inches thick, moist.
-	6 — 7 —	The gray consess no orginers men, morse,
	 8	Bottom of pit Approx. 8 ft.
-	9 —	
_	10 — 11 —	
-	NOTES:	· ·



SITE: Jarl Extrusion

OBG FIELD SUPERVISOR: R. Foresti Test pit #: 13
WEATHER: DATE: 10/25/85

_	DEPTH	DESCRIPTION
_	0 1	Medium brown silt and sand, trace cobbles, wood and brick debris, moist.
-	2 —	Black to grey sludge within silt And sand, moist. Medium brown silt And sand, moist to wet.
-	3 4	The small property of were
-	5	
•	6 — 7 —	
-	8	Bottom of pit Appox. 8 ft.
-	9 — —10 —	
-	11	
	NOTES:	<u> </u>



SITE: Jarl Extrusion

OBG FIELD SUPERVISOR:	R. Foresti	TEST PIT #: 14
WEATHER:		DATE: 10/25/85

_	DEPTH	DESCRIPTION
_	1	Medium brown silt and sand, moist, little wood, brick, concrete, and steel debris.
_	2	
-	3 4	
-	5	Black tar-like sludge within silt And sand, and trace grey sludge lenses 1.0-0.5 inches thick, moist.
-	6 —	trace grey sludge lenses 1.0-0.5 inches thick, moist.
-	7 — 8 —	Bottom of pit Approx. 8 ft.
	9	
-	10	
41	11	
_	NOTES:	· · · · · · · · · · · · · · · · · · ·
_		



SITE: <u>Jarl Extrusion</u>

JOB #:

OBG FIELD SUPERVISOR:	R. Foresti	TEST PIT #: _/5
WEATHER:		DATE:

-	DEPTH	DESCRIPTION
-	0 1	Medium brown silt And SAND, moist.
-	— 2 —	
_	3	
_	4 5	
_	6 —	Medium brown silt and sand, grades into Vernon Red-brown clay and silt, moist to wet.
_	7 —	Bottom of pit Approx. 8 ft.
•	8 —	BOLION OF PILL APPROX. OTT.
-	9 10	
-	11	
-	NOTES:	-
	Ī	

TEST PIT

PLOT PLAN



APPENDIX D

CHAIN OF CUSTODY FORMS

AND

LABORATORY QA/QC



O'BRIEN & GERE

CHAIN OF CUSTODY RECORD

URVEY				SAMPLERS: Isign	erure),			
Site	A-24, Roc	hester,	NY	Hobert	- A-	Fore	sti	
STATION NUMBER	STATION LOCATION	DATE	TIME	SAMPLE TYPE Woter Coma. Grob.	SEQ.	NO. OF	ANALYS REQUIR	
17e	B-1_	75/85		2		4	TOX, HEX.	Chromiu. et Als
//	B-2	"		1		4	Please	= filter
11	B-3	11		1		4	SAMI	PRACE ME
11	B-4	11		1		14	the	oles in
						l		
					<u> </u>			·
			_	1 1	1 .			
 						_		
	,	-						
elinguis	hed by: (signature)	7/5/85	Receiv	red by: (Signature)			Dat	te/Time
	hed by: Isignourel	170,000	Receiv	red by: (Signature)			Da	te/Time
·	hed by: (Signowze)		Receiv	red by: (Signature)			Da	te/Time
Relinquis	shed by: (Signature)			red by Mobile Lo sis: (Signature)	aborat	ory for fie	ld Do	ite/Time
Dispatch	ed by: (Signature)	Date	Time	Received for	abora	tory by:	7-8° K	ste/Time
Method	of Shipment:			* Juliane	<u>, y u r</u>	vina.		<u>~1.77.!-</u>

C'Brien & Gere Engineers, Inc.

Box 4873 / 1304 Buckley Road / Syracuse, NY 13221 / (315) 451-4700 / CABLE OBRIENGERE

Boston, MA / New York, NY / Philadelphia, PA / St. Louis, MO / Washington, DC / White Plains, NY

TOTOL, MID I HOW FURN IN FIRST LOT S. MO I White Dining No



O'BRIEN & GERE

CHAIN OF CUSTODY RECORD

SURVEY		SAMPLERS: (Signapure) Polert H. Forest							
NONATZ RBBMUH	STATION LOCATION	STAC	TIME	SAMPLE Water Comp. Gra	51-	\$EQ. 20.	NO. OF	AMALYSIS REQUIRED	
#1	(test sit) 5-6'				X				
# /	aiptt. 7-8				X				
±2	5-6				X				
#2_	7-8				\times			 . 	
#3	≈2'				X				
#3	7-8		·		X				
= 4	Surface dross	sample	2		X				
+ 4/	€2'				X	1			
#4	3-4'				X	i			
#4	6-7				X		/		
#5_	73				X				
#5	4-5				X		1		
Relinquis	hed by: signature)		Receiv	Received by: (Signature)					ne
	shed by: (Signature)		Received by: (Signature)					Date/Tin	ne
Relinquished by: (Signature) Relinquished by: (Signature)				Received by: (Signature)					пe
				Received by Mobile Laboratory for field analysis: (Signature)				d Date/Tir	пe
Dispatched by: (Signowrel Date/1				/Time Received for Laboratory by:				Date/Tir	me
Method.	of Shipment:			<u> </u>		-			



CERIEN 5 GERE

CHAIN OF CUSTODY RECORD

SURVEY	te A-24			SAMPLER	eit.		. Fore	st.	
HOITATZ RBBMUH	STATION LOCATION	DATE	TIME	SAMPLE ! Water Comp. Grop.		SEQ. 70.	NO. OF	AMALYSI REQUIRE	
#10	£ 6.5′			i I	1 7				
#10	2 7.				1 /				
#//	5.5-6.5	, <u></u>			X)		
# //	7-8'				X		1		
#12	4.5-5				X		1		
# 12	6-7'				X				
13	1.5-2'				<u> X </u>		1		
13	7-8 '				Y		(
14	4.5-5	-	<u>i</u>		<u> X </u>				
14	7-8		<u> </u>		X				
15	5-6				<u> </u>				
15	7-8'				X				
Relinquis	hed by: 1signoures bert 4. Forest		Receiv	ved by: (Sign	Date	:/Time			
Relinquis	Recei	ved by: (Sign	Date	e/Time 					
Relinquis	ved by: (Sign	Date	/Time						
Reiinquis	ved by Mob sis: (Signature)	Dati	e/Time						
Dispatch	ed by: (Signature)	/Time	Received	Date	e/Time				
Method	of Snipment:		<u>. </u>						· — —

Clibrian & Gere Engineers, Inc. His I 4873 / 1304 Buckley Road - Syracuse, NY 13221 / (315) 451-4700 Clibrian R4 - Boston MA (Landover MC) New Work NY (51, p. 110) White Rising 1,5



NICON -	HARGRAVES	Q.C.	SHEET	BY	DATE	JOS NO
SAMPLES	66026-29	j	7/8/	/ 8 S		
	SPIK	.E	DUP	·		PA KNJWN
CD	100.	POREC.	14./)	4/.		102.6 %
	104.2					114.9
<u> </u>	100.		,02/,	,02		88,5
	100.		100./10	6.		101.4
			. ,			93, 3
P _B	100,0		. 36/14	16		81.8
<u> </u>				1		119.5
CR-HEX		Q, c.	TOT	ALS	≺.0	<u> </u>
		111111111111111111111111111111111111111				



N/XCN - H	ARGRAVES Q.C.	SHEET BY	DATE JOB NO
SAMPLES	<i>85152 - 55</i>	7-26-85	
	S.PIKE	DUP	EPA KIVOWN
	/00 70	/	70.90 REC
CR	100%		99.6 %
	100%	0.36/039	93.3 %
	10076	.02/102	88.5 %
		100/106.	101.4
<u> </u>	100.0	136/146	81.8
HG		1.6/4.7	122.9
CR-HEX	87.8	<.01/<.01	
·			
· · · · · · · · · · · · · · · · · · ·			<u> </u>
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· · · · · · · · · · · · · · · · · · ·			
			
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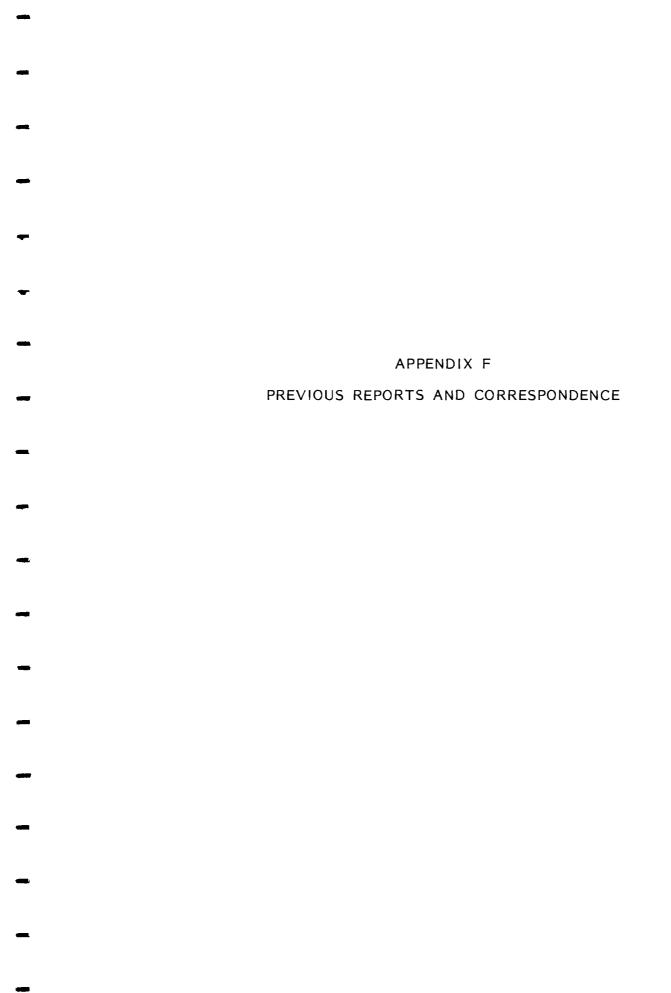
SUBJECT		SHEET BY	DATE	USS NO
NIXON - H	ARGRAVES	3		
—				
SAMPLES	A 46823-29	// -//-8	5	
-	SPIKE	<u> </u>		A KNOUN
CR	113.6	.04/.05		80,5
-	98.0	301./297.		100.3
	94.3	.02/.02		102.6
- ZN	95.4	22.8/22.7		107.7
PB	9 8 .0	.09/.11		108.0
A	101.8	<0.1/<0.1		
• PCTS		63.3/56.8		
		0-1-1-0-10-10-10-10-10-10-10-10-10-10-10		
·				· · · · · · · · · · · · · · · · · · ·
-	<u>.</u>			
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_				
<u> </u>				
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			·- ·- ·-	-
<u></u>				

APPENDIX E

REFERENCES

REFERENCES

- Grossman, I.G. and Yarger, L.B., 1953, Water Resources of the Rochester Area, New York: U.S. Geological Survey Circular 246, Washington, D.C.
- 2. 1938 Aerial Photos: National Archives and Records Service, Cartographic Archives Division, General Services Administration, Washington, D.C.
- 3. 1951, 1965, 1980 Aerial Photos: U.S. Department of Agriculture, Agricultural Stabilization and Conservation Service, 2222 West, 2300 South, P.O. Box 30010, Salt Lake City, Utah 84130.
- 4. Freeye, R.A. and Cherry, J.A., 1979, Groundwater: Prentice Hall, Inc., Englewood Cliffs, New Jersey



ABANDONED WASTE LAGOON STUDY

PREPARED FOR

JARL EXTRUSION, INC.

EAST ROCHESTER, NEW YORK

July 1982

FINAL

Prepared By:

LaBella Associates, P.C 339 East Avenue Rochester, New York 14604

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	2 - Test Bore Cross Sections															
3 - Delta Lab Analytical Report																

4 - Rochester Drilling Inc. Submittal

PURPOSE

The purpose of this study is to determine whether the abandoned lagoons at Jarl Extrusions are hazardous waste sites. This report discusses the field exploration undertaken to determine the nature of the substances buried in the abandoned lagoons.

BACKGROUND

From 1963 until 1976 Jarl Extrusions of East Rochester, New York discharged process wastewater from a metal finishing operation into a lagoon system for treatment. In mid 1980 the lagoons were filled in by bulldozing existing spoil into the lagoons and regrading the entire area. Sludge was not removed prior to filling in the lagoons.

Approximately 200,000 gallons per year were discharged to the lagoons. Two of the constituents in the wastewater were aluminum and chromium. Analytical data compiled from 1975 and 1976 are as follows:

Jarl Extrusions
Wastewater Characteristics

Concentrations in mg/l						
Minimum	Maximum	Average				
6.9	11.5	10.6				
1.0	333.0	160.0				
21.8	358.0	168.0				
1.1	9.1	6.2				
1.1	10.9	7.2				
	Minimum 6.9 1.0 21.8 1.1	Minimum Maximum 6.9 11.5 1.0 333.0 21.8 358.0 1.1 9.1				

FIELD EXPLORATION

A field exploration program, consisting of soil borings and sample extractions was established based on field reconnaissance and discussions with personnel from Jarl Extrusions.

The objective of the soil sampling was to obtain representative samples of the metal finishing sludge that was discharged. Existing data indicated that the lagoons were 10 - 12 feet deep at the time they were abandoned. Discussions with Jarl personnel indicated that a high percentage of the chromium sludge had settled out in the southern most lagoon. The original plant area drawing was revised after examining an arerial photograph and by physically examining the abandoned lagoon area. Three soil borings were located as close as possible to the center line of the first lagoon. Attachment 1 shows the approximate boundaries of the lagoons and the boring locations, as determined by the aerial photograph and field reconnaissance.

The test bores were done by Rochester Drilling Company, Inc. on May 6, 1982. A 2" diameter split spoon sampler was used for the first test bore, but the sand was too wet to obtain a satisfactory sample. A 3-inch diameter sampling spoon was used to extract a representative sample. Attachment 4 contains the Boring logs for all test bores.

LABORATORY ANALYTICAL DATA

Immediately after the test borings were completed, the samples were transported to Delta Labs, Inc. for preservation and subsequent analysis. Three samples were analyzed for pH, moisture content, total chromium and hexavalent chromium. Extraction Procedure Toxicity (EP Toxicity) tests were also performed to determine hazardous consistent levels in the extracted leachate. Attachment 3 contains the Analytical Report from Delta Labs.

DISCUSSION

Chemically, the chromium ion can exist in three (3) states: +2, +3 and +6. In ascending order, the salts with these valences are chromous, chromic (trivalent), and chromate (hexavalent), with dichromate being a particular form of chromate.

The chromic ion (trivalent state) is the most stable form. The hexavalent form is readily reduced to the trivalent state by even mild reducing agents.

At Jarl Extrusions we would not expect to find hexavalent salts because aluminum and aluminum salts, which are reducing agents, are present in large quantities in the sludge.

Due to the anaerobic conditions and the lack of oxidizing agents in the abandoned lagoons, oxidation of trivalent chromium to hexavalent chromium is not likely to occur.

This is further supported by information from the U.S. Environmental Protection Agency, (Ref: Federal Register, Volume 45, No. 212, page 72030), "Our concern was that trivalent chromium, under waste management conditions, could oxidize to the hexavalent form, which would render it highly mobile and toxic. Further analysis indicates, however, that such oxidation is not likely to occur under most waste management practices. Although the oxidation of trivalent chromium can occur on a theoretical basis, oxidation is unlikely to occur in normal land disposal situations."

The investigations show that greater than 99.7% of the total chromium is in the trivalent state. The hexavalent chromium content of test borings B-1 and B-2 are less than 0.06 and 0.03 mg/l, with total chromium at 425.0 and 11.6 mg/l, respectively. The results of test borings B-3 indicate a hexavalent chromium content of less than 11.2 mg//l and total chromium at 22,150 mg/l.

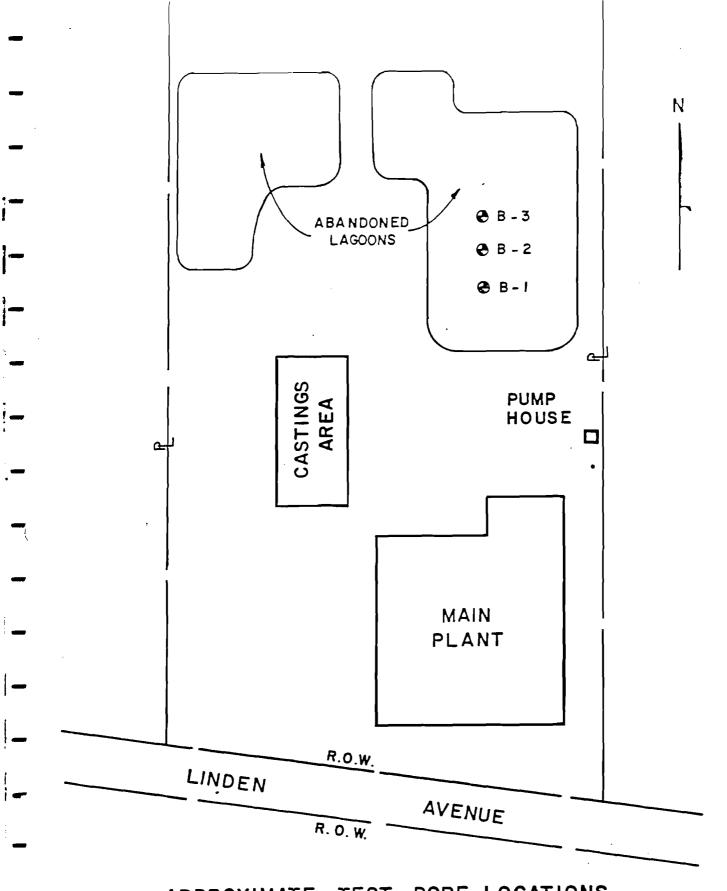
The Extraction Procedure Toxicity test results show that all three samples contain less than 0.05 mg/l total chromium. As stated in Part 261 of the Resource Conservation and Recovery Act, "A solid waste exhibits the characteristic of EP Toxicity if . . . the extract from a representative sample of the waste contains any of the contaminants listed in Table 1 at a concentration equal to or greater than the respective value given in that Table."

From Table 1 - Maximum Concentration of Contaminants for Characteristics of EP Toxicity: Chromium - 5.0 mg/1.

Therefore, based on the completed investigation, the buried sludge is nonhazardous, and the inactive waste impoundment lagoons do not appear to pose a present or potential hazard to human health or the environment.

RECOMMENDATIONS

In view of the above findings, we recommend that the <u>now filled lagoons</u> remain inactive and undisturbed to insure minimal threats to human health or the environment.

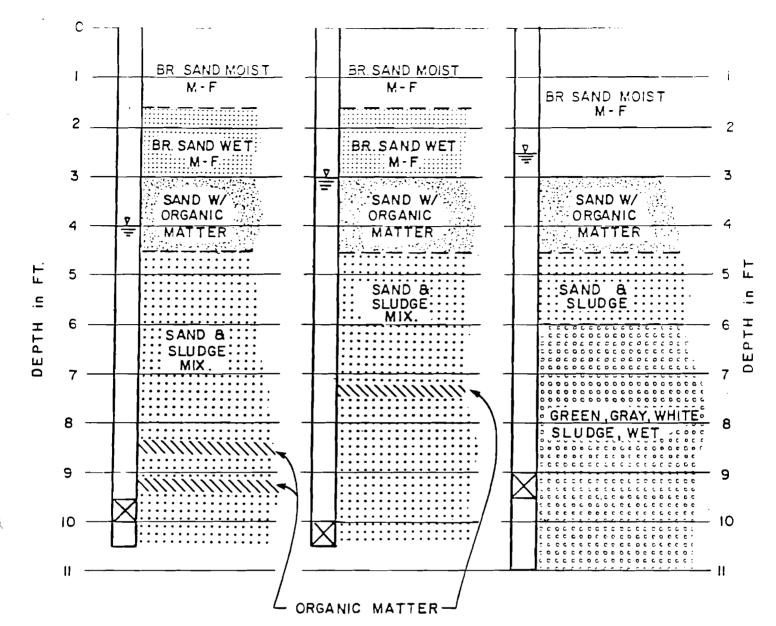


BORE LOCATIONS **APPROXIMATE** TEST JARL EXTRUSIONS, INC. EAST ROCHESTER, NEW YORK

JULY, 1982

JOB NO. 8211





KEY



INDICATES ANALYSED SAMPLE AREA

INDICATES GROUND WATER LEVEL

TEST BORE CROSS-SECTIONS

JARL EXTRUSIONS, INC.
EAST ROCHESTER, NEW YORK
JULY, 1982

JOB NO. 8211



NOTE:

TEST BORINGS . LAND . OFF-SHORE GROUNDWATER MONITORING WELLS . FOUNDATION INVESTIGATIONS DEEP HOLE GEOLOGICAL STUDIES OIL . GAS . GEOTHERMAL WELLS

45 STEEL STREET . ROCHESTER, NEW YORK 14606 . 1-716-458-0821 . TELEX, 978-462

	BORING TERMS AND SYMBOLS
N	The number of blows from a 140 pound hammer falling 30 inches needed to drive a split-spoon sampler the last 12 inch penetration of the sample.
С	The number of blows from a 300 pound hammer falling 24 inches to drive casing 12 inches.
100/1 inch	Number of blows needed to drive sampler or casing the distance shown. Used for indicating refusal.
WR	Sampler advanced by the weight of rods only, indicating very soft material.
WH .	Sampler or casing advanced by weight of hammer only, indicating very soft material.
ST	Shelby Tube Sampler (piston sample or pressed tube sample).
CS	Continuous sampling.
AX	1 1/8 inch rock core
BX	1 5/8 inch rock core.
NX	2 1/8 inch rock core.
75%	Percentage of rock core recovered.
P.L.	Plastic limit.
L.L.	Liquid limit.
M.C.	Moisture contentDry, Damp, Moist, Wet Saturated.
H.C.	Boring caved after casing or augers were removed.
W.C.	Weight of casing only, indicating very soft material.

WE CANNOT BE RESPONSIBLE FOR INTERPRETATIONS OR OPINIONS

MADE BY OTHERS FROM THE ENCLOSED DATA.

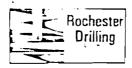
Ila Lab	FOCHESTE	R 1. 1 14:17				ANALYII	. : '
Client:			P.O		••	Date:_	
Sample I.D		D3.	te Receiv	red: 5 '6 ''	F	`age:	of
			_	1	<u> </u>	<u> </u>	
	рH	f later	*Cr _t	*Cr ₆			
I-7 I-2	7.4	15.9	11.5	40.7			
1-11 F-1	7.4	21.7	±25.	< 0.15			
• 2-10 I-3	11.0	74.4	22,150	£ 1.2			
* DFY LASIS							
•						,-	
EP TOXICITY	TEST RES	TLTS					
	Ag	<u> </u>	Cđ	Cr	Ba	ΗĘ	Se
• 1-0 E-2	₹0.03	< 0.05	<0.02	< 0.05	<0.4	<0.05	k 0.08
1-!: E-1	<0.03	< 0.05	<0.02	< 0.05	< 0.4	<0.05	6 0.08
_m E-3	< 0.05	< 0.05	< 0.02	< 0.05	< ○.4	< 0.05	⊀ 0.03
	Ph						
7 -Q B-2	<0.3						
3-11 E -2	<0.3						
2-M E-3	< 0.3					<u> </u>	
						<u> </u>	
	1	i ·		1			

methods are in accordance with <u>Standard Methods for the Examination of Water</u> and <u>Wastewater</u>, 14th Edition and/or <u>Methods for Chemical Analysis of Water</u> <u>Waste</u>, (EPA), 1974.

Units are in mg/1 unless otherwise stated.



Submitted by:
Approved by:



Refusal

Depth in boring where more than 150 blows per foot are needed to advance the sample spoon.

Cohesive Soil

Very fine grained soils with appreciable dry strength. Plastic--can be rolled into a thin thread when damp with no apparent water movement. Clays and silty to sandy clays show cohesion.

Description

Penetration Resistance Blows/Foot 0 - 2 3 - 5 6 - 15 16 - 25 26 or more

Very Soft Soft Medium Stiff Hard

Non-Cohesive Soil

Soils composed of silt, sand, and gravel, show no cohesion and only slight plasticity.

Description	Penetration Resistance				
	Blows/Foot				
Loose	0 - 10				
Firm	11 - 25				
Compact	26 - 40				
Dense	41 - 50				
Very Dense	51 or more				

Composition

Estimated Percentage

And	50	
Some	30 - 49	9
Little	11 - 29	9
Trace	0 - 10	0

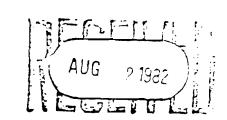
Note: WE CANNOT BE RESPONSIBLE FOR INTERPRETATIONS OR OPINIONS MADE BY OTHERS FROM THE ENCLOSED DATA.



FLUNCE OF WESTIGATIONS

DEER HOLE GEOLOGICAL STUDIES Oil • GAS • GEOTHERMAL WELLS

4: CTEEL STREET . ROCHESTER, NEW YORK 14608 . 1-716-458-0821 . TELEX 978-452



Loose brown wet medium to fine sand, trace of silt 3'0"-4'6" 4'6"-6'0" 5and saturated Loose medium to fine sand mixed with organic material (wood) Thin layer of black organic matter 8'9"-8'10" 7'6"-9'0" 7'6"-9'0" Thin layer of black and brown organic matter Sludge mixed with medium to fine sand and silt Boring terminated at 10'6" Notate Carples 0'0" 1'6" and 1'6" 2'0"	- DA	EVAT TE ST DUND LOW SI	ARTE	F	CASI	VG IN				WEATHER ETED 5/6/82 TECHNICIAN D. Zakett AT COMPLETION 5 /6 TIME -WELLPOINT AT
Dose brown moist medium to fine sand, trace of silt 1'	PTH		Bi	OWS (ON SA	MPL	ER	SAMPLE DO	may alter to	SOIL AND ROCK CLASSIFICATION
	15								0'0"-1'6" 1'6"-3'0" 3'0"-4'6" 4'6"-6'0" 6'0"-7'6" 7'6"-9'0"	of silt Loose brown wet medium to fine sand, trace of silt Sand saturated Loose medium to fine sand mixed with organic material (wood) Thin layer of black organic matter 8'9"-8'10" Thin layer of black and brown organic matter Sludge mixed with medium to fine sand and silt Boring terminated at 10'6" Notes: Samples 0'0"-1'6" and 1'6"-3'0" were retrieved with a 2" sampling spoon and placed in pint jars Samples from 3'0"-10'6" were retrieved with a 3" split spoon and placed in quart jars Sampling spoons were washed with acetone before sampling each

Rephaster Drilling

GFO. RA MONITORING WELLS • FOUND ON RECESTIFICATIONS

DEEP HOLE GEO. OGICAL STUDIES OIL • GAS • GEOTHERMAL WELLS

46 112EL STREET . • ROCHESTER NEW YORK, 14606 . • 1:716-455-0821 . • TELEX 978-462

			F	ROJE	ECT N	10.	24	127	PAGE] OF] BORING NO. B-2
- PR	OJEC.	Τ							Extrusion, Linden Avenue E., Rochester, h.Y.
	IENT							P.C., East	Avenue, Rochester, N.Y.
	EVAT	ION						INSPECTOR	WEATHER
- DA	TE ST	ARTE	D _		5/6	/82			ETED 5/6/82 TECHNICIAN D. Zakett
			ER				3	3 '0 "	AT COMPLETION 5/6 TIME
B E I	LOY S	URFAC	Έ	CASI	NG OI	<u> - TU</u>	_		WELLPOINT AT
-		_ _		٠.		 -			
7TH		7				<u>c cr</u>	lange Tw	s may alter	the observed water levels
A 166			OWS			ER	축하	DEPTH OF	SOIL AND ROCK CLASSIFICATION
FACE	<u></u>	6"	<u> </u>	1/8	24"	Z	SAMPLE NO.	SAMPLE	REMARKS
		}						0'0"-1'6"	Loose brown moist medium to fine sand,
-		<u> </u>	<u> </u>]	trace to little silt 2'0
ļ			<u> </u>					1'6"-3'0"	Loose brown wet medium to fine sand,
									trace of silt 4'C
-		<u> </u>	<u> </u>				<u> </u>	3'0"-4'6"	Sand saturated
		<u> </u>			ļ		<u> </u>	4'6"-6'0"	Loose medium to fine sand mixed with black sludge
ļ		-	ļ	ļ	ļ	<u> </u>			
- (<u> </u>			ļ	6'0"-7'6"	Thin layer of organic matter
		 	<u> </u>					7'6"-9'0"	Sludge mixed with medium to fine sand and silt
		 	-	-	-			9'0"-10'6"	Trace of wood and roots noted 10'6
_		 	-	1	 				
		<u> </u>	<u> </u>	 		<u> </u>	 	1	Boring terminated at 10'6"
_		<u> </u> 	-	-	-	<u> </u>			
ł		 	 	┼	┼	 	1	1	Notes: Samples from 0'0"-10'6" were retrieved with a 3" sampling spoon and placed
		 	 	 	 		 	}	in quart jars
-		+	 	-	-	-	1	1	Sampling spoons were washed with
		1	1	1	 			1	acetone before sampling each
		 	<u> </u>	<u> </u>	†			1	layer
-		†						1	
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		<u> </u>	<u> </u>			-	<u> </u>		
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-			N	OTES	5: K =	NO.	OF B	LOWS TO DRIVE _ LOWS TO DRIVE	SPOON WITH LB. WT EA BLOW CASING WITH LB. WT EA BLOW

Drilling

DOTE OF UPON DEPOAL STUDIES OF A SECRETARY WELLS

41 STEEL STREET . * ROCHESTER NEW YORK 1460: * 1:716 458-0821 * TELEX 978-462

									PAGE 1 OF 1 BORING NO. B-3	
→ PR	OJECT	<u> </u>	Sub	sum	f <u>ace</u>	Inv	<u>vesti</u>	gation. Jarl	Extrusion, Linden Avenue E., Rochester, h.Y.	
CL	IENT		LaB	ella	As	soc:	iates	, P.C., East	Avenue, Rochester, N.Y.	
ΕL	EVAT	ION_			_			INSPECTOR	WEATHER	_
— DA	TE ST	ARTE	ED _		5/	6/82	<u> </u>	COMPL	ETED 5/6/82 TECHNICIAN D. Zakett	
							2	<u> </u>	AT COMPLETION 5 /6 TIME	
B E !	פי אים	JRFAC	· E	CASI	NG OI	UT -			WELLPOINT AT	
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утн 1	<u>a 5011</u>	ora T	nu c	1 11116	1616		inges	may arter t	1 Te observed water revers	
OW		B t	LOWS	ON SA	AMPL	ER	축호	DEPTH OF	SOIL AND ROCK CLASSIFICATION	
FACE	C	6	12	1/8	24"	.N_	SAMPLE NO.	SAMPLE	REMARKS	
								0'0"-1'6"	Loose brown moist medium to fine sand, trace to little silt	_
		†						1'6"-3'0"		3'0
									Sand saturated	
_								3'0"-4'6"	Loose medium to fine sand mixed with	
		T	<u> </u>		_			4'6"-6'0"	sludge	6'0
		<u> </u>	<u> </u>				<u> </u>	6'0"-7'6"	Larger concentration of sludge starting at	
- ,				<u> </u>					6'0" and continuing to 11'0"	
			<u> </u>	<u> </u>	<u> </u>			7'6"-9'0"	Greenish gray white sludge, wet	
								9'0"-11'0"	Greenish gray white slude, wet 1	<u>1 'C</u>
		<u> </u> 							Boring terminated at 11'0"	
-									Notes: Samples from 0'0"-11'0" were	
5]		<u> </u>					retrieved with a 3" sampling	
		<u>L</u> .			ļ	<u> </u>	<u> </u>		spoon and placed in quart jars	
-		<u> </u>	ļ —		<u> </u>	ļ			Sampling spoons were washed with	
		ļ	<u> </u>	<u> </u>	ļ	ļ	 		acetone before sampling each	
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New York State Department of Environmental Conservation 6274 E. Avon - Lima Road, Avon, New York 14414 Felephone: (716) 226-2466

Henry G. Williams Commissioner

Eric A. Seiffer Regional Director

April 21, 1983

Mr. Robert Haway Pro. Box 1051 Lincoln First Tower Rochester, New York 14603

Dear Mr. Haway:

RE: Jarl's Extrusions Abandoned Waste Lagoon Study

This letter is in response to the telephone conversation on April 13, 1983 in regards to the "Abandoned Waste Lagoon Study" for Jarl's Extrusion.

I have compiled a list of questions that will have to be addressed before any revisions would be considered in Jarl's score.

The questions are as follows:

- 1. There was never a mention as to the original construction of the lagoons. Were they man-made or natural pond depressions? Were they even lined, perhaps with clay?
- 2. What are the exact dimensions of both lagoons, height, width and depth?
- 3. As stated in the report, the lagoons were 10-12 feet deep when they were abandoned, what was the rationale for taking samples at the depths indicated on the test bore cross-section?
- 4. Since the groundwater seems to have saturated the lagoons, as indicated on the test bore cross-sections, why were there no groundwater samples taken?
- 5. The rational for choosing the sampling locations is not clear. Why were the three soil samples located as close as possible to the center line of the first lagoon?

- 6. Couldn't some of the more soluable contaminants end up in the overflow lagoon?
- 7. Where are the exact locations of influent and effluent pipes?
- 8. What was the rational for using sand as a cover material for the lagoons? Would not a clay cover prevent percolation to the groundwater of possible contaminants?
- 9. Was any information generated as to the direction of groundwater?

As a reference, the consultant companies hired for the States Superfund sites are required to do the following for their field investigations:

- 1. Geophysical studies conductivity and magnetometer surveys.
- 2. Borings and monitoring wells to collect hydrogeological data.
- 3. Test pits and auger holes to confirm results of geophysical studies.
- 4. Sampling and analysis including
 - a. soil sampling from borings, test pits and auger holes.
 - b. soil'sampling from surface areas.
 - c. surface water sediments.
 - d. surface water samples.
 - e. groundwater samples.

I realize the questions are broad but they need to be addressed. If a meeting would be a better solution to resolving these questions, it could be arranged.

If you have any questions or comments, please do not hesitate to call.

Sincerely,

Deborah A. Jackson
Senior Engineering Technician

Division of Solid Waste

Doborah dackon

DIVISION

DAJ:ph

cc: Phil Aldrich, Plant Manager



JEPL EXTRUSIONS, INC.

860 LINDEN AVENUE • P.O. BOX 351 E. ROCHESTER, N.Y. 14445 • TLX 97-8385 • (716) 586-2660

May 18, 1983

Mr. Robert Harvey
Nixon, Hargrave, Devans & Doyle
Floor 22
Lincoln First Tower
Rochester, NY 14643

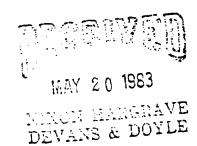
Dear Bob:

In accordance with our phone conversation, attached is a copy of the answers to questions I send to LaBella Associates.

Very truly yours,

Philip Aldrich Plant Manager

PA:jb Enclosure



QUESTIONS FROM NYSDEC

1.	Jarl	should	addres	SS.			•	•
		man-mac	de, no	lin	er	•		

2. Jarl should address.

use aerial photo

- 3. Sampling of the lagoons was terminated at the 11 foot level because it is believed that the aluminum hydroxide that was discharged through the years had formed a "liner" for the lagoons, and to penetrate this sludge layer would possibly cause the dispersion and migration of the ground water.
- 4. All sludge samples extracted from the lagoons were analyzed for total chromium and hexavalent chromium. The analysis of these samples indicated no discernable levels of hexavalent chrome, thus making any ground water analysis redundant.
- 5. The three soil samples were located as close as possible to the center line of the first lagoon because of the nature of the construction of the lagoon. The hydraulic gradient, or flow line, was directed through the center of the lagoon. (See attached sketch.) Most of the sludge settled out in the first lagoon.
- 6. All records indicate that no other soluble or insoluble contaminants were discharged into the lagoons.

Jarl should expand on this.

7. Jarl should address.

use aerial photo

- 8. The aluminum hydroxide wastes that were discharged through the years has formed a "liner" on the bottom of the lagoons, thus containing any contaminated ground water. When the lagoons were built, the spoil removed was placed around the perifery of the lagoons. When abandonded, the existing spoil was bulldozed into the voids.
- 9. Because of the topographical layout of the area, it is believed that the general ground water migration is to the north, northeast.

Associates, P.C. 339 East Avenue Rochester, New York 14604 (716) 454-6110	PROJECT NO. N.A. SUBJECT ARANDONED LAGO	CALC. BY AND DATE LOCIETY CHECK BY DATE
	HMENT A	
	⊕ B-3	
	\$ 8-2	, IET LAGOON
	⊕ B-1	
	APPROX. INL LOCATION	€T
	· PLAN·	
•		
		10-12 DEEPEST

· SECTION ·

· NOT TO SCALE .



POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

EXECUTIVE SUMMARY

Jarl Extrusions	NYD002209625
Site Name	EPA Site ID Number
Linden Ave., Pittsford, NY	02-8303-100A
Address	TDD Number
	•
•	
SITE DESCRIPTION	
Jari Extrusions is a metals finishi	ng operation located in an industrial area ea
of Rochester. From 1963 until 1976 a	pproximately 200,000 gallons of process waste
water was discharged to on-site lagoo	ns annually. Two of the major constituents in
the waste water were aluminum and chr	omium. In 1980, the lagoons were filled with
removal of any sludge. Subsequent te	sting of one lagoon has indicated soil
contamination.	
FIT personnel conducted sampling Sent	ember 7, 1984. Four (4) soil samples, two (2
sediment and two (2) surface water sai	mples were collected.
(2) 330 (300 (300)	
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HAZARD RANKING SCORE:	•
	•
Prepared by: William Dussell of NUS Corporation	Date: 12/31/84



Site Inspection Report

47	BA

POTENTIAL HAZARDOUS WASTE SITE

L DER	PICATION
01 STATE	02 SITE NUMBER
NV	0002200625

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II. SITE NAME AND LOC		- LOVA I IVIT AND	INGFE				
O1 SITE NAME (Logal common.			02 STREE	T, ROUTE NO.: OR SPE	CIFIC LOCATION IDENTIFIER		
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Jarl Extrusions				Linden Avenue	OS COUNTY	Torco uso	1 08 CONG
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Pittsford			NY	14445	Monroe	55	28
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III. INSPECTION INFOR							
01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERAT	TON				
9 , 7 , 84	DI ACTIVE	19		<u> Present</u>	UNKNOWN		
MONTH DAY YEAR 04 AGENCY PERFORMING IN:		1BEG	NNING YEA	A ENDING YEAR			
	CONTRACTOR NUS Corp.	oration		15.00C19041	MICIPAL CONTRACTOR		
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E. STATE D. F. STAT	ECONTRACTOR	(Maymo of Arm)	G G. O1	THER	(Specify)		
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OS OTHER INSPECTORS		Public Hea	Tru 20	ECIALISE	NUS Corporation	12 TELEPHON	E NO.
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William Russell		Chemical E	nginee	<u>r</u>	NUS Corporation	1.201, 223	,-0100
		1.			}	(000) 000	
James Sullivan		Chemist			NUS Corporation	(201)225	-6160
Gregory Burchett	e	Geologist			NUS Corporation	(201)225	-6160
						 	
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		·				()	_
13 SITE REPRESENTATIVES I	NTERVIEWED	14 TITLE		15ADDRESS		16 TELEPHO	NE NO
Philip Aldrich		Plant Manag	ar 1	860 linden Ave	nue, Pittsford, NY	(716) 58	6-2660
						 	
Dahasa IIsaa 🙃		Attorney fo				(716) 54	6-8000
Robert Harvey, E	sq	Jarl Extrus	ions	P.O. Box 1051	Rochester, NY	10 20 7 34	0-0000
•		Maintanence				1016 . 50	c 0000
Paul Golett		Supervisor		360 Linden Ave	, Pittsford, NY	716) 58	0-2000
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17 ACCESS GAINED BY	18 TIME OF INSPECTION	19 WEATHER CON	2770046				
(Cheek ever) PERMISSION WARPANT	1100 hrs			breeze from s	outhwest		
IV. INFORMATION AVA	ALABLE FROM						
01 CONTACT		02 OF 149-1-019-				03 TELEPHON	E NO.
80 8 10						(201) 32	1-6685
Mark Haulenbeek	an Analysis () or		EPA, Region II, Edison, NJ				
D4 PERSON PERPONSILLE!	OR SITE INSPECTION FORM	OS AGENCY	06 06	GANZATION	07 TELEPHONE NO.	OS DATE	
William G. Russe			NUS	Corporation	(201) 225-6160	12 / 3	31 /84 AV YEAR

		PO1	ENTIAL HAZA	L IDENTIFICATI	L IDENTIFICATION			
SEPA			SITE INSPEC	TION REPORT	NY DOO22	09625		
IL WASTES	TATES, QUANTITIES, AP	D CHARACTER	ISTICS					
	TATES (Check of their apply) E SLURRY ER, FINES X F LIQUID E C GAS	02 WASTE QUANTITY AT SITE (Measures of veers quantities must be independent) TONS CUBIC YARDS 5200 NO. OF DRUMS		O3 WASTE CHARACTERISTICS (Check of that each) US A TOXIC E SOLUBLE E G. CORROSIVE G. F. INFECTION C. C. RADIGACTIVE L. H. KGNITABLI		E I MIGHLY VOLATILE DUS LI J EXPLOSIVE BLE LI K REACTIVE		
III. WASTE	YPE							
CATEGORY	SUBSTANCE!	NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS			
SLU	SLUDGE		5200	cubic vards	Based on June	22. 1976 Corre	spondance	
OLW	OILY WASTE				from P. Aldri	ch: 1460 gpd	15% solid	
SOL	SOLVENTS		Unknown		for 13 years.			
PSD	PESTICIDES							
occ	OTHER ORGANIC C	HEMICALS			Total wastewater disposed of in la			
100	INORGANIC CHEMIC	CALS			as 200,000 gpd.			
ACD	ACIDS							
BAS	BASES							
MES	HEAVY METALS		Unknown					
IV. HAZARO	OUS SUBSTANCES (See A	apandis for most frequen	By cited CAS Numbers)					
01 CATEGORY	02 SUBSTANCE	ME	03 CAS NUMBER	04 STORAGE/DIS	POSAL METHOD	05 CONCENTRATION	08 MEASURE CONCENTRAT	
MES	Aluminum		7429-90-5	Surface impor	indment	358*	mg/1	
MES	Chromium (+3)		16065-83-1	Surface impou	indment	10.9*	mg/1	
	(+6)		18540-29-9					
	*Maximum Concent	raction of m	etals					
	in discharged w	astewater_						
	1975 to 1976.							
	_ 		,	7				

V. FEEDSTOCKS (See Assend) for CAS Parasses

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER			
FDS	Not applicable		FDS					
FDS			FDS					
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FDS		1	FDS					

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NUS Dept. of Environmental Conservation, Region 8, Avon, NY

SEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

L IDENTIFICATION

01 STATE 02 STE NAMES

NY D002209625

PART 3 - DESCRIPTION OF HAZARDQUS CONDITIONS AND INCIDENTS

02 G OBSERVED (DATE:) Ø POTENTIAL	ALLEGED
04 NARRATIVE DESCRIPTION		
scharged to unlined lagoons.	Lagoons were covered	l, without
Groundwater flow is towards	Lrondequoit Creek. V	illage of
y.	•	
) Ø POTENTIAL	C ALLEGED
04 NARRATIVE DESCRIPTION		
uminate creek which drains to	nslope from the site. Lake Ontario. Estim	Contaminant: ated 75% of
or drinking water supply.	,	•
02 C OBSERVED (DATE:) D POTENTIAL	ALLEGED
04 NARRATIVE DESCRIPTION		
	•	
02 G OBSERVED (DATE:) D POTENTIAL	□ ALLEGED
OF HANKATIVE DESCRIPTION		
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02 TORSEMED (DATE:) D POTENTIAL	C ALLEGED
04 NARRATIVE DESCRIPTION		to restruct
covered.		•
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02 & OBSERVED (DATE: 5/82) [] POTENTIAL	O ALLEGED
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02 % OBSERVED (DATE:5/82 04 NARRATIVE DESCRIPTION ted by site owner indicates o	contamination by heav	y metals.
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02 C OBSERVED (DATE: 5/82 O4 NARRATIVE DESCRIPTION Sted by site owner indicates of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control o	contamination by heaven	y metals. ALLEGED water wells
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	04 NARRATIVE DESCRIPTION scharged to unlined lagoons. Groundwater flow is towards y. 02 □ OBSERVED (DATE: 04 NARRATIVE DESCRIPTION oit Creek in the ravine, down minate creek which drains to or drinking water supply. 02 □ OBSERVED (DATE: 04 NARRATIVE DESCRIPTION 02 □ OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	O4 NARRATIVE DESCRIPTION scharged to unlined lagoons. Lagoons were covered Groundwater flow is towards Lrondequoit Creek. V y. O2 □ OBSERVED (DATE:

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

L IDENTIFICATION OI STATE OZ SITE MANGER D002209625 NY PART 1 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS LAZARDOUS CONDITIONS AND INCIDENTS (Comment) C J. DAMAGE TO FLORA C ALLEGED 02 C OBSERVED (DATE: E POTENTIAL E NARRATIVE DESCRIPTION No potential exists. DT E K. DAMAGE TO FAUNA E POTENTIAL ALLEGED 02 C OBSERVED (DATE: _ DA NARRATIVE DESCRIPTION (IN Release of contaminants to surface waters may result in damage to aquatic fauna. IT IS L CONTAMINATION OF FOOD CHAIN 02 C OBSERVED (DATE: ALLEGED 14 NARRATIVE DESCRIPTION Release of contaminants to surface waters may result in impacts to local food chains. 01 🗷 M. LINSTABLE CONTAINMENT OF WASTES 02 3 OBSERVED (DATE: ___9/7/84___) C POTENTIAL C ALLEGED 03 POPULATION POTENTIALLY AFFECTED: 8000+ 04 NARRATIVE DESCRIPTION Former lagoons were unlined and lack an impermeable cover. 01 & N. DAMAGE TO OFFSITE PROPERTY 02 C OBSERVED (DATE: I POTENTIAL □ ALLEGED DA NARRATIVE DESCRIPTION Release of contaminants to surface water may result in damage to offsite property. 01 TO CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 02 TOBSERVED (DATE: _ C POTENTIAL C ALLEGED 04 NARRATIVE DESCRIPTION No potential exists. 01 & P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION 02 C OBSERVED (DATE: __ 3 POTENTIAL . C ALLEGED Much of the Linden Avenue area showed active dumping in 1960's and 1970's aerial photographs. There may have been illegal dumping at the site during this period. 05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS 150,000 III. TOTAL POPULATION POTENTIALLY AFFECTED: IV. COMMENTS The site is located in an industrial area east of Rochester. Residential and commercial development exist to the south and west. North of the site is a steep ravine sloping to a public forest area and a tributary of Irondequoit Creek. V. SOURCES OF INFORMATION (Con assesse resources + g. Maio Mas. Agrico analyses, resource

Monroe County Environment Management Council Files, Rochester, MY NYS Dept. of Environmental Conservation Region 8 files, Avon. NY US EPA Files, New York, NY. Site Inspection 9/7/84.

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POTENTIAL HAZARDOUS WASTE SITE

LIDENT	PICATION
O1 STATE	02 SITE NUMBER
NY	0002209625

	BART 4 - B		PECTION SCRIPTIVE INFORMATI	, L	NY D002209625
	PARI 4-F	ENMI AND DE	CUL IIAE NA AUNINI		·
II. PERMIT INFORMATION O1 TYPE OF PERMIT ISSUED	02 PERMIT NUMB	ER COS DATE IS	SUED TO EXPIRATION DATE	05 COMMENTS	
(Check all finit 400/y)					. :
A. NPDES				None	
CB. UIC					
CC. AIR					
D. RCRA					
E. ACRA INTERIM STATUS					
G F. SPCC PLAN					
☐ G. STATE (Specify)					
☐ H. LOGAL _{/Specify)}					
CI. OTHER (Specify)					
X J. NONE					
II. SITE DESCRIPTION		·			
11 STORAGE/DISPOSAL (Cheek all met asset)	02 AMOUNT 03	JUNIT OF MEASURE	04 TREATMENT (Choos at mer a	Sety)	05 OTHER
A. SURFACE IMPOUNDMENT	5200	_Cubic_yard '	A INCENERATION		E A BUILDINGS ON SITE
C 8. PILES			D B. UNDERGROUND INJ		a x solumes on the
C. DRUMS, ABOVE GROUND D. TANK, ABOVE GROUND			EL C. CHEMICAL/PHYSICA	r.	2
E. TANK, BELOW GROUND			D. BIOLOGICAL D. E. WASTE OIL PROCES	SING.	06 AREA OF SITE
D F. LANOFILL			D F. SOLVENT RECOVER		1
☐ G. LANOFARM			() G. OTHER RECYCLING	RECOVERY	14 (Acres)
H. OPEN DUMP			D H. OTHER	Lody)	· ·
I. OTHER			· · ·		1
Two former waste water	lagoons are lco	ated on the p	roperty behind the	facility.	These have been
Two former waste water filled and landscaped. V. CONTAINMENT	·.				
Two former waste water	C B. MODERATE		roperty behind the		These have been
Two former waste water filled and landscaped. V. CONTAINMENT OF CONTAINMENT OF WASTES (Cross one) C. A. ADEQUATE, SECURE	C B. MODERATE RS. BARRIERS, ETC. INS. We're unlined	E 83 C. ₽	IADEQUATE, POOR	D. INSECU	RE, UNSOUND, DANGEROUS
Two former waste water filled and landscaped. V. CONTAINMENT T CONTAINMENT OF WASTES/CROSS ON E A. ADEQUATE, SECURE 2 DESCRIPTION OF DRUMS, DIKING, UNEX FORMER WASTEWATER lagoo sand, is very permeable	C B. MODERATE RS. BARRIERS, ETC. INS. We're unlined	E 83 C. ₽	IADEQUATE, POOR	D. INSECU	RE, UNSOUND, DANGEROUS
Two former waste water filled and landscaped. V. CONTAINMENT TO CONTAINMENT OF WASTES (Cross one) A. ADEQUATE, SECURE 2 DESCRIPTION OF DRUMS, DIKING, LINE: Former wastewater lagoo sand, is very permeable V. ACCESSIBILITY 01 WASTE EASILY ACCESSIBLE: 02 COMMENTS	E B. MODERATE RS. BARRIERS, ETC. INS. We're unlined	E & C. W	NADEQUATE, POOR	D INSECU	RE. UNSOUND. DANGEROUS
Two former waste water filled and landscaped. V. CONTAINMENT TO CONTAINMENT OF WASTES (Cross only 2 DESCRIPTION OF DRUMS, DIKING, LINE) FORMER WASTEWATER lagoon sand, is very permeable V. ACCESSIBILITY O1 WASTE EASILY ACCESSIBLE: 02 COMMENTS Lagoons have been cover the yard behind the fac	D B. MODERATE RS. BARRIERS, ETC. INS. Were unlined IYES INO red with soil and	and covered w	is no indication of	D INSECU	RE. UNSOUND. DANGEROUS
Two former waste water filled and landscaped. V. CONTAINMENT TO CONTAINMENT OF WASTES (Cross and Description of Drums, Dixing, Line) Former wastewater lagoo sand, is very permeable V. ACCESSIBILITY O1 WASTE EASLY ACCESSIBLE: Q2 COMMENTS Lagoons have been cover	B. MODERATE RS. BARRIERS, ETC. INS. Were unlined IYES CINO red with soil and ility. Cho appeade references, e.g. same	and covered w	is no indication of	D INSECU	RE. UNSOUND. DANGEROUS

EPA FORM 2070-13 (7-61)

		POTE	NTIAL HAZAR	DOUS W	ASTER	ITE		ENTIFICATION	
_EPA			SITE INSPECT			•••	O1 ST.	0002209625	
·		PART 6 - WATER,	DEMOGRAPHI	C, AND EN	IVINONI	MENTAL DATA		1 0002203023	
DRINKING WATER S	UPPLY		į.						
OF DRINKING SUPPI	LY		02 STATUS				Q.	DISTANCE TO SITE	
	SURFACE	METT	ENDANGERE	D AFFE	CTED	MONITORED			
CMMUNITY	A. (3)	8.02	A. 🗆	8.	_	C. 🗆	^	(mi)	
COMMUNITY	C. 🗆	0.52	0. 🗆	E.		F. 🗅		·(mi)	
I. GROUNDWATER									
1 GROUNDWATER USE IN V		- 							
A. ONLY SOURCE FOR	OFFINKING	E B. DRINKING	₩			L. INDUSTRIAL, IMPIQU HITEOS OHIOMON	TION	C D. NOTUSED, UNUSEA	R.E
•		COMMERCIAL, INC	CUSTRIAL, IMPRIGATION	4					
			يم						·
TPULATION SERVED BY	GROUND WAT	47,500		03 DISTANC	E TO NEAR	EST DRINKING WATER	METT -	1.5 (ml)	
4 DEPTH TO GROUNDWATE	Я	OS DIRECTION OF GROU		OS DEPTH TO OF COND		OF POTENTIAL YE	i.o	06 SOLE SOURCE AQU	FER
4-5ft.	_(10)	northeast bu	1	20		3 000 000	{apa)	C YES ED	Ю
DESCRIPTION OF WELLS								<u> </u>	
•			·						
RECHARGE AREA	Soils of	moderate perme	ability	11 DISCHAR	COMME	MTS			
E NO		charge of the 1	rondogenesee	80 NO					
	Aquifer	System.			L				
. SURFACE WATER		·					<u></u>		
SURFACE WATER USE (CA B A. RESERVOIR, REC DRINKING WATER	REATION		N. ECONOMICALLY TRESOURCES	□ c . 6	COMMER	CIAL, INDUSTRIAL	٥	D. NOT CURRENTLY L	SED
2 AFFECTED/POTENTIALLY	AFFECTED BO	DIES OF WATER							
NAME:						AFFECTE	D	DISTANCE TO SITE	
Irondequoit Cr	eek	•				-		0.5	
Lake Ontario							•	8.4	, (mi) , (mi)
						0	-		_ (mi)
. DEMOGRAPHIC AND	PROPERTY	INFORMATION							
1 TOTAL POPULATION WITH						GZ DISTANCE TO NEA	REST PO	PULATION	
		0 (2) kg ee 02 27	Tuber #	n w ee oe	1				
A 3800		21,200	C	34.800	1		0.15	(mi)	
NO. OF PERSONS		NO. OF PENSONS	- N	O. OF PERSON					
3 NUMBER OF BUILDINGS V	(2) OWT MEHTIN	MILES OF SITE	-	04 DISTANC	E TO NEAF	VEST OFF-SITE BUILDS	44		
	5,000+	1		l		0.02		(en	

OS POPULATION WITHIN VICINITY OF SITE (Provide narrance description of neaves of population auditor reports of one, e.g., niral, values, demonts providend unbas area

The siteklocated in an industrial area surrounded by suburban development. Two moderately populated urban areas, East Rochester and Penfield, are located nearby.

POTENTIAL HAZARDOUS WASTE SITE

L IDENTIFICATION

JEPA	PART 5-W	Site inspec Ater, Demographi	TION REPORT C, AND ENVIROR	IMENTAL DATA	NY D002209625
NVIRONMENTAL INFOR	MATION	· · · · · · · · · · · · · · · · · · ·			
RMEABILITY OF UNSATURATE	D ZONE (Check one)				
□ A. 10-4 -	10~4 cm/sec □ 8.	10-4 - 10-4 cm/sec □	C. 10 ⁻⁴ ~ 10 ⁻³ cm/	sec (\$ 0. GREATE	R THAN 10-3 cm/sec
AMEABILITY OF BEDROCK (CA	BCK GNH)				
	nan 10 ⁻⁶ on\sect	RELATIVELY IMPERMEABL	110-2 - 10-4	cavaeci). VERY PERMEABLE (Grands than 10 T 2 cm see)
PTH TO BEDROCK	1 04 DEPTH OF CON	<u>TREADILITY WILL var</u> TAMINATED SOIL ZONE	<u>v depending on</u> 105 SOIL pm	fractures and	solution enlarged joint
185(m	more the	an 10 (m)			
TPRECIPITATION	OT ONE YEAR 24 H	OUR RAINFALL	DS SLOPE	 	
<u>6(in)</u>		(in)	SITE SLOPE	Northeast	SLOPE, TERRAIN AVERAGE SLOP
DOD POTENTIAL	10				
None YEAR	FLOODPLAIN	SITE IS ON BARRI	ERISLAND, COASTAI	L HIGH HAZARO ARE	A, RIVERINE FLOODWAY
TANCE TO WETLANDS (5 acre)		THER	12 DISTANCE TO CRIT	CAL HABITAT (of entarge	
COLOMBIA	•	ITIEN			(mi)
A(m	i)	2.8 (mi)	ENDANGERE	D SPECIES:	······································
ne ravine is the preglacial valley.	t south and we product of eros	st of a deep ravin	luvial deposit	s in the cente	y of Irondequoit Creek. er line of a buried and east to arms of the
avine.					
_		.•			
-					
		•			
OURCES OF INFORMA	TION (Cate asserts referen	car v.g., state wat remain denies	reported)		
Atlas of evleven	Selected Aquife	rs in NYS. USGS h	later Resources	Investigation	ns, Open File Report
82-553, Albany, N					- '
•		munity Water Source	s, 1982		
		Soil Conservation		th 1973	
Site Inspection,		a Associates Repor			tudy, July 1982

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

DI STATE OF STE HAMEN NY D002209625

SAMPLES TAKE SAMPLE TYPE GROUNDWATER	¥	01 NUMBER OF SAMPLES TAKEN	OZ SAMPLES SENT TO		
	•	01 NUMBER OF	102 SAMPLES SENT TO		
GROUNDWATER			Organics	Inomeraies	03 ESTIMATED DATE
			Organics	Inorganics	
SURFACE WATER		2	Compu-Chem	Toxicon	11/9/84
WASTE				100110011	
AR.					
RUNOFF			:	`	
SPILL				. 	
SOL		4	Compu-Chem	Toxicon	11/9/84
VEGETATION					
OTHER Sedime	nt	2	Compu-Chem	Toxicon	11/9/84
L FIELD MEASUR	MENTS TA	KEN			
TYPE		02 COMMENTS			
		No field man			
		no fleig meas	urements were taken.		
					
					,
					
			-		
r. Photographs	AND MAPS				
I TYPE OF GROUN	O AERIAL	,	oz ex custoov of NUS Corporati	on . Edison . NJ	
MAPS	04 LOCATION	OF MAPS			
Ø YES	NUS_	Corporation, E	dison. NJ		
	TA 00115	CTED (Provide neverse de			
. OTHER FIELD DA	ITA COLLE	C 1 ETI (Manage untrative de	907(\$100K)		
Field note:	were rea	corded in MUS &	Corporation Field Notebook No	215 TOD #02-8303-100#	
				. 213, IDD #02-8303-100A	•
		•			
					
i. Sources of in	FORMATIO	N (Cito specific references.	e g , state Mes, sumple analysis, reports		·
Site Inspe	_				

^ ====	P		ARDOUS WASTE SITE	L IDENTIFICATION		
≎EPA	SITE INSPECTION REPORT PART 7 - OWNER INFORMATION			002209625		
CURRENT OWNER(S)			PARENT COMPANY IN ASSISTANT			
NAME		02 D+8 NUMBER	OB NAME	.]0	9 0+8 NUMBER	
Jarl Extrusions, Inc.	1		Not Applicable			
STREET ADDRESS (P.O. Box. AFD #. orc.)		04 SIC CODE	10 STREET ADDRESS IP O Box. RFD #. orc.		11 SIC CODE	
860 Linden Avenue	CO STATE	07 ZIP CODE	12 CITY	112 STATE I	4 ZIP CODE	
Pittsford	NY					
I NAME		14445 02 D+B NUMBER	OS NAME		9 0 + 8 NUMBER	
			\$!		
STREET ADDRESS (P.O. Box. NFD 4, old.)		04 SIC CODE	10 STREET ADDRESS (P.O. Bor, APO F. ML.)	,	11 SIC CODE	
			_			
satv	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE	
	[]					
I NAME .		02 D+8 NUMBER	OB NAME	· .	09 D+6 NUMBER	
		To the second		l		
3 STREET ADDRESS (P.O. Box. RFD F. ML.)		04 SIC COOE	10 STREET ADDRESS (P.O. des. APD P. etc.)	,	11SIC CODE	
SCITY	OR STATE	07 Z# COOE	12 017	LIBRIATE	14 ZIP CODE	
	00312.2	0.2.000	12617			
1 NAME		02 9+8 NUMBER	DE NAME		09 D+8 NUMBER	
			33.33.2			
3 STREET ADDRESS (P Q. Box. RFQ F. etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box. AFD J. otc.,		118IC CODE	
		1	1		. !	
s city	06 STATE	O7 ZIP CODE	12 017	13STATE	14 ZIP CODE	
				1 1		
IL PREVIOUS OWNER(S) (List most recei	nt (trail)		IV. REALTY OWNER(S) (W appecage)	nat maket recent first)		
1 NAME		02 D+8 NUMBER	O1 NAME]	02 D+8 NUMBER	
Not Applicable			Not Applicable			
3 STREET ADDRESS (P G. Box, APD P. sec.)		04 SIC COOE	03 STREET ADDRESS (P.O. Bus. APD 4, one	1	04 SIC CODE	
SCITY	OSSTATE	07 ZIP CODE	05 CITY	OG STATE!	OT ZIP CODE	
		· ·				
1 NAME		02 D+8 NUMBER	O1 NAME		02 D+8 NUMBER	
		_	ł			
STREET ADDRESS (P.O. Box, AFD P. col.)		04 SIC CODE	03 STREET ADDRESS (P O. Box. APD 4. occ.	.,	04 SIC CODE	
				120		
SCITY	OS STATE	07 ZIP CODE	OS CITY	GO STATE	07 ZIP CODE	
I NAME		02 D+6 NUMBER	O1 NAME		02 D+ 8 NUMBER	
T (`			ł		
3 STREET ADDRESS (P.O. Dat. AFD P. etc.)		04 SIC CODE	O3 STREET ADDRESS (P O. Bas. APD F. etc.		04 SIC CODE	
· ·•		-			1	
iary	00 STATE	07 20 COOE	08 CITY	06 STATE	07 ZIP CODE	
			}	} [L. <u>-</u>	
/. SOURCES OF INFORMATION (CA		e.g., 1230 /fee, 2070/1 070/	ves. reports		···	
Site Inspection, 9/7/84						
NYS Dept of Environmenta	1 Conservat	ion Region 9 I	Files. Avon. NY			
HIT REPL OF PHALLOGMENTS		ron vedion o	ries, aton, al			
					•	

EPA PORM 2070-13 (7-01)

,EPA		20	TE	TIAL HAZA	RDOUS WASTE SITE		DENTIFI		
CTA		•	. :	BITE INSPEC	CTION REPORT 01 ST		1 STATE 02 STE NUMBER NY 0002209625		
ENT OPERATO	OR (France & defender from		·	· · · · · · · · · · · · · · · · · · ·	OPERATOR'S PARENT COMPA	NY (Ferrica			
A-				- 8 NUMBER	10 HAME			1 0+8 NUMBER	
Same as owner			•	•	Not Applicable		1		
ADDRESS (F.O. M		1	10	4 SIC CODE	12 STREET ADDRESS (P.O. Box. MFD C. etc.)	,		13 SIC COO€	
~			-						
Y		06 STATE	07 23	PCODE	14 017	<u> </u>	15 STATE	16 ZIP CODE	
OF OPERATION	09 NAME OF OWNER		<u> </u>		-	i			
EVIOUS OPERAT	OR(S) (Les mos recor m	E: process and	uy e airk	west from euner)	PREVIOUS OPERATORS' PARE	NT COMP	ANIES (#		
.				+ 8 NUMBER	10 NAME			11 D+8 NUMBER	
Not Applicable	•		l		Not Applicable	•			
EET ADDRESS IP.O. M	ns. RFO F. etc.)		10	4 SIC COD€	12 STREET ADDRESS (P.O. Box. RFD #, one.	uj		13 SIC COO€	
	•					•	•		
		OS STATE	07 2	P COOE	14017		16 STATE	16 2F CODE	
•									
ARS OF OPERATION	09 NAME OF OWNER C	WITING THE	S PER	100				**************************************	
ME	```		02 0	+ & NUMBER	10 NAME			11 D+8 NUMBER	
REET ADDRESS (P.O. Se	- 6607 mm.	.,,	1	4 SIC CODE	12 STREET ADDRESS (P.O. Box, AFD P. etc.			13 SIC CODE	
					1231142) PARTESS (P. U. 382, NOV. W.	.,			
Υ		06 STATE	07 2	P C00E	14 CITY		15 STATE	16 ZIP CODE	
EARS OF OPERATION	09 NAME OF OWNER	DURING TH	us PEI	100				·	
ME	L		020	+8 NUMBER	10 NAME			110+8 NUMBER	
REET ADDRESS (P.O. &			L.,	A BIC CODE	12 STREET ADDRESS (P.O. Ann. RFD P. one			113 SIC CODE	
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~	····	OS STATE	07 Z	P CODE	14 CITY		15 STATE	16 ZIP CODE	
ARS OF OPERATION	09 NAME OF OWNER	DUMING TH	IS PE	100			L	<u> </u>	
	RMATION (Greatest	Frafaransas, e	. e.g., M	wo file, service crays	4. 19979				
LARS OF OPERATION				100 un fina, normir crays	4. 10070				

SPA FORM 2070-13 (7-61)

POTENTIAL HAZARDOUS WASTE SITE LIDE					L	ENTERCATION			
3EPA	•	· 8	HTE INSPE	VSPECTION REPORT OF STATE OF STEP AMOUNT NY D002209625					
	PART	- GEN	ERATORITA	ANSPORTER INFORMATION					
II. ON-SITE GENERATOR			i						
OI NAME		02 0+6	NUMBER .						
lari Extrusions			· · · · · · · · · · · · · · · · · · ·						
STREET ADDRESS (P O Box, RFD P. eds.)		04	SIC CODE	7					
860 Linden Avenue				_}					
217	OS STATE	O7 ZIP C	300E	1					
→Pittsford	NY	1444	15	<u> </u>					
III. OFF-SITE GENERATOR(S)		T							
NAME		020+8	NUMBER	01 NAME	1	02 D+8 NUMBER			
DS STREET ADDRESS (F O. Box, AFD F. Mc.)		104	SIC CODE	03 STREET ADDRESS (P.O. Sea, APD P. ott.)		04 SIC CODE			
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5 CTY	DE STATE	07 ZIP 0	:00 €	los city .	OG STATE	07 ZIP CODE			
•]			·				
OI NAME		02 0+8	NUMBER	01 NAME		02 D+8 NUMBER			
		Ì							
33 STREET ADDRESS (P.O. Box, APO F. onc.)		04	SIC CODE	O3 STREET ADDRESS (P.O. Bast, RPD F, ess.)		04 SIC CODE			
OS CITY	OB STATE	07 239	CODE	OS CITY	OS STATE	07 ZP COOE			
		<u> </u>							
IV. TRANSPORTER(S)									
I NAME		02 0+4	NUMBER	01 NAME	•	02 D+8 NUMBER			
Not Applicable		L	SIC CODE	03 STREET ADDRESS (P.O. Gas, MPD P. cos.)	·	04 SIC CODE			
US STREET AOORESS (P.O. Box. AFD #, occ.)		"	SIC COUR	US STREET ADDRESS (FO. Best, NPO F, BEL)	•	04 SAC CODE			
05 CITY	06 STATE	107 790	2006	los city	ION STATE	07 ZIP CODE			
				Sa.,					
O1 NAME		02 0+6	NUMBER	01 NAME		02 0+8 NUMBER			
		1				1			
D3 STREET ADDRESS (P.O. Box, RFO F. otc.)		104	SIC CODE	03 STREET ADDRESS (F.O. Bas, RFO P. osc.)		04 SIC CODE			
						- 1			
DS CITY	OS STATE	07 23	CODE	05 CITY	00 STATE	07 ZIP CODE			
	- }	1		1	1	1			
V. SOURCES OF INFORMATION (CITE IS	reality referencess.	A.G., 4480	Mac. series analysis	. regertal					
									
Site Inspection 9/7/84.									
	•								
·									
·									
				والمتاريف والمراجع والمراجع والمراجع المراجع المراجع المراجع والمراجع المراجع المراجع المراجع المراجع المراجع					

L DENTIFICATION POTENTIAL HAZARDOUS WASTE SITE OI STATE OZ SITE HLAN SITE INSPECTION REPORT D002209625 NY PART 10 - PAST RESPONSE ACTIVITIES PAST RESPONSE ACTIVITIES 01 () A. WATER SUPPLY CLOSED. 04 DESCRIPTION 03 AGENCY 02 DATE No past history. 01 D 8. TEMPORARY WATER SUPPLY PROVIDED 02 DATE 03 AGENCY 04 DESCRIPTION No past history. 01 🗆 C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION 02 DATE 03 AGENCY No past history. 01 D. SPILLED MATERIAL REMOVED 02 DATE . 03 AGENCY 04 DESCRIPTION No past history. 01 🗆 E. CONTAMINATED SOIL REMOVED 02 DATE 03 AGENCY No past history. 01 D F. WASTE REPACKAGED 04 DESCRIPTION 02 DATE D3 AGENCY No past history. 01 G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION 02 DATE 03 AGENCY No past history. 01 | H. ON SITE BURIAL 04 DESCRIPTION 02 DATE 03 AGENCY No past history. 01 [] I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION D2 DATE D3 AGENCY No past history. 01 [] J. IN SITU BIOLOGICAL TREATMENT 02 DATE . 03 AGENCY OA DESCRIPTION No past history. 01 D K. IN SITU PHYSICAL TREATMENT 02 DATE 03 AGENCY 04 DESCRIPTION No past history. 01 (L. ENCAPSULATION 04 DESCRIPTION 02 DATE 03 AGENCY No past history. 01 I M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION 02 DATE 03 AGENCY No past history. 01 C N. CUTOFF WALLS 02 DATE 03 AGENCY No past history. 01 O. EMERGENCY DIKING/SURFACE WATER DIVERSION 02 DATE 03 AGENCY 04 DESCRIPTION No past history. 01 ☐ P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION 02 DATE 03 AGENCY No past history. 01 () Q. SUBSURFACE CUTOFF WALL 02 DATE 03 AGENCY No past history.

SEPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES	OT STATE OF SITE NAME: NY D002209625
PAST RESPONSE ACTIVITIES (Communication)		
01 GR. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY
No past history.		
01 S. CAPPING/COVERING 04 DESCRIPTION	02 DATE	03 AGENCY
No past history.		
01 T. BULK TANKAGE REPAIRED 04 DESCRIPTION	02 DATE	O3 AGENCY
No past history.	-	
01 U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY
No past history.		
01 U. BOTTOM SEALED 04 DESCRIPTION	02 DATE	03 AGENCY
No past history.		
01 C W. GAS CONTROL 04 DESCRIPTION	O2 DATE	03 AGENCY
No past history.		<u> </u>
01 (X. FIRE CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY
No past history.		·
01 C Y. LEACHATE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
No past history.		
01 T. Z. AREA EVACUATED 04 DESCRIPTION	O2 DATE	03 AGENCY
No past history.		
01 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION	02 DATE	03 AGENCY
No past history.		
01 2. POPULATION RELOCATED 04 DESCRIPTION	O2 DATE	03 AGENCY
No past history.	·	
01 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	02 DATE	03 AGENCY
No remedial activities have on	curred at the site.	
	Morences, e.g., assig Mee, sensile enalysis, reports)	

US EPA Files, New York, NY

Monroe County Environmental Management Council Files, Rochester, NY



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

L IDENTIFICATION

01 STATE 02 SITE NAMED

NY D002209625

CEMENT INFORMATION

STREGULATORY/ENFORCEMENT ACTION (I) YES (I) NO

SCRIFTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

NewYS Department of Environmental Conservation, Region 8 and the Monroe County Environmental imagement Council have conducted site inspections but no enforcement action has occurred to site.

SOURCES OF INFORMATION (City specific references, e.g., sears then, surrigin probject, reporting

NYS Department of Environmental Conservation Region 8 Files, Avon, NY.

TORM 2070-13 (7-\$1)

APPENDIX A

MAPS AND PHOTOS

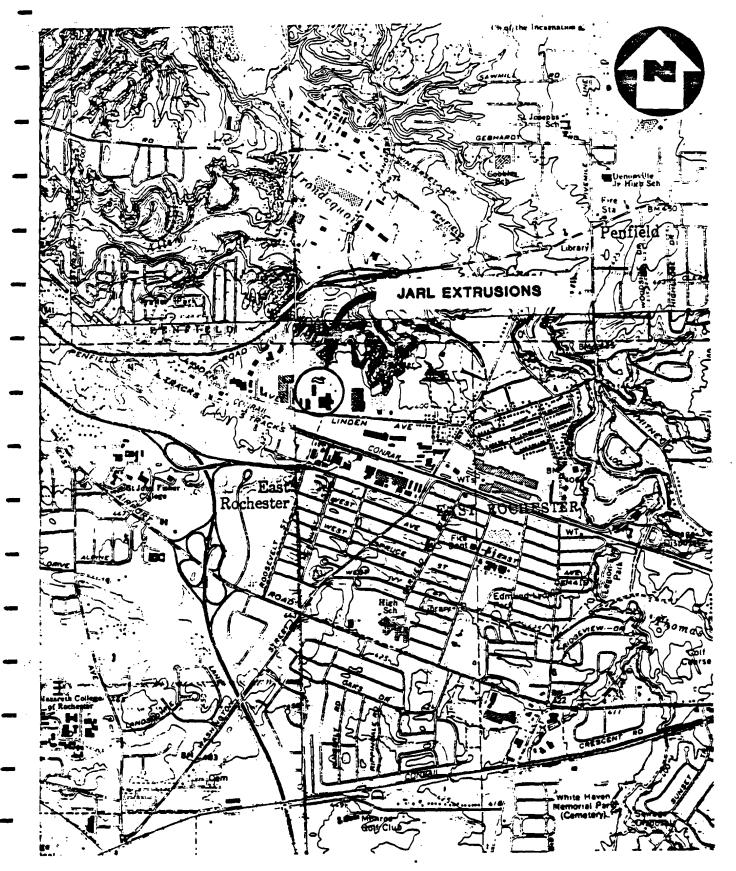
MAPS AND PHOTOS

Figure A-1 provides a Site Location Map.

Figure A-2 provides a Site Map.

Figure A-3 provides a Sample Location Map.

Exhibit A-1 provides photographs of the site.



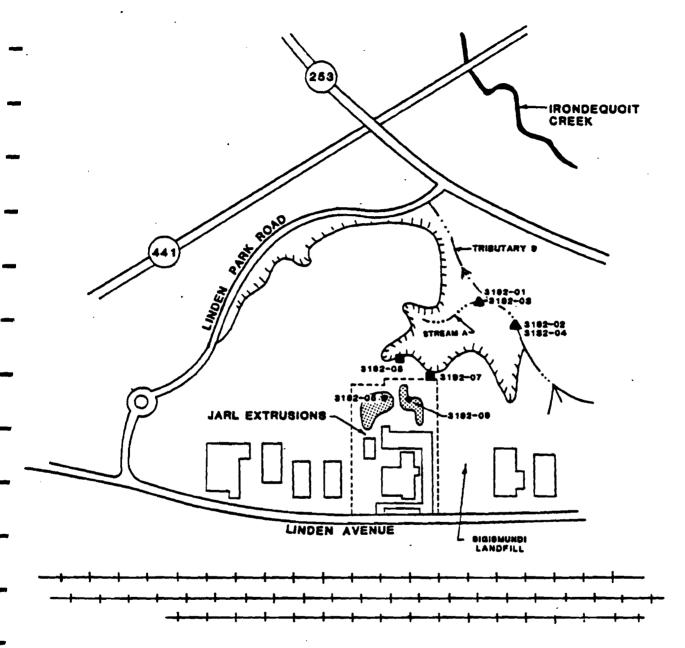
SITE LOCATION MAP

JARL EXTRUSIONS, PITTSFORD, N.Y.

SCALE: 1"=2000"







LEGEND:

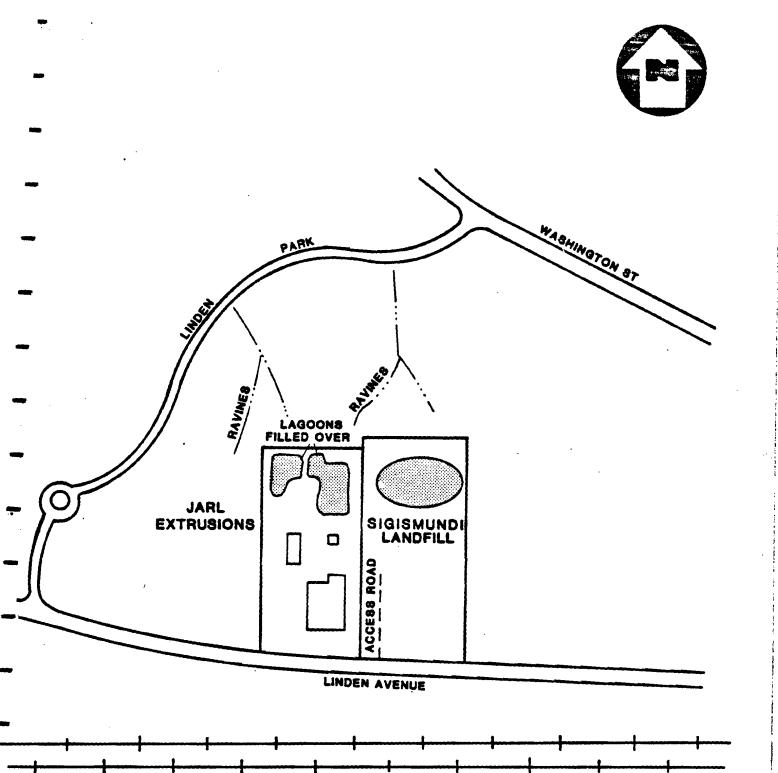
- # SURFACE BOIL BAMPLE LOCATIONS
- SUSSURFACE SOIL SAMPLE LOCATIONS
- A SURFACE WATER/SEDIMENT SAMPLE LOCATIONS
- --- GITE BOUNDARY

SAMPLE LOCATION MAP

JARL EXTRUSIONS, PITTSFORD, N.Y.

(NOT TO SCALE)





SITE MAP

JARL EXTRUSIONS, PITTSFORD, N.Y.

(NOT TO SCALE)

RAILROAD



JARL EXTRUSIONS

EXHIBIT A-1

JARL EXTRUSIONS
PITTSFORD, NEW YORK

PHOTOGRAPH LOG

TDD# 02-8303-100 A

JARL FXTRUSIONS PITTSFORD, NEW YORK TDD# 02-8303-100A PHOTOGRAPH INDEX

Number		Description	<u>Time</u>
-	•• .	September 7, 1984 Tributary 9 about 500 yards south of Linden Park Road. Photo facing west.	9:55 AM
. -	·	September 7, 1984 Close-up of poorly drained soil west and up-slope from Tributary 9. Photo facing northeast.	9:56 AM
,		September 7, 1984 Looking west, up ravine to back of plant building, (possible 7-Up Company), on Linden Avenue.	9:57 AM
~		September 7, 1984 Looking northwest, down ravine to drain- age area and stream beyond.	9:59 AM
5.		September 7, 1984 Front of Jarl Extrusion's plant. Photo facing north.	10:35 AM
6. -		September 7, 1984 W. Russell taking sediment sample from Stream A. Photo facing southwest.	12:20 PM
7		September 7, 1984 W. Russell taking split of sediment sample 3192-03. Photo facing southwest.	12:22 PM
_		September 7, 1984 W. Russell taking surface water sample from Stream A. Photo facing northeast.	12:25 PM
-		September 7, 1984 W. Russell taking split of surface water sample 3192-01. Photo facing southwest.	12:30 PM
		September 7, 1984 W. Russell taking surface water sample 3192-02 from Tributary 9, twenty (20) yards upstream from its confluence with	1:05 PM
- ·		Stream A. Photo facing northeast. September 7, 1984 W. Russell taking split of surface water sample 3192-02. Photo facing northeast.	1:06 PM
re.		September 7, 1984 Location in Stream A where samples numbers 3192-03 and 3192-01 were taken. Photo facing	1:10 PM
		southwest.	

JARL EXTRUSIONS

PITTSFORD, NEW YORK

TDD# 02-8303-100A PHOTOGRAPH INDEX (CONT'D)

mber	-	Description	Time
		September 7, 1984 Point where Stream A drains into Tributary 9. Photo facing east.	1:10 PM
- -	·	September 7, 1984 Point where Stream A drains into Tributary 9. Photo facing west.	1:11 PM
-		September 7, 1984 W. Russell standing where surrace water sample 3192-02 was taken twenty (20) yards upstream from Stream A.	1:15 PM
-		September 7, 1984 W. Russell taking sediment sample 3192-04 from Tributary 9, twenty (20) yards upstream from Stream A. Photo facing northeast.	1:15 PM
_		September 7, 1984 Conduit for Tributary 9 running under Linden Park Road. Photo facing northwest.	1:20 PM
-		September 7, 1984 W. Russell taking subsurface sample 3192-05 from depression along northern boundary of western lagoon. Depth: 3 feet. Photo facing north.	1:30 PM
-		September 7, 1984 Perspective view of W. Russell taking subsurface soil sample 3192-05. Photo facing north.	1:31 PM
-		September 7, 1984 Close-up of soil pile dug from hole for sample 3192-05, showing bits of metallic sludge.	1:32 PM
•		September 7, 1984 Looking into hole for sample 3192-05, showing layer of metallic sludge.	1:32 PM
•		September 7, 1984 Panorama shots. Photo facing north-northeast.	1:34 PM
•		September 7, 1984 Panorama shots. Photo facing northwest.	1:34 PM
.		September 7, 1984 Panorama shots. Photo facing west.	1:34 PM
.		September 7, 1984 Panorama shots. Photo facing southwest.	1:35 PM

JARL EXTRUSIONS PITTSFORD, NEW YORK

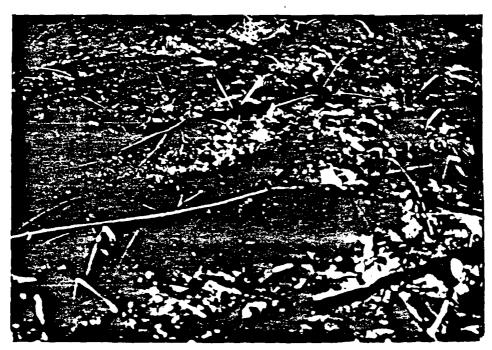
TDD# 02-8303-100A PHOTOGRAPH INDEX (CONT'D)

**mber	Description	Time
-	September 7, 1984 Panorama shots. Photo facing south.	1:35 PM
•	September 7, 1984 Panorama shots. Photo facing southeast.	1:36 PM
! -	September 7, 1984 Panorama shots. Photo facing east.	1:36 PM
·	September 7, 1984 Panorama shots. Photo facing northeast.	1:36 PM
) .	September 7, 1984 W. Russell taking subsurface soil sample 3192-06 from depression in mid-point of	1:38 PM
-	eastern lagoon. Depth: 3 feet. Photo facing northeast.	,
-	September 7, 1984 Looking into hole for sample 3192-06.	1:38 PM
-	September 7, 1984 Perspective view of W. Russell taking subsurface sample 3192-06. Photo facing northeast.	1:39 PM
3.	September 7, 1984	1:44 PM
-	W. Russell taking surface soil sample 3192-07, ten (10) feet downslope from northeastern boundary of site, approximately five (5) feet below elevation of site. Photo	
-	facing southeast.	
i. •	September 7, 1984 W. Russell taking surface soil sample 3192-08, thirty (30) yards downslope from northern boundary of site, approximately twenty (20) yards below elevation of site. Photo facing	1:50 PM
•	northeast.	





1. September 7, 1984 9:55 AM
Tributary 9 about 500 yards south of Linden Park Road. Photo facing west.



September 7, 1984 9:56 AM
 Close-up of poorly drained soil west and up-slope from
 Tributary 9. Photo facing northeast.

JARLS EXTRUSION, Pittsford, New York





 September 7, 1984 10:35 AM Front of Jarl Extrusion's plant. Photo facing north.



September 7, 1984 12:20 PM
 W. Russell taking sediment sample from Stream A. Photo facing southwest.

JARL EXTRUSION, Pittsford, New York



September 7, 1984 12:22 PM
 Russell taking split of sediment sample 3192-03. Photo facing southwest.



 September 7, 1984 12:25 PM
 W. Russell taking surface water sample from Stream A. Photo facing northeast.

JARLS EXTRUSION, Pittsford, New York



9. September 7, 1984 12:30 PM
W. Russell taking split of surface water sample 3192-01.
Photo facing southwest.



10. September 7, 1984 1:05 PM
W. Russell taking surface water sample 3192-02 from Tributary
9, twenty (20) yards upstream from its confluence with
Stream A. Photo facing northeast.



11. September 7, 1984 1:06 PM
W. Russell taking split of surface water sample 3192-02.
Photo facing northeast.



12. September 7, 1984 1:10 PM
Location in Stream A where samples numbers 3192-03 and 3192-01 were taken. Photo facing southwest.



13. September 7,1984 1:10 PM
Point where Stream A drains into Tributary 9. Photo facing east.



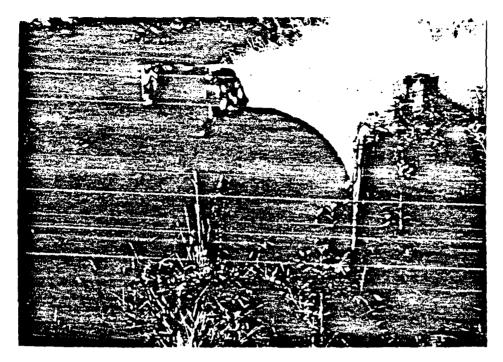
14. September 7, 1984 1:11 PM
Point where Stream A drains into Tributary 9. Photo facing west.



15. September 7, 1984 1:15 PM
W. Russell standing where surface water sample 3192-02 was taken twenty (20) yards upstream from Stream A.



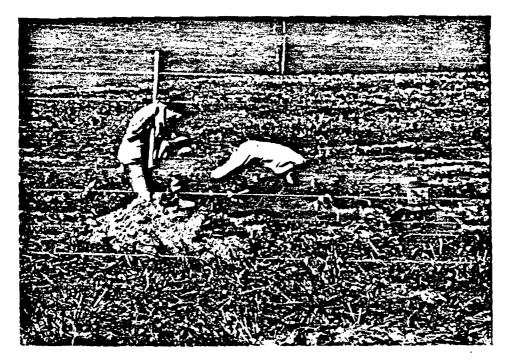
16. September 7, 1984 1:15 PM W. Russell taking sediment sample 3192-04 from Tributary 9, twenty (20) yards upstream from Stream A. Photo facing northeast.



17. September 7, 1984 1:20 PM
Conduit for Tributary 9 running under Linden Park Road.
Photo facing northwest.



18. September 7, 1984 1:30 PM
W. Russell taking subsurface sample 3192-05 from depression along northern boundary of western lagoon. Depth: 3 feet. Photo facing north.

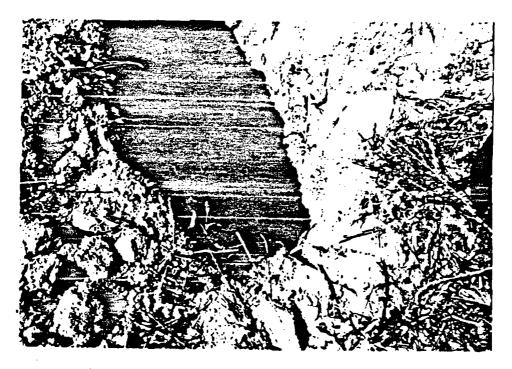


19. September 7, 1984 1:31 PM
Perspective view of W. Russell taking subsurface soil sample 3192-05. Photo facing north.



20. September 7, 1984 1:32 PM Close-up of soil pile dug from hole for sample 3192-05, showing bits of metallic sludge.



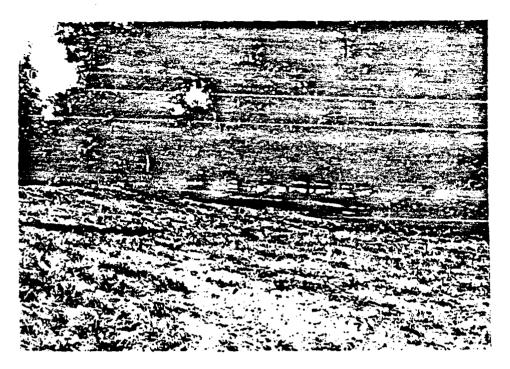


21. September 7, 1934 1:32 PM
Looking into hole for sample 3192-05, showing layer of metallic sludge.



22. September 7, 1984 1:34 PM
Panorama shots. photo facing north-northwest.





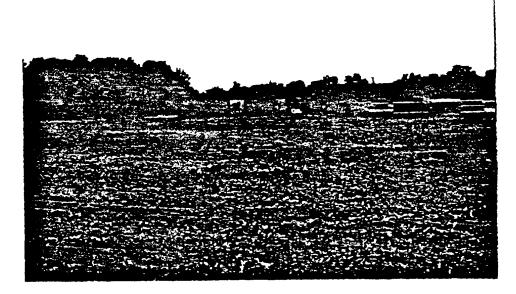
23. September 7, 1984 1:34 PM
Panorama shots. Photo facing northwest.



24. September 7, 1984 1:34 PM Panorama shots. Photo facing west.



25. September 7, 1984 1:35 PM Panorama shots. Photo facing southwest.



26. September 7, 1984 1:35 PM Panorama shots. Photo facing south.



29. September 7, 1984 1:36 PM Panorama shots. Photo facing northeast.



30. September 7, 1984 1:38 PM
W. Russell taking subsurface soil sample 3192-06 from depression in mid-point of eastern lagoon. Depth: 3 feet. Photo facing northeast.

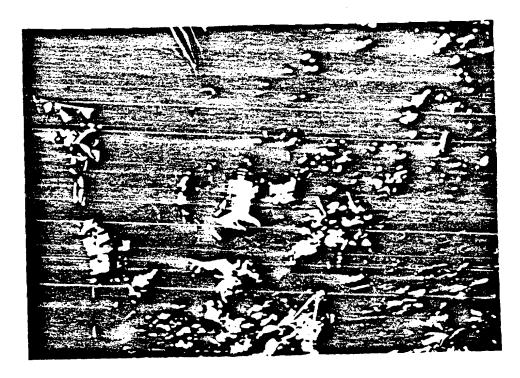




31. September 7, 1984 1:38 PM
Looking into hole for sample 3192-06.



32. September 7, 1984 1:39 PM
Perspective view of W. Russell taking subsurface sample 3192-06. Photo facing northeast.



33. September 7, 1984 1:44 PM
W. Russell taking surface soil sample 3192-07, ten (10) feet downslope from northeastern boundary of site, approximately five (5) feet below elevation of site. Photo facing southeast.



34. September 7, 1984 1:50 PM

W. Russell taking surface soil sample 3192-08, thirty (30) yards downslope from northern boundary of site, approximately twenty (20) yards below elevation of site. Photo facing northeast.

Summary Statement
Jarl Extrusions
Pittsford, New York

Jarl Extrusions is a metal finishing operation located in an industrial area of Pittsford, Monroe County, New York. From 1963 until 1976 approximately 200,000 gallons of process waste water was discharged to on-site lagoons annually. Two of the major constituents in the waste water were aluminum and chromium. In 1980, the lagoons were filled without removal of any sludge. Subsequent testing of one lagoon has indicated soil contamination.

Sample Identification:

A• 3192-01 B• " -02

" -03 " -04

-05

H• 3192-06 I• " -07 J• " -08

Comments:

Client:

Jarl Extrusions P.O. Box 351 860 Linden Ave.

860 Linden Ave. East Rochester, New York 14445

R LABORATORIES

23 N. Main Street-Fairport, New York 14450 - 7 1 6 / 4 2 5 - 2 2 1 0

Date Received: 9-7-84
Laboratory No.: 84-9-362
Purchase Order No.:
Report Date: 11-9-84

Auth. Signature : (lan) . Kuffs.
Lab Director : Alan J. Latin

Attn: Mr. Philip Aldrich

Ī	Parameters	A		С	D	E	F	G	Н	<u> </u>	J
₩ 	Beryllium	J< 0.05	< 0.05	< 0.19	< 0.18	< 0.19	< 0.19	N. A.	< 0.18	< 0.19	< 0.21
	Chromium (Total)	< 0.02	< 0.02	3.74	2.10	1080	982	N.A.	3.89	4.87	6.12
	Nickel V	< 0.1	< 0.1	3.6	5.3	8.8	8.3	127 %	5.5	9.0	9.0
Ï	Copper	< 0.02	< 0.02	5.23	5.24	210_	187	99 %	4.06	8,66	9.04
! *!	Silver	< 0.05	< 0.05	< 0.19	< 0.18	< 0.19	< 0.19	N. A.	< 0.18	< 0.19	< 0.21
	Cadmium	< 0.01	0.01	0.097	< 0.035	0.040	<u> 0.040</u>	94 %	< <u>0.036</u>	< 0.038	< 0.042
	Zinc	0.05	< 0.05	63.12	58.00	61.28	55.00	N. A.	29.44	42.55	35.74
{	Mercury	< 0.0002	0.0013	0.0780	< 0.0170	< 0.0160	0.0140	92 %	0.0160	0.0114	0.0124
 	Thallium	< 0.5	< 0.5	< 1.93	< 1.80	< 1.96	< 1.98	N.A.	< 1.81	< 1.93	< 2.10
	Lead	< 0.02	< 0.02	7.92	10.8	19.8	16.4	99 %	2.49	15.8	6.12
	Arsenic	< 1.0	<u>< 1.0</u>	< 3.9	<u></u>	< 4.0	< 3.9	N. A.	< 3.6	< 3.9	< 4.2

Note: All results expressed in Mg/L unless noted otherwise.

N. A. = Not Available; samples were not spiked

Say Durice

Appendix

F 5

Jarl Extrusion . Attn: Mr. Phil		Labora Purcha Report Auth	se Order No.: Date Signature	9-7-84 84-9-362 11-9-84 (Lan) Alan J.	1. Kullin	Co Do E.			H. I. J.	pike Rec 3192-06
!				-				· · · · · · · · · · · · · · · · · · ·		
Parameters	A	В	C	D	E	<u> </u>	G	<u> </u>	11	J
Antimony	< 0.5	< 0.5	< 1.93	<u> < 1.80</u>	J < 1.96	< 1.98	l N. A.	<u> < 1.81</u>	< 1,93	<u> < 2.10</u>
Selenium_	< 2.0	< 2.0	< 7.8	< 7.2	< 8.0	< 7.8	J_N.A.	<u> < 7.2</u>	< 7.8	<u> < 8.4</u>
		<u></u>		J		J	<u> </u>	J		
		<u> </u>	J	J	J		J	J		J <u> </u>
		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	ļ	<u> </u>	-ļ	<u> </u>
		- -	<u> </u>	<u> </u>		<u> </u>	<u>}</u>	<u> </u>	J <u></u>	<u> </u>
		<u> </u>	J	<u> </u>	J]	<u> </u>		- } -
		_j	_J	J	J]	J	J	<u> </u>
 		 I		J	J	J	J	J 1	_J	
		 	J 	J I	J	<u> </u>	J	J	J	J
ote: All results ex	pressed in Mg/L	unless noted	otherwise.	J	J	J	J	.J	_ 	_J

l. 6-27-84]

PURGEABLE HALOCARBONS

Client : Jarl Extrusions

P. O. Box 351
East Rochester, New York

14445

Date Rec'd : 9-7-84

Lab. No. : 84-9-362

Report Date : 11-9-84

Attn : Mr. Philip Aldrich

		Sample	Sample	
PARAMETER	UNITS	3192-01	3192-02	
Chloromethane	ug/l	< 1	< 1	
Bromomethane	ug/l	< 1	< 1	
Dichlorodifluoromethane Vinyl Chloride	ug/1	< 1	< 1	
Chloroethane	ug/l	< 1	< 1	
Methylene Chloride	ug/1	11	9	
Trichlorofluoromethane	ug/l	< 1	< 1	
1,1-Dichloroethene	ug/l	< 1	< 1	
1,1-Dichloroethane	ug/l	< 1	< 1	
trans-1,2-Dichloroethene	ug/l	< 1	< 1	
Chloroform	ug/l	< 1	< 1	
1,2-Dichloroethane	ug/l	< 1	< 1	
l, l, l-Trichloroethane	ug/l_	< 1	< 1	
Carbon Tetrachloride	ug/l	< 1	< 1	
Bromodichloromethane	ug/l	< 1	< 1	
1,2-Dichloropropane	ug/l	< 1	< 1	
trans-1,3-Dichloropropene	ug/1	< 1	< 1	
Trichloroethene	ug/l	< 1	< 1	
Dibromochloromethane 1,1,2-Trichloroethane cis-1,3-Dichloropropene	ug/l	< 1	< 1	
2-Chloroethylvinyl Ether	ug/l	<10	<10	
Bromoform	ug/1_	< 1	< 1	
1,1,2,2-Tetrachloroethane Tetrachloroethane	ug/l	< 1	< 1	

Laboratory Director

Analyst





Division of Solid and Hazardous Waste

Inactive Hazardous Waste Disposal Sites in New York State

Site List by Counties; Volume 8

- Chemung
- Genesee
- Livingston
- Monroe
- Ontario

- Orleans
- Schuyler
- Seneca
- Steuben
- Wayne
- Yates

December 1984

A Joint Report of the New York State Department of Environmental Conservation and Health
New York State/Department of Environmental Conservation

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID AND HAZARDOUS WASTE INACTIVE HAZARDOUS WASTE DISPOSAL SITE REPORT

CLASSIFICATION CODE: 2a

REGION: 8

SITE CODE: 828005

NAME OF SITE : Jarl Extrusions Inc. STREET ADDRESS: 860 Linden Avenue

TOWN/CITY:

COUNTY:

ZIP:

E. Rochester Pittsford

Monroe

SITE TYPE: Open Dump- Structure- Lagoon-X Landfill-X Treatment Pond-_ESTIMATED SIZE: 2 Acres

SITE OWNER/OPERATOR INFORMATION:

CURRENT OWNER NAME....: Jarl Extrusions

▼ CURRENT OWNER ADDRESS.: Linden Ave.. E. Rochester 14445

OWNER(S) DURING USE ...: Jarl Extrusion

OPERATOR DURING USE...: same

→ OPERATOR ADDRESS..... E Rochester

PERIOD ASSOCIATED WITH HAZARDOUS WASTE: From 1961 To 1976

SITE DESCRIPTION:

- 005a Lat 43 07' 22" N Long 77 29' 55" W. dump-over the bank-1/4 acre 0056 Lat 43 07' 18" N Long 77 29' 53" W - Lagoon
- Hillside topography commercial industrial residential area
- → nearest dwelling 2000 feet
 - nearest waterbody: unnamed tributary to Irondequoit Creek 005a - was a small dumping area north of the plant, west of the lagoon 005b - were two Lagoons used for discharge of waste water from a
- metal finishing operation from 1963-1978, In 1980 the lagoons were filled in, the sludge was not removed prior to filling.
- This site is being investigated under the NYS Superfund with Sigismondi
- -7-Up sites, R.R. Car Shop, NYS DOT.

HAZARDOUS WASTE DISPOSED: Confirmed- Suspected

-____TYEE____QUANTITY_(units)____

→waste, hydrolic oil spent metal etching - al, cr, (TOT), Hex) unknown

200,000 gallons/year

SITE CODE: 828005

ANALYTICAL DATA AVAILABLE:

	CONTRAVENTION OF STANDARDS:	NAM STF
	Groundwater- Drinking Water- Surface Water- Air-	TO↓ F'∈
,	LEGAL ACTION:	SIT
	TYPE: none State- Federal-	EST
•	STATUS: In Progress- Completed-	SIT
	REMEDIAL ACTION:	CUR
		CUF
-	Froposed- Under Design- In Frogress- Completed- NATURE OF ACTION:	OWN OF E
		OPE
_	GEOTECHNICAL INFORMATION:	PER
	SOIL TYPE: Cotonie toamy fine sand (USDA Soit Survey Map)	CIT

Air- Surface Water-X Groundwater- Soil- Sediment-X None-

- ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

Additional sampling/information is needed to determine impact on the environment.

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ASSESSMENT OF HEALTH PROBLEMS:

GROUNDWATER DEPTH: 76 feet

Insufficient information

DATE .: 01/23/85

PERSON(S) COMPLETING THIS FORM:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION	NEW YORK STATE DEPARTMENT OF HEALTH	
NAME: Deborah Jackson TITLE: Sr. Eng. Tech.	NAME: R. Tramontano TITLE: Bur. Tox. Subst. Assess.	HAZ£
NAME: R. A. Olazagasti TITLE: SWMS	NAME:: TITLE:	tone

Page 8 - 72

DATE .: 01/23/85

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID AND HAZARDOUS WASTE INACTIVE HAZARDOUS WASTE DISPOSAL SITE REPORT

CLASSIFICATION CODE: 2a

REGION: 8

SITE CODE: 828011

NAME OF SITE : Sigismondi

STREET ADDRESS: 870 Linden Avenue

TOWN/CITY:

E. Rochester

COUNTY:

ZIP:

Monroe

SITE TYPE: Open Dump- Structure- Lagoon- Landfill-X Treatment Pond-ESTIMATED SIZE: 10 Acres

SITE OWNER/OPERATOR INFORMATION:

CURRENT OWNER NAME....: Beaw Dell Inc.

CURRENT OWNER ADDRESS.: 960 Linden Ave., Rochester, NY 14445

OWNER(S) DURING USE...:

OPERATOR DURING USE...: Durand Contracting Corp.

OPERATOR ADDRESS...... 480 Fineview Dr. W. Webster, NY

PERIOD ASSOCIATED WITH HAZARDOUS WASTE: From 1968 To 9/74

SITE DESCRIPTION:

Lat 43 07' 18" N Long. 77 29' 47" W

Hillside topography - industrial - commercial residential area

nearest dwelling 2000 feet

nearest water body: unnamed tributary to Irondequoit Creek 100 feet This is an inactive landfill located behind the 7-Up Company Jarl Extrusions's cooling water was discharged to the landfill.

This site is being investigated under the NYS Superfund in conjunction

with Jarl Extrusion's and 7-Up (Standard Brands)

HAZARDOUS WASTE DISPOSED: Confirmed- Suspected -X

---- QUANTITY (units)

incinerator residue, ashes metal hydroxide, oil

spent metal etching solvents

cooling waters

unknown unknown unknown

SITE CODE: 828011

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ANALYTICAL DATA AVAILABLE:

Air- Surface Water-X Groundwater- Soil- Sediment- None-

CONTRAVENTION OF STANDARDS:

Groundwater- Drinking Water- Surface Water- Air-

LEGAL ACTION:

TYPE..: none State- Federal-

STATUS: In Progress- Completed-

REMEDIAL ACTION:

Proposed- Under Design- In Progress- Completed-

NATURE OF ACTION:

GEOTECHNICAL INFORMATION:

SOIL TYPE: Colonie Loamy fine sand (USDA Soil Survey Map)

GROUNDWATER DEPTH: 76 feet

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

Additional sampling/information is necessary to adequately

determine impact on the environment.

ASSESSMENT OF HEALTH FROMLEMS:

Insufficient information

PERSON(S) COMPLETING THIS FORM:

NEW YORK STATE DEPARTMENT OF

ENVIRONMENTAL CONSERVATION

NAME: Deborah Jackson TITLE: Sr. Eng. Tech.

NAME .: R. A. Olazagasti

TITLE: SWMS

DATE.: 01/23/85

NEW YORK STATE DEPARTMENT OF HEALTH

NAME.: R. Tramontano

TITLE: Bur. Tox. Subst. Assess.

NAME .:

TITLE:

DATE .: 01/23/85

Page 8 - 80

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID AND HAZARDOUS WASTE INACTIVE HAZARDOUS WASTE DISPOSAL SITE REPORT

CLASSIFICATION CODE: 2a REGION: 8 SITE CODE: 828052 NAME OF SITE : Standard Brands STREET ADDRESS: Linden Ave. COUNTY: ZIP: TOWN/CITY: Rochester (C) Monroe SITE TYPE: Open Dump-X Structure- Lagoon- Landfill- Treatment Fond-ESTIMATED SIZE: Acres SITE OWNER/OPERATOR INFORMATION: CURRENT OWNER NAME: Standard Brands CURRENT OWNER ADDRESS.: Linden Ave., E.Rochester, NY OWNER(S) DURING USE...: OPERATOR DURING USE...: OPERATOR ADDRESS....: FERIOD ASSOCIATED WITH HAZARDOUS WASTE: From Τo SITE DESCRIPTION: - Lat 43 07' 09" N Long 77 291 50" W Hillside topography - commercial industrial Nearest water bodies: unnamed trib. to Irondequoit Creek This site was recommended by the Monroe County EMC

______IYEE______QUANTITY_(units)____

HAZARDOUS WASTE DISPOSED: Confirmed- Suspected -X

SITE CODE: 828052

ANALYTICAL DATA AVAILABLE:

Air- Surface Water- Groundwater- Soil- Sediment- None-X

CONTRAVENTION OF STANDARDS:

Groundwater- Drinking Water- Surface Water- Air-

LEGAL ACTION:

TYPE..: State- Federal-STATUS: In Progress- Completed-

REMEDIAL ACTION:

Proposed- Under Design- In Progress- Completed-NATURE OF ACTION:

GEOTECHNICAL INFORMATION:

SOIL TYPE: Colonie Loamy fine sand (USDA Soil Survey Map) GROUNDWATER DEPTH: 70 feet

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

Further information is necessary to evaluate this site.

ASSESSMENT OF HEALTH FROBLEMS:

Insufficient information

PERSON(S) COMPLETING THIS FORM:

NEW YORK STATE DEPARTMENT OF NEW YOR ENVIRONMENTAL CONSERVATION

NAME: Deborah Jackson TITLE: Sr. Eng. Tech.

NAME .: R. A. Olazagasti

TITLE: SWMS

DATE .: 01/24/85

NEW YORK STATE DEPARTMENT OF HEALTH

NAME:: R. Tramontano

TITLE: Bur. Tox. Subst. Assess.

NAME .: TITLE:

DATE.: 01/24/85

710 Exchange Street Rochester, NY 14608 Appendix F# 85 Trinity Place Hackensack, NJ 07601

GENERAL TESTING CORP. CHAIN OF CUSTODY RECORD

JOB# 52361

Sampling Place: Jail Extausions								
	860	2 Lind		Rochester	NY			
	Stre	et	en Arc	ity	State			
Sample So	urce:	_Producer		Hauler	Disposal Site			
	X	Other T	est Pits	in former u	UNDKWHET lagoon area			
Shipper N	ame:	_		-	3			
Shipper A		· .						
,	Stre	et	City	State	Zip			
Shippers	Telephone # ()						
Collector	's Name: MA	ni Eliza	abeth Ford	; 170	7,5. FOR			
		Print			gnature			
Field Inf	ormation: <u>5</u>	mole	حدالعدانط	Fri. ofkro	oon 10/25/85-			
	WEDIFOR CLOS	<u> </u>						
Relinquis	hed by:	Rec	eived by:		Date/Time			
1. <u>sign</u> .	m. E. ford	1.	sign.	James	10/25/55/ = 4:45 pm			
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3. <u>sign.</u>	•	-	sign.					
for	<i></i>		for /		- Interpretation			
	for Laboratory	· ——	C.D.	onnes	11/15/85 545Pm			
Method of	Shipment: //	H CAN	uer_	-				
Sample	Sample Location	Date	Time	Sample Type	Number of Containers			
Sample	LUCACION	Date	1 TIME	i ype	l			
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general testing corporation

710 Exchange Street Rochester, NY 14608 (716) 454-3760 85 Trinity Place Hackensack, NJ 07601 (201) 488-5242

LABORATORY REPORT

Job No. <u>R52361</u> Date <u>01/09/86</u>

Client

Sample(s) Reference

Mr. Larry Blue Nixon, Hargrave, Devans & Doyle Lincoln First Tower

Jarl Extrusion Lagoon Pits

Rochester, NY 14604

Date Samples ($_{\mathbf{Y}}$) received () collected by General Testing

11/15/85

ANALYTICAL RESULTS (mg/l unless stated otherwise) Sample Description Lagoon NIXON, HARGRAVE 10/25/85 Time(s) Aluminum .54,100 ug/g EP Tox Extract, Metals: Arsenic Barium 🥒 Cadmium Chromium ... <0.5 Mercury ... <0.005 .<0.02 Selenium Silver

Analytical procedures in accordance with Standard Methods for the Examination of Water and Wastewater, 15th Edition and Methods for Chemical Analysis of Water and Wastes, EPA. (<) indicates lowest detectable concentration with procedure used. Data on quality control performed with above sample(s) is available upon request.

Michael K. Perry Aboratory Director